

APPENDIX B – CALCULATIONS

NORTH CREEK BASIN CALCULATIONS



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Job Name: Town of Mead - Drainage Master Plan Update
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By: LAT

Town of Mead - Drainage Master Plan Update

Composite Runoff Coefficient Calculations North Creek Basin

Location: Mead
Minor Design Storm: 10
Major Design Storm: 100
Soil Type: C/D

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_{10} = 0.84i^{0.202}$	$C_{10} = 0.86i^{0.276}$	$C_{10} = 0.87i^{0.232}$	$C_{10} = 0.84i^{0.224}$	$C_{10} = 0.85i+0.025$	$C_{10} = 0.78i+0.110$	$C_{10} = 0.65i+0.254$
B	$C_{10} = 0.84i^{0.189}$	$C_{10} = 0.86i^{0.268}$	$C_{10} = 0.81i+0.057$	$C_{10} = 0.63i+0.249$	$C_{10} = 0.56i+0.328$	$C_{10} = 0.47i+0.426$	$C_{10} = 0.37i+0.536$
C/D	$C_{10} = 0.83i^{0.172}$	$C_{10} = 0.82i+0.035$	$C_{10} = 0.74i+0.132$	$C_{10} = 0.56i+0.319$	$C_{10} = 0.49i+0.393$	$C_{10} = 0.41i+0.484$	$C_{10} = 0.32i+0.588$

Basin Design Data

Basin Name	Design Point	I (%) =	100%	90%	40%	90%	95%	85%	90%	50%	55%	50%	45%	30%	20%	10%	2%	2%	100%	A _{WATER} (sf)	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	Runoff Coeff's				
																								C2	C5	C10	C100	
NCB1	14	66,978			697,443										1,214,701				22,883,739		24,862,861	570.77	4.2%	0.02	0.07	0.16	0.50	
NCB2	15	66,024			103,520										928,669				2,076,623		3,174,836	72.88	10.5%	0.07	0.12	0.21	0.53	
NCB3	16	52,633													482,564				681,038		1,216,235	27.92	13.4%	0.09	0.14	0.23	0.54	
NCB4	17	61,928													806,067				312,215	192,885	1,373,095	31.52	30.8%	0.22	0.29	0.36	0.61	
NCB5	18	140,587													3,476,103				861,087	106,195	4,583,972	105.23	20.9%	0.14	0.21	0.29	0.57	
NCB6	19	469,843	17,413	155,166									77,897		6,942,417				2,204,577	554,575	10,421,888	239.25	24.7%	0.17	0.24	0.31	0.59	
NCB7	20	200,166	6,325	40,199											2,297,885				647,680		3,192,255	73.28	21.8%	0.15	0.21	0.29	0.57	
NCB8	21	85,936			225,620										338,559				8,112,552	2,351,333	11,114,000	255.14	24.8%	0.17	0.24	0.32	0.59	
NCB9	22	49,413			457,839									154,563	689,719				7,493,028		8,844,562	203.04	6.4%	0.04	0.09	0.18	0.51	
NCB10	23	55,410													44,721				320,866		420,997	9.66	16.8%	0.11	0.17	0.26	0.55	
NCB11	24	32,405			106,617										58,093				109,858		3,348,306	76.87	5.2%	0.03	0.08	0.17	0.51	
NCB12	25	154,779	82,666										858,062				15,099		62,731		1,173,337	28.94	52.7%	0.40	0.47	0.52	0.70	
NCB13	26	382,419	256,451	109,820	4,915										1,606,119			718,806	4,451	6,422,325	9,505,306	218.21	17.4%	0.12	0.18	0.26	0.56	
NCB14	27	1,877			114,142	1,455									147,992				5,042,007		5,307,473	121.84	4.1%	0.02	0.07	0.16	0.50	
NCB15	28	14,219			1,254,463	23,892									51,267				8,457,669		9,801,510	225.01	7.3%	0.04	0.09	0.19	0.51	
NCB16	29	64,664			938,627										118,223				15,550,844	404,286	17,076,644	392.03	6.9%	0.04	0.09	0.18	0.51	
NCB17	30	165,500			400,205	23,492								22,098	208,977				406,552	7,914,274	9,141,098	209.85	7.2%	0.04	0.09	0.19	0.51	
NCB18	31	241,031	115,591		5,483										1,202,976			172,443	5,483	2,609,005		4,352,012	99.91	22.5%	0.16	0.22	0.30	0.58
NCB19	32	100,800	34,588	22,622											206,757				152,601		517,368	11.88	45.8%	0.35	0.41	0.47	0.67	
NCB20	33	481,190	350,246	13,448											1,704,803				4,374,368		7,051,690	161.88	23.7%	0.16	0.23	0.31	0.58	
NCB21	34	103,240	51,052	21,518					41,860										269,655		611,182	14.03	36.9%	0.27	0.34	0.41	0.64	
NCB22	35	349,381	190,318	158,153	40,731				140,865						896,597			84,039	168,737		2,028,821	46.58	57.0%	0.44	0.50	0.55	0.72	
NCB23	36	184,397	59,296	121,136						434,525	372,013				317,469				690,417		2,179,255	50.03	46.8%	0.35	0.42	0.48	0.68	
NCB24	37	33,070			117,702														75,481		7,358,474	168.93	3.2%	0.02	0.06	0.16	0.50	
NCB25	38																		982,781		982,781	22.56	55.0%	0.42	0.49	0.54	0.71	
NCB26	39	66,460	42,700	359,663	5,378														3,688,968		4,163,169	95.57	7.9%	0.05	0.10	0.19	0.52	
NCB27	40	62,745			59,029	2,105	29,709								30,541				6,087,077		6,271,206	143.97	3.9%	0.02	0.07	0.16	0.50	
NCB28	41	17,543			56,165														1,892,929		1,966,637	45.15	4.0%	0.02	0.07	0.16	0.50	
NCB29	42	181,758																	6,137,409		6,319,165	145.07	4.8%	0.03	0.07	0.17	0.50	
																					0		0.00					
																					0		0.00					
TOTAL SITE		3,886,394	1,206,646	5,533,099	107,451		29,709	140,865	476,385	372,013	982,781	0	7,040,770	421,633	19,028,433	236,707	0	125,287,975	3,609,274	168,360,135	3865.02	13.0%	0.08	0.14	0.23	0.54		

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
NCB1	14	100yr	0.8918324	0.747348485	1.4174242	0.019644575	4.20937148	0.4	0.1	3	0.0018	0.5	0
NCB2	15	100yr	0.1138816	0.220454545	0.524053	0.028189375	10.54222202	0.35	0.1	3	0.0018	0.5	0
NCB3	16	100yr	0.0436264	0.176136364	0.3723485	0.034587996	13.38282158	0.35	0.1	3	0.0018	0.5	0
NCB4	17	100yr	0.049253	0.155113636	0.2829545	0.027483266	30.75320353	0.35	0.1	3	0.0018	0.5	0
NCB5	18	100yr	0.1644274	0.32405303	0.6060606	0.02374375	20.92561517	0.35	0.1	3	0.0018	0.5	0
NCB6	19	100yr	0.3738338	0.789015152	1.2426136	0.015665295	24.65757346	0.35	0.1	3	0.0018	0.5	0
NCB7	20	100yr	0.1145064	0.625	0.8854167	0.017779679	21.75480029	0.35	0.1	3	0.0018	0.5	0
NCB8	21	100yr	0.3986599	0.204924242	1.5685606	0.019931692	24.81086773	0.4	0.1	3	0.0018	0.5	0
NCB9	22	100yr	0.317255	0.692424242	1.1922348	0.013442415	6.407574055	0.4	0.1	3	0.0018	0.5	0
NCB10	23	100yr	0.0151012	0.107007576	0.2301136	0.020263374	16.81045708	0.4	0.1	3	0.0018	0.5	0
NCB11	24	100yr	0.120104	0.199810606	0.8475379	0.018181006	5.234825013	0.4	0.1	3	0.0018	0.5	0
NCB12	25	100yr	0.0420877	0.258712121	0.5373106	0.01763835	52.67632573	0.35	0.1	3	0.0018	0.5	0
NCB13	26	100yr	0.3409559	0.362310606	0.9090909	0.013345833	17.43218735	0.35	0.1	3	0.0018	0.5	0
NCB14	27	100yr	0.1903794	0.562878788	0.9657197	0.017542655	4.07500594	0.4	0.1	3	0.0018	0.5	0
NCB15	28	100yr	0.3515808	1.309848485	1.6371212	0.018394262	7.314319732	0.4	0.1	3	0.0018	0.5	0
NCB16	29	100yr	0.6125403	0.542613636	1.2217803	0.016442412	6.904531593	0.4	0.1	3	0.0018	0.5	0
NCB17	30	100yr	0.3278918	0.359280303	0.8390152	0.013970655	7.208738819	0.4	0.1	3	0.0018	0.5	0
NCB18	31	100yr	0.156107	0.452083333	0.7410985	0.011098901	22.48508966	0.35	0.1	3	0.0018	0.5	0
NCB19	32	100yr	0.018558	0.222537879	0.3776515	0.010095286	45.82244553	0.35	0.1	3	0.0018	0.5	0
NCB20	33	100yr	0.2529446	0.697159091	1.2253788	0.015366306	23.67096129	0.35	0.1	3	0.0018	0.5	0
NCB21	34	100yr	0.0219231	0.148863636	0.4145833	0.01777524	36.9173994	0.35	0.1	3	0.0018	0.5	0
NCB22	35	100yr	0.0727739	0.089583333	0.442803	0.019721985	56.95765373	0.35	0.1	3	0.0018	0.5	0
NCB23	36	100yr	0.07817	0.158143939	0.4424242	0.021023116	46.80347137	0.35	0.1	3	0.0018	0.5	0
NCB24	37	100yr	0.2639489	0.914962121	1.2359848	0.011759117	3.232890678	0.4	0.1	3	0.0018	0.5	0
NCB25	38	100yr	0.0352524	0.215340909	0.3625	0.023897597	55	0.35	0.1	3	0.0018	0.5	0
NCB26	39	100yr	0.1493331	0.358143939	0.9738636	0.008945935	7.863595256	0.4	0.1	3	0.0018	0.5	0
NCB27	40	100yr	0.2249486	0.327083333	0.5077652	0.010436404	3.895971365	0.4	0.1	3	0.0018	0.5	0
NCB28	41	100yr	0.0705434	0.373674242	0.5981061	0.014540849	3.959428202	0.4	0.1	3	0.0018	0.5	0
NCB29	42	100yr	0.2266689	0.394128788	0.9689394	0.0139914	4.818740767	0.4	0.1	3	0.0018	0.5	0

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Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in./hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
NCB1	14	100YR	0.892	0.747	1.417	0.020	4.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.08	0.04	3.83
NCB2	15	100YR	0.114	0.220	0.524	0.028	10.5	0.35	0.10	3.00	0.50	0.0018	0.00	0.21	0.10	9.71
NCB3	16	100YR	0.044	0.176	0.372	0.035	13.4	0.35	0.10	3.00	0.50	0.0018	0.00	0.27	0.11	12.44
NCB4	17	100YR	0.049	0.155	0.283	0.027	30.8	0.35	0.10	3.00	0.50	0.0018	0.00	0.62	0.17	29.60
NCB5	18	100YR	0.164	0.324	0.606	0.024	20.9	0.35	0.10	3.00	0.50	0.0018	0.00	0.42	0.13	19.81
NCB6	19	100YR	0.374	0.789	1.243	0.016	24.7	0.35	0.10	3.00	0.50	0.0018	0.00	0.49	0.15	23.50
NCB7	20	100YR	0.115	0.625	0.885	0.018	21.8	0.35	0.10	3.00	0.50	0.0018	0.00	0.44	0.14	20.63
NCB8	21	100YR	0.399	0.205	1.569	0.020	24.8	0.40	0.10	3.00	0.50	0.0018	0.00	0.50	0.15	23.65
NCB9	22	100YR	0.317	0.692	1.192	0.013	6.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.13	0.06	5.85
NCB10	23	100YR	0.015	0.107	0.230	0.020	16.8	0.40	0.10	3.00	0.50	0.0018	0.00	0.34	0.12	15.78
NCB11	24	100YR	0.120	0.200	0.848	0.018	5.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.10	0.05	4.77
NCB12	25	100YR	0.042	0.259	0.537	0.018	52.7	0.35	0.10	3.00	0.50	0.0018	0.00	0.86	0.24	51.85
NCB13	26	100YR	0.341	0.362	0.909	0.013	17.4	0.35	0.10	3.00	0.50	0.0018	0.00	0.35	0.12	16.38
NCB14	27	100YR	0.190	0.563	0.966	0.018	4.1	0.40	0.10	3.00	0.50	0.0018	0.00	0.08	0.04	3.71
NCB15	28	100YR	0.352	1.310	1.637	0.018	7.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.15	0.07	6.69
NCB16	29	100YR	0.613	0.543	1.222	0.016	6.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.14	0.07	6.31
NCB17	30	100YR	0.328	0.359	0.839	0.014	7.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.14	0.07	6.59
NCB18	31	100YR	0.156	0.452	0.741	0.011	22.5	0.35	0.10	3.00	0.50	0.0018	0.00	0.45	0.14	21.35
NCB19	32	100YR	0.019	0.223	0.378	0.010	45.8	0.35	0.10	3.00	0.50	0.0018	0.00	0.83	0.22	44.94
NCB20	33	100YR	0.253	0.697	1.225	0.015	23.7	0.35	0.10	3.00	0.50	0.0018	0.00	0.47	0.14	22.52
NCB21	34	100YR	0.022	0.149	0.415	0.018	36.9	0.35	0.10	3.00	0.50	0.0018	0.00	0.74	0.19	35.89
NCB22	35	100YR	0.073	0.090	0.443	0.020	57.0	0.35	0.10	3.00	0.50	0.0018	0.00	0.88	0.26	56.18
NCB23	36	100YR	0.078	0.158	0.442	0.021	46.8	0.35	0.10	3.00	0.50	0.0018	0.00	0.83	0.22	45.92
NCB24	37	100YR	0.264	0.915	1.236	0.012	3.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.06	0.03	2.94
NCB25	38	100YR	0.035	0.215	0.363	0.024	55.0	0.35	0.10	3.00	0.50	0.0018	0.00	0.88	0.25	54.20
NCB26	39	100YR	0.149	0.358	0.974	0.009	7.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.16	0.08	7.20
NCB27	40	100YR	0.225	0.327	0.508	0.010	3.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.08	0.04	3.54
NCB28	41	100YR	0.071	0.374	0.598	0.015	4.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.08	0.04	3.60
NCB29	42	100YR	0.227	0.394	0.969	0.014	4.8	0.40	0.10	3.00	0.50	0.0018	0.00	0.10	0.05	4.39

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Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
NCB1		0.149	0.332	55.5	15.64	28.8	11.05	26.1	482	2,071,905	1.77	3,677,459	60.0	708	3,676,102	1.24
NCB2		0.127	0.146	34.0	5.32	17.7	3.76	8.9	101	264,570	1.89	500,928	45.0	130	500,303	1.79
NCB3		0.122	0.092	37.4	4.16	19.4	2.94	6.9	35	101,353	1.93	195,250	45.0	47	194,739	1.67
NCB4		0.100	0.104	23.7	3.40	12.3	2.40	5.7	62	114,425	2.13	243,686	40.0	76	241,806	2.41
NCB5		0.111	0.162	36.0	5.98	18.7	4.22	10.0	137	381,998	2.01	769,546	45.0	188	768,793	1.79
NCB6		0.106	0.208	64.3	11.76	33.4	8.31	19.6	174	868,491	2.06	1,787,458	60.0	287	1,786,873	1.20
NCB7		0.110	0.137	74.1	9.31	38.5	6.58	15.5	46	266,021	2.02	538,481	65.0	77	538,378	1.05
NCB8		0.106	0.212	34.8	7.16	18.1	5.06	11.9	344	926,167	2.02	1,873,004	45.0	469	1,869,812	1.84
NCB9		0.141	0.232	73.1	14.55	38.0	10.28	24.3	130	737,047	1.80	1,326,929	65.0	202	1,326,832	1.00
NCB10		0.116	0.056	41.8	3.30	21.8	2.34	5.5	11	35,083	1.92	67,529	45.0	15	67,203	1.51
NCB11		0.145	0.168	45.1	7.34	23.5	5.18	12.2	80	279,026	1.79	498,552	50.0	108	498,127	1.40
NCB12		0.087	0.133	31.4	4.71	16.3	3.33	7.9	40	97,778	2.39	233,648	40.0	58	232,943	2.15
NCB13		0.115	0.206	43.5	8.37	22.6	5.92	14.0	235	792,109	1.97	1,563,384	50.0	340	1,561,737	1.56
NCB14		0.149	0.209	65.8	12.08	34.2	8.54	20.1	87	442,289	1.77	784,341	60.0	129	784,264	1.06
NCB15		0.138	0.235	103.7	20.22	53.9	14.29	33.7	102	816,793	1.81	1,479,082	80.0	170	1,478,969	0.75
NCB16		0.140	0.280	51.4	12.56	26.7	8.87	20.9	357	1,423,054	1.81	2,570,163	55.0	514	2,569,182	1.31
NCB17		0.139	0.231	44.1	9.32	22.9	6.58	15.5	223	761,758	1.81	1,378,491	50.0	305	1,377,896	1.45
NCB18		0.109	0.158	56.3	8.32	29.3	5.88	13.9	83	362,668	2.03	737,205	55.0	130	736,941	1.30
NCB19		0.091	0.086	45.4	4.50	23.6	3.18	7.5	12	43,114	2.31	99,517	45.0	19	99,336	1.62
NCB20		0.107	0.185	68.7	11.25	35.7	7.95	18.7	111	587,641	2.05	1,202,655	60.0	183	1,202,496	1.13
NCB21		0.095	0.081	37.9	3.87	19.7	2.73	6.4	17	50,932	2.20	112,185	45.0	25	111,843	1.79
NCB22		0.085	0.176	12.4	3.18	6.4	2.24	5.3	176	169,068	2.44	412,603	35.0	181	401,153	3.88
NCB23		0.090	0.166	18.0	3.79	9.3	2.68	6.3	131	181,605	2.32	421,301	35.0	155	418,880	3.10
NCB24		0.152	0.235	93.4	18.37	48.6	12.98	30.6	85	613,206	1.76	1,081,485	75.0	137	1,081,444	0.81
NCB25		0.086	0.125	23.2	3.74	12.1	2.64	6.2	45	81,898	2.42	197,962	40.0	60	196,857	2.64
NCB26		0.136	0.176	68.1	10.68	35.4	7.55	17.8	66	346,931	1.82	630,448	60.0	100	630,193	1.04
NCB27		0.150	0.221	40.1	8.31	20.9	5.87	13.9	168	522,601	1.77	925,683	50.0	221	924,764	1.53
NCB28		0.150	0.136	69.3	8.74	36.0	6.18	14.6	31	163,886	1.77	290,412	60.0	45	290,250	1.00
NCB29		0.147	0.217	55.6	10.77	28.9	7.61	18.0	122	526,597	1.78	938,371	55.0	175	938,011	1.21

NORTH CREEK BASIN

Printouts for Unit Hydrographs

flow in cfs

Time in minutes	NCB1	NCB2	NCB3	NCB4	NCB5	NCB6	NCB7	NCB8	NCB9	NCB10	NCB11	NCB12	NCB13	NCB14	NCB15	NCB16	NCB17	NCB18	NCB19	NCB20	NCB21	NCB22	NCB23	NCB24	NCB25	NCB26	NCB27	NCB28	NCB29
5	80.46	74.07	31.23	61.11	90.30	44.98	17.03	182.75	23.93	10.70	41.12	32.78	101.06	21.44	10.91	83.78	82.13	36.05	10.37	30.46	16.12	175.64	122.73	10.65	43.03	19.65	73.03	12.31	36.20
10	228.01	100.34	34.69	59.34	137.02	116.96	38.21	331.32	67.73	10.68	76.17	39.89	208.90	56.53	33.14	262.72	183.59	74.19	12.21	77.45	17.14	127.76	120.59	31.86	43.69	48.34	150.07	26.36	89.25
15	361.38	95.62	32.90	48.54	132.88	161.15	46.30	339.06	103.80	10.18	79.39	37.14	234.95	78.96	58.31	317.54	222.53	83.11	11.85	104.37	16.24	85.71	89.14	54.34	35.69	63.53	167.92	30.54	117.80
20	445.91	84.43	29.51	40.12	120.59	174.47	46.14	310.85	124.58	9.32	76.24	31.42	227.48	86.81	78.32	356.45	218.73	81.73	11.11	110.46	14.58	61.16	67.40	70.56	29.23	65.69	161.10	30.29	122.11
25	481.15	71.60	25.43	32.62	101.57	172.46	45.35	257.63	130.11	8.11	70.10	27.10	209.47	86.04	92.27	352.79	204.23	78.45	10.01	109.11	12.60	36.60	54.13	80.77	23.58	64.69	144.93	29.61	119.04
30	476.40	63.09	22.81	27.63	90.54	166.99	43.98	228.19	128.74	7.40	60.98	23.44	180.91	83.62	99.99	334.38	179.32	73.28	8.88	105.98	11.34	27.54	41.76	84.70	19.95	62.64	123.24	28.51	112.59
35	451.92	54.58	20.20	23.25	79.51	158.07	42.06	198.74	125.25	6.69	55.29	19.90	162.52	79.54	101.66	301.97	157.79	66.20	8.14	101.04	10.07	19.35	29.40	84.42	16.67	59.52	110.75	26.97	102.75
40	408.39	47.82	17.59	18.87	68.49	145.68	39.56	170.42	119.66	5.99	50.17	17.77	146.56	73.82	101.05	262.92	142.69	60.06	7.39	94.32	8.80	11.17	23.09	83.27	13.39	55.35	98.25	25.00	90.80
45	355.50	42.87	16.00	14.49	62.10	130.40	36.49	153.64	111.95	5.33	45.06	15.63	130.60	66.46	99.62	241.64	127.59	55.83	6.64	85.80	7.99	2.98	18.97	81.29	10.11	50.12	85.76	22.77	84.29
50	328.15	37.92	14.46	11.68	55.71	122.44	33.88	136.86	102.12	4.91	39.94	13.50	115.90	61.87	97.39	220.36	112.49	51.61	5.99	79.63	7.24	0.00	14.85	78.47	8.34	46.93	77.92	21.52	77.78
55	300.79	32.97	12.91	10.21	49.32	114.48	32.11	120.08	94.44	4.48	36.97	11.36	106.75	58.00	94.35	199.08	103.45	47.38	5.54	74.97	6.49	10.73	74.81	7.25	44.15	70.81	20.28	71.27	
60	273.44	28.02	11.36	8.75	42.94	106.52	30.35	103.30	89.16	4.06	34.00	9.23	97.61	54.13	90.50	178.20	94.86	43.15	5.10	70.31	5.73	6.61	70.32	6.16	41.36	63.69	19.03	64.76	
65	246.09	23.07	9.82	7.29	36.55	98.56	28.58	86.52	83.89	3.64	31.03	7.72	88.46	50.25	85.84	166.26	86.28	40.03	4.65	65.66	4.98	2.49	64.99	5.06	38.58	56.57	17.79	59.51	
70	228.78	19.44	8.27	5.83	30.16	90.60	26.82	69.74	78.61	3.21	28.06	7.01	79.32	46.38	80.38	154.33	77.69	37.57	4.21	61.00	4.23	0.00	61.53	3.97	35.80	49.46	16.54	55.79	
75	213.69	17.79	6.91	4.37	26.19	84.60	25.05	63.50	73.34	2.79	25.10	6.30	70.18	42.89	75.31	142.40	69.10	35.10	3.76	56.34	3.47	58.85	2.88	33.01	42.34	15.30	52.06		
80	198.60	16.14	6.39	2.91	24.06	80.02	23.29	57.91	68.06	2.36	22.13	5.58	61.03	40.67	72.41	130.46	60.52	32.63	3.32	53.19	3.22	56.16	1.78	31.35	35.22	14.56	48.33		
85	183.51	14.49	5.88	1.45	21.93	75.44	22.21	52.31	63.76	2.09	19.16	4.87	51.89	38.44	69.51	118.53	51.93	30.17	2.87	50.49	2.97	53.48	0.69	29.73	31.79	13.83	44.60		
90	168.42	12.84	5.36	0.00	19.80	70.86	21.17	46.72	60.75	1.95	16.19	4.16	45.60	36.21	66.61	106.59	44.17	27.70	2.44	47.79	2.72	50.80	0.00	28.11	29.42	13.09	40.88		
95	153.33	11.19	4.84		17.68	66.28	20.13	41.13	57.73	1.81	15.06	3.45	42.56	33.99	63.71	94.66	41.30	25.24	2.30	45.09	2.46	48.11		26.49	27.05	12.36	37.15		
100	138.24	9.54	4.33		15.55	61.71	19.09	35.53	54.72	1.67	14.07	2.74	39.51	31.76	60.82	82.73	38.44	22.77	2.15	42.39	2.21	45.43		24.88	24.67	11.63	33.42		
105	123.15	7.89	3.81		13.42	57.13	18.05	29.94	51.70	1.53	13.08	2.03	36.46	29.54	57.92	71.25	35.58	20.30	2.00	39.69	1.96	42.74		23.26	22.30	10.90	29.70		
110	108.06	6.24	3.30		11.29	52.55	17.01	24.35	48.69	1.38	12.09	1.32	33.41	27.31	55.02	67.28	32.72	17.84	1.85	36.99	1.71	41.05		21.64	19.93	10.17	25.97		
115	95.29	4.59	2.78		9.16	47.97	15.97	18.75	45.68	1.24	11.10	0.60	30.36	25.08	52.12	63.30	29.86	16.21	1.70	34.29	1.46	39.51		20.02	17.56	9.43	23.73		
120	90.26	2.94	2.27		7.03	43.39	14.93	13.16	42.66	1.10	10.11	0.00	27.31	22.86	49.92	59.32	26.99	15.39	1.56	31.59	1.21	37.98		18.41	15.19	8.70	22.49		
125	85.23	1.29	1.75		4.90	38.82	13.90	7.57	39.65	0.96	9.12		24.27	20.63	48.26	55.34	24.13	14.57	1.41	28.89	0.96	36.44		16.79	12.81	7.97	21.25		
130	80.20	0.00	1.24		2.77	34.68	12.86	1.97	36.63	0.82	8.13		21.22	18.40	46.60	51.36	21.27	13.75	1.26	26.19	0.71	34.91		15.17	10.44	7.24	20.01		
135	75.17	0.72			0.64	33.15	11.82	0.00	33.62	0.68	7.14		18.17	16.97	44.94	47.39	18.41	12.92	1.11	23.49	0.46	33.37		13.55	8.07	6.51	18.76		
140	70.14	0.21			0.00	31.62	10.78		30.60	0.54	6.15		15.12	16.23	43.28	43.41	15.54	12.10	0.96	21.66	0.20	31.83		12.75	5.70	6.00	17.52		
145	65.11		0.00			30.10	9.74		27.59	0.39	5.16		12.07	15.48	41.62	39.43	12.68	11.28	0.81	20.76	0.00	30.30		12.21	3.33	5.75	16.28		
150	60.08					28.57	9.08		25.54	0.25	4.18		9.03	14.74	39.96	35.45	9.82	10.46	0.67	19.86		28.76		11.67	0.95	5.51	15.04		
155	55.05					27.05	8.74		24.54	0.11	3.19		5.98	14.00	38.30	31.47	6.96	9.64	0.52	18.96		27.23		11.13	0.00	5.27	13.79		
160	50.02					25.52	8.39		23.53	0.00	2.20		2.93	13.26	36.64	27.50	4.10	8.81	0.37	18.06		25.69		10.59		5.02	12.55		
165	44.99					23.99	8.04		22.53		1.21		0.00	12.52	34.98	23.52	1.23	7.99	0.22	17.16		24.16		10.06		4.78	11.31		
170	39.96					22.47	7.70		21.52		0.22			11.77	33.32	19.54	0.00	7.17	0.07	16.26		22.62		9.52		4.53	10.07		
175	34.93					20.94	7.35		20.52		0.00			11.03	31.67	15.56		6.35	0.00	15.36		21.09		8.98		4.29	8.82		
180	29.90					19.42	7.01		19.51					10.29	30.01	11.58		5.53		14.46		19.55		8.44		4.05	7.58		
185	24.87					17.89	6.66		18.51					9.55	28.35	7.61		4.70		13.56		18.01		7.90		3.80	6.34		
190	19.84					16.36	6.31		17.50					8.81	26.69	3.63		3.88		12.66		16.79		7.36		3.56	5.10		
195	14.81					14.84	5.97		16.50					8.06	25.03	0.00		3.06		11.76		16.28		6.82		3.31	3.86		
200	9.78					13.31	5.62		15.49					7.32	23.37			2.24		10.86		15.77		6.28		3.07	2.61		
205	4.75					11.79	5.27		14.49					6.58	21.71			1.42		9.96		15.26		5.74		2.83	1.37		
210	0.00					10.26	4.93		13.48					5.84	20.24			0.59		9.06		14.74		5.20		2.58	0.13		
215						8.73	4.58		12.48					5.09	19.69			0.00		8.16		14.23		4.66		2.34	0.00		
220						7.21	4.24		11.47					4.35	19.14					7.26		13.72		4.12		2.09			
225						5.68	3.89		10.47					3.61	18.58					6.36		13.21		3.58		1.85			
230						4.16	3.54		9.46					2.87	18.03					5.46		12.70		3.05		1.61			
235						2.63	3.20		8.46					2.13	17.48					4.56		12.19		2.51		1.36			
240						1.10	2.85		7.45					1.38	16.92					3.66		11.67		1.97		1.12			
245						0.00	2.50		6.45																				

NCB ROUTING CALCULATIONS

NORTH CREEK BASIN

END Basin NCB14

End Node	Upstream Nodes					
NCB14	NCB13	NCB12				
NCB14	NCB13	NCB11	NCB9			
NCB14	NCB13	NCB10	NCB1			
NCB14	NCB13	NCB7	NCB6	NCB5	NCB4	NCB2
NCB14	NCB13	NCB7	NCB6	NCB5	NCB3	

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB14	60	0
NCB13	50	60
NCB12	40	110
NCB11	50	110
NCB9	65	160
NCB10	45	110
NCB1	60	155
NCB7	65	110
NCB6	60	175
NCB5	45	235
NCB4	40	280
NCB2	45	320
NCB3	45	280

END Basin NCB13

End Node	Upstream Nodes					
NCB13	NCB12					
NCB13	NCB11	NCB9				
NCB13	NCB10	NCB1				
NCB13	NCB7	NCB6	NCB5	NCB4	NCB2	
NCB13	NCB7	NCB6	NCB5	NCB3		

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB13	50	0
NCB12	40	50
NCB11	50	50
NCB9	65	100
NCB10	45	50
NCB1	60	95
NCB7	65	50
NCB6	60	115
NCB5	45	175
NCB4	40	220
NCB2	45	260
NCB3	45	220

END Basin NCB10

End Node	Upstream Nodes
NCB10	NCB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB10	45	0
NCB1	60	45

END Basin NCB11

End Node	Upstream Nodes
NCB11	NCB9

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB11	50	0
NCB9	65	50

END Basin NCB7

End Node	Upstream Nodes			
NCB7	NCB6	NCB5	NCB4	NCB2
NCB7	NCB6	NCB5	NCB3	

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB7	65	0
NCB6	60	65
NCB5	45	125
NCB4	40	170
NCB2	45	210
NCB3	45	170

END Basin NCB6

End Node	Upstream Nodes		
NCB6	NCB5	NCB4	NCB2
NCB6	NCB5	NCB3	

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB6	60	0
NCB5	45	60
NCB4	40	105
NCB2	45	145
NCB3	45	105

END Basin NCB5

End Node	Upstream Nodes	
NCB5	NCB4	NCB2
NCB5	NCB3	

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB5	45	0
NCB4	40	45
NCB2	45	85
NCB3	45	45

NORTH CREEK BASIN

END Basin NCB4

End Node	Upstream Nodes
NCB4	NCB2

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB4	40	0
NCB2	45	40

END Basin NCB14&29

End Node	Upstream Nodes					
NCB14	NCB13	NCB12				
NCB14	NCB13	NCB11				
NCB14	NCB13	NCB9				
NCB14	NCB13	NCB10	NCB1			
NCB14	NCB13	NCB7	NCB6	NCB5	NCB4	NCB2
NCB14	NCB13	NCB7	NCB6	NCB5	NCB3	

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB14	60	0
NCB13	50	60
NCB12	40	110
NCB11	50	110
NCB9	65	160
NCB10	45	110
NCB1	60	155
NCB7	65	110
NCB6	60	175
NCB5	45	235
NCB4	40	280
NCB2	45	320
NCB3	45	280
NCB29	55	0
NCB28	60	55
NCB27	50	55
NCB26	60	105
NCB25	40	105
NCB24	75	105
NCB23	35	55
NCB22	35	90
NCB21	45	55
NCB20	60	100
NCB19	45	160
NCB18	55	100
NCB17	50	155
NCB15	80	205
NCB16	55	205
NCB8	45	160

NCB29	NCB28				
NCB29	NCB27	NCB26	NCB25	NCB24	
NCB29	NCB23	NCB22			
NCB29	NCB21	NCB20	NCB19		
NCB29	NCB21	NCB20	NCB18	NCB17	NCB15
NCB29	NCB21	NCB20	NCB18	NCB17	NCB16
NCB29	NCB21	NCB20	NCB8		

END Basin NCB29

End Node	Upstream Nodes				
NCB29	NCB28				
NCB29	NCB27	NCB26			
NCB29	NCB27	NCB25			
NCB29	NCB27	NCB24			
NCB29	NCB23	NCB22			
NCB29	NCB21	NCB20	NCB19		
NCB29	NCB21	NCB20	NCB18	NCB17	NCB15
NCB29	NCB21	NCB20	NCB18	NCB17	NCB16
NCB29	NCB21	NCB20	NCB8		

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB29	55	0
NCB28	60	55
NCB27	50	55
NCB26	60	105
NCB25	40	105
NCB24	75	105
NCB23	35	55
NCB22	35	90
NCB21	45	55
NCB20	60	100
NCB19	45	160
NCB18	55	160
NCB17	50	215
NCB15	80	265
NCB16	55	265
NCB8	45	160

END Basin NCB23/21 To Node 34/36

End Node	Upstream Nodes			
NCB23	NCB22			
NCB22	NCB20	NCB18	NCB17	NCB15
NCB21	NCB20	NCB19		
NCB21	NCB20	NCB18	NCB17	NCB16
NCB21	NCB20	NCB8		

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB23	35	0
NCB22	35	35
NCB21	45	0
NCB20	60	45
NCB19	45	105
NCB18	55	105
NCB17	50	160
NCB15	80	210
NCB16	55	210
NCB8	45	105

END Basin NCB20

End Node	Upstream Nodes		
NCB20	NCB19		
NCB20	NCB18	NCB17	NCB15
NCB20	NCB18	NCB17	NCB16
NCB20	NCB8		

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB20	60	0
NCB19	50	60
NCB18	55	60
NCB17	50	115
NCB15	80	165
NCB16	55	165
NCB8	45	60

END Basin NCB18

End Node	Upstream Nodes	
NCB18	NCB17	NCB15
NCB18	NCB17	NCB16

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB18	55	0
NCB17	50	55
NCB15	80	105
NCB16	55	105

END Basin NCB17

End Node	Upstream Nodes	
NCB17	NCB15	
NCB17	NCB16	

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB17	50	0
NCB15	80	50
NCB16	55	50

END Basin NCB27

End Node	Upstream Nodes	
NCB27	NCB26	
NCB27	NCB25	
NCB27	NCB24	

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB27	50	0
NCB26	60	50
NCB25	40	50
NCB24	75	50

END Basin DS of NCB23

End Node	Upstream Nodes			
NCB23	NCB22			
NCB21	NCB20	NCB19		
NCB21	NCB20	NCB18	NCB17	NCB15
NCB21	NCB20	NCB18	NCB17	NCB16
NCB21	NCB20	NCB8		
NCB29 Upper Portion	NCB27	NCB26		
NCB29 Upper Portion	NCB27	NCB25		
NCB29 Upper Portion	NCB27	NCB24		

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NCB23	35	0
NCB22	35	35
NCB21	45	0
NCB20	60	45
NCB19	45	105
NCB18	55	105
NCB17	50	160
NCB15	80	210
NCB16	55	210
NCB8	45	105
NCB27	50	0
NCB26	60	50
NCB25	40	50
NCB24	75	50

flow in cfs														Total to NCB 14
time in minutes	NCB14	NCB13	NCB12	NCB11	NCB9	NCB10	NCB1	NCB7	NCB6	NCB5	NCB4	NCB2	NCB3	
0	0.00													0.00
5	0.00													0.00
10	0.00													0.00
15	0.01													0.01
20	0.12													0.12
25	2.99													2.99
30	21.31													21.31
35	54.09													54.08
40	85.32													85.32
45	106.99													106.99
50	119.50													119.50
55	126.38													126.38
60	129.22	0.00												129.22
65	129.00	0.00												129.00
70	125.54	0.07												125.61
75	120.73	0.88												121.61
80	114.95	5.06												120.01
85	108.30	30.19												138.49
90	101.30	119.00												220.30
95	94.22	228.68												322.90
100	87.52	298.90												386.42
105	81.85	331.53												413.38
110	76.86	340.17	0.00	0.00		0.00		0.00						417.03
115	72.22	331.73	0.00	0.00		0.00		0.00						403.95
120	67.82	320.07	0.16	0.00		0.01		0.02						388.07
125	63.56	308.79	2.00	0.03		0.08		0.23						374.70
130	59.38	292.07	5.68	0.29		0.37		1.21						358.99
135	55.28	270.79	15.67	5.91		2.22		5.98						355.84
140	51.27	249.70	38.47	36.98		9.10		22.01						407.55
145	47.29	228.32	53.16	74.01		12.67		43.39						458.84
150	43.32	207.48	57.99	94.99		14.11		59.03						476.92
155	39.47	188.01	57.67	104.83		14.58	0.00	67.70						472.25
160	36.21	169.31	55.55	107.73	0.00	14.35	0.00	72.86						456.02
165	33.67	151.38	52.45	105.18	0.00	13.91	0.00	75.71						432.30
170	31.51	134.63	49.41	101.89	0.00	13.48	0.04	76.89						407.86
175	29.58	120.79	47.08	98.85	0.03	13.04	0.49	76.99	0.00					386.84
180	27.82	110.09	43.25	93.46	0.24	12.05	1.44	75.47	0.00					373.82
185	26.18	100.60	39.07	86.24	3.87	11.19	82.55	72.76	0.06					422.52
190	24.65	91.55	34.42	79.38	25.54	10.22	222.29	69.70	0.82					558.57
195	23.23	83.05	30.07	72.57	67.02	9.30	383.79	66.39	4.10					739.51
200	21.87	75.10	26.44	66.07	112.42	8.43	525.02	62.96	18.51					916.81
205	20.53	67.64	23.68	60.04	149.88	7.59	626.70	59.54	66.37					1081.96
210	19.20	60.74	21.40	54.26	174.89	6.79	684.85	56.15	139.28					1217.56
215	17.87	54.19	19.37	48.68	189.83	6.03	708.05	52.95	204.11					1301.07
220	16.55	47.79	17.51	43.27	198.37	5.40	702.31	50.25	246.76					1328.22
225	15.22	41.50	15.77	38.25	202.37	4.92	675.30	47.87	271.00					1312.22
230	13.90	35.27	14.13	34.45	201.40	4.51	646.01	45.64	283.48					1278.80
235	12.58	29.07	12.05	31.36	195.31	4.10	610.53	43.42	287.33	0.00				1225.75
240	11.26	22.92	9.94	28.59	186.90	3.71	568.06	41.13	284.90	0.00				1157.41
245	9.94	16.93	7.93	26.08	177.87	3.36	522.32	38.84	276.93	0.00				1080.28
250	8.63	11.66	6.10	23.77	168.33	3.02	481.12	36.60	267.12	1.09				1007.43
255	7.31	8.35	4.57	21.60	158.50	2.71	443.69	34.40	254.90	5.27				941.31
260	5.99	6.10	3.53	19.59	148.62	2.42	409.34	32.22	240.68	26.95				895.45
265	4.68	4.44	2.76	17.72	138.90	2.13	378.04	30.06	225.70	95.22				899.65
270	3.38	3.19	2.15	15.89	130.08	1.84	348.21	27.92	210.88	155.12				898.67
275	2.22	2.26	1.66	14.09	122.67	1.56	319.65	25.81	197.55	181.69				869.17
280	1.52	1.55	1.27	12.31	116.04	1.28	291.84	23.80	185.97	188.43	0.00		0.00	824.02
285	1.05	1.08	0.87	10.52	109.79	1.01	264.75	22.11	175.61	183.82	0.00		0.00	770.70
290	0.71	0.83	0.76	8.74	103.76	0.74	238.13	20.76	165.80	176.07	0.12		0.00	716.42
295	0.46	0.64	0.61	6.96	97.86	0.51	214.07	19.60	156.46	167.26	1.52		0.15	666.10
300	0.28	0.51	0.49	5.19	92.08	0.37	195.77	18.54	147.06	158.90	5.06		0.91	625.15
305	0.15	0.40	0.39	3.52	86.45	0.27	180.51	17.58	137.36	148.03	19.53		7.28	601.47
310	0.08	0.30	0.30	2.38	80.93	0.19	166.95	16.68	127.58	135.58	57.84		28.05	616.84
315	0.05	0.21	0.23	1.65	75.43	0.14	154.64	15.83	117.82	121.89	74.77		40.59	603.24
320	0.03	0.14	0.16	1.13	69.96	0.10	143.30	15.04	108.15	107.92	76.01	0.00	45.51	567.44
325	0.03	0.08	0.11	0.75	64.50	0.07	132.67	14.28	98.74	94.82	72.74	0.00	46.60	525.38
330	0.02	0.04	0.06	0.48	59.20	0.05	122.76	13.53	90.24	82.64	67.63	0.02	45.48	482.15
335	0.01	0.01	0.03	0.28	54.67	0.04	113.46	12.80	83.64	72.85	61.97	0.22	43.59	443.56
340	0.01	0.00	0.01	0.15	51.14	0.03	104.32	12.06	78.10	65.38	57.02	1.54	41.62	411.38
345	0.01	0.00	0.00	0.09	48.15	0.02	95.30	11.34	73.13	59.03	52.41	16.40	39.75	395.63
350	0.00	0.00	0.00	0.06	45.48	0.02	86.29	10.61	68.59	53.39	44.81	69.12	36.71	415.07
355	0.00	0.00	0.00	0.05	43.03	0.01	77.30	9.89	64.38	48.21	38.40	110.38	33.70	425.35
360	0.00	0.00	0.00	0.04	40.77	0.01	68.31	9.18	60.43	42.84	32.62	127.34	30.30	411.84
365	0.00	0.00	0.00	0.03	38.65	0.01	59.34	8.47	56.75	37.50	27.74	130.37	27.00	385.85
370	0.00	0.00	0.00	0.02	36.67	0.00	50.37	7.76	53.28	32.48	23.58	126.46	23.86	354.49
375	0.00	0.00	0.00	0.01	34.78	0.00	41.42	7.06	49.89	27.68	19.85	120.13	20.87	321.70
380	0.00	0.00	0.00	0.01	32.93	0.00	32.47	6.36	46.56	23.05	16.39	113.35	18.26	289.39
385	0.00	0.00	0.00	0.00	31.10	0.00	23.60	5.66	43.26	18.52	13.18	107.64	16.33	259.29
390	0.00	0.00	0.00	0.00	29.26	0.00	15.51	4.95	39.97	14.11	10.26	99.21	14.74	228.02
395	0.00	0.00	0.00	0.00	27.43	0.00	10.58	4.25	36.71	10.10	7.80	89.77	13.34	199.98
400	0.00	0.00	0.00	0.00	25.61	0.00	7.32	3.55	33.47	7.22	6.32	79.39	12.06	174.94
405	0.00	0.00	0.00	0.00	23.78	0.00	4.94	2.86	30.25	5.29	4.83	69.04	10.77	151.77
410	0.00	0.00	0.00	0.00	21.96	0.00	3.22	2.17	27.04	3.89	3.61	59.45	9.54	130.89
415	0.00	0.00	0.00	0.00	20.15	0.00	1.97	1.55	23.87	2.82	2.68	51.37	8.39	112.80
420	0.00	0.00	0.00	0.00	18.33	0.00	1.08	1.11	20.71	2.03	1.97	45.33	7.31	97.86
425	0.00	0.00	0.00	0.00	16.52	0.00	0.54	0.82	17.57	1.44	1.43	40.35	6.25	84.92
430	0.00	0.00	0.00	0.00	14.71	0.00	0.34	0.61	14.43	1.02	1.03	35.94	5.22	73.32
435	0.00	0.00	0.00	0.00	12.90	0.00	0.22	0.45	11.34	0.77	0.78	31.94	4.20	62.60
440	0.00	0.00	0.00	0.00	11.10	0.00	0.18	0.33	8.39	0.60	0.59	28.22	3.19	52.59
445	0.00	0.00	0.00	0.00	9.29	0.00	0.14	0.24	5.97	0.47	0.46	24.54	2.25	43.36
450	0.00	0.00	0.00	0.00	7.48	0.00	0.10	0.17	4.41	0.37	0.36	21.02	1.56	35.47
455	0.00	0.00	0.00	0.00	5.67	0.00	0.07	0.13	3.31	0.28	0.27	17.66	1.11	28.52
460	0.00	0.00	0.00	0.00	3.95	0.00	0.05	0.10	2.48	0.21	0.19	14.38	0.80	22.16
465	0.00	0.00	0.00	0.00	2.67	0.00	0.03	0.08	1.84	0.14	0.13	11.17	0.56	16.62
470	0.00	0.00	0.00	0.00	1.85	0.00	0.01	0.06	1.35	0.09	0.08	8.07	0.39	11.90
475	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.05	0.98	0.05	0.04	5.47	0.26	8.13
480	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.03	0.72	0.02	0.01	3.84	0.17	5.67
485	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.02	0.57	0.				

time in minutes	NCB10	NCB1	Total to NCB10
0	0.00		0.00
5	0.00		0.00
10	0.01		0.01
15	0.08		0.08
20	0.37		0.37
25	2.22		2.22
30	9.10		9.10
35	12.67		12.67
40	14.11		14.11
45	14.58	0.00	14.58
50	14.35	0.00	14.35
55	13.91	0.00	13.91
60	13.48	0.04	13.52
65	13.04	0.49	13.52
70	12.05	11.44	23.48
75	11.19	82.55	93.74
80	10.22	222.29	232.51
85	9.30	383.79	393.09
90	8.43	525.02	533.45
95	7.59	626.70	634.29
100	6.79	684.85	691.63
105	6.03	708.05	714.08
110	5.40	702.31	707.72
115	4.92	675.30	680.22
120	4.51	646.01	650.52
125	4.10	610.53	614.63
130	3.71	568.06	571.77
135	3.36	522.32	525.68
140	3.02	481.12	484.15
145	2.71	443.69	446.40
150	2.42	409.34	411.76
155	2.13	378.04	380.17
160	1.84	348.21	350.05
165	1.56	319.65	321.21
170	1.28	291.84	293.13
175	1.01	264.75	265.75
180	0.74	238.13	238.87
185	0.51	214.07	214.58
190	0.37	195.77	196.13
195	0.27	180.51	180.78
200	0.19	166.95	167.14
205	0.14	154.64	154.78
210	0.10	143.30	143.39
215	0.07	132.67	132.73
220	0.05	122.76	122.81
225	0.04	113.46	113.49
230	0.03	104.32	104.34
235	0.02	95.30	95.32
240	0.02	86.29	86.31
245	0.01	77.30	77.31
250	0.01	68.31	68.32
255	0.01	59.34	59.34
260	0.00	50.37	50.37
265	0.00	41.42	41.42
270	0.00	32.47	32.47
275	0.00	23.60	23.60
280	0.00	15.51	15.51
285	0.00	10.58	10.58
290	0.00	7.32	7.32
295	0.00	4.94	4.94
300	0.00	3.22	3.22
305	0.00	1.97	1.97
310	0.00	1.08	1.08
315	0.00	0.54	0.54
320	0.00	0.34	0.34
325	0.00	0.22	0.22
330	0.00	0.18	0.18
335	0.00	0.14	0.14
340	0.00	0.10	0.10
345	0.00	0.07	0.07
350	0.00	0.05	0.05
355	0.00	0.03	0.03
360	0.00	0.01	0.01
365	0.00	0.00	0.00

max

714

time in minutes	NCE11	NCE9	Total to NCE1.1
0	0.00		0.00
5	0.00		0.00
10	0.00		0.00
15	0.03		0.03
20	0.29		0.29
25	5.91		5.91
30	36.98		36.98
35	74.01		74.01
40	94.99		94.99
45	104.83		104.83
50	107.73	0.00	107.73
55	105.18	0.00	105.18
60	101.89	0.00	101.90
65	98.85	0.03	98.88
70	93.46	0.24	93.71
75	86.24	3.87	90.11
80	79.38	25.54	104.92
85	72.57	67.02	139.59
90	66.07	112.42	178.49
95	60.04	149.88	209.91
100	54.26	174.89	229.14
105	48.68	189.83	238.51
110	43.27	198.37	241.64
115	38.25	202.37	240.62
120	34.45	201.40	235.86
125	31.36	195.31	226.67
130	28.59	186.90	215.49
135	26.08	177.87	203.95
140	23.77	168.33	192.09
145	21.60	158.50	180.11
150	19.59	148.62	168.21
155	17.72	138.90	156.62
160	15.89	130.08	145.97
165	14.09	122.67	136.77
170	12.31	116.04	128.35
175	10.52	109.79	120.31
180	8.74	103.76	112.50
185	6.96	97.86	104.82
190	5.19	92.08	97.27
195	3.52	86.45	89.98
200	2.38	80.93	83.31
205	1.65	75.43	77.08
210	1.13	69.96	71.09
215	0.75	64.50	65.26
220	0.48	59.20	59.68
225	0.28	54.67	54.95
230	0.15	51.14	51.29
235	0.09	48.15	48.24
240	0.06	45.48	45.54
245	0.05	43.03	43.08
250	0.04	40.77	40.81
255	0.03	38.65	38.68
260	0.02	36.67	36.69
265	0.01	34.78	34.80
270	0.01	32.93	32.94
275	0.00	31.10	31.10
280	0.00	29.26	29.26
285	0.00	27.43	27.43
290	0.00	25.61	25.61
295	0.00	23.78	23.78
300	0.00	21.96	21.96
305	0.00	20.15	20.15
310	0.00	18.33	18.33
315	0.00	16.52	16.52
320	0.00	14.71	14.71
325	0.00	12.90	12.90
330	0.00	11.10	11.10
335	0.00	9.29	9.29
340	0.00	7.48	7.48
345	0.00	5.67	5.67
350	0.00	3.95	3.95
355	0.00	2.67	2.67
360	0.00	1.85	1.85
365	0.00	1.28	1.28
370	0.00	0.87	0.87
375	0.00	0.56	0.56
380	0.00	0.34	0.34
385	0.00	0.20	0.20
390	0.00	0.12	0.12
395	0.00	0.08	0.08
400	0.00	0.06	0.06
405	0.00	0.05	0.05
410	0.00	0.04	0.04
415	0.00	0.03	0.03
420	0.00	0.02	0.02
425	0.00	0.01	0.01
430	0.00	0.01	0.01
435	0.00	0.00	0.00
440	0.00	0.00	0.00

max
242

time in minutes	NCB5	NCB4	NCB2	NCB3	Total to NCB5	rmax
0	0.00				0.00	237
5	0.00				0.00	
10	0.08				0.08	
15	1.09				1.09	
20	5.27				5.27	
25	26.95				26.95	
30	95.22				95.22	
35	155.12				155.12	
40	181.69				181.69	
45	188.43	0.00		0.00	188.43	
50	183.82	0.00		0.00	183.82	
55	176.07	0.12		0.01	176.20	
60	167.26	1.52		0.15	168.94	
65	158.90	5.06		0.91	164.87	
70	148.03	19.53		7.28	174.84	
75	135.58	57.84		28.05	221.46	
80	121.89	74.77		40.59	237.25	
85	107.92	76.01	0.00	45.51	229.44	
90	94.82	72.74	0.00	46.60	214.16	
95	82.64	67.63	0.02	45.48	195.77	
100	72.85	61.97	0.22	43.59	178.63	
105	65.38	57.02	1.54	41.62	165.56	
110	59.03	52.41	16.40	39.75	167.59	
115	53.39	44.81	69.12	36.71	204.01	
120	48.21	38.40	110.38	33.70	230.68	
125	42.84	32.62	127.34	30.30	233.11	
130	37.50	27.74	130.37	27.00	222.62	
135	32.48	23.58	126.46	23.86	206.39	
140	27.68	19.85	120.13	20.87	188.53	
145	23.05	16.39	113.35	18.26	171.06	
150	18.52	13.18	107.64	16.33	155.68	
155	14.11	10.26	99.21	14.74	138.31	
160	10.10	7.80	89.77	13.34	121.00	
165	7.22	6.32	79.39	12.06	104.99	
170	5.29	4.83	69.04	10.77	89.93	
175	3.89	3.61	59.45	9.54	76.49	
180	2.82	2.68	51.37	8.39	65.27	
185	2.03	1.97	45.33	7.31	56.63	
190	1.44	1.43	40.35	6.25	49.47	
195	1.02	1.03	35.94	5.22	43.21	
200	0.77	0.78	31.94	4.20	37.68	
205	0.60	0.59	28.22	3.19	32.60	
210	0.47	0.46	24.54	2.25	27.73	
215	0.37	0.36	21.02	1.56	23.31	
220	0.28	0.27	17.66	1.11	19.33	
225	0.21	0.19	14.38	0.80	15.58	
230	0.14	0.13	11.17	0.56	12.00	
235	0.09	0.08	8.07	0.39	8.63	
240	0.05	0.04	5.47	0.26	5.82	
245	0.02	0.01	3.84	0.17	4.04	
250	0.00	0.00	2.73	0.12	2.85	
255	0.00	0.00	1.90	0.09	1.99	
260	0.00	0.00	1.29	0.07	1.36	
265	0.00	0.00	0.85	0.06	0.90	
270	0.00	0.00	0.53	0.04	0.57	
275	0.00	0.00	0.34	0.03	0.37	
280	0.00	0.00	0.25	0.02	0.27	
285	0.00	0.00	0.18	0.01	0.20	
290	0.00	0.00	0.15	0.01	0.15	
295	0.00	0.00	0.11	0.00	0.12	
300	0.00	0.00	0.08	0.00	0.08	
305	0.00	0.00	0.06	0.00	0.06	
310	0.00	0.00	0.04	0.00	0.04	
315	0.00	0.00	0.02	0.00	0.02	
320	0.00	0.00	0.01	0.00	0.01	
325	0.00	0.00	0.00	0.00	0.00	
330	0.00	0.00	0.00	0.00	0.00	

time in minutes	NCB4	NCB2	Total to NCB4	max
0	0.00		0.00	160
5	0.00		0.00	
10	0.12		0.12	
15	1.52		1.52	
20	5.06		5.06	
25	19.53		19.53	
30	57.84		57.84	
35	74.77		74.77	
40	76.01	0.00	76.01	
45	72.74	0.00	72.74	
50	67.63	0.02	67.65	
55	61.97	0.22	62.19	
60	57.02	1.54	58.56	
65	52.41	16.40	68.81	
70	44.81	69.12	113.92	
75	38.40	110.38	148.78	
80	32.62	127.34	159.96	
85	27.74	130.37	158.12	
90	23.58	126.46	150.04	
95	19.85	120.13	139.98	
100	16.39	113.35	129.75	
105	13.18	107.64	120.83	
110	10.26	99.21	109.47	
115	7.80	89.77	97.57	
120	6.32	79.39	85.71	
125	4.83	69.04	73.87	
130	3.61	59.45	63.06	
135	2.68	51.37	54.06	
140	1.97	45.33	47.30	
145	1.43	40.35	41.77	
150	1.03	35.94	36.97	
155	0.78	31.94	32.72	
160	0.59	28.22	28.81	
165	0.46	24.54	25.00	
170	0.36	21.02	21.37	
175	0.27	17.66	17.93	
180	0.19	14.38	14.57	
185	0.13	11.17	11.30	
190	0.08	8.07	8.15	
195	0.04	5.47	5.51	
200	0.01	3.84	3.85	
205	0.00	2.73	2.73	
210	0.00	1.90	1.90	
215	0.00	1.29	1.29	
220	0.00	0.85	0.85	
225	0.00	0.53	0.53	
230	0.00	0.34	0.34	
235	0.00	0.25	0.25	
240	0.00	0.18	0.18	
245	0.00	0.15	0.15	
250	0.00	0.11	0.11	
255	0.00	0.08	0.08	
260	0.00	0.06	0.06	
265	0.00	0.04	0.04	
270	0.00	0.02	0.02	
275	0.00	0.01	0.01	
280	0.00	0.00	0.00	
285	0.00	0.00	0.00	

Flow in cfs	Time in minutes	NCD9	NCD5	NCD7	NCD6	NCD5	NCD4	NCD3	NCD2	NCD1	NCD0	NCD9	NCD8	NCD7	NCD5	NCD6	NCD8	Final to NCD9	Flow
0	0.00																		0.00
5	0.00																		0.00
10	0.00																		0.00
15	0.02																		0.02
20	0.25																		0.25
25	5.24																		5.24
30	35.56																		35.56
35	85.79																		85.79
40	129.32																		129.32
45	165.64																		165.64
50	189.78																		189.78
55	176.46	0.00	0.00					0.00		0.00									176.46
60	174.45	0.00	0.00					0.00		0.00									174.45
65	169.73	0.00	0.00					0.00		0.00									169.73
70	164.33	0.01	0.03					6.32		0.58									171.27
75	156.50	0.06	0.37					18.91		1.73									175.58
80	146.49	1.67	9.87					49.09		5.89									213.02
85	135.44	11.37	66.56					124.49		16.49									354.36
90	124.84	25.15	143.28					155.31	0.00	22.41									470.99
95	115.48	34.80	193.21					149.95	0.00	24.63									518.08
100	106.99	40.09	216.03					136.67	0.94	21.07	0.00								557.79
105	99.23	43.19	220.83	0.00	0.00	0.00	0.00	122.98	11.44	24.49	0.00								522.15
110	91.83	44.78	211.46	0.00	0.00	0.00	0.00	107.60	27.47	23.53	0.04								508.71
115	84.74	45.26	204.92	0.00	0.00	0.00	0.00	93.98	71.73	22.56	0.51								478.02
120	77.84	45.03	196.22	0.04	2.74	0.00	0.00	84.71	165.88	21.64	2.59								596.70
125	71.09	43.73	183.62	0.25	7.37	0.05	0.05	71.57	180.68	20.09	12.02								590.38
130	64.41	42.88	168.00	0.24	5.48	0.00	0.00	60.42	184.62	18.00	42.63								641.77
135	57.93	39.94	154.45	20.24	46.46	10.95	47.12	136.88	16.87	50.99									621.88
140	52.55	37.69	139.08	47.65	58.87	31.04	36.21	113.04	15.19	131.65									662.97
145	48.32	35.29	124.15	71.11	59.60	56.57	26.96	94.62	13.60	157.29									686.70
150	43.70	33.10	110.18	85.28	56.78	81.20	20.16	79.65	12.09	172.10									698.19
155	41.46	30.88	96.67	93.49	52.69	101.58	16.13	68.06	10.74	180.14									691.82
160	38.51	29.01	84.12	97.98	48.25	116.17	13.50	59.12	9.74	183.26	0.00	0.00							669.65
165	35.75	27.88	74.49	99.68	44.13	125.52	11.60	50.78	8.91	180.90	0.00	0.00	0.00						600.00
170	33.18	25.86	66.83	99.43	40.68	131.85	10.39	26.47	8.22	178.82	0.04	0.04							622.04
175	30.79	24.41	60.30	96.86	35.12	135.65	9.47	19.74	7.56	172.53	0.53	0.52							596.65
180	28.49	23.01	54.17	93.22	30.49	136.75	7.44	15.76	6.79	165.05	1.50	1.58							578.46
185	26.24	21.62	48.87	88.82	26.18	135.14	5.13	13.04	6.03	156.61	4.49	12.42							600.22
190	24.00	20.27	43.70	83.92	22.45	131.05	3.78	11.30	5.32	147.72	11.67	44.61							752.70
195	21.77	18.95	38.96	78.78	18.24	125.06	2.80	10.18	4.66	138.76	16.33	83.67							862.11
200	19.53	17.64	34.61	73.61	13.83	118.16	2.05	9.65	4.09	130.13	18.89	108.83							988.15
205	17.30	16.33	30.03	68.59	13.65	113.72	1.47	9.44	3.42	122.63	19.20	121.95							1007.04
210	15.08	15.03	25.76	64.36	11.20	108.44	1.06	9.39	2.82	116.14	19.17	128.41							858.38
215	12.85	13.75	21.52	60.08	9.08	102.27	0.76	6.38	2.26	110.16	18.64	123.71	0.00						439.60
220	10.63	12.47	17.28	57.26	7.49	98.17	0.48	4.19	1.69	104.52	18.15	127.61							416.47
225	8.42	11.82	13.06	54.02	6.52	93.13	0.27	2.72	1.23	98.88	17.67	124.87	0.01						394.41
230	6.21	11.02	9.87	50.87	5.35	88.19	0.05	1.67	0.87	92.07	16.64	130.82	0.12						275.66
235	4.15	10.47	6.03	47.74	3.95	83.51	0.03	1.05	0.71	87.20	15.59	114.82	0.91						337.30
240	2.82	9.89	4.13	44.66	3.02	79.53	0.00	0.57	0.54	81.41	14.48	107.67	13.30						302.51
245	1.95	9.35	2.82	41.65	2.28	76.02	0.00	0.24	0.41	75.68	13.43	100.07	40.73						266.36
250	1.31	8.85	1.86	38.66	1.73	72.74	0.00	0.05	0.31	69.99	12.89	93.08	179.63						444.44
255	0.88	8.37	1.17	35.70	1.30	69.62	0.00	0.00	0.24	64.37	11.43	86.89	253.56						201.40
260	0.55	7.93	0.68	32.74	1.00	66.61	0.00	0.00	0.18	59.03	10.49	81.21	291.18						178.48
265	0.31	7.49	0.39	29.76	0.76	63.66	0.00	0.00	0.13	53.95	9.56	305.23	0.00	0.00					144.53
270	0.16	7.05	0.19	27.64	0.60	60.83	0.00	0.00	0.12	50.89	8.74	70.88	301.36	0.00	0.00				144.53
275	0.10	6.61	0.12	25.83	0.46	58.07	0.00	0.00	0.09	47.78	7.98	65.98	290.57	0.01	0.00				130.34
280	0.07	6.18	0.09	24.36	0.34	55.33	0.00	0.00	0.07	44.97	7.41	61.59	300.42	0.12	0.00				117.23
285	0.05	5.74	0.07	22.85	0.24	52.60	0.00	0.00	0.05	42.39	6.80	56.29	265.95	0.02	0.14				103.62
290	0.04	5.31	0.05	21.55	0.15	49.89	0.00	0.00	0.04	40.00	6.22	51.25	246.25	13.76	1.89				89.74
295	0.03	4.88	0.04	20.34	0.09	47.17	0.00	0.00	0.04	37.76	5.67	46.40	226.54	37.78	12.28				76.79
300	0.02	4.44	0.03	19.20	0.06	44.46	0.00	0.00	0.03	35.65	5.17	42.47	206.98	43.62	34.06				63.78
305	0.01	4.01	0.02	18.15	0.01	41.75	0.00	0.00	0.01	33.63	4.70	38.96	187.80	348.49	62.79				51.56
310	0.01	3.58	0.01	17.13	0.00	39.04	0.00	0.00	0.00	31.66	4.26	36.09	169.84	441.25	91.76				39.70
315	0.00	3.14	0.00	16.13	0.00	36.37	0.00	0.00	0.00	29.72	3.85	33.52	152.86	492.84	117.21				28.80
320	0.00	2.71	0.00	15.13	0.00	33.99	0.00	0.00	0.00	27.79	3.46	31.17	136.49	513.96	137.06				20.80
325	0.00	2.28	0.00	14.14	0.00	32.17	0.00	0.00	0.00	25.87	3.08	28.98	120.81	510.86	150.67				15.40
330	0.00	1.85	0.00	13.14	0.00	30.66	0.00	0.00	0.00	24.02	2.70	26.93	106.79	494.21	159.99				11.44
335	0.00	1.42	0.00	12.15	0.00	29.31	0.00	0.00	0.00	22.07	2.33	25.02	96.31	476.34	166.23				8.43
340	0.00	1.00	0.00	11.16	0.00	28.09	0.00	0.00	0.00	20.19	1.97	23.19	87.60	452.16	169.50				6.14
345	0.00	0.66	0.00	10.18	0.00	26.95	0.00	0.00	0.00	18.31	1.61	21.41	79.70	421.24	169.82				4.41
350	0.00	0.45	0.00	9.19	0.00	25.89	0.00	0.00	0.00	16.45	1.26	19.65	72.44	386.86	167.43				3.23
355	0.00	0.31	0.00	8.21	0.00	24.90	0.00	0.00	0.00	14.61	0.95	17.91	65.71	356.35	162.62				2.44
360	0.00	0.21	0.00	7.23	0.00	23.96	0.00	0.00	0.00	12.76	0.71	16.17	59.41	327.76	155.92				1.91
365	0.00	0.13	0.00	6.25	0.00	23.04	0.00	0.00	0.00	10.92	0.55	14.44	53.54	301.15	148.72				1.42
370	0.00	0.08	0.00	5.27	0.00	22.13	0.00	0.00	0.00	9.08	0.43	12.73	48.06	276.65	142.42				1.19
375	0.00	0.04	0.00	4.29	0.00	21.22	0.00	0.00	0.00	7.25	0.34	11.02	42.69	253.19	136.53				0.91
380	0.00	0.02	0.00	3.31	0.00	20.31	0.00	0.00	0.00	5.46	0.27	9.32	37.45	230.01	128.80				0.66
385	0.00	0.01	0.00	2.37	0.00	19.41	0.00	0.00	0.00	3.86	0.21	7.64	32.15	208.72	125.18				0.46
390	0.00	0.01	0.00	1.59	0.00	18.50	0.00	0.00	0.00	2.82									

Time in minutes	NCB0	NCB3	NCB8	NCB7	NCB6	NCB5	NCB8	Total to NCB0	mix
0	0.00							0.00	871
5	0.00							0.00	
10	0.04							0.04	
15	0.51							0.51	
20	2.59							2.59	
25	12.02							12.02	
30	43.67							43.67	
35	90.99							90.99	
40	131.65							131.65	
45	157.29							157.29	
50	172.10							172.10	
55	180.14							180.14	
60	183.26	0.00						183.26	
65	182.90	0.00	0.00					182.90	
70	178.82	0.04	0.04					179.14	
75	172.53	0.53	0.52					176.75	
80	165.05	1.50	2.58					172.13	
85	156.61	4.49	12.42					173.52	
90	147.72	11.67	44.61					173.99	
95	138.76	16.33	83.67					174.76	
100	130.13	19.39	108.83					174.35	
105	122.63	19.20	121.95					173.78	
110	116.14	19.17	128.41					173.09	
115	110.16	18.64	129.73	0.00				172.53	
120	104.52	18.15	127.61	0.00				171.27	
125	98.88	17.67	124.87	0.01				170.43	
130	93.07	16.64	120.82	0.12				169.64	
135	87.20	15.59	114.82	0.91				168.52	
140	81.41	14.48	107.67	13.30				167.26	
145	75.68	13.41	100.07	80.73				165.89	
150	69.99	12.39	93.08	179.63				164.44	
155	64.37	11.43	86.89	253.56				162.85	
160	59.03	10.49	81.23	291.18				161.11	
165	54.50	9.59	75.95	305.23	0.00	0.00		160.37	
170	50.89	8.74	70.88	301.36	0.00	0.00		159.63	
175	47.78	7.98	65.98	290.57	0.01	0.00		158.76	
180	44.97	7.41	61.19	280.43	0.12	0.02		157.73	
185	42.39	6.80	56.29	265.95	0.92	0.14		156.52	
190	40.00	6.22	51.25	246.25	3.76	1.89		155.14	
195	37.75	5.67	46.40	226.54	87.78	12.28		153.67	
200	35.65	5.17	42.27	206.98	219.42	34.06		152.11	
205	33.63	4.70	38.96	187.80	348.49	62.79		150.46	
210	31.68	4.26	36.09	169.84	441.25	91.76		148.72	
215	29.72	3.85	33.52	152.86	492.84	117.21		146.89	
220	27.79	3.46	31.17	136.49	513.96	137.06		144.97	
225	25.87	3.08	28.98	120.81	510.86	150.67		142.97	
230	23.96	2.70	26.93	106.79	494.24	159.99		140.89	
235	22.07	2.33	25.02	96.11	476.34	166.23		138.72	
240	20.19	1.97	23.19	87.60	452.16	169.50		136.46	
245	18.31	1.61	21.41	79.70	421.24	169.82		134.11	
250	16.45	1.26	19.65	72.44	386.98	167.43		131.68	
255	14.61	0.95	17.91	65.71	356.35	162.62		129.17	
260	12.76	0.71	16.17	59.41	327.76	155.92		126.58	
265	10.92	0.55	14.44	53.54	301.15	148.72		123.86	
270	9.08	0.43	12.73	48.06	276.65	142.42		121.03	
275	7.25	0.34	11.02	42.69	253.19	136.53		118.09	
280	5.44	0.27	9.32	37.41	230.63	130.80		115.06	
285	3.86	0.21	7.64	32.15	208.72	125.18		111.92	
290	2.82	0.16	5.98	26.90	187.40	119.65		108.67	
295	2.11	0.13	4.41	21.67	167.32	114.17		105.31	
300	1.58	0.10	3.12	16.48	152.18	108.80		101.83	
305	1.17	0.08	2.29	11.49	139.58	103.64		98.24	
310	0.86	0.06	1.71	7.76	128.39	99.02		94.47	
315	0.62	0.05	1.27	5.40	118.24	94.99		90.53	
320	0.45	0.04	0.93	3.75	108.89	91.27		86.44	
325	0.35	0.02	0.68	2.55	100.16	87.74		82.11	
330	0.27	0.02	0.48	1.68	92.01	84.34		77.67	
335	0.22	0.01	0.35	1.04	84.42	81.04		73.13	
340	0.17	0.00	0.28	0.60	76.98	77.84		68.49	
345	0.13	0.00	0.22	0.38	69.68	74.72		63.75	
350	0.09	0.00	0.17	0.26	62.39	71.66		58.91	
355	0.06	0.00	0.13	0.20	55.11	68.62		53.97	
360	0.04	0.00	0.10	0.16	47.85	65.60		48.94	
365	0.02	0.00	0.07	0.12	40.60	62.58		43.81	
370	0.01	0.00	0.05	0.09	33.38	59.56		38.59	
375	0.00	0.00	0.03	0.06	26.15	56.54		33.27	
380	0.00	0.00	0.01	0.04	19.02	53.53		27.85	
385	0.00	0.00	0.00	0.02	12.64	50.52		22.34	
390	0.00	0.00	0.00	0.01	6.72	47.51		16.73	
395	0.00	0.00	0.00	0.00	0.32	44.54		11.03	
400	0.00	0.00	0.00	0.00	4.20	41.82		5.23	
405	0.00	0.00	0.00	0.00	2.80	39.76		0.33	
410	0.00	0.00	0.00	0.00	1.78	38.05		0.00	
415	0.00	0.00	0.00	0.00	1.05	36.53		0.00	
420	0.00	0.00	0.00	0.00	0.59	35.14		0.00	
425	0.00	0.00	0.00	0.00	0.41	33.86		0.00	
430	0.00	0.00	0.00	0.00	0.29	32.66		0.00	
435	0.00	0.00	0.00	0.00	0.23	31.54		0.00	
440	0.00	0.00	0.00	0.00	0.18	30.49		0.00	
445	0.00	0.00	0.00	0.00	0.13	29.45		0.00	
450	0.00	0.00	0.00	0.00	0.10	28.44		0.00	
455	0.00	0.00	0.00	0.00	0.06	27.42		0.00	
460	0.00	0.00	0.00	0.00	0.04	26.40		0.00	
465	0.00	0.00	0.00	0.00	0.02	25.39		0.00	
470	0.00	0.00	0.00	0.00	0.01	24.38		0.00	
475	0.00	0.00	0.00	0.00	0.00	23.37		0.00	
480	0.00	0.00	0.00	0.00	0.00	22.36		0.00	
485	0.00	0.00	0.00	0.00	0.00	21.36		0.00	
490	0.00	0.00	0.00	0.00	0.00	20.36		0.00	
495	0.00	0.00	0.00	0.00	0.00	19.36		0.00	
500	0.00	0.00	0.00	0.00	0.00	18.35		0.00	
505	0.00	0.00	0.00	0.00	0.00	17.35		0.00	
510	0.00	0.00	0.00	0.00	0.00	16.35		0.00	
515	0.00	0.00	0.00	0.00	0.00	15.35		0.00	
520	0.00	0.00	0.00	0.00	0.00	14.35		0.00	
525	0.00	0.00	0.00	0.00	0.00	13.35		0.00	
530	0.00	0.00	0.00	0.00	0.00	12.34		0.00	
535	0.00	0.00	0.00	0.00	0.00	11.34		0.00	
540	0.00	0.00	0.00	0.00	0.00	10.34		0.00	
545	0.00	0.00	0.00	0.00	0.00	9.34		0.00	
550	0.00	0.00	0.00	0.00	0.00	8.34		0.00	
555	0.00	0.00	0.00	0.00	0.00	7.34		0.00	
560	0.00	0.00	0.00	0.00	0.00	6.34		0.00	
565	0.00	0.00	0.00	0.00	0.00	5.33		0.00	
570	0.00	0.00	0.00	0.00	0.00	4.33		0.00	
575	0.00	0.00	0.00	0.00	0.00	3.33		0.00	
580	0.00	0.00	0.00	0.00	0.00	2.37		0.00	
585	0.00	0.00	0.00	0.00	0.00	1.59		0.00	
590	0.00	0.00	0.00	0.00	0.00	1.11		0.00	
595	0.00	0.00	0.00	0.00	0.00	0.77		0.00	
600	0.00	0.00	0.00	0.00	0.00	0.53		0.00	
605	0.00	0.00	0.00	0.00	0.00	0.35		0.00	
610	0.00	0.00	0.00	0.00	0.00	0.22		0.00	
615	0.00	0.00	0.00	0.00	0.00	0.13		0.00	
620	0.00	0.00	0.00	0.00	0.00	0.08		0.00	
625	0.00	0.00	0.00	0.00	0.00	0.05		0.00	
630	0.00	0.00	0.00	0.00	0.00	0.04		0.00	
635	0.00	0.00	0.00	0.00	0.00	0.03		0.00	
640	0.00	0.00	0.00	0.00	0.00	0.02		0.00	
645	0.00	0.00	0.00	0.00	0.00	0.02		0.00	
650	0.00	0.00	0.00	0.00	0.00	0.01		0.00	
655	0.00	0.00	0.00	0.00	0.00	0.01		0.00	
660	0.00	0.00	0.00	0.00	0.00	0.00		0.00	
665	0.00	0.00	0.00	0.00	0.00	0.00		0.00	
670	0.00	0.00	0.00	0.00	0.00	0.00		0.00	

time in minutes	NCEB8	NCEB7	NCEB6	NCEB5	total to NCEB8	rank
0	0.00				0.00	819
5	0.00				0.00	
10	0.04				0.04	
15	0.52				0.52	
20	2.58				2.58	
25	12.42				12.42	
30	44.61				44.61	
35	83.67				83.67	
40	108.83				108.83	
45	121.95				121.95	
50	128.41				128.41	
55	129.73	0.00			129.73	
60	127.61	0.00			127.61	
65	124.87	0.01			124.88	
70	120.82	0.12			120.94	
75	114.82	0.91			115.72	
80	107.67	13.30			120.98	
85	100.07	80.73			180.80	
90	93.08	179.63			272.72	
95	86.89	253.56			340.44	
100	81.23	291.18			372.41	
105	75.95	305.23	0.00	0.00	381.18	
110	70.88	301.36	0.00	0.00	372.24	
115	65.98	290.57	0.01	0.00	356.56	
120	61.19	280.43	0.12	0.02	341.76	
125	56.29	265.95	0.92	0.14	323.30	
130	51.25	246.25	13.76	1.89	313.15	
135	46.40	226.54	87.78	12.28	373.00	
140	42.27	206.98	219.42	34.08	502.73	
145	38.96	187.80	348.49	62.79	638.04	
150	36.09	169.84	441.25	91.76	738.95	
155	33.52	152.86	492.84	117.21	796.43	
160	31.17	136.49	513.96	137.06	818.68	
165	28.98	120.81	510.86	150.67	811.31	
170	26.93	106.79	494.24	159.99	787.95	
175	25.02	96.31	476.34	166.23	763.89	
180	23.19	87.60	452.16	169.50	732.46	
185	21.41	79.70	421.24	169.82	692.18	
190	19.65	72.44	386.98	167.43	646.50	
195	17.91	65.71	356.35	162.62	602.59	
200	16.17	59.41	327.76	155.92	559.26	
205	14.44	53.54	301.15	148.72	517.85	
210	12.73	48.06	276.65	142.42	479.86	
215	11.02	42.69	253.19	136.53	443.43	
220	9.32	37.41	230.63	130.80	408.16	
225	7.64	32.15	208.72	125.18	373.69	
230	5.98	26.90	187.40	119.65	339.94	
235	4.41	21.67	167.32	114.17	307.56	
240	3.12	16.46	152.16	108.80	280.54	
245	2.29	11.49	139.58	103.64	257.01	
250	1.71	7.76	128.39	99.02	236.88	
255	1.27	5.40	118.24	94.99	219.90	
260	0.93	3.75	108.89	91.27	204.85	
265	0.68	2.55	100.16	87.74	191.13	
270	0.48	1.68	92.01	84.34	178.51	
275	0.35	1.04	84.42	81.04	166.86	
280	0.28	0.60	76.98	77.84	155.70	
285	0.22	0.38	69.68	74.72	144.99	
290	0.17	0.26	62.39	71.66	134.48	
295	0.13	0.20	55.11	68.62	124.06	
300	0.10	0.16	47.85	65.60	113.70	
305	0.07	0.12	40.60	62.58	103.37	
310	0.05	0.09	33.36	59.56	93.06	
315	0.03	0.06	26.15	56.54	82.78	
320	0.01	0.04	19.02	53.53	72.60	
325	0.00	0.02	12.64	50.52	63.18	
330	0.00	0.01	8.72	47.51	56.24	
335	0.00	0.00	6.12	44.54	50.66	
340	0.00	0.00	4.20	41.82	46.03	
345	0.00	0.00	2.80	39.76	42.57	
350	0.00	0.00	1.78	38.05	39.83	
355	0.00	0.00	1.05	36.53	37.57	
360	0.00	0.00	0.59	35.14	35.74	
365	0.00	0.00	0.41	33.86	34.27	
370	0.00	0.00	0.29	32.66	32.95	
375	0.00	0.00	0.23	31.54	31.77	
380	0.00	0.00	0.18	30.49	30.67	
385	0.00	0.00	0.13	29.45	29.59	
390	0.00	0.00	0.10	28.44	28.53	
395	0.00	0.00	0.06	27.42	27.48	
400	0.00	0.00	0.04	26.40	26.44	
405	0.00	0.00	0.02	25.39	25.41	
410	0.00	0.00	0.01	24.38	24.39	
415	0.00	0.00	0.00	23.37	23.37	
420	0.00	0.00	0.00	22.36	22.36	
425	0.00	0.00	0.00	21.36	21.36	
430	0.00	0.00	0.00	20.36	20.36	
435	0.00	0.00	0.00	19.36	19.36	
440	0.00	0.00	0.00	18.35	18.35	
445	0.00	0.00	0.00	17.35	17.35	
450	0.00	0.00	0.00	16.35	16.35	
455	0.00	0.00	0.00	15.35	15.35	
460	0.00	0.00	0.00	14.35	14.35	
465	0.00	0.00	0.00	13.35	13.35	
470	0.00	0.00	0.00	12.34	12.34	
475	0.00	0.00	0.00	11.34	11.34	
480	0.00	0.00	0.00	10.34	10.34	
485	0.00	0.00	0.00	9.34	9.34	
490	0.00	0.00	0.00	8.34	8.34	
495	0.00	0.00	0.00	7.34	7.34	
500	0.00	0.00	0.00	6.34	6.34	
505	0.00	0.00	0.00	5.33	5.33	
510	0.00	0.00	0.00	4.33	4.33	
515		0.00	0.00	3.33	3.33	
520		0.00	0.00	2.37	2.37	
525		0.00	0.00	1.59	1.59	
530		0.00	0.00	1.11	1.11	
535		0.00	0.00	0.77	0.77	
540		0.00	0.00	0.53	0.53	
545		0.00	0.00	0.35	0.35	
550		0.00	0.00	0.22	0.22	
555		0.00	0.00	0.13	0.13	
560		0.00	0.00	0.08	0.08	
565		0.00	0.00	0.05	0.05	
570		0.00	0.00	0.04	0.04	
575		0.00	0.00	0.03	0.03	
580		0.00	0.00	0.02	0.02	
585		0.00	0.00	0.02	0.02	
590		0.00	0.00	0.01	0.01	
595		0.00	0.00	0.01	0.01	
600		0.00	0.00	0.00	0.00	
605		0.00	0.00	0.00	0.00	
610		0.00	0.00	0.00	0.00	

time in minutes	NCB17	NCB16	NCB15	Total to NCB17	max
0	0.00			0.00	788
5	0.00			0.00	
10	0.01			0.01	
15	0.12			0.12	
20	0.91			0.91	
25	13.30			13.30	
30	80.73			80.73	
35	179.63			179.63	
40	253.56			253.56	
45	291.18			291.18	
50	305.23	0.00	0.00	305.23	
55	301.36	0.00	0.00	301.36	
60	290.57	0.01	0.00	290.58	
65	280.43	0.12	0.02	280.57	
70	265.95	0.92	0.14	267.01	
75	246.25	13.76	1.89	261.90	
80	226.54	87.78	12.28	326.60	
85	206.98	219.42	34.06	460.46	
90	187.80	348.49	62.79	599.08	
95	169.84	441.25	91.76	702.85	
100	152.86	492.84	117.21	762.91	
105	136.49	513.96	137.06	787.51	
110	120.81	510.86	150.67	782.33	
115	106.79	494.24	159.99	761.02	
120	96.31	476.34	166.23	738.88	
125	87.60	452.16	169.50	709.26	
130	79.70	421.24	169.82	670.77	
135	72.44	386.98	167.43	626.85	
140	65.71	356.35	162.62	584.68	
145	59.41	327.76	155.92	543.09	
150	53.54	301.15	148.72	503.41	
155	48.06	276.65	142.42	467.13	
160	42.69	253.19	136.53	432.41	
165	37.41	230.63	130.80	398.84	
170	32.15	208.72	125.18	366.05	
175	26.90	187.40	119.65	333.95	
180	21.67	167.32	114.17	303.15	
185	16.46	152.16	108.80	277.42	
190	11.49	139.58	103.64	254.72	
195	7.76	128.39	99.02	235.17	
200	5.40	118.24	94.99	218.63	
205	3.75	108.89	91.27	203.92	
210	2.55	100.16	87.74	190.45	
215	1.68	92.01	84.34	178.02	
220	1.04	84.42	81.04	166.50	
225	0.60	76.98	77.84	155.42	
230	0.38	69.68	74.72	144.77	
235	0.26	62.39	71.66	134.31	
240	0.20	55.11	68.62	123.93	
245	0.16	47.85	65.60	113.60	
250	0.12	40.60	62.58	103.30	
255	0.09	33.36	59.56	93.01	
260	0.06	26.15	56.54	82.75	
265	0.04	19.02	53.53	72.59	
270	0.02	12.64	50.52	63.18	
275	0.01	8.72	47.51	56.24	
280	0.00	6.12	44.54	50.66	
285	0.00	4.20	41.82	46.03	
290	0.00	2.80	39.76	42.57	
295	0.00	1.78	38.05	39.83	
300	0.00	1.05	36.53	37.57	
305	0.00	0.59	35.14	35.74	
310	0.00	0.41	33.86	34.27	
315	0.00	0.29	32.66	32.95	
320	0.00	0.23	31.54	31.77	
325	0.00	0.18	30.49	30.67	
330	0.00	0.13	29.45	29.59	
335	0.00	0.10	28.44	28.53	
340	0.00	0.06	27.42	27.48	
345	0.00	0.04	26.40	26.44	
350	0.00	0.02	25.39	25.41	
355	0.00	0.01	24.38	24.39	
360	0.00	0.00	23.37	23.37	
365	0.00	0.00	22.36	22.36	
370	0.00	0.00	21.36	21.36	
375	0.00	0.00	20.36	20.36	
380	0.00	0.00	19.36	19.36	
385	0.00	0.00	18.35	18.35	
390	0.00	0.00	17.35	17.35	
395	0.00	0.00	16.35	16.35	
400	0.00	0.00	15.35	15.35	
405	0.00	0.00	14.35	14.35	
410	0.00	0.00	13.35	13.35	
415	0.00	0.00	12.34	12.34	
420	0.00	0.00	11.34	11.34	
425	0.00	0.00	10.34	10.34	
430	0.00	0.00	9.34	9.34	
435	0.00	0.00	8.34	8.34	
440	0.00	0.00	7.34	7.34	
445	0.00	0.00	6.34	6.34	
450	0.00	0.00	5.33	5.33	
455	0.00	0.00	4.33	4.33	
460	0.00	0.00	3.33	3.33	
465	0.00	0.00	2.37	2.37	
470	0.00	0.00	1.59	1.59	
475	0.00	0.00	1.11	1.11	
480	0.00	0.00	0.77	0.77	
485	0.00	0.00	0.53	0.53	
490	0.00	0.00	0.35	0.35	
495	0.00	0.00	0.22	0.22	
500	0.00	0.00	0.13	0.13	
505	0.00	0.00	0.08	0.08	
510	0.00	0.00	0.05	0.05	
515	0.00	0.00	0.04	0.04	
520	0.00	0.00	0.03	0.03	
525	0.00	0.00	0.02	0.02	
530	0.00	0.00	0.02	0.02	
535	0.00	0.00	0.01	0.01	
540	0.00	0.00	0.01	0.01	
545	0.00	0.00	0.00	0.00	

Time in minutes	NCB27	NCB28	NCB25	NCB24	Total to NCB27	max
0	0.00				0.00	347
5	0.00				0.00	
10	0.00				0.00	
15	0.03				0.03	
20	0.37				0.37	
25	9.87				9.87	
30	66.56				66.56	
35	143.28				143.28	
40	193.21				193.21	
45	216.03				216.03	
50	220.83	0.00	0.00	0.00	220.83	
55	213.46	0.00	0.00	0.00	213.46	
60	204.92	0.00	0.22	0.00	205.14	
65	196.22	0.04	2.74	0.00	199.00	
70	183.62	0.25	7.27	0.05	191.19	
75	169.36	3.34	19.45	1.43	193.59	
80	154.49	20.24	46.46	10.95	232.15	
85	139.08	47.65	58.87	31.04	276.64	
90	124.15	71.11	59.60	56.67	311.52	
95	110.18	85.28	56.78	81.20	333.44	
100	96.67	93.49	52.69	101.58	344.43	
105	84.12	97.96	48.25	116.17	346.51	
110	74.45	99.68	44.31	125.52	343.97	
115	66.83	99.43	40.68	131.85	338.79	
120	60.30	96.86	35.12	135.65	327.92	
125	54.37	93.22	30.49	136.75	314.83	
130	48.87	88.82	26.18	135.14	299.01	
135	43.70	83.92	22.45	131.05	281.11	
140	38.86	78.78	19.24	125.06	261.94	
145	34.37	73.61	16.33	119.16	243.46	
150	30.03	68.59	13.65	113.72	225.99	
155	25.76	64.36	11.20	108.44	209.77	
160	21.52	60.68	9.08	103.27	194.55	
165	17.28	57.26	7.49	98.17	180.20	
170	13.06	54.02	6.52	93.13	166.73	
175	9.02	50.87	5.15	88.19	153.23	
180	6.03	47.74	3.95	83.51	141.22	
185	4.13	44.66	3.02	79.53	131.33	
190	2.82	41.65	2.28	76.02	122.77	
195	1.86	38.66	1.73	72.74	114.99	
200	1.17	35.70	1.30	69.62	107.79	
205	0.68	32.74	1.00	66.61	101.02	
210	0.35	29.91	0.76	63.68	94.70	
215	0.19	27.64	0.60	60.83	89.26	
220	0.12	25.83	0.46	58.07	84.48	
225	0.09	24.26	0.34	55.33	80.01	
230	0.07	22.85	0.24	52.60	75.75	
235	0.05	21.55	0.15	49.89	71.64	
240	0.04	20.34	0.09	47.17	67.64	
245	0.03	19.20	0.04	44.46	63.73	
250	0.02	18.15	0.01	41.75	59.93	
255	0.01	17.13	0.00	39.04	56.18	
260	0.00	16.13	0.00	36.37	52.50	
265	0.00	15.13	0.00	33.99	49.12	
270	0.00	14.14	0.00	32.17	46.31	
275	0.00	13.14	0.00	30.66	43.80	
280	0.00	12.15	0.00	29.31	41.46	
285	0.00	11.16	0.00	28.09	39.25	
290	0.00	10.18	0.00	26.95	37.13	
295	0.00	9.19	0.00	25.89	35.08	
300	0.00	8.21	0.00	24.90	33.11	
305	0.00	7.23	0.00	23.96	31.19	
310	0.00	6.25	0.00	23.04	29.29	
315	0.00	5.27	0.00	22.13	27.40	
320	0.00	4.29	0.00	21.22	25.51	
325	0.00	3.31	0.00	20.31	23.63	
330	0.00	2.37	0.00	19.41	21.77	
335	0.00	1.59	0.00	18.50	20.09	
340	0.00	1.11	0.00	17.60	18.70	
345	0.00	0.78	0.00	16.69	17.47	
350	0.00	0.53	0.00	15.79	16.32	
355	0.00	0.36	0.00	14.88	15.24	
360	0.00	0.23	0.00	13.98	14.21	
365	0.00	0.13	0.00	13.08	13.21	
370	0.00	0.08	0.00	12.17	12.26	
375	0.00	0.06	0.00	11.27	11.33	
380	0.00	0.04	0.00	10.37	10.41	
385	0.00	0.03	0.00	9.47	9.50	
390	0.00	0.03	0.00	8.56	8.59	
395	0.00	0.02	0.00	7.66	7.68	
400	0.00	0.01	0.00	6.76	6.77	
405	0.00	0.01	0.00	5.86	5.86	
410	0.00	0.01	0.00	4.95	4.96	
415	0.00	0.00	0.00	4.05	4.05	
420	0.00	0.00	0.00	3.15	3.15	
425	0.00	0.00	0.00	2.26	2.26	
430	0.00	0.00	0.00	1.48	1.48	
435	0.00	0.00	0.00	1.01	1.01	
440	0.00	0.00	0.00	0.69	0.69	
445	0.00	0.00	0.00	0.46	0.46	
450	0.00	0.00	0.00	0.30	0.30	
455	0.00	0.00	0.00	0.18	0.18	
460	0.00	0.00	0.00	0.09	0.09	
465	0.00	0.00	0.00	0.04	0.04	
470	0.00	0.00	0.00	0.03	0.03	
475	0.00	0.00	0.00	0.02	0.02	
480	0.00	0.00	0.00	0.01	0.01	
485	0.00	0.00	0.00	0.01	0.01	
490	0.00	0.00	0.00	0.01	0.01	
495	0.00	0.00	0.00	0.01	0.01	
500	0.00	0.00	0.00	0.00	0.00	
505	0.00	0.00	0.00	0.00	0.00	

NCB SWMM INPUT

NCB Ponding Areas

[TITLE]

;;Project Title/Notes

[OPTIONS]

```

;;Option      value
FLOW_UNITS    CFS
INFILTRATION  HORTON
FLOW_ROUTING  DYNWAVE
LINK_OFFSETS  DEPTH
MIN_SLOPE     0
ALLOW_PONDING YES
SKIP_STEADY_STATE NO

START_DATE    05/10/2018
START_TIME    00:00:00
REPORT_START_DATE 05/10/2018
REPORT_START_TIME 00:00:00
END_DATE      05/12/2018
END_TIME      06:00:00
SWEEP_START   01/01
SWEEP_END     12/31
DRY_DAYS      0
REPORT_STEP   00:00:05
WET_STEP      00:00:05
DRY_STEP      00:00:05
ROUTING_STEP  0:00:05
    
```

```

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP     0.75
LENGTHENING_STEP  0
MIN_SURFAREA      12.557
MAX_TRIALS         8
HEAD_TOLERANCE    0.005
SYS_FLOW_TOL      5
LAT_FLOW_TOL      5
MINIMUM_STEP      0.5
THREADS           1
    
```

[EVAPORATION]

```

;;Data Source Parameters
;;-----
CONSTANT      0.0
DRY_ONLY      NO
    
```

[JUNCTIONS]

```

;;Name      Elevation  MaxDepth  InitDepth  SurDepth  Aponded
;;-----
NCB9        4996.76   1.5       0          0         0
    
```

[OUTFALLS]

```

;;Name      Elevation  Type      Stage Data      Gated  Route To
;;-----
NCB2_0      72.45     FREE
NCB3_0      83.10     FREE
NCB6_0      75.19     FREE
NCB8_0      5053.04   FREE
NCB11_0     4888.65   FREE
NCB12_0     46.06     FREE
NCB13_0     34.57     FREE
NCB14_NCB29_0 4916.3    FREE
NCB7_0      4968.52   FREE
    
```

NCB Ponding Areas

NCB16_0	61.8	FREE	NO
NCB1_0	5006.33	FREE	NO
NCB1_OS	0	FREE	NO
NCB9_0	4995.64	FREE	NO
NCB18_0	4994.94	FREE	NO
NCB18_02	4994.87	FREE	NO
NCB15_0	63.18	FREE	NO
NCB17_0	19.6	FREE	NO
NCB20_0	4988.45	FREE	NO
NCB16_02	61.06	FREE	NO
NCB21_RR_0	4973.58	FREE	NO
NCB24_250	4999.36	FREE	NO
NCB26_0	5003.45	FREE	NO
NCB27_0	80.43	FREE	NO

[STORAGE]

;;Name N/A	Fevap	Elev. Psi	MaxDepth Ksat	InitDepth IMD	Shape	Curve Name/Params
NCB2 0	0	72.7	7.3	0	TABULAR	NCB2
NCB3 0	0	83.79	5.21	0	TABULAR	NCB3
NCB4 0	0	50	10	0	TABULAR	NCB4
NCB5 0	0	17	3	0	TABULAR	NCB5
NCB6 0	0	76.81	10.19	0	TABULAR	NCB6
NCB8 0	0	5059	8	0	TABULAR	NCB8
NCB11 0	0	4889	4	0	TABULAR	NCB11
NCB12 0	0	46.25	5	0	TABULAR	NCB12
NCB13 0	0	35.69	16	0	TABULAR	NCB13
NCB14_NCB29 0	0	4917.96	20	0	TABULAR	NCB14_29
NCB7 0	0	4970.9	10	0	TABULAR	NCB7
NCB1 0	0	5007.01	3.33	0	FUNCTIONAL	1000 0 0
NCB18 0	0	4995.40	3.6	0	TABULAR	NCB18
NCB15 0	0	63.40	2	0	TABULAR	NCB15
NCB17 0	0	20.08	3.5	0	TABULAR	NCB17
NCB20 0	0	4988.72	6	0	TABULAR	NCB20
NCB16 0	0	61.58	2.42	0	TABULAR	NCB16
NCB21_RR 0	0	4974.27	5.73	0	TABULAR	NCB21
NCB26 0	0	5004	1.5	0	TABULAR	NCB26
NCB24_25 0	0	5007	3	0	TABULAR	NCB24_25
NCB27_PondingArea 0	0	88	4	0	TABULAR	NCB27_Ponding
NCB27_2		80.83	8	0	TABULAR	NCB27_02

NCB Ponding Areas

0 0

[CONDUITS]

```
;;Name      From Node      To Node      Length      Roughness      InOffset
OutOffset  InitFlow      MaxFlow
;;-----
```

OutOffset	InitFlow	From Node MaxFlow	To Node	Length	Roughness	InOffset
NCB2 0	0	NCB2 0	NCB2_O	95	0.013	0
NCB3 0	0	NCB3 0	NCB3_O	95	0.013	0
NCB6 0	0	NCB6 0	NCB6_O	115	0.023	0
NCB8 0	0	NCB8 0	NCB8_O	103	0.013	2.71
NCB11 0	0	NCB11 0	NCB11_O	35	0.023	0
NCB12 0	0	NCB12 0	NCB12_O	30	0.013	0
NCB13 0	0	NCB13 0	NCB13_O	70	0.013	0
NCB14_NCB29_1 0	0	NCB14_NCB29 0	NCB14_NCB29_O	280	0.013	0
NCB7 0	0	NCB7 0	NCB7_O	100	0.013	0
NCB16 0	0	NCB16 0	NCB16_O	67	0.023	0.51
NCB1 0	0	NCB1 0	NCB1_O	40	0.024	0
NCB9 0	0	NCB9 0	NCB9_O	40	0.023	0
NCB18_1L 0	0	NCB18 0	NCB18_O	32	0.013	0
NCB18_1R 0	0	NCB18 0	NCB18_O2	32	0.013	0.04
NCB15 0	0	NCB15 0	NCB15_o	35	0.023	0
NCB17 0	0	NCB17 0	NCB17_O	45	0.013	0
NCB20 0	0	NCB20 0	NCB20_O	55	0.013	0
NCB16_2 0	0	NCB16 0	NCB16_O2	70	0.023	0
NCB21_RR 0	0	NCB21_RR 0	NCB21_RR_O	23	0.012	0
NCB24_25 0	0	NCB24_25 0	NCB24_25O	385	0.013	0
NCB26 0	0	NCB26 0	NCB26_o	110	0.023	0
NCB27_2 0	0	NCB27_2 0	NCB27_O	72	0.013	0

[WEIRS]

```
;;Name      From Node      To Node      Type      CrestHt      Qcoeff
Gated      EndCon      EndCoeff      Surcharge  RoadWidth    RoadSurf
;;-----
```

Gated	EndCon	From Node EndCoeff	To Node Surcharge	RoadWidth	Type RoadSurf	CrestHt	Qcoeff
NCB1_weir NO	0	NCB1 0	NCB1_OS YES		TRAPEZOIDAL	1.5	3.33
NCB27_PA_OVER NO	0	NCB27_PondingArea 0	NCB27_2 YES		TRANSVERSE	3.5	3.33

[XSECTIONS]

;;Link Barrels ;;	Culvert	Shape	NCB Ponding Areas				
			Geom1	Geom2	Geom3	Geom4	
NCB2		CIRCULAR	2	0	0	0	1
NCB3		CIRCULAR	2	0	0	0	1
NCB6		ARCH	5.92	8.58	0	0	1
NCB8		CIRCULAR	1.67	0	0	0	1
NCB11		CIRCULAR	1.83	0	0	0	1
NCB12		CIRCULAR	2.75	0	0	0	1
NCB13		RECT_CLOSED	6	9	0	0	2
NCB14_NCB29_1		RECT_CLOSED	6	10	0	0	2
NCB7		CIRCULAR	4.5	0	0	0	2
NCB16		HORIZ_ELLIPSE	1.25	1.75	0	0	1
NCB1		HORIZ_ELLIPSE	3.33	5	0	0	1
NCB9		CIRCULAR	1.5	0	0	0	1
NCB18_1L		CIRCULAR	3	0	0	0	1
NCB18_1R		CIRCULAR	3	0	0	0	1
NCB15		CIRCULAR	2	0	0	0	1
NCB17		HORIZ_ELLIPSE	1.83	2.83	0	0	2
NCB20		RECT_CLOSED	6	8	0	0	3
NCB16_2		HORIZ_ELLIPSE	1.25	1.75	0	0	1
NCB21_RR		CIRCULAR	1.83	0	0	0	1
NCB24_25		CIRCULAR	3	0	0	0	1
NCB26		CIRCULAR	1.5	0	0	0	1
NCB27_2		CIRCULAR	3	0	0	0	2
NCB1_Weir		TRAPEZOIDAL	1.83	50	0	0	
NCB27_PA_OVER		RECT_OPEN	5	475	2	2	

[INFLOWS]						
;;Node Baseline ;;	Pattern	Constituent	Time Series	Type	Mfactor	Sfactor
NCB9		FLOW	NCB9	FLOW	1.0	1.0
NCB2		FLOW	NCB2	FLOW	1.0	1.0
NCB3		FLOW	NCB3	FLOW	1.0	1.0
NCB4		FLOW	NCB4	FLOW	1.0	1.0

NCB Ponding Areas

NCB5	FLOW	NCB5	FLOW	1.0	1.0
NCB6	FLOW	NCB6	FLOW	1.0	1
NCB8	FLOW	NCB8	FLOW	1.0	1.0
NCB11	FLOW	NCB11	FLOW	1.0	1.0
NCB12	FLOW	NCB12	FLOW	1.0	1.0
NCB13	FLOW	NCB13	FLOW	1.0	1.0
NCB14_NCB29	FLOW	NCB14_NCB29	FLOW	1.0	1.0
NCB7	FLOW	NCB7	FLOW	1.0	1.0
NCB1	FLOW	NCB1	FLOW	1.0	1.0
NCB18	FLOW	NCB18	FLOW	1.0	1.0
NCB15	FLOW	NCB15	FLOW	1.0	1.0
NCB17	FLOW	NCB17	FLOW	1.0	1.0
NCB20	FLOW	NCB20	FLOW	1.0	1.0
NCB16	FLOW	NCB16	FLOW	1.0	1.0
NCB21_RR	FLOW	NCB21	FLOW	1.0	1.0
NCB26	FLOW	NCB26	FLOW	1.0	1.0
NCB24_25	FLOW	NCB24_25	FLOW	1.0	1.0
NCB27_PondingArea	FLOW	NCB27	FLOW	1.0	1.0

[CURVES]

;;Name	Type	X-value	Y-value
;;			
HC2	Storage	0	50
HC2		1.3	1112
HC2		2.3	19393
HC2		3.3	35223
HC2		4.3	55351
HC2		5.3	77095
HC2		6.3	97226
HC2		7.3	111852
HC2		8.3	130848
;			
NCB3	Storage	0	50
NCB3		1.21	4497
NCB3		2.21	24271
NCB3		3.21	37646
NCB3		4.21	44640
NCB3		5.21	49853
;			
HC4	Storage	0	37711
HC4		1	54973
HC4		2	77700
HC4		3	90468
HC4		4	105867

NCB Ponding Areas

HCBA4		5	119540
HCBA4		6	133184
HCBA4		7	150598
HCBA4		8	172225
HCBA4		9	193920
HCBA4		10	230836
;			
NCB5	Storage	0	85850
NCB5		1	115835
NCB5		2	149870
NCB5		3	172614
;			
NCB6	Storage	0	50
NCB6		1.19	6544
NCB6		2.19	19708
NCB6		3.19	35736
NCB6		4.19	55470
NCB6		5.19	78086
NCB6		6.19	104430
NCB6		7.19	132932
NCB6		9.19	162521
NCB6		10.19	192190
;			
NCB8	Storage	0	1587340
NCB8		1	1666670
NCB8		2	1781000
NCB8		3	1889858
NCB8		4	1980527
NCB8		5	2059668
NCB8		6	2150265
NCB8		7	2242017
NCB8		8	2345182
;			
NCB11	Storage	0	100
NCB11		1	2192
NCB11		2	12963
NCB11		3	29107
NCB11		4	54680
;			
NCB12	Storage	0	5679
NCB12		1	17055
NCB12		2	19881
NCB12		3	22194
NCB12		4	24361
NCB12		5	26868
;			
NCB13	Storage	0	170
NCB13		1	1265
NCB13		2	12197
NCB13		3	39227
NCB13		4	75877
NCB13		5	128476
NCB13		6	191128
NCB13		7	238450
NCB13		8	294480
NCB13		9	361980
NCB13		10	427642
NCB13		11	489304
NCB13		12	549503
NCB13		13	616883
NCB13		14	689515
NCB13		15	764938
NCB13		16	834234

NCB Ponding Areas

;			
NCB7	Storage	0	72
NCB7		1	2165
NCB7		2	9337
NCB7		3	20451
NCB7		4	41886
NCB7		5	61602
NCB7		6	71948
NCB7		7	79109
NCB7		8	84998
NCB7		9	91646
NCB7		10	109344
;			
NCB14_29	Storage	0	102
NCB14_29		0.04	102
NCB14_29		1.04	1325
NCB14_29		2.04	3496
NCB14_29		3.04	29315
NCB14_29		4.04	96398
NCB14_29		5.04	169416
NCB14_29		6.04	244643
NCB14_29		7.04	314021
NCB14_29		8.04	404098
NCB14_29		9.04	519128
NCB14_29		10.04	620246
NCB14_29		11.04	984201
NCB14_29		12.04	1103634
NCB14_29		13.04	1244303
;			
NCB18	Storage	0	0
NCB18		1.6	100
NCB18		2.6	2016
NCB18		3.6	7900
;			
NCB15	Storage	0	0
NCB15		1	5315
;			
NCB17	Storage	0	0
NCB17		1	320
NCB17		2	1270
NCB17		3	2600
NCB17		3.5	4160
;			
NCB16	Storage	0	230
NCB16		1.42	29963
NCB16		2.42	89501
;			
NCB20	Storage	0	0
NCB20		0.28	10
NCB20		1.28	552
NCB20		2.28	1052
NCB20		3.28	1662
NCB20		4.28	2926
NCB20		5.28	4870
NCB20		6.28	7523
NCB20		7.28	21112
;			
NCB21	Storage	0	0
NCB21		3.73	643
NCB21		4.73	3297
NCB21		5.73	13636
;			
NCB24_25	Storage	0	0

NCB Ponding Areas

NCB24_25		1	286
NCB24_25		2	835
NCB24_25		3	2002
;			
NCB26	Storage	0	0
NCB26		0.5	107
NCB26		1.5	400
;			
NCB27_Ponding	Storage	0	13551
NCB27_Ponding		1	54309
NCB27_Ponding		2	135542
NCB27_Ponding		3	234291
NCB27_Ponding		4	375540
;			
NCB27_O2	Storage	0	0
NCB27_O2		6	2943
NCB27_O2		7	6798
NCB27_O2		8	16820

[TIMESERIES]

;;Name	Date	Time	Value

NCB2	5/10/2018	0:00	0.00
NCB2	5/10/2018	0:05	0.00
NCB2	5/10/2018	0:10	0.02
NCB2	5/10/2018	0:15	0.22
NCB2	5/10/2018	0:20	1.54
NCB2	5/10/2018	0:25	16.40
NCB2	5/10/2018	0:30	69.12
NCB2	5/10/2018	0:35	110.38
NCB2	5/10/2018	0:40	127.34
NCB2	5/10/2018	0:45	130.37
NCB2	5/10/2018	0:50	126.46
NCB2	5/10/2018	0:55	120.13
NCB2	5/10/2018	1:00	113.35
NCB2	5/10/2018	1:05	107.64
NCB2	5/10/2018	1:10	99.21
NCB2	5/10/2018	1:15	89.77
NCB2	5/10/2018	1:20	79.39
NCB2	5/10/2018	1:25	69.04
NCB2	5/10/2018	1:30	59.45
NCB2	5/10/2018	1:35	51.37
NCB2	5/10/2018	1:40	45.33
NCB2	5/10/2018	1:45	40.35
NCB2	5/10/2018	1:50	35.94
NCB2	5/10/2018	1:55	31.94
NCB2	5/10/2018	2:00	28.22
NCB2	5/10/2018	2:05	24.54
NCB2	5/10/2018	2:10	21.02
NCB2	5/10/2018	2:15	17.66
NCB2	5/10/2018	2:20	14.38
NCB2	5/10/2018	2:25	11.17
NCB2	5/10/2018	2:30	8.07
NCB2	5/10/2018	2:35	5.47
NCB2	5/10/2018	2:40	3.84
NCB2	5/10/2018	2:45	2.73
NCB2	5/10/2018	2:50	1.90
NCB2	5/10/2018	2:55	1.29
NCB2	5/10/2018	3:00	0.85
NCB2	5/10/2018	3:05	0.53
NCB2	5/10/2018	3:10	0.34
NCB2	5/10/2018	3:15	0.25
NCB2	5/10/2018	3:20	0.18

NCB Ponding Areas

NCB2	5/10/2018	3:25	0.15
NCB2	5/10/2018	3:30	0.11
NCB2	5/10/2018	3:35	0.08
NCB2	5/10/2018	3:40	0.06
NCB2	5/10/2018	3:45	0.04
NCB2	5/10/2018	3:50	0.02
NCB2	5/10/2018	3:55	0.01
NCB2	5/10/2018	4:00	0.00
NCB2	5/10/2018	4:05	0.00
NCB2	5/10/2018	4:10	0.00
NCB2	5/10/2018	4:15	0.00
NCB2	5/10/2018	4:20	0.00
NCB2	5/10/2018	4:25	0.00
NCB2	5/10/2018	4:30	0.00
NCB2	5/10/2018	4:35	0.00
NCB2	5/10/2018	4:40	0.00
NCB2	5/10/2018	4:45	0.00
NCB2	5/10/2018	4:50	0.00
NCB2	5/10/2018	4:55	0.00
NCB2	5/10/2018	5:00	0.00
NCB2	5/10/2018	5:05	0.00
NCB2	5/10/2018	5:10	0.00
NCB2	5/10/2018	5:15	0.00
NCB2	5/10/2018	5:20	0.00
NCB2	5/10/2018	5:25	0.00
NCB2	5/10/2018	5:30	0.00
NCB2	5/10/2018	5:35	0.00
NCB2	5/10/2018	5:40	0.00
NCB2	5/10/2018	5:45	0.00
NCB2	5/10/2018	5:50	0.00
NCB2	5/10/2018	5:55	0.00
NCB2	5/10/2018	6:00	0.00
NCB2	5/10/2018	6:05	0.00
NCB2	5/10/2018	6:10	0.00
NCB2	5/10/2018	6:15	0.00
NCB2	5/10/2018	6:20	0.00
NCB2	5/10/2018	6:25	0.00
NCB2	5/10/2018	6:30	0.00
NCB2	5/10/2018	6:35	0.00
NCB2	5/10/2018	6:40	0.00
NCB2	5/10/2018	6:45	0.00
NCB2	5/10/2018	6:50	0.00
NCB2	5/10/2018	6:55	0.00
NCB2	5/10/2018	7:00	0.00
NCB2	5/10/2018	7:05	0.00
NCB2	5/10/2018	7:10	0.00
NCB2	5/10/2018	7:15	0.00
NCB2	5/10/2018	7:20	0.00
NCB2	5/10/2018	7:25	0.00
NCB2	5/10/2018	7:30	0.00
NCB2	5/10/2018	7:35	0.00
NCB2	5/10/2018	7:40	0.00
NCB2	5/10/2018	7:45	0.00
NCB2	5/10/2018	7:50	0.00
NCB2	5/10/2018	7:55	0.00
NCB2	5/10/2018	8:00	0.00
NCB2	5/10/2018	8:05	0.00
NCB2	5/10/2018	8:10	0.00
NCB2	5/10/2018	8:15	0.00
NCB2	5/10/2018	8:20	0.00
NCB2	5/10/2018	8:25	0.00
NCB2	5/10/2018	8:30	0.00

;

NCB Ponding Areas

NCB3	5/10/2018	0:00	0.00
NCB3	5/10/2018	0:05	0.00
NCB3	5/10/2018	0:10	0.01
NCB3	5/10/2018	0:15	0.15
NCB3	5/10/2018	0:20	0.91
NCB3	5/10/2018	0:25	7.28
NCB3	5/10/2018	0:30	28.05
NCB3	5/10/2018	0:35	40.59
NCB3	5/10/2018	0:40	45.51
NCB3	5/10/2018	0:45	46.60
NCB3	5/10/2018	0:50	45.48
NCB3	5/10/2018	0:55	43.59
NCB3	5/10/2018	1:00	41.62
NCB3	5/10/2018	1:05	39.75
NCB3	5/10/2018	1:10	36.71
NCB3	5/10/2018	1:15	33.70
NCB3	5/10/2018	1:20	30.30
NCB3	5/10/2018	1:25	27.00
NCB3	5/10/2018	1:30	23.86
NCB3	5/10/2018	1:35	20.87
NCB3	5/10/2018	1:40	18.26
NCB3	5/10/2018	1:45	16.33
NCB3	5/10/2018	1:50	14.74
NCB3	5/10/2018	1:55	13.34
NCB3	5/10/2018	2:00	12.06
NCB3	5/10/2018	2:05	10.77
NCB3	5/10/2018	2:10	9.54
NCB3	5/10/2018	2:15	8.39
NCB3	5/10/2018	2:20	7.31
NCB3	5/10/2018	2:25	6.25
NCB3	5/10/2018	2:30	5.22
NCB3	5/10/2018	2:35	4.20
NCB3	5/10/2018	2:40	3.19
NCB3	5/10/2018	2:45	2.25
NCB3	5/10/2018	2:50	1.56
NCB3	5/10/2018	2:55	1.11
NCB3	5/10/2018	3:00	0.80
NCB3	5/10/2018	3:05	0.56
NCB3	5/10/2018	3:10	0.39
NCB3	5/10/2018	3:15	0.26
NCB3	5/10/2018	3:20	0.17
NCB3	5/10/2018	3:25	0.12
NCB3	5/10/2018	3:30	0.09
NCB3	5/10/2018	3:35	0.07
NCB3	5/10/2018	3:40	0.06
NCB3	5/10/2018	3:45	0.04
NCB3	5/10/2018	3:50	0.03
NCB3	5/10/2018	3:55	0.02
NCB3	5/10/2018	4:00	0.01
NCB3	5/10/2018	4:05	0.01
NCB3	5/10/2018	4:10	0.00
NCB3	5/10/2018	4:15	0.00
NCB3	5/10/2018	4:20	0.00
NCB3	5/10/2018	4:25	0.00
NCB3	5/10/2018	4:30	0.00
NCB3	5/10/2018	4:35	0.00
NCB3	5/10/2018	4:40	0.00
NCB3	5/10/2018	4:45	0.00
NCB3	5/10/2018	4:50	0.00
NCB3	5/10/2018	4:55	0.00
NCB3	5/10/2018	5:00	0.00
NCB3	5/10/2018	5:05	0.00
NCB3	5/10/2018	5:10	0.00

NCB Ponding Areas

NCB3	5/10/2018	5:15	0.00
NCB3	5/10/2018	5:20	0.00
NCB3	5/10/2018	5:25	0.00
NCB3	5/10/2018	5:30	0.00
NCB3	5/10/2018	5:35	0.00
NCB3	5/10/2018	5:40	0.00
NCB3	5/10/2018	5:45	0.00
NCB3	5/10/2018	5:50	0.00
NCB3	5/10/2018	5:55	0.00
NCB3	5/10/2018	6:00	0.00
NCB3	5/10/2018	6:05	0.00
NCB3	5/10/2018	6:10	0.00
NCB3	5/10/2018	6:15	0.00
NCB3	5/10/2018	6:20	0.00
NCB3	5/10/2018	6:25	0.00
NCB3	5/10/2018	6:30	0.00
NCB3	5/10/2018	6:35	0.00
NCB3	5/10/2018	6:40	0.00
NCB3	5/10/2018	6:45	0.00
NCB3	5/10/2018	6:50	0.00
NCB3	5/10/2018	6:55	0.00
NCB3	5/10/2018	7:00	0.00
NCB3	5/10/2018	7:05	0.00
NCB3	5/10/2018	7:10	0.00
NCB3	5/10/2018	7:15	0.00
NCB3	5/10/2018	7:20	0.00
NCB3	5/10/2018	7:25	0.00
NCB3	5/10/2018	7:30	0.00
NCB3	5/10/2018	7:35	0.00
NCB3	5/10/2018	7:40	0.00
NCB3	5/10/2018	7:45	0.00
NCB3	5/10/2018	7:50	0.00
NCB3	5/10/2018	7:55	0.00
NCB3	5/10/2018	8:00	0.00
NCB3	5/10/2018	8:05	0.00
NCB3	5/10/2018	8:10	0.00
NCB3	5/10/2018	8:15	0.00
NCB3	5/10/2018	8:20	0.00
NCB3	5/10/2018	8:25	0.00
NCB3	5/10/2018	8:30	0.00
;			
NCB4	5/10/2018	0:00	0.00
NCB4	5/10/2018	0:05	0.00
NCB4	5/10/2018	0:10	0.12
NCB4	5/10/2018	0:15	1.52
NCB4	5/10/2018	0:20	5.06
NCB4	5/10/2018	0:25	19.53
NCB4	5/10/2018	0:30	57.84
NCB4	5/10/2018	0:35	74.77
NCB4	5/10/2018	0:40	76.01
NCB4	5/10/2018	0:45	72.74
NCB4	5/10/2018	0:50	67.65
NCB4	5/10/2018	0:55	62.19
NCB4	5/10/2018	1:00	58.56
NCB4	5/10/2018	1:05	68.81
NCB4	5/10/2018	1:10	113.92
NCB4	5/10/2018	1:15	148.78
NCB4	5/10/2018	1:20	159.96
NCB4	5/10/2018	1:25	158.12
NCB4	5/10/2018	1:30	150.04
NCB4	5/10/2018	1:35	139.98
NCB4	5/10/2018	1:40	129.75
NCB4	5/10/2018	1:45	120.83

NCB Ponding Areas

NCB4	5/10/2018	1:50	109.47
NCB4	5/10/2018	1:55	97.57
NCB4	5/10/2018	2:00	85.71
NCB4	5/10/2018	2:05	73.87
NCB4	5/10/2018	2:10	63.06
NCB4	5/10/2018	2:15	54.06
NCB4	5/10/2018	2:20	47.30
NCB4	5/10/2018	2:25	41.77
NCB4	5/10/2018	2:30	36.97
NCB4	5/10/2018	2:35	32.72
NCB4	5/10/2018	2:40	28.81
NCB4	5/10/2018	2:45	25.00
NCB4	5/10/2018	2:50	21.37
NCB4	5/10/2018	2:55	17.93
NCB4	5/10/2018	3:00	14.57
NCB4	5/10/2018	3:05	11.30
NCB4	5/10/2018	3:10	8.15
NCB4	5/10/2018	3:15	5.51
NCB4	5/10/2018	3:20	3.85
NCB4	5/10/2018	3:25	2.73
NCB4	5/10/2018	3:30	1.90
NCB4	5/10/2018	3:35	1.29
NCB4	5/10/2018	3:40	0.85
NCB4	5/10/2018	3:45	0.53
NCB4	5/10/2018	3:50	0.34
NCB4	5/10/2018	3:55	0.25
NCB4	5/10/2018	4:00	0.18
NCB4	5/10/2018	4:05	0.15
NCB4	5/10/2018	4:10	0.11
NCB4	5/10/2018	4:15	0.08
NCB4	5/10/2018	4:20	0.06
NCB4	5/10/2018	4:25	0.04
NCB4	5/10/2018	4:30	0.02
NCB4	5/10/2018	4:35	0.01
NCB4	5/10/2018	4:40	0.00
NCB4	5/10/2018	4:45	0.00
NCB4	5/10/2018	4:50	0.00
NCB4	5/10/2018	4:55	0.00
NCB4	5/10/2018	5:00	0.00
NCB4	5/10/2018	5:05	0.00
NCB4	5/10/2018	5:10	0.00
NCB4	5/10/2018	5:15	0.00
NCB4	5/10/2018	5:20	0.00
NCB4	5/10/2018	5:25	0.00
NCB4	5/10/2018	5:30	0.00
NCB4	5/10/2018	5:35	0.00
NCB4	5/10/2018	5:40	0.00
NCB4	5/10/2018	5:45	0.00
NCB4	5/10/2018	5:50	0.00
NCB4	5/10/2018	5:55	0.00
NCB4	5/10/2018	6:00	0.00
NCB4	5/10/2018	6:05	0.00
NCB4	5/10/2018	6:10	0.00
NCB4	5/10/2018	6:15	0.00
NCB4	5/10/2018	6:20	0.00
NCB4	5/10/2018	6:25	0.00
NCB4	5/10/2018	6:30	0.00
NCB4	5/10/2018	6:35	0.00
NCB4	5/10/2018	6:40	0.00
NCB4	5/10/2018	6:45	0.00
NCB4	5/10/2018	6:50	0.00
NCB4	5/10/2018	6:55	0.00
NCB4	5/10/2018	7:00	0.00

NCB Ponding Areas

NCB4	5/10/2018	7:05	0.00
NCB4	5/10/2018	7:10	0.00
NCB4	5/10/2018	7:15	0.00
NCB4	5/10/2018	7:20	0.00
NCB4	5/10/2018	7:25	0.00
NCB4	5/10/2018	7:30	0.00
NCB4	5/10/2018	7:35	0.00
NCB4	5/10/2018	7:40	0.00
NCB4	5/10/2018	7:45	0.00
NCB4	5/10/2018	7:50	0.00
NCB4	5/10/2018	7:55	0.00
NCB4	5/10/2018	8:00	0.00
NCB4	5/10/2018	8:05	0.00
NCB4	5/10/2018	8:10	0.00
NCB4	5/10/2018	8:15	0.00
NCB4	5/10/2018	8:20	0.00
NCB4	5/10/2018	8:25	0.00
NCB4	5/10/2018	8:30	0.00
;			
NCB5	5/10/2018	0:00	0
NCB5	5/10/2018	0:05	0
NCB5	5/10/2018	0:10	0.084142535
NCB5	5/10/2018	0:15	1.088405887
NCB5	5/10/2018	0:20	5.269876246
NCB5	5/10/2018	0:25	26.94786542
NCB5	5/10/2018	0:30	95.22337371
NCB5	5/10/2018	0:35	155.123304
NCB5	5/10/2018	0:40	181.6891318
NCB5	5/10/2018	0:45	188.4302934
NCB5	5/10/2018	0:50	183.8200244
NCB5	5/10/2018	0:55	176.2028617
NCB5	5/10/2018	1:00	168.9353439
NCB5	5/10/2018	1:05	164.8692816
NCB5	5/10/2018	1:10	174.8375259
NCB5	5/10/2018	1:15	221.4618829
NCB5	5/10/2018	1:20	237.2504354
NCB5	5/10/2018	1:25	229.4409371
NCB5	5/10/2018	1:30	214.1554953
NCB5	5/10/2018	1:35	195.7677192
NCB5	5/10/2018	1:40	178.6274691
NCB5	5/10/2018	1:45	165.5588624
NCB5	5/10/2018	1:50	167.5891036
NCB5	5/10/2018	1:55	204.0134943
NCB5	5/10/2018	2:00	230.6786558
NCB5	5/10/2018	2:05	233.1050415
NCB5	5/10/2018	2:10	222.6189228
NCB5	5/10/2018	2:15	206.3851165
NCB5	5/10/2018	2:20	188.5330494
NCB5	5/10/2018	2:25	171.0588434
NCB5	5/10/2018	2:30	155.6772893
NCB5	5/10/2018	2:35	138.3149437
NCB5	5/10/2018	2:40	121.0041643
NCB5	5/10/2018	2:45	104.9898055
NCB5	5/10/2018	2:50	89.9340179
NCB5	5/10/2018	2:55	76.48996387
NCB5	5/10/2018	3:00	65.26723271
NCB5	5/10/2018	3:05	56.63412418
NCB5	5/10/2018	3:10	49.46539251
NCB5	5/10/2018	3:15	43.21329641
NCB5	5/10/2018	3:20	37.68468043
NCB5	5/10/2018	3:25	32.59746764
NCB5	5/10/2018	3:30	27.72718853
NCB5	5/10/2018	3:35	23.30925046

NCB Ponding Areas

NCB5	5/10/2018	3:40	19.32710466
NCB5	5/10/2018	3:45	15.57724999
NCB5	5/10/2018	3:50	12.00337176
NCB5	5/10/2018	3:55	8.625619352
NCB5	5/10/2018	4:00	5.818798485
NCB5	5/10/2018	4:05	4.04407788
NCB5	5/10/2018	4:10	2.85052556
NCB5	5/10/2018	4:15	1.992273409
NCB5	5/10/2018	4:20	1.362635971
NCB5	5/10/2018	4:25	0.901557025
NCB5	5/10/2018	4:30	0.570779587
NCB5	5/10/2018	4:35	0.367309698
NCB5	5/10/2018	4:40	0.266560289
NCB5	5/10/2018	4:45	0.197140493
NCB5	5/10/2018	4:50	0.15364223
NCB5	5/10/2018	4:55	0.116180925
NCB5	5/10/2018	5:00	0.084759478
NCB5	5/10/2018	5:05	0.059379581
NCB5	5/10/2018	5:10	0.038972581
NCB5	5/10/2018	5:15	0.022830857
NCB5	5/10/2018	5:20	0.010954738
NCB5	5/10/2018	5:25	0.003344415
NCB5	5/10/2018	5:30	0
NCB5	5/10/2018	5:35	0
NCB5	5/10/2018	5:40	0
NCB5	5/10/2018	5:45	0
NCB5	5/10/2018	5:50	0
NCB5	5/10/2018	5:55	0
NCB5	5/10/2018	6:00	0
NCB5	5/10/2018	6:05	0
NCB5	5/10/2018	6:10	0
NCB5	5/10/2018	6:15	0
NCB5	5/10/2018	6:20	0
NCB5	5/10/2018	6:25	0
NCB5	5/10/2018	6:30	0
NCB5	5/10/2018	6:35	0
NCB5	5/10/2018	6:40	0
NCB5	5/10/2018	6:45	0
NCB5	5/10/2018	6:50	0
NCB5	5/10/2018	6:55	0
NCB5	5/10/2018	7:00	0
NCB5	5/10/2018	7:05	0
NCB5	5/10/2018	7:10	0
NCB5	5/10/2018	7:15	0
NCB5	5/10/2018	7:20	0
NCB5	5/10/2018	7:25	0
NCB5	5/10/2018	7:30	0
NCB5	5/10/2018	7:35	0
NCB5	5/10/2018	7:40	0
NCB5	5/10/2018	7:45	0
NCB5	5/10/2018	7:50	0
NCB5	5/10/2018	7:55	0
NCB5	5/10/2018	8:00	0
NCB5	5/10/2018	8:05	0
NCB5	5/10/2018	8:10	0
NCB5	5/10/2018	8:15	0
NCB5	5/10/2018	8:20	0
NCB5	5/10/2018	8:25	0
NCB5	5/10/2018	8:30	0
;			
NCB6	5/10/2018	0:00	0
NCB6	5/10/2018	0:05	0
NCB6	5/10/2018	0:10	0.058199465

NCB Ponding Areas

NCB6	5/10/2018	0:15	0.815842298
NCB6	5/10/2018	0:20	4.098027358
NCB6	5/10/2018	0:25	18.50868772
NCB6	5/10/2018	0:30	66.3686694
NCB6	5/10/2018	0:35	139.2813572
NCB6	5/10/2018	0:40	204.112847
NCB6	5/10/2018	0:45	246.7581614
NCB6	5/10/2018	0:50	271.0023685
NCB6	5/10/2018	0:55	283.4831243
NCB6	5/10/2018	1:00	287.3251797
NCB6	5/10/2018	1:05	284.8971138
NCB6	5/10/2018	1:10	277.01338
NCB6	5/10/2018	1:15	268.2069312
NCB6	5/10/2018	1:20	260.1658676
NCB6	5/10/2018	1:25	267.6314693
NCB6	5/10/2018	1:30	320.9214847
NCB6	5/10/2018	1:35	366.0041876
NCB6	5/10/2018	1:40	379.2391101
NCB6	5/10/2018	1:45	374.3984211
NCB6	5/10/2018	1:50	359.4285552
NCB6	5/10/2018	1:55	342.002751
NCB6	5/10/2018	2:00	325.3941096
NCB6	5/10/2018	2:05	311.9243687
NCB6	5/10/2018	2:10	312.2023216
NCB6	5/10/2018	2:15	349.0422826
NCB6	5/10/2018	2:20	355.0673063
NCB6	5/10/2018	2:25	337.5922536
NCB6	5/10/2018	2:30	312.8969423
NCB6	5/10/2018	2:35	286.0103222
NCB6	5/10/2018	2:40	262.2676801
NCB6	5/10/2018	2:45	243.6615497
NCB6	5/10/2018	2:50	240.7223157
NCB6	5/10/2018	2:55	272.6050613
NCB6	5/10/2018	3:00	295.0602335
NCB6	5/10/2018	3:05	293.5376871
NCB6	5/10/2018	3:10	279.3643653
NCB6	5/10/2018	3:15	259.6679396
NCB6	5/10/2018	3:20	238.4247255
NCB6	5/10/2018	3:25	217.6236898
NCB6	5/10/2018	3:30	198.9363015
NCB6	5/10/2018	3:35	178.2891238
NCB6	5/10/2018	3:40	157.7145182
NCB6	5/10/2018	3:45	138.4573417
NCB6	5/10/2018	3:50	120.1797458
NCB6	5/10/2018	3:55	103.5348939
NCB6	5/10/2018	4:00	89.1323758
NCB6	5/10/2018	4:05	77.34049141
NCB6	5/10/2018	4:10	67.03152012
NCB6	5/10/2018	4:15	57.64685066
NCB6	5/10/2018	4:20	49.02225974
NCB6	5/10/2018	4:25	40.98863372
NCB6	5/10/2018	4:30	33.69731129
NCB6	5/10/2018	4:35	27.71913947
NCB6	5/10/2018	4:40	22.63933314
NCB6	5/10/2018	4:45	18.05442249
NCB6	5/10/2018	4:50	13.84122448
NCB6	5/10/2018	4:55	9.972856633
NCB6	5/10/2018	5:00	6.794360544
NCB6	5/10/2018	5:05	4.767220924
NCB6	5/10/2018	5:10	3.417500579
NCB6	5/10/2018	5:15	2.438825955
NCB6	5/10/2018	5:20	1.71756196
NCB6	5/10/2018	5:25	1.17535463

NCB Ponding Areas

NCB6	5/10/2018	5:30	0.773950135
NCB6	5/10/2018	5:35	0.510356357
NCB6	5/10/2018	5:40	0.359987299
NCB6	5/10/2018	5:45	0.251452718
NCB6	5/10/2018	5:50	0.179344899
NCB6	5/10/2018	5:55	0.123779477
NCB6	5/10/2018	6:00	0.084759478
NCB6	5/10/2018	6:05	0.059379581
NCB6	5/10/2018	6:10	0.038972581
NCB6	5/10/2018	6:15	0.022830857
NCB6	5/10/2018	6:20	0.010954738
NCB6	5/10/2018	6:25	0.003344415
NCB6	5/10/2018	6:30	0
NCB6	5/10/2018	6:35	0
NCB6	5/10/2018	6:40	0
NCB6	5/10/2018	6:45	0
NCB6	5/10/2018	6:50	0
NCB6	5/10/2018	6:55	0
NCB6	5/10/2018	7:00	0
NCB6	5/10/2018	7:05	0
NCB6	5/10/2018	7:10	0
NCB6	5/10/2018	7:15	0
NCB6	5/10/2018	7:20	0
NCB6	5/10/2018	7:25	0
NCB6	5/10/2018	7:30	0
NCB6	5/10/2018	7:35	0
NCB6	5/10/2018	7:40	0
NCB6	5/10/2018	7:45	0
NCB6	5/10/2018	7:50	0
NCB6	5/10/2018	7:55	0
NCB6	5/10/2018	8:00	0
NCB6	5/10/2018	8:05	0
NCB6	5/10/2018	8:10	0
NCB6	5/10/2018	8:15	0
NCB6	5/10/2018	8:20	0
NCB6	5/10/2018	8:25	0
NCB6	5/10/2018	8:30	0
;			
NCB8	5/10/2018	0:00	0.00
NCB8	5/10/2018	0:05	0.00
NCB8	5/10/2018	0:10	0.24
NCB8	5/10/2018	0:15	3.17
NCB8	5/10/2018	0:20	13.21
NCB8	5/10/2018	0:25	55.63
NCB8	5/10/2018	0:30	202.92
NCB8	5/10/2018	0:35	362.11
NCB8	5/10/2018	0:40	444.44
NCB8	5/10/2018	0:45	469.31
NCB8	5/10/2018	0:50	458.58
NCB8	5/10/2018	0:55	439.40
NCB8	5/10/2018	1:00	416.47
NCB8	5/10/2018	1:05	394.41
NCB8	5/10/2018	1:10	368.64
NCB8	5/10/2018	1:15	337.30
NCB8	5/10/2018	1:20	302.51
NCB8	5/10/2018	1:25	266.36
NCB8	5/10/2018	1:30	232.45
NCB8	5/10/2018	1:35	201.40
NCB8	5/10/2018	1:40	178.48
NCB8	5/10/2018	1:45	160.37
NCB8	5/10/2018	1:50	144.53
NCB8	5/10/2018	1:55	130.34
NCB8	5/10/2018	2:00	117.23

NCB Ponding Areas

NCB8	5/10/2018	2:05	103.62
NCB8	5/10/2018	2:10	89.74
NCB8	5/10/2018	2:15	76.57
NCB8	5/10/2018	2:20	63.78
NCB8	5/10/2018	2:25	51.56
NCB8	5/10/2018	2:30	39.70
NCB8	5/10/2018	2:35	28.80
NCB8	5/10/2018	2:40	20.80
NCB8	5/10/2018	2:45	15.40
NCB8	5/10/2018	2:50	11.44
NCB8	5/10/2018	2:55	8.43
NCB8	5/10/2018	3:00	6.14
NCB8	5/10/2018	3:05	4.41
NCB8	5/10/2018	3:10	3.21
NCB8	5/10/2018	3:15	2.44
NCB8	5/10/2018	3:20	1.91
NCB8	5/10/2018	3:25	1.52
NCB8	5/10/2018	3:30	1.19
NCB8	5/10/2018	3:35	0.91
NCB8	5/10/2018	3:40	0.66
NCB8	5/10/2018	3:45	0.46
NCB8	5/10/2018	3:50	0.29
NCB8	5/10/2018	3:55	0.16
NCB8	5/10/2018	4:00	0.07
NCB8	5/10/2018	4:05	0.01
NCB8	5/10/2018	4:10	0.00
NCB8	5/10/2018	4:15	0.00
NCB8	5/10/2018	4:20	0.00
NCB8	5/10/2018	4:25	0.00
NCB8	5/10/2018	4:30	0.00
NCB8	5/10/2018	4:35	0.00
NCB8	5/10/2018	4:40	0.00
NCB8	5/10/2018	4:45	0.00
NCB8	5/10/2018	4:50	0.00
NCB8	5/10/2018	4:55	0.00
NCB8	5/10/2018	5:00	0.00
NCB8	5/10/2018	5:05	0.00
NCB8	5/10/2018	5:10	0.00
NCB8	5/10/2018	5:15	0.00
NCB8	5/10/2018	5:20	0.00
NCB8	5/10/2018	5:25	0.00
NCB8	5/10/2018	5:30	0.00
NCB8	5/10/2018	5:35	0.00
NCB8	5/10/2018	5:40	0.00
NCB8	5/10/2018	5:45	0.00
NCB8	5/10/2018	5:50	0.00
NCB8	5/10/2018	5:55	0.00
NCB8	5/10/2018	6:00	0.00
NCB8	5/10/2018	6:05	0.00
NCB8	5/10/2018	6:10	0.00
NCB8	5/10/2018	6:15	0.00
NCB8	5/10/2018	6:20	0.00
NCB8	5/10/2018	6:25	0.00
NCB8	5/10/2018	6:30	0.00
NCB8	5/10/2018	6:35	0.00
NCB8	5/10/2018	6:40	0.00
NCB8	5/10/2018	6:45	0.00
NCB8	5/10/2018	6:50	0.00
NCB8	5/10/2018	6:55	0.00
NCB8	5/10/2018	7:00	0.00
NCB8	5/10/2018	7:05	0.00
NCB8	5/10/2018	7:10	0.00
NCB8	5/10/2018	7:15	0.00

NCB Ponding Areas

NCB8	5/10/2018	7:20	0.00
NCB8	5/10/2018	7:25	0.00
NCB8	5/10/2018	7:30	0.00
NCB8	5/10/2018	7:35	0.00
NCB8	5/10/2018	7:40	0.00
NCB8	5/10/2018	7:45	0.00
NCB8	5/10/2018	7:50	0.00
NCB8	5/10/2018	7:55	0.00
NCB8	5/10/2018	8:00	0.00
NCB8	5/10/2018	8:05	0.00
NCB8	5/10/2018	8:10	0.00
NCB8	5/10/2018	8:15	0.00
NCB8	5/10/2018	8:20	0.00
NCB8	5/10/2018	8:25	0.00
NCB8	5/10/2018	8:30	0.00
;			
NCB11	5/10/2018	0:00	0
NCB11	5/10/2018	0:05	0
NCB11	5/10/2018	0:10	0.00239767
NCB11	5/10/2018	0:15	0.031817981
NCB11	5/10/2018	0:20	0.292063845
NCB11	5/10/2018	0:25	5.907073143
NCB11	5/10/2018	0:30	36.9821246
NCB11	5/10/2018	0:35	74.01435212
NCB11	5/10/2018	0:40	94.98840156
NCB11	5/10/2018	0:45	104.8268384
NCB11	5/10/2018	0:50	107.7345636
NCB11	5/10/2018	0:55	105.1789745
NCB11	5/10/2018	1:00	101.8959799
NCB11	5/10/2018	1:05	98.88290569
NCB11	5/10/2018	1:10	93.70615879
NCB11	5/10/2018	1:15	90.10604829
NCB11	5/10/2018	1:20	104.9193962
NCB11	5/10/2018	1:25	139.5867265
NCB11	5/10/2018	1:30	178.487284
NCB11	5/10/2018	1:35	209.9135082
NCB11	5/10/2018	1:40	229.1449518
NCB11	5/10/2018	1:45	238.51021
NCB11	5/10/2018	1:50	241.6385923
NCB11	5/10/2018	1:55	240.6174475
NCB11	5/10/2018	2:00	235.8553055
NCB11	5/10/2018	2:05	226.6686013
NCB11	5/10/2018	2:10	215.4914487
NCB11	5/10/2018	2:15	203.9495434
NCB11	5/10/2018	2:20	192.0929804
NCB11	5/10/2018	2:25	180.1067673
NCB11	5/10/2018	2:30	168.2109385
NCB11	5/10/2018	2:35	156.6183093
NCB11	5/10/2018	2:40	145.9717401
NCB11	5/10/2018	2:45	136.7675201
NCB11	5/10/2018	2:50	128.3466737
NCB11	5/10/2018	2:55	120.3084348
NCB11	5/10/2018	3:00	112.4970893
NCB11	5/10/2018	3:05	104.8210856
NCB11	5/10/2018	3:10	97.27331897
NCB11	5/10/2018	3:15	89.97571211
NCB11	5/10/2018	3:20	83.30648655
NCB11	5/10/2018	3:25	77.07862987
NCB11	5/10/2018	3:30	71.08994442
NCB11	5/10/2018	3:35	65.25602789
NCB11	5/10/2018	3:40	59.67674511
NCB11	5/10/2018	3:45	54.94723904
NCB11	5/10/2018	3:50	51.29293974

NCB Ponding Areas

NCB11	5/10/2018	3:55	48.24279143
NCB11	5/10/2018	4:00	45.53701506
NCB11	5/10/2018	4:05	43.0817733
NCB11	5/10/2018	4:10	40.805721
NCB11	5/10/2018	4:15	38.67614749
NCB11	5/10/2018	4:20	36.69155522
NCB11	5/10/2018	4:25	34.79843975
NCB11	5/10/2018	4:30	32.93934761
NCB11	5/10/2018	4:35	31.09996338
NCB11	5/10/2018	4:40	29.26488775
NCB11	5/10/2018	4:45	27.43412278
NCB11	5/10/2018	4:50	25.60766965
NCB11	5/10/2018	4:55	23.78456881
NCB11	5/10/2018	5:00	21.96454758
NCB11	5/10/2018	5:05	20.14760617
NCB11	5/10/2018	5:10	18.33374473
NCB11	5/10/2018	5:15	16.52296333
NCB11	5/10/2018	5:20	14.71377499
NCB11	5/10/2018	5:25	12.90458666
NCB11	5/10/2018	5:30	11.09539832
NCB11	5/10/2018	5:35	9.286261153
NCB11	5/10/2018	5:40	7.477744864
NCB11	5/10/2018	5:45	5.673764727
NCB11	5/10/2018	5:50	3.952962552
NCB11	5/10/2018	5:55	2.666417259
NCB11	5/10/2018	6:00	1.850453112
NCB11	5/10/2018	6:05	1.283188689
NCB11	5/10/2018	6:10	0.867622127
NCB11	5/10/2018	6:15	0.564483634
NCB11	5/10/2018	6:20	0.34425366
NCB11	5/10/2018	6:25	0.195693976
NCB11	5/10/2018	6:30	0.119025746
NCB11	5/10/2018	6:35	0.081918839
NCB11	5/10/2018	6:40	0.061212863
NCB11	5/10/2018	6:45	0.048255153
NCB11	5/10/2018	6:50	0.036835237
NCB11	5/10/2018	6:55	0.026954067
NCB11	5/10/2018	7:00	0.018612199
NCB11	5/10/2018	7:05	0.011809955
NCB11	5/10/2018	7:10	0.006547524
NCB11	5/10/2018	7:15	0.002825017
NCB11	5/10/2018	7:20	0.000642496
NCB11	5/10/2018	7:25	0
NCB11	5/10/2018	7:30	0
NCB11	5/10/2018	7:35	0
NCB11	5/10/2018	7:40	0
NCB11	5/10/2018	7:45	0
NCB11	5/10/2018	7:50	0
NCB11	5/10/2018	7:55	0
NCB11	5/10/2018	8:00	0
NCB11	5/10/2018	8:05	0
NCB11	5/10/2018	8:10	0
NCB11	5/10/2018	8:15	0
NCB11	5/10/2018	8:20	0
NCB11	5/10/2018	8:25	0
NCB11	5/10/2018	8:30	0
NCB11	5/10/2018	8:35	0
NCB11	5/10/2018	8:40	0
NCB11	5/10/2018	8:45	0
NCB11	5/10/2018	8:50	0
NCB11	5/10/2018	8:55	0
NCB11	5/10/2018	9:00	0
NCB11	5/10/2018	9:05	0

NCB Ponding Areas

NCB11	5/10/2018	9:10	0
NCB11	5/10/2018	9:15	0
;			
NCB12	5/10/2018	0:00	0.00
NCB12	5/10/2018	0:05	0.00
NCB12	5/10/2018	0:10	0.16
NCB12	5/10/2018	0:15	2.00
NCB12	5/10/2018	0:20	5.68
NCB12	5/10/2018	0:25	15.67
NCB12	5/10/2018	0:30	38.47
NCB12	5/10/2018	0:35	53.16
NCB12	5/10/2018	0:40	57.99
NCB12	5/10/2018	0:45	57.67
NCB12	5/10/2018	0:50	55.55
NCB12	5/10/2018	0:55	52.45
NCB12	5/10/2018	1:00	49.41
NCB12	5/10/2018	1:05	47.08
NCB12	5/10/2018	1:10	43.25
NCB12	5/10/2018	1:15	39.07
NCB12	5/10/2018	1:20	34.42
NCB12	5/10/2018	1:25	30.07
NCB12	5/10/2018	1:30	26.44
NCB12	5/10/2018	1:35	23.68
NCB12	5/10/2018	1:40	21.40
NCB12	5/10/2018	1:45	19.37
NCB12	5/10/2018	1:50	17.51
NCB12	5/10/2018	1:55	15.77
NCB12	5/10/2018	2:00	14.13
NCB12	5/10/2018	2:05	12.05
NCB12	5/10/2018	2:10	9.94
NCB12	5/10/2018	2:15	7.93
NCB12	5/10/2018	2:20	6.10
NCB12	5/10/2018	2:25	4.57
NCB12	5/10/2018	2:30	3.53
NCB12	5/10/2018	2:35	2.76
NCB12	5/10/2018	2:40	2.15
NCB12	5/10/2018	2:45	1.66
NCB12	5/10/2018	2:50	1.27
NCB12	5/10/2018	2:55	0.97
NCB12	5/10/2018	3:00	0.76
NCB12	5/10/2018	3:05	0.61
NCB12	5/10/2018	3:10	0.49
NCB12	5/10/2018	3:15	0.39
NCB12	5/10/2018	3:20	0.30
NCB12	5/10/2018	3:25	0.23
NCB12	5/10/2018	3:30	0.16
NCB12	5/10/2018	3:35	0.11
NCB12	5/10/2018	3:40	0.06
NCB12	5/10/2018	3:45	0.03
NCB12	5/10/2018	3:50	0.01
NCB12	5/10/2018	3:55	0.00
NCB12	5/10/2018	4:00	0.00
NCB12	5/10/2018	4:05	0.00
NCB12	5/10/2018	4:10	0.00
NCB12	5/10/2018	4:15	0.00
NCB12	5/10/2018	4:20	0.00
NCB12	5/10/2018	4:25	0.00
NCB12	5/10/2018	4:30	0.00
NCB12	5/10/2018	4:35	0.00
NCB12	5/10/2018	4:40	0.00
NCB12	5/10/2018	4:45	0.00
NCB12	5/10/2018	4:50	0.00
NCB12	5/10/2018	4:55	0.00

NCB Ponding Areas

NCB12	5/10/2018	5:00	0.00
NCB12	5/10/2018	5:05	0.00
NCB12	5/10/2018	5:10	0.00
;			
NCB13	5/10/2018	0:00	0
NCB13	5/10/2018	0:05	0
NCB13	5/10/2018	0:10	0.065349471
NCB13	5/10/2018	0:15	0.881239962
NCB13	5/10/2018	0:20	5.058564574
NCB13	5/10/2018	0:25	30.18924477
NCB13	5/10/2018	0:30	118.9983297
NCB13	5/10/2018	0:35	228.6782565
NCB13	5/10/2018	0:40	298.900499
NCB13	5/10/2018	0:45	331.527089
NCB13	5/10/2018	0:50	340.167674
NCB13	5/10/2018	0:55	331.7348296
NCB13	5/10/2018	1:00	320.2512957
NCB13	5/10/2018	1:05	311.1425416
NCB13	5/10/2018	1:10	299.6182481
NCB13	5/10/2018	1:15	300.5613286
NCB13	5/10/2018	1:20	356.2714017
NCB13	5/10/2018	1:25	411.5503702
NCB13	5/10/2018	1:30	433.5923655
NCB13	5/10/2018	1:35	432.784548
NCB13	5/10/2018	1:40	419.8170676
NCB13	5/10/2018	1:45	398.6351892
NCB13	5/10/2018	1:50	376.3499197
NCB13	5/10/2018	1:55	357.2579508
NCB13	5/10/2018	2:00	345.9970959
NCB13	5/10/2018	2:05	396.333653
NCB13	5/10/2018	2:10	533.9117798
NCB13	5/10/2018	2:15	716.2781166
NCB13	5/10/2018	2:20	894.9421138
NCB13	5/10/2018	2:25	1061.432195
NCB13	5/10/2018	2:30	1198.356804
NCB13	5/10/2018	2:35	1283.198564
NCB13	5/10/2018	2:40	1311.669398
NCB13	5/10/2018	2:45	1296.9916
NCB13	5/10/2018	2:50	1264.896533
NCB13	5/10/2018	2:55	1213.164844
NCB13	5/10/2018	3:00	1146.151868
NCB13	5/10/2018	3:05	1070.337482
NCB13	5/10/2018	3:10	998.8001479
NCB13	5/10/2018	3:15	933.9973528
NCB13	5/10/2018	3:20	889.4522462
NCB13	5/10/2018	3:25	894.9666031
NCB13	5/10/2018	3:30	895.2901853
NCB13	5/10/2018	3:35	866.940744
NCB13	5/10/2018	3:40	822.4974328
NCB13	5/10/2018	3:45	769.6524056
NCB13	5/10/2018	3:50	715.7173305
NCB13	5/10/2018	3:55	665.6442784
NCB13	5/10/2018	4:00	624.8723688
NCB13	5/10/2018	4:05	601.3186966
NCB13	5/10/2018	4:10	616.7641712
NCB13	5/10/2018	4:15	603.1944127
NCB13	5/10/2018	4:20	567.4122856
NCB13	5/10/2018	4:25	525.3538794
NCB13	5/10/2018	4:30	482.1336463
NCB13	5/10/2018	4:35	443.5467516
NCB13	5/10/2018	4:40	411.3717034
NCB13	5/10/2018	4:45	395.6235275
NCB13	5/10/2018	4:50	415.0660317

NCB Ponding Areas

NCB13	5/10/2018	4:55	425.3463296
NCB13	5/10/2018	5:00	411.8429356
NCB13	5/10/2018	5:05	385.850085
NCB13	5/10/2018	5:10	354.493964
NCB13	5/10/2018	5:15	321.6976727
NCB13	5/10/2018	5:20	289.3934742
NCB13	5/10/2018	5:25	259.290567
NCB13	5/10/2018	5:30	228.0217356
NCB13	5/10/2018	5:35	199.980709
NCB13	5/10/2018	5:40	174.9379162
NCB13	5/10/2018	5:45	151.7651868
NCB13	5/10/2018	5:50	130.885322
NCB13	5/10/2018	5:55	112.7963589
NCB13	5/10/2018	6:00	97.86445887
NCB13	5/10/2018	6:05	84.91829274
NCB13	5/10/2018	6:10	73.31584373
NCB13	5/10/2018	6:15	62.60214244
NCB13	5/10/2018	6:20	52.59186584
NCB13	5/10/2018	6:25	43.35773932
NCB13	5/10/2018	6:30	35.46906204
NCB13	5/10/2018	6:35	28.5150238
NCB13	5/10/2018	6:40	22.15622948
NCB13	5/10/2018	6:45	16.61615534
NCB13	5/10/2018	6:50	11.89991244
NCB13	5/10/2018	6:55	8.12934372
NCB13	5/10/2018	7:00	5.668932697
NCB13	5/10/2018	7:05	4.005195529
NCB13	5/10/2018	7:10	2.797491187
NCB13	5/10/2018	7:15	1.920946455
NCB13	5/10/2018	7:20	1.297428594
NCB13	5/10/2018	7:25	0.85635368
NCB13	5/10/2018	7:30	0.571569221
NCB13	5/10/2018	7:35	0.408242453
NCB13	5/10/2018	7:40	0.288287955
NCB13	5/10/2018	7:45	0.206298966
NCB13	5/10/2018	7:50	0.142391676
NCB13	5/10/2018	7:55	0.096569433
NCB13	5/10/2018	8:00	0.065927105
NCB13	5/10/2018	8:05	0.041797598
NCB13	5/10/2018	8:10	0.023473354
NCB13	5/10/2018	8:15	0.010954738
NCB13	5/10/2018	8:20	0.003344415
NCB13	5/10/2018	8:25	0
NCB13	5/10/2018	8:30	0
NCB13	5/10/2018	8:35	0
NCB13	5/10/2018	8:40	0
NCB13	5/10/2018	8:45	0
NCB13	5/10/2018	8:50	0
NCB13	5/10/2018	8:55	0
NCB13	5/10/2018	9:00	0
NCB13	5/10/2018	9:05	0
NCB13	5/10/2018	9:10	0
NCB13	5/10/2018	9:15	0
NCB13	5/10/2018	9:20	0
;			
NCB14_NCB29	5/10/2018	0:00	0
NCB14_NCB29	5/10/2018	0:05	0
NCB14_NCB29	5/10/2018	0:10	0.002546522
NCB14_NCB29	5/10/2018	0:15	0.035483424
NCB14_NCB29	5/10/2018	0:20	0.370096065
NCB14_NCB29	5/10/2018	0:25	8.235990163
NCB14_NCB29	5/10/2018	0:30	56.87044184
NCB14_NCB29	5/10/2018	0:35	139.8725429

NCB Ponding Areas

NCB14_NCB29	5/10/2018	0:40	214.6487694
NCB14_NCB29	5/10/2018	0:45	262.6119775
NCB14_NCB29	5/10/2018	0:50	289.278038
NCB14_NCB29	5/10/2018	0:55	301.8401046
NCB14_NCB29	5/10/2018	1:00	303.6750012
NCB14_NCB29	5/10/2018	1:05	299.2878351
NCB14_NCB29	5/10/2018	1:10	296.8764714
NCB14_NCB29	5/10/2018	1:15	297.1968756
NCB14_NCB29	5/10/2018	1:20	333.0234529
NCB14_NCB29	5/10/2018	1:25	492.8519203
NCB14_NCB29	5/10/2018	1:30	691.2879702
NCB14_NCB29	5/10/2018	1:35	840.9760962
NCB14_NCB29	5/10/2018	1:40	912.2137419
NCB14_NCB29	5/10/2018	1:45	935.5234775
NCB14_NCB29	5/10/2018	1:50	925.7381102
NCB14_NCB29	5/10/2018	1:55	927.8733921
NCB14_NCB29	5/10/2018	2:00	984.7724271
NCB14_NCB29	5/10/2018	2:05	965.0807298
NCB14_NCB29	5/10/2018	2:10	940.7661602
NCB14_NCB29	5/10/2018	2:15	977.7243327
NCB14_NCB29	5/10/2018	2:20	1070.519042
NCB14_NCB29	5/10/2018	2:25	1145.5413
NCB14_NCB29	5/10/2018	2:30	1172.158
NCB14_NCB29	5/10/2018	2:35	1164.073055
NCB14_NCB29	5/10/2018	2:40	1125.672285
NCB14_NCB29	5/10/2018	2:45	1079.699415
NCB14_NCB29	5/10/2018	2:50	1029.899405
NCB14_NCB29	5/10/2018	2:55	983.483622
NCB14_NCB29	5/10/2018	3:00	952.1763043
NCB14_NCB29	5/10/2018	3:05	1022.74225
NCB14_NCB29	5/10/2018	3:10	1311.267088
NCB14_NCB29	5/10/2018	3:15	1660.675416
NCB14_NCB29	5/10/2018	3:20	1914.957722
NCB14_NCB29	5/10/2018	3:25	2089.004022
NCB14_NCB29	5/10/2018	3:30	2192.997268
NCB14_NCB29	5/10/2018	3:35	2229.529145
NCB14_NCB29	5/10/2018	3:40	2204.815863
NCB14_NCB29	5/10/2018	3:45	2139.248207
NCB14_NCB29	5/10/2018	3:50	2051.357
NCB14_NCB29	5/10/2018	3:55	1939.17996
NCB14_NCB29	5/10/2018	4:00	1821.952734
NCB14_NCB29	5/10/2018	4:05	1751.251348
NCB14_NCB29	5/10/2018	4:10	1720.504838
NCB14_NCB29	5/10/2018	4:15	1676.235828
NCB14_NCB29	5/10/2018	4:20	1625.532472
NCB14_NCB29	5/10/2018	4:25	1607.92317
NCB14_NCB29	5/10/2018	4:30	1571.659456
NCB14_NCB29	5/10/2018	4:35	1503.109053
NCB14_NCB29	5/10/2018	4:40	1421.7062
NCB14_NCB29	5/10/2018	4:45	1328.418223
NCB14_NCB29	5/10/2018	4:50	1242.556724
NCB14_NCB29	5/10/2018	4:55	1231.653895
NCB14_NCB29	5/10/2018	5:00	1300.68414
NCB14_NCB29	5/10/2018	5:05	1393.35404
NCB14_NCB29	5/10/2018	5:10	1491.17515
NCB14_NCB29	5/10/2018	5:15	1517.703445
NCB14_NCB29	5/10/2018	5:20	1490.006017
NCB14_NCB29	5/10/2018	5:25	1429.635362
NCB14_NCB29	5/10/2018	5:30	1353.866945
NCB14_NCB29	5/10/2018	5:35	1283.164176
NCB14_NCB29	5/10/2018	5:40	1212.376945
NCB14_NCB29	5/10/2018	5:45	1149.939104
NCB14_NCB29	5/10/2018	5:50	1118.034131

NCB Ponding Areas

NCB14_NCB29	5/10/2018	5:55	1079.352591
NCB14_NCB29	5/10/2018	6:00	1017.894358
NCB14_NCB29	5/10/2018	6:05	946.1164081
NCB14_NCB29	5/10/2018	6:10	872.5408997
NCB14_NCB29	5/10/2018	6:15	799.1825195
NCB14_NCB29	5/10/2018	6:20	727.5958025
NCB14_NCB29	5/10/2018	6:25	659.3000025
NCB14_NCB29	5/10/2018	6:30	591.3320805
NCB14_NCB29	5/10/2018	6:35	528.648816
NCB14_NCB29	5/10/2018	6:40	474.6979685
NCB14_NCB29	5/10/2018	6:45	426.3648797
NCB14_NCB29	5/10/2018	6:50	383.9312296
NCB14_NCB29	5/10/2018	6:55	347.5684502
NCB14_NCB29	5/10/2018	7:00	316.4128397
NCB14_NCB29	5/10/2018	7:05	288.6741566
NCB14_NCB29	5/10/2018	7:10	263.4426039
NCB14_NCB29	5/10/2018	7:15	240.0968298
NCB14_NCB29	5/10/2018	7:20	217.9616093
NCB14_NCB29	5/10/2018	7:25	197.0658439
NCB14_NCB29	5/10/2018	7:30	177.7220773
NCB14_NCB29	5/10/2018	7:35	159.4119094
NCB14_NCB29	5/10/2018	7:40	141.7596914
NCB14_NCB29	5/10/2018	7:45	124.9585609
NCB14_NCB29	5/10/2018	7:50	109.0144068
NCB14_NCB29	5/10/2018	7:55	94.05558147
NCB14_NCB29	5/10/2018	8:00	80.52914173
NCB14_NCB29	5/10/2018	8:05	68.67109888
NCB14_NCB29	5/10/2018	8:10	60.05020244
NCB14_NCB29	5/10/2018	8:15	53.27171568
NCB14_NCB29	5/10/2018	8:20	47.78838903
NCB14_NCB29	5/10/2018	8:25	43.71763236
NCB14_NCB29	5/10/2018	8:30	40.58096012
NCB14_NCB29	5/10/2018	8:35	38.0747269
NCB14_NCB29	5/10/2018	8:40	36.07162269
NCB14_NCB29	5/10/2018	8:45	34.5072098
NCB14_NCB29	5/10/2018	8:50	33.11329374
NCB14_NCB29	5/10/2018	8:55	31.88376532
NCB14_NCB29	5/10/2018	9:00	30.74536971
NCB14_NCB29	5/10/2018	9:05	29.63886913
NCB14_NCB29	5/10/2018	9:10	28.5607518
NCB14_NCB29	5/10/2018	9:15	27.49734724
NCB14_NCB29	5/10/2018	9:20	26.44776065
NCB14_NCB29	5/10/2018	9:25	25.41135112
NCB14_NCB29	5/10/2018	9:30	24.38719801
NCB14_NCB29	5/10/2018	9:35	23.37195741
NCB14_NCB29	5/10/2018	9:40	22.36497395
NCB14_NCB29	5/10/2018	9:45	21.35993148
NCB14_NCB29	5/10/2018	9:50	20.35683007
NCB14_NCB29	5/10/2018	9:55	19.355334
NCB14_NCB29	5/10/2018	10:00	18.35383794
NCB14_NCB29	5/10/2018	10:05	17.35234187
NCB14_NCB29	5/10/2018	10:10	16.35084581
NCB14_NCB29	5/10/2018	10:15	15.34934974
NCB14_NCB29	5/10/2018	10:20	14.34785368
NCB14_NCB29	5/10/2018	10:25	13.34635761
NCB14_NCB29	5/10/2018	10:30	12.34486154
NCB14_NCB29	5/10/2018	10:35	11.34336548
NCB14_NCB29	5/10/2018	10:40	10.34186941
NCB14_NCB29	5/10/2018	10:45	9.340373347
NCB14_NCB29	5/10/2018	10:50	8.338877281
NCB14_NCB29	5/10/2018	10:55	7.337381215
NCB14_NCB29	5/10/2018	11:00	6.335885149
NCB14_NCB29	5/10/2018	11:05	5.334414215

NCB Ponding Areas

NCB14_NCB29	5/10/2018	11:10	4.333268052
NCB14_NCB29	5/10/2018	11:15	3.334322444
NCB14_NCB29	5/10/2018	11:20	2.369187555
NCB14_NCB29	5/10/2018	11:25	1.593007579
NCB14_NCB29	5/10/2018	11:30	1.106446673
NCB14_NCB29	5/10/2018	11:35	0.773545312
NCB14_NCB29	5/10/2018	11:40	0.529221991
NCB14_NCB29	5/10/2018	11:45	0.350242331
NCB14_NCB29	5/10/2018	11:50	0.219837611
NCB14_NCB29	5/10/2018	11:55	0.129031129
NCB14_NCB29	5/10/2018	12:00	0.077955629
NCB14_NCB29	5/10/2018	12:05	0.054460032
NCB14_NCB29	5/10/2018	12:10	0.040180433
NCB14_NCB29	5/10/2018	12:15	0.03183643
NCB14_NCB29	5/10/2018	12:20	0.024461431
NCB14_NCB29	5/10/2018	12:25	0.018056087
NCB14_NCB29	5/10/2018	12:30	0.01262078
NCB14_NCB29	5/10/2018	12:35	0.008155729
NCB14_NCB29	5/10/2018	12:40	0.004661065
NCB14_NCB29	5/10/2018	12:45	0.002136862
NCB14_NCB29	5/10/2018	12:50	0.000583166
NCB14_NCB29	5/10/2018	12:55	0
NCB14_NCB29	5/10/2018	13:00	0
NCB14_NCB29	5/10/2018	13:05	0
NCB14_NCB29	5/10/2018	13:10	0
NCB14_NCB29	5/10/2018	13:15	0
NCB14_NCB29	5/10/2018	13:20	0
NCB14_NCB29	5/10/2018	13:25	0
NCB14_NCB29	5/10/2018	13:30	0
NCB14_NCB29	5/10/2018	13:35	0
NCB14_NCB29	5/10/2018	13:40	0
NCB14_NCB29	5/10/2018	13:45	0
NCB14_NCB29	5/10/2018	13:50	0
NCB14_NCB29	5/10/2018	13:55	0
NCB14_NCB29	5/10/2018	14:00	0
NCB14_NCB29	5/10/2018	14:05	0
NCB14_NCB29	5/10/2018	14:10	0
NCB14_NCB29	5/10/2018	14:15	0
NCB14_NCB29	5/10/2018	14:20	0
NCB14_NCB29	5/10/2018	14:25	0
NCB14_NCB29	5/10/2018	14:30	0
NCB14_NCB29	5/10/2018	14:35	0
NCB14_NCB29	5/10/2018	14:40	0
NCB14_NCB29	5/10/2018	14:45	0
NCB14_NCB29	5/10/2018	14:50	0
NCB14_NCB29	5/10/2018	14:55	0
NCB14_NCB29	5/10/2018	15:00	0
;			
NCB7	5/10/2018	0:00	0
NCB7	5/10/2018	0:05	0
NCB7	5/10/2018	0:10	0.017149397
NCB7	5/10/2018	0:15	0.234295977
NCB7	5/10/2018	0:20	1.209559954
NCB7	5/10/2018	0:25	5.975401502
NCB7	5/10/2018	0:30	22.01341565
NCB7	5/10/2018	0:35	43.39075717
NCB7	5/10/2018	0:40	59.02523746
NCB7	5/10/2018	0:45	67.6986815
NCB7	5/10/2018	0:50	72.86084728
NCB7	5/10/2018	0:55	75.71492175
NCB7	5/10/2018	1:00	76.89165279
NCB7	5/10/2018	1:05	76.98825454
NCB7	5/10/2018	1:10	75.466157

NCB Ponding Areas

NCB7	5/10/2018	1:15	72.82068086
NCB7	5/10/2018	1:20	70.51312503
NCB7	5/10/2018	1:25	70.48622833
NCB7	5/10/2018	1:30	81.46665354
NCB7	5/10/2018	1:35	125.9077431
NCB7	5/10/2018	1:40	195.4362321
NCB7	5/10/2018	1:45	257.0594732
NCB7	5/10/2018	1:50	297.0112327
NCB7	5/10/2018	1:55	318.8749469
NCB7	5/10/2018	2:00	329.1267704
NCB7	5/10/2018	2:05	330.7419306
NCB7	5/10/2018	2:10	326.0260358
NCB7	5/10/2018	2:15	315.852324
NCB7	5/10/2018	2:20	304.8022138
NCB7	5/10/2018	2:25	294.5677357
NCB7	5/10/2018	2:30	299.856029
NCB7	5/10/2018	2:35	350.9863224
NCB7	5/10/2018	2:40	393.9234432
NCB7	5/10/2018	2:45	405.0447062
NCB7	5/10/2018	2:50	398.1974143
NCB7	5/10/2018	2:55	381.5403838
NCB7	5/10/2018	3:00	362.7654683
NCB7	5/10/2018	3:05	344.9905811
NCB7	5/10/2018	3:10	330.4683008
NCB7	5/10/2018	3:15	329.7800819
NCB7	5/10/2018	3:20	365.7198644
NCB7	5/10/2018	3:25	370.8982457
NCB7	5/10/2018	3:30	352.6299597
NCB7	5/10/2018	3:35	327.1739637
NCB7	5/10/2018	3:40	299.5421043
NCB7	5/10/2018	3:45	275.0634675
NCB7	5/10/2018	3:50	255.7254973
NCB7	5/10/2018	3:55	252.0585795
NCB7	5/10/2018	4:00	283.2177979
NCB7	5/10/2018	4:05	304.9536001
NCB7	5/10/2018	4:10	302.7158411
NCB7	5/10/2018	4:15	287.831464
NCB7	5/10/2018	4:20	267.4281407
NCB7	5/10/2018	4:25	245.4821865
NCB7	5/10/2018	4:30	223.9802829
NCB7	5/10/2018	4:35	204.5920264
NCB7	5/10/2018	4:40	183.2439807
NCB7	5/10/2018	4:45	161.9685071
NCB7	5/10/2018	4:50	142.0107299
NCB7	5/10/2018	4:55	123.0356679
NCB7	5/10/2018	5:00	105.7055594
NCB7	5/10/2018	5:05	90.68004399
NCB7	5/10/2018	5:10	78.45461549
NCB7	5/10/2018	5:15	67.85648203
NCB7	5/10/2018	5:20	58.25965913
NCB7	5/10/2018	5:25	49.47395858
NCB7	5/10/2018	5:30	41.31779896
NCB7	5/10/2018	5:35	33.93272267
NCB7	5/10/2018	5:40	27.88745502
NCB7	5/10/2018	5:45	22.76726812
NCB7	5/10/2018	5:50	18.15412365
NCB7	5/10/2018	5:55	13.92041811
NCB7	5/10/2018	6:00	10.03493786
NCB7	5/10/2018	6:05	6.841406929
NCB7	5/10/2018	6:10	4.80131057
NCB7	5/10/2018	6:15	3.440711895
NCB7	5/10/2018	6:20	2.453237527
NCB7	5/10/2018	6:25	1.725252479

NCB Ponding Areas

NCB7	5/10/2018	6:30	1.178402848
NCB7	5/10/2018	6:35	0.774434841
NCB7	5/10/2018	6:40	0.510356357
NCB7	5/10/2018	6:45	0.359987299
NCB7	5/10/2018	6:50	0.251452718
NCB7	5/10/2018	6:55	0.179344899
NCB7	5/10/2018	7:00	0.123779477
NCB7	5/10/2018	7:05	0.084759478
NCB7	5/10/2018	7:10	0.059379581
NCB7	5/10/2018	7:15	0.038972581
NCB7	5/10/2018	7:20	0.022830857
NCB7	5/10/2018	7:25	0.010954738
NCB7	5/10/2018	7:30	0.003344415
NCB7	5/10/2018	7:35	0
NCB7	5/10/2018	7:40	0
NCB7	5/10/2018	7:45	0
NCB7	5/10/2018	7:50	0
NCB7	5/10/2018	7:55	0
NCB7	5/10/2018	8:00	0
NCB7	5/10/2018	8:05	0
NCB7	5/10/2018	8:10	0
NCB7	5/10/2018	8:15	0
NCB7	5/10/2018	8:20	0
NCB7	5/10/2018	8:25	0
NCB7	5/10/2018	8:30	0
;			
NCB16	5/10/2018	0:00	0.00
NCB16	5/10/2018	0:05	0.01
NCB16	5/10/2018	0:10	0.12
NCB16	5/10/2018	0:15	0.92
NCB16	5/10/2018	0:20	13.76
NCB16	5/10/2018	0:25	87.78
NCB16	5/10/2018	0:30	219.42
NCB16	5/10/2018	0:35	348.49
NCB16	5/10/2018	0:40	441.25
NCB16	5/10/2018	0:45	492.84
NCB16	5/10/2018	0:50	513.96
NCB16	5/10/2018	0:55	510.86
NCB16	5/10/2018	1:00	494.24
NCB16	5/10/2018	1:05	476.34
NCB16	5/10/2018	1:10	452.16
NCB16	5/10/2018	1:15	421.24
NCB16	5/10/2018	1:20	386.98
NCB16	5/10/2018	1:25	356.35
NCB16	5/10/2018	1:30	327.76
NCB16	5/10/2018	1:35	301.15
NCB16	5/10/2018	1:40	276.65
NCB16	5/10/2018	1:45	253.19
NCB16	5/10/2018	1:50	230.63
NCB16	5/10/2018	1:55	208.72
NCB16	5/10/2018	2:00	187.40
NCB16	5/10/2018	2:05	167.32
NCB16	5/10/2018	2:10	152.16
NCB16	5/10/2018	2:15	139.58
NCB16	5/10/2018	2:20	128.39
NCB16	5/10/2018	2:25	118.24
NCB16	5/10/2018	2:30	108.89
NCB16	5/10/2018	2:35	100.16
NCB16	5/10/2018	2:40	92.01
NCB16	5/10/2018	2:45	84.42
NCB16	5/10/2018	2:50	76.98
NCB16	5/10/2018	2:55	69.68
NCB16	5/10/2018	3:00	62.39

NCB Ponding Areas

NCB16	5/10/2018	3:05	55.11
NCB16	5/10/2018	3:10	47.85
NCB16	5/10/2018	3:15	40.60
NCB16	5/10/2018	3:20	33.36
NCB16	5/10/2018	3:25	26.15
NCB16	5/10/2018	3:30	19.02
NCB16	5/10/2018	3:35	12.64
NCB16	5/10/2018	3:40	8.72
NCB16	5/10/2018	3:45	6.12
NCB16	5/10/2018	3:50	4.20
NCB16	5/10/2018	3:55	2.80
NCB16	5/10/2018	4:00	1.78
NCB16	5/10/2018	4:05	1.05
NCB16	5/10/2018	4:10	0.59
NCB16	5/10/2018	4:15	0.41
NCB16	5/10/2018	4:20	0.29
NCB16	5/10/2018	4:25	0.23
NCB16	5/10/2018	4:30	0.18
NCB16	5/10/2018	4:35	0.13
NCB16	5/10/2018	4:40	0.10
NCB16	5/10/2018	4:45	0.06
NCB16	5/10/2018	4:50	0.04
NCB16	5/10/2018	4:55	0.02
NCB16	5/10/2018	5:00	0.01
NCB16	5/10/2018	5:05	0.00
NCB16	5/10/2018	5:10	0.00
NCB16	5/10/2018	5:15	0.00
NCB16	5/10/2018	5:20	0.00
NCB16	5/10/2018	5:25	0.00
NCB16	5/10/2018	5:30	0.00
NCB16	5/10/2018	5:35	0.00
NCB16	5/10/2018	5:40	0.00
NCB16	5/10/2018	5:45	0.00
NCB16	5/10/2018	5:50	0.00
NCB16	5/10/2018	5:55	0.00
NCB16	5/10/2018	6:00	0.00
NCB16	5/10/2018	6:05	0.00
NCB16	5/10/2018	6:10	0.00
NCB16	5/10/2018	6:15	0.00
NCB16	5/10/2018	6:20	0.00
NCB16	5/10/2018	6:25	0.00
NCB16	5/10/2018	6:30	0.00
NCB16	5/10/2018	6:35	0.00
NCB16	5/10/2018	6:40	0.00
NCB16	5/10/2018	6:45	0.00
NCB16	5/10/2018	6:50	0.00
NCB16	5/10/2018	6:55	0.00
NCB16	5/10/2018	7:00	0.00
NCB16	5/10/2018	7:05	0.00
NCB16	5/10/2018	7:10	0.00
NCB16	5/10/2018	7:15	0.00
NCB16	5/10/2018	7:20	0.00
NCB16	5/10/2018	7:25	0.00
NCB16	5/10/2018	7:30	0.00
NCB16	5/10/2018	7:35	0.00
NCB16	5/10/2018	7:40	0.00
NCB16	5/10/2018	7:45	0.00
NCB16	5/10/2018	7:50	0.00
NCB16	5/10/2018	7:55	0.00
NCB16	5/10/2018	8:00	0.00
NCB16	5/10/2018	8:05	0.00
NCB16	5/10/2018	8:10	0.00
NCB16	5/10/2018	8:15	0.00

NCB Ponding Areas

NCB16	5/10/2018	8:20	0.00
NCB16	5/10/2018	8:25	0.00
NCB16	5/10/2018	8:30	0.00
;			
NCB1	5/10/2018	0:00	0.00
NCB1	5/10/2018	0:05	0.00
NCB1	5/10/2018	0:10	0.00
NCB1	5/10/2018	0:15	0.04
NCB1	5/10/2018	0:20	0.49
NCB1	5/10/2018	0:25	11.44
NCB1	5/10/2018	0:30	82.55
NCB1	5/10/2018	0:35	222.29
NCB1	5/10/2018	0:40	383.79
NCB1	5/10/2018	0:45	525.02
NCB1	5/10/2018	0:50	626.70
NCB1	5/10/2018	0:55	684.85
NCB1	5/10/2018	1:00	708.05
NCB1	5/10/2018	1:05	702.31
NCB1	5/10/2018	1:10	675.30
NCB1	5/10/2018	1:15	646.01
NCB1	5/10/2018	1:20	610.53
NCB1	5/10/2018	1:25	568.06
NCB1	5/10/2018	1:30	522.32
NCB1	5/10/2018	1:35	481.12
NCB1	5/10/2018	1:40	443.69
NCB1	5/10/2018	1:45	409.34
NCB1	5/10/2018	1:50	378.04
NCB1	5/10/2018	1:55	348.21
NCB1	5/10/2018	2:00	319.65
NCB1	5/10/2018	2:05	291.84
NCB1	5/10/2018	2:10	264.75
NCB1	5/10/2018	2:15	238.13
NCB1	5/10/2018	2:20	214.07
NCB1	5/10/2018	2:25	195.77
NCB1	5/10/2018	2:30	180.51
NCB1	5/10/2018	2:35	166.95
NCB1	5/10/2018	2:40	154.64
NCB1	5/10/2018	2:45	143.30
NCB1	5/10/2018	2:50	132.67
NCB1	5/10/2018	2:55	122.76
NCB1	5/10/2018	3:00	113.46
NCB1	5/10/2018	3:05	104.32
NCB1	5/10/2018	3:10	95.30
NCB1	5/10/2018	3:15	86.29
NCB1	5/10/2018	3:20	77.30
NCB1	5/10/2018	3:25	68.31
NCB1	5/10/2018	3:30	59.34
NCB1	5/10/2018	3:35	50.37
NCB1	5/10/2018	3:40	41.42
NCB1	5/10/2018	3:45	32.47
NCB1	5/10/2018	3:50	23.60
NCB1	5/10/2018	3:55	15.51
NCB1	5/10/2018	4:00	10.58
NCB1	5/10/2018	4:05	7.32
NCB1	5/10/2018	4:10	4.94
NCB1	5/10/2018	4:15	3.22
NCB1	5/10/2018	4:20	1.97
NCB1	5/10/2018	4:25	1.08
NCB1	5/10/2018	4:30	0.54
NCB1	5/10/2018	4:35	0.34
NCB1	5/10/2018	4:40	0.22
NCB1	5/10/2018	4:45	0.18
NCB1	5/10/2018	4:50	0.14

NCB Ponding Areas

NCB1	5/10/2018	4:55	0.10
NCB1	5/10/2018	5:00	0.07
NCB1	5/10/2018	5:05	0.05
NCB1	5/10/2018	5:10	0.03
NCB1	5/10/2018	5:15	0.01
NCB1	5/10/2018	5:20	0.00
NCB1	5/10/2018	5:25	0.00
NCB1	5/10/2018	5:30	0.00
NCB1	5/10/2018	5:35	0.00
NCB1	5/10/2018	5:40	0.00
NCB1	5/10/2018	5:45	0.00
NCB1	5/10/2018	5:50	0.00
NCB1	5/10/2018	5:55	0.00
NCB1	5/10/2018	6:00	0.00
NCB1	5/10/2018	6:05	0.00
NCB1	5/10/2018	6:10	0.00
NCB1	5/10/2018	6:15	0.00
NCB1	5/10/2018	6:20	0.00
NCB1	5/10/2018	6:25	0.00
NCB1	5/10/2018	6:30	0.00
NCB1	5/10/2018	6:35	0.00
NCB1	5/10/2018	6:40	0.00
NCB1	5/10/2018	6:45	0.00
NCB1	5/10/2018	6:50	0.00
NCB1	5/10/2018	6:55	0.00
NCB1	5/10/2018	7:00	0.00
NCB1	5/10/2018	7:05	0.00
NCB1	5/10/2018	7:10	0.00
NCB1	5/10/2018	7:15	0.00
NCB1	5/10/2018	7:20	0.00
NCB1	5/10/2018	7:25	0.00
NCB1	5/10/2018	7:30	0.00
NCB1	5/10/2018	7:35	0.00
NCB1	5/10/2018	7:40	0.00
NCB1	5/10/2018	7:45	0.00
NCB1	5/10/2018	7:50	0.00
NCB1	5/10/2018	7:55	0.00
NCB1	5/10/2018	8:00	0.00
NCB1	5/10/2018	8:05	0.00
NCB1	5/10/2018	8:10	0.00
NCB1	5/10/2018	8:15	0.00
NCB1	5/10/2018	8:20	0.00
NCB1	5/10/2018	8:25	0.00
NCB1	5/10/2018	8:30	0.00
;			
NCB18	5/10/2018	0:00	0.00
NCB18	5/10/2018	0:05	0.00
NCB18	5/10/2018	0:10	0.04
NCB18	5/10/2018	0:15	0.52
NCB18	5/10/2018	0:20	2.58
NCB18	5/10/2018	0:25	12.42
NCB18	5/10/2018	0:30	44.61
NCB18	5/10/2018	0:35	83.67
NCB18	5/10/2018	0:40	108.83
NCB18	5/10/2018	0:45	121.95
NCB18	5/10/2018	0:50	128.41
NCB18	5/10/2018	0:55	129.73
NCB18	5/10/2018	1:00	127.61
NCB18	5/10/2018	1:05	124.88
NCB18	5/10/2018	1:10	120.94
NCB18	5/10/2018	1:15	115.72
NCB18	5/10/2018	1:20	120.98
NCB18	5/10/2018	1:25	180.80

NCB Ponding Areas

NCB18	5/10/2018	1:30	272.72
NCB18	5/10/2018	1:35	340.44
NCB18	5/10/2018	1:40	372.41
NCB18	5/10/2018	1:45	381.18
NCB18	5/10/2018	1:50	372.24
NCB18	5/10/2018	1:55	356.56
NCB18	5/10/2018	2:00	341.76
NCB18	5/10/2018	2:05	323.30
NCB18	5/10/2018	2:10	313.15
NCB18	5/10/2018	2:15	373.00
NCB18	5/10/2018	2:20	502.73
NCB18	5/10/2018	2:25	638.04
NCB18	5/10/2018	2:30	738.95
NCB18	5/10/2018	2:35	796.43
NCB18	5/10/2018	2:40	818.68
NCB18	5/10/2018	2:45	811.31
NCB18	5/10/2018	2:50	787.95
NCB18	5/10/2018	2:55	763.89
NCB18	5/10/2018	3:00	732.46
NCB18	5/10/2018	3:05	692.18
NCB18	5/10/2018	3:10	646.50
NCB18	5/10/2018	3:15	602.59
NCB18	5/10/2018	3:20	559.26
NCB18	5/10/2018	3:25	517.85
NCB18	5/10/2018	3:30	479.86
NCB18	5/10/2018	3:35	443.43
NCB18	5/10/2018	3:40	408.16
NCB18	5/10/2018	3:45	373.69
NCB18	5/10/2018	3:50	339.94
NCB18	5/10/2018	3:55	307.56
NCB18	5/10/2018	4:00	280.54
NCB18	5/10/2018	4:05	257.01
NCB18	5/10/2018	4:10	236.88
NCB18	5/10/2018	4:15	219.90
NCB18	5/10/2018	4:20	204.85
NCB18	5/10/2018	4:25	191.13
NCB18	5/10/2018	4:30	178.51
NCB18	5/10/2018	4:35	166.86
NCB18	5/10/2018	4:40	155.70
NCB18	5/10/2018	4:45	144.99
NCB18	5/10/2018	4:50	134.48
NCB18	5/10/2018	4:55	124.06
NCB18	5/10/2018	5:00	113.70
NCB18	5/10/2018	5:05	103.37
NCB18	5/10/2018	5:10	93.06
NCB18	5/10/2018	5:15	82.78
NCB18	5/10/2018	5:20	72.60
NCB18	5/10/2018	5:25	63.18
NCB18	5/10/2018	5:30	56.24
NCB18	5/10/2018	5:35	50.66
NCB18	5/10/2018	5:40	46.03
NCB18	5/10/2018	5:45	42.57
NCB18	5/10/2018	5:50	39.83
NCB18	5/10/2018	5:55	37.57
NCB18	5/10/2018	6:00	35.74
NCB18	5/10/2018	6:05	34.27
NCB18	5/10/2018	6:10	32.95
NCB18	5/10/2018	6:15	31.77
NCB18	5/10/2018	6:20	30.67
NCB18	5/10/2018	6:25	29.59
NCB18	5/10/2018	6:30	28.53
NCB18	5/10/2018	6:35	27.48
NCB18	5/10/2018	6:40	26.44

NCB Ponding Areas

NCB18	5/10/2018	6:45	25.41
NCB18	5/10/2018	6:50	24.39
NCB18	5/10/2018	6:55	23.37
NCB18	5/10/2018	7:00	22.36
NCB18	5/10/2018	7:05	21.36
NCB18	5/10/2018	7:10	20.36
NCB18	5/10/2018	7:15	19.36
NCB18	5/10/2018	7:20	18.35
NCB18	5/10/2018	7:25	17.35
NCB18	5/10/2018	7:30	16.35
NCB18	5/10/2018	7:35	15.35
NCB18	5/10/2018	7:40	14.35
NCB18	5/10/2018	7:45	13.35
NCB18	5/10/2018	7:50	12.34
NCB18	5/10/2018	7:55	11.34
NCB18	5/10/2018	8:00	10.34
NCB18	5/10/2018	8:05	9.34
NCB18	5/10/2018	8:10	8.34
NCB18	5/10/2018	8:15	7.34
NCB18	5/10/2018	8:20	6.34
NCB18	5/10/2018	8:25	5.33
NCB18	5/10/2018	8:30	4.33
NCB18	5/10/2018	8:35	2.62
NCB18	5/10/2018	8:40	1.86
NCB18	5/10/2018	8:45	1.22
NCB18	5/10/2018	8:50	0.83
NCB18	5/10/2018	8:55	0.57
NCB18	5/10/2018	9:00	0.38
NCB18	5/10/2018	9:05	0.24
NCB18	5/10/2018	9:10	0.15
NCB18	5/10/2018	9:15	0.08
NCB18	5/10/2018	9:20	0.05
NCB18	5/10/2018	9:25	0.03
NCB18	5/10/2018	9:30	0.03
NCB18	5/10/2018	9:35	0.02
NCB18	5/10/2018	9:40	0.02
NCB18	5/10/2018	9:45	0.01
NCB18	5/10/2018	9:50	0.01
NCB18	5/10/2018	9:55	0.01
NCB18	5/10/2018	10:00	0.00
NCB18	5/10/2018	10:05	0.00
NCB18	5/10/2018	10:10	0.00
NCB18	5/10/2018	10:15	0.00
NCB18	5/10/2018	10:20	0.00
NCB18	5/10/2018	10:25	0.00
NCB18	5/10/2018	10:30	0.00
NCB18	5/10/2018	10:35	0.00
NCB18	5/10/2018	10:40	0.00
NCB18	5/10/2018	10:45	0.00
NCB18	5/10/2018	10:50	0.00
NCB18	5/10/2018	10:55	0.00
NCB18	5/10/2018	11:00	0.00
NCB18	5/10/2018	11:05	0.00
NCB18	5/10/2018	11:10	0.00
NCB18	5/10/2018	11:15	0.00
NCB18	5/10/2018	11:20	0.00
NCB18	5/10/2018	11:25	0.00
NCB18	5/10/2018	11:30	0.00
NCB18	5/10/2018	11:35	0.00
NCB18	5/10/2018	11:40	0.00
NCB18	5/10/2018	11:45	0.00
NCB18	5/10/2018	11:50	0.00
NCB18	5/10/2018	11:55	0.00

NCB Ponding Areas

NCB18	5/10/2018	12:00	0.00
NCB18	5/10/2018	12:05	0.00
NCB18	5/10/2018	12:10	0.00
NCB18	5/10/2018	12:15	0.00
NCB18	5/10/2018	12:20	0.00
NCB18	5/10/2018	12:25	0.00
NCB18	5/10/2018	12:30	0.00
NCB18	5/10/2018	12:35	0.00
NCB18	5/10/2018	12:40	0.00
NCB18	5/10/2018	12:45	0.00
NCB18	5/10/2018	12:50	0.00
NCB18	5/10/2018	12:55	0.00
NCB18	5/10/2018	13:00	0.00
NCB18	5/10/2018	13:05	0.00
NCB18	5/10/2018	13:10	0.00
NCB18	5/10/2018	13:15	0.00
NCB18	5/10/2018	13:20	0.00
NCB18	5/10/2018	13:25	0.00
NCB18	5/10/2018	13:30	0.00
NCB18	5/10/2018	13:35	0.00
NCB18	5/10/2018	13:40	0.00
NCB18	5/10/2018	13:45	0.00
NCB18	5/10/2018	13:50	0.00
NCB18	5/10/2018	13:55	0.00
NCB18	5/10/2018	14:00	0.00
NCB18	5/10/2018	14:05	0.00
NCB18	5/10/2018	14:10	0.00
NCB18	5/10/2018	14:15	0.00
NCB18	5/10/2018	14:20	0.00
NCB18	5/10/2018	14:25	0.00
NCB18	5/10/2018	14:30	0.00
NCB18	5/10/2018	14:35	0.00
NCB18	5/10/2018	14:40	0.00
NCB18	5/10/2018	14:45	0.00
NCB18	5/10/2018	14:50	0.00
NCB18	5/10/2018	14:55	0.00
NCB18	5/10/2018	15:00	0.00

;			
NCB17	5/10/2018	0:00	0.00
NCB17	5/10/2018	0:05	0.00
NCB17	5/10/2018	0:10	0.01
NCB17	5/10/2018	0:15	0.12
NCB17	5/10/2018	0:20	0.91
NCB17	5/10/2018	0:25	13.30
NCB17	5/10/2018	0:30	80.73
NCB17	5/10/2018	0:35	179.63
NCB17	5/10/2018	0:40	253.56
NCB17	5/10/2018	0:45	291.18
NCB17	5/10/2018	0:50	305.23
NCB17	5/10/2018	0:55	301.36
NCB17	5/10/2018	1:00	290.58
NCB17	5/10/2018	1:05	280.57
NCB17	5/10/2018	1:10	267.01
NCB17	5/10/2018	1:15	261.90
NCB17	5/10/2018	1:20	326.60
NCB17	5/10/2018	1:25	460.46
NCB17	5/10/2018	1:30	599.08
NCB17	5/10/2018	1:35	702.85
NCB17	5/10/2018	1:40	762.91
NCB17	5/10/2018	1:45	787.51
NCB17	5/10/2018	1:50	782.33
NCB17	5/10/2018	1:55	761.02
NCB17	5/10/2018	2:00	738.88

NCB Ponding Areas

NCB17	5/10/2018	2:05	709.26
NCB17	5/10/2018	2:10	670.77
NCB17	5/10/2018	2:15	626.85
NCB17	5/10/2018	2:20	584.68
NCB17	5/10/2018	2:25	543.09
NCB17	5/10/2018	2:30	503.41
NCB17	5/10/2018	2:35	467.13
NCB17	5/10/2018	2:40	432.41
NCB17	5/10/2018	2:45	398.84
NCB17	5/10/2018	2:50	366.05
NCB17	5/10/2018	2:55	333.95
NCB17	5/10/2018	3:00	303.15
NCB17	5/10/2018	3:05	277.42
NCB17	5/10/2018	3:10	254.72
NCB17	5/10/2018	3:15	235.17
NCB17	5/10/2018	3:20	218.63
NCB17	5/10/2018	3:25	203.92
NCB17	5/10/2018	3:30	190.45
NCB17	5/10/2018	3:35	178.02
NCB17	5/10/2018	3:40	166.50
NCB17	5/10/2018	3:45	155.42
NCB17	5/10/2018	3:50	144.77
NCB17	5/10/2018	3:55	134.31
NCB17	5/10/2018	4:00	123.93
NCB17	5/10/2018	4:05	113.60
NCB17	5/10/2018	4:10	103.30
NCB17	5/10/2018	4:15	93.01
NCB17	5/10/2018	4:20	82.75
NCB17	5/10/2018	4:25	72.59
NCB17	5/10/2018	4:30	63.18
NCB17	5/10/2018	4:35	56.24
NCB17	5/10/2018	4:40	50.66
NCB17	5/10/2018	4:45	46.03
NCB17	5/10/2018	4:50	42.57
NCB17	5/10/2018	4:55	39.83
NCB17	5/10/2018	5:00	37.57
NCB17	5/10/2018	5:05	35.74
NCB17	5/10/2018	5:10	34.27
NCB17	5/10/2018	5:15	32.95
NCB17	5/10/2018	5:20	31.77
NCB17	5/10/2018	5:25	30.67
NCB17	5/10/2018	5:30	29.59
NCB17	5/10/2018	5:35	28.53
NCB17	5/10/2018	5:40	27.48
NCB17	5/10/2018	5:45	26.44
NCB17	5/10/2018	5:50	25.41
NCB17	5/10/2018	5:55	24.39
NCB17	5/10/2018	6:00	23.37
NCB17	5/10/2018	6:05	22.36
NCB17	5/10/2018	6:10	21.36
NCB17	5/10/2018	6:15	20.36
NCB17	5/10/2018	6:20	19.36
NCB17	5/10/2018	6:25	18.35
NCB17	5/10/2018	6:30	17.35
NCB17	5/10/2018	6:35	16.35
NCB17	5/10/2018	6:40	15.35
NCB17	5/10/2018	6:45	14.35
NCB17	5/10/2018	6:50	13.35
NCB17	5/10/2018	6:55	12.34
NCB17	5/10/2018	7:00	11.34
NCB17	5/10/2018	7:05	10.34
NCB17	5/10/2018	7:10	9.34
NCB17	5/10/2018	7:15	8.34

NCB Ponding Areas

NCB17	5/10/2018	7:20	7.34
NCB17	5/10/2018	7:25	6.34
NCB17	5/10/2018	7:30	5.33
NCB17	5/10/2018	7:35	4.33
NCB17	5/10/2018	7:40	3.33
NCB17	5/10/2018	7:45	2.37
NCB17	5/10/2018	7:50	1.59
NCB17	5/10/2018	7:55	1.11
NCB17	5/10/2018	8:00	0.77
NCB17	5/10/2018	8:05	0.53
NCB17	5/10/2018	8:10	0.35
NCB17	5/10/2018	8:15	0.22
NCB17	5/10/2018	8:20	0.13
NCB17	5/10/2018	8:25	0.08
NCB17	5/10/2018	8:30	0.05
NCB17	5/10/2018	8:35	0.03
NCB17	5/10/2018	8:40	0.02
NCB17	5/10/2018	8:45	0.02
NCB17	5/10/2018	8:50	0.01
NCB17	5/10/2018	8:55	0.01
NCB17	5/10/2018	9:00	0.01
NCB17	5/10/2018	9:05	0.00
NCB17	5/10/2018	9:10	0.00
NCB17	5/10/2018	9:15	0.00
NCB17	5/10/2018	9:20	0.00
NCB17	5/10/2018	9:25	0.00
NCB17	5/10/2018	9:30	0.00
NCB17	5/10/2018	9:35	0.00
NCB17	5/10/2018	9:40	0.00
NCB17	5/10/2018	9:45	0.00
NCB17	5/10/2018	9:50	0.00
NCB17	5/10/2018	9:55	0.00
NCB17	5/10/2018	10:00	0.00
NCB17	5/10/2018	10:05	0.00
NCB17	5/10/2018	10:10	0.00
NCB17	5/10/2018	10:15	0.00
NCB17	5/10/2018	10:20	0.00
NCB17	5/10/2018	10:25	0.00
NCB17	5/10/2018	10:30	0.00
NCB17	5/10/2018	10:35	0.00
NCB17	5/10/2018	10:40	0.00
NCB17	5/10/2018	10:45	0.00
NCB17	5/10/2018	10:50	0.00
NCB17	5/10/2018	10:55	0.00
NCB17	5/10/2018	11:00	0.00
NCB17	5/10/2018	11:05	0.00
NCB17	5/10/2018	11:10	0.00
NCB17	5/10/2018	11:15	0.00
NCB17	5/10/2018	11:20	0.00
NCB17	5/10/2018	11:25	0.00
NCB17	5/10/2018	11:30	0.00
NCB17	5/10/2018	11:35	0.00
NCB17	5/10/2018	11:40	0.00
NCB17	5/10/2018	11:45	0.00
NCB17	5/10/2018	11:50	0.00
NCB17	5/10/2018	11:55	0.00
NCB17	5/10/2018	12:00	0.00
NCB17	5/10/2018	12:05	0.00
NCB17	5/10/2018	12:10	0.00
NCB17	5/10/2018	12:15	0.00
NCB17	5/10/2018	12:20	0.00
NCB17	5/10/2018	12:25	0.00
NCB17	5/10/2018	12:30	0.00

NCB Ponding Areas

NCB17	5/10/2018	12:35	0.00
NCB17	5/10/2018	12:40	0.00
NCB17	5/10/2018	12:45	0.00
NCB17	5/10/2018	12:50	0.00
NCB17	5/10/2018	12:55	0.00
NCB17	5/10/2018	13:00	0.00
NCB17	5/10/2018	13:05	0.00
NCB17	5/10/2018	13:10	0.00
NCB17	5/10/2018	13:15	0.00
NCB17	5/10/2018	13:20	0.00
NCB17	5/10/2018	13:25	0.00
NCB17	5/10/2018	13:30	0.00
NCB17	5/10/2018	13:35	0.00
NCB17	5/10/2018	13:40	0.00
NCB17	5/10/2018	13:45	0.00
NCB17	5/10/2018	13:50	0.00
NCB17	5/10/2018	13:55	0.00
NCB17	5/10/2018	14:00	0.00
NCB17	5/10/2018	14:05	0.00
NCB17	5/10/2018	14:10	0.00
NCB17	5/10/2018	14:15	0.00
NCB17	5/10/2018	14:20	0.00
NCB17	5/10/2018	14:25	0.00
NCB17	5/10/2018	14:30	0.00
NCB17	5/10/2018	14:35	0.00
NCB17	5/10/2018	14:40	0.00
NCB17	5/10/2018	14:45	0.00
NCB17	5/10/2018	14:50	0.00
NCB17	5/10/2018	14:55	0.00
NCB17	5/10/2018	15:00	0.00

;			
NCB9	5/10/2018	0:00	0.00
NCB9	5/10/2018	0:05	0.00
NCB9	5/10/2018	0:10	0.00
NCB9	5/10/2018	0:15	0.03
NCB9	5/10/2018	0:20	0.24
NCB9	5/10/2018	0:25	3.87
NCB9	5/10/2018	0:30	25.54
NCB9	5/10/2018	0:35	67.02
NCB9	5/10/2018	0:40	112.42
NCB9	5/10/2018	0:45	149.88
NCB9	5/10/2018	0:50	174.89
NCB9	5/10/2018	0:55	189.83
NCB9	5/10/2018	1:00	198.37
NCB9	5/10/2018	1:05	202.37
NCB9	5/10/2018	1:10	201.40
NCB9	5/10/2018	1:15	195.31
NCB9	5/10/2018	1:20	186.90
NCB9	5/10/2018	1:25	177.87
NCB9	5/10/2018	1:30	168.33
NCB9	5/10/2018	1:35	158.50
NCB9	5/10/2018	1:40	148.62
NCB9	5/10/2018	1:45	138.90
NCB9	5/10/2018	1:50	130.08
NCB9	5/10/2018	1:55	122.67
NCB9	5/10/2018	2:00	116.04
NCB9	5/10/2018	2:05	109.79
NCB9	5/10/2018	2:10	103.76
NCB9	5/10/2018	2:15	97.86
NCB9	5/10/2018	2:20	92.08
NCB9	5/10/2018	2:25	86.45
NCB9	5/10/2018	2:30	80.93
NCB9	5/10/2018	2:35	75.43

NCB Ponding Areas

NCB9	5/10/2018	2:40	69.96
NCB9	5/10/2018	2:45	64.50
NCB9	5/10/2018	2:50	59.20
NCB9	5/10/2018	2:55	54.67
NCB9	5/10/2018	3:00	51.14
NCB9	5/10/2018	3:05	48.15
NCB9	5/10/2018	3:10	45.48
NCB9	5/10/2018	3:15	43.03
NCB9	5/10/2018	3:20	40.77
NCB9	5/10/2018	3:25	38.65
NCB9	5/10/2018	3:30	36.67
NCB9	5/10/2018	3:35	34.78
NCB9	5/10/2018	3:40	32.93
NCB9	5/10/2018	3:45	31.10
NCB9	5/10/2018	3:50	29.26
NCB9	5/10/2018	3:55	27.43
NCB9	5/10/2018	4:00	25.61
NCB9	5/10/2018	4:05	23.78
NCB9	5/10/2018	4:10	21.96
NCB9	5/10/2018	4:15	20.15
NCB9	5/10/2018	4:20	18.33
NCB9	5/10/2018	4:25	16.52
NCB9	5/10/2018	4:30	14.71
NCB9	5/10/2018	4:35	12.90
NCB9	5/10/2018	4:40	11.10
NCB9	5/10/2018	4:45	9.29
NCB9	5/10/2018	4:50	7.48
NCB9	5/10/2018	4:55	5.67
NCB9	5/10/2018	5:00	3.95
NCB9	5/10/2018	5:05	2.67
NCB9	5/10/2018	5:10	1.85
NCB9	5/10/2018	5:15	1.28
NCB9	5/10/2018	5:20	0.87
NCB9	5/10/2018	5:25	0.56
NCB9	5/10/2018	5:30	0.34
NCB9	5/10/2018	5:35	0.20
NCB9	5/10/2018	5:40	0.12
NCB9	5/10/2018	5:45	0.08
NCB9	5/10/2018	5:50	0.06
NCB9	5/10/2018	5:55	0.05
NCB9	5/10/2018	6:00	0.04
NCB9	5/10/2018	6:05	0.03
NCB9	5/10/2018	6:10	0.02
NCB9	5/10/2018	6:15	0.01
NCB9	5/10/2018	6:20	0.01
NCB9	5/10/2018	6:25	0.00
NCB9	5/10/2018	6:30	0.00
NCB9	5/10/2018	6:35	0.00
NCB9	5/10/2018	6:40	0.00
NCB9	5/10/2018	6:45	0.00
NCB9	5/10/2018	6:50	0.00
NCB9	5/10/2018	6:55	0.00
NCB9	5/10/2018	7:00	0.00
NCB9	5/10/2018	7:05	0.00
NCB9	5/10/2018	7:10	0.00
NCB9	5/10/2018	7:15	0.00
NCB9	5/10/2018	7:20	0.00
NCB9	5/10/2018	7:25	0.00
NCB9	5/10/2018	7:30	0.00
NCB9	5/10/2018	7:35	0.00
NCB9	5/10/2018	7:40	0.00
NCB9	5/10/2018	7:45	0.00
NCB9	5/10/2018	7:50	0.00

NCB Ponding Areas

NCB9	5/10/2018	7:55	0.00
NCB9	5/10/2018	8:00	0.00
NCB9	5/10/2018	8:05	0.00
NCB9	5/10/2018	8:10	0.00
NCB9	5/10/2018	8:15	0.00
NCB9	5/10/2018	8:20	0.00
NCB9	5/10/2018	8:25	0.00
NCB9	5/10/2018	8:30	0.00
;			
NCB15	5/10/2018	0:00	0.00
NCB15	5/10/2018	0:05	0.00
NCB15	5/10/2018	0:10	0.02
NCB15	5/10/2018	0:15	0.14
NCB15	5/10/2018	0:20	1.89
NCB15	5/10/2018	0:25	12.28
NCB15	5/10/2018	0:30	34.06
NCB15	5/10/2018	0:35	62.79
NCB15	5/10/2018	0:40	91.76
NCB15	5/10/2018	0:45	117.21
NCB15	5/10/2018	0:50	137.06
NCB15	5/10/2018	0:55	150.67
NCB15	5/10/2018	1:00	159.99
NCB15	5/10/2018	1:05	166.23
NCB15	5/10/2018	1:10	169.50
NCB15	5/10/2018	1:15	169.82
NCB15	5/10/2018	1:20	167.43
NCB15	5/10/2018	1:25	162.62
NCB15	5/10/2018	1:30	155.92
NCB15	5/10/2018	1:35	148.72
NCB15	5/10/2018	1:40	142.42
NCB15	5/10/2018	1:45	136.53
NCB15	5/10/2018	1:50	130.80
NCB15	5/10/2018	1:55	125.18
NCB15	5/10/2018	2:00	119.65
NCB15	5/10/2018	2:05	114.17
NCB15	5/10/2018	2:10	108.80
NCB15	5/10/2018	2:15	103.64
NCB15	5/10/2018	2:20	99.02
NCB15	5/10/2018	2:25	94.99
NCB15	5/10/2018	2:30	91.27
NCB15	5/10/2018	2:35	87.74
NCB15	5/10/2018	2:40	84.34
NCB15	5/10/2018	2:45	81.04
NCB15	5/10/2018	2:50	77.84
NCB15	5/10/2018	2:55	74.72
NCB15	5/10/2018	3:00	71.66
NCB15	5/10/2018	3:05	68.62
NCB15	5/10/2018	3:10	65.60
NCB15	5/10/2018	3:15	62.58
NCB15	5/10/2018	3:20	59.56
NCB15	5/10/2018	3:25	56.54
NCB15	5/10/2018	3:30	53.53
NCB15	5/10/2018	3:35	50.52
NCB15	5/10/2018	3:40	47.51
NCB15	5/10/2018	3:45	44.54
NCB15	5/10/2018	3:50	41.82
NCB15	5/10/2018	3:55	39.76
NCB15	5/10/2018	4:00	38.05
NCB15	5/10/2018	4:05	36.53
NCB15	5/10/2018	4:10	35.14
NCB15	5/10/2018	4:15	33.86
NCB15	5/10/2018	4:20	32.66
NCB15	5/10/2018	4:25	31.54

NCB Ponding Areas

NCB15	5/10/2018	4:30	30.49
NCB15	5/10/2018	4:35	29.45
NCB15	5/10/2018	4:40	28.44
NCB15	5/10/2018	4:45	27.42
NCB15	5/10/2018	4:50	26.40
NCB15	5/10/2018	4:55	25.39
NCB15	5/10/2018	5:00	24.38
NCB15	5/10/2018	5:05	23.37
NCB15	5/10/2018	5:10	22.36
NCB15	5/10/2018	5:15	21.36
NCB15	5/10/2018	5:20	20.36
NCB15	5/10/2018	5:25	19.36
NCB15	5/10/2018	5:30	18.35
NCB15	5/10/2018	5:35	17.35
NCB15	5/10/2018	5:40	16.35
NCB15	5/10/2018	5:45	15.35
NCB15	5/10/2018	5:50	14.35
NCB15	5/10/2018	5:55	13.35
NCB15	5/10/2018	6:00	12.34
NCB15	5/10/2018	6:05	11.34
NCB15	5/10/2018	6:10	10.34
NCB15	5/10/2018	6:15	9.34
NCB15	5/10/2018	6:20	8.34
NCB15	5/10/2018	6:25	7.34
NCB15	5/10/2018	6:30	6.34
NCB15	5/10/2018	6:35	5.33
NCB15	5/10/2018	6:40	4.33
NCB15	5/10/2018	6:45	3.33
NCB15	5/10/2018	6:50	2.37
NCB15	5/10/2018	6:55	1.59
NCB15	5/10/2018	7:00	1.11
NCB15	5/10/2018	7:05	0.77
NCB15	5/10/2018	7:10	0.53
NCB15	5/10/2018	7:15	0.35
NCB15	5/10/2018	7:20	0.22
NCB15	5/10/2018	7:25	0.13
NCB15	5/10/2018	7:30	0.08
NCB15	5/10/2018	7:35	0.05
NCB15	5/10/2018	7:40	0.04
NCB15	5/10/2018	7:45	0.03
NCB15	5/10/2018	7:50	0.02
NCB15	5/10/2018	7:55	0.02
NCB15	5/10/2018	8:00	0.01
NCB15	5/10/2018	8:05	0.01
NCB15	5/10/2018	8:10	0.00
NCB15	5/10/2018	8:15	0.00
NCB15	5/10/2018	8:20	0.00
NCB15	5/10/2018	8:25	0.00
NCB15	5/10/2018	8:30	0.00
;			
NCB20	5/10/2018	0:00	0.00
NCB20	5/10/2018	0:05	0.00
NCB20	5/10/2018	0:10	0.04
NCB20	5/10/2018	0:15	0.51
NCB20	5/10/2018	0:20	2.59
NCB20	5/10/2018	0:25	12.02
NCB20	5/10/2018	0:30	43.67
NCB20	5/10/2018	0:35	90.99
NCB20	5/10/2018	0:40	131.65
NCB20	5/10/2018	0:45	157.29
NCB20	5/10/2018	0:50	172.10
NCB20	5/10/2018	0:55	180.14
NCB20	5/10/2018	1:00	183.26

NCB Ponding Areas

NCB20	5/10/2018	1:05	182.90
NCB20	5/10/2018	1:10	179.14
NCB20	5/10/2018	1:15	176.75
NCB20	5/10/2018	1:20	182.35
NCB20	5/10/2018	1:25	229.15
NCB20	5/10/2018	1:30	406.92
NCB20	5/10/2018	1:35	600.87
NCB20	5/10/2018	1:40	701.78
NCB20	5/10/2018	1:45	733.09
NCB20	5/10/2018	1:50	722.30
NCB20	5/10/2018	1:55	697.94
NCB20	5/10/2018	2:00	666.74
NCB20	5/10/2018	2:05	635.84
NCB20	5/10/2018	2:10	599.29
NCB20	5/10/2018	2:15	555.81
NCB20	5/10/2018	2:20	519.39
NCB20	5/10/2018	2:25	536.24
NCB20	5/10/2018	2:30	587.54
NCB20	5/10/2018	2:35	617.65
NCB20	5/10/2018	2:40	620.41
NCB20	5/10/2018	2:45	605.63
NCB20	5/10/2018	2:50	576.40
NCB20	5/10/2018	2:55	542.66
NCB20	5/10/2018	3:00	511.36
NCB20	5/10/2018	3:05	476.11
NCB20	5/10/2018	3:10	449.10
NCB20	5/10/2018	3:15	492.99
NCB20	5/10/2018	3:20	607.32
NCB20	5/10/2018	3:25	727.93
NCB20	5/10/2018	3:30	814.57
NCB20	5/10/2018	3:35	858.81
NCB20	5/10/2018	3:40	870.73
NCB20	5/10/2018	3:45	855.67
NCB20	5/10/2018	3:50	826.06
NCB20	5/10/2018	3:55	796.72
NCB20	5/10/2018	4:00	760.75
NCB20	5/10/2018	4:05	716.52
NCB20	5/10/2018	4:10	667.43
NCB20	5/10/2018	4:15	620.58
NCB20	5/10/2018	4:20	574.65
NCB20	5/10/2018	4:25	530.84
NCB20	5/10/2018	4:30	490.57
NCB20	5/10/2018	4:35	451.93
NCB20	5/10/2018	4:40	414.55
NCB20	5/10/2018	4:45	378.22
NCB20	5/10/2018	4:50	343.21
NCB20	5/10/2018	4:55	309.96
NCB20	5/10/2018	5:00	282.29
NCB20	5/10/2018	5:05	258.27
NCB20	5/10/2018	5:10	237.80
NCB20	5/10/2018	5:15	220.56
NCB20	5/10/2018	5:20	205.34
NCB20	5/10/2018	5:25	191.50
NCB20	5/10/2018	5:30	178.80
NCB20	5/10/2018	5:35	167.08
NCB20	5/10/2018	5:40	155.87
NCB20	5/10/2018	5:45	145.12
NCB20	5/10/2018	5:50	134.57
NCB20	5/10/2018	5:55	124.13
NCB20	5/10/2018	6:00	113.74
NCB20	5/10/2018	6:05	103.38
NCB20	5/10/2018	6:10	93.06
NCB20	5/10/2018	6:15	82.78

NCB Ponding Areas

NCB20	5/10/2018	6:20	72.60
NCB20	5/10/2018	6:25	63.18
NCB20	5/10/2018	6:30	56.24
NCB20	5/10/2018	6:35	50.66
NCB20	5/10/2018	6:40	46.03
NCB20	5/10/2018	6:45	42.57
NCB20	5/10/2018	6:50	39.83
NCB20	5/10/2018	6:55	37.57
NCB20	5/10/2018	7:00	35.74
NCB20	5/10/2018	7:05	34.27
NCB20	5/10/2018	7:10	32.95
NCB20	5/10/2018	7:15	31.77
NCB20	5/10/2018	7:20	30.67
NCB20	5/10/2018	7:25	29.59
NCB20	5/10/2018	7:30	28.53
NCB20	5/10/2018	7:35	27.48
NCB20	5/10/2018	7:40	26.44
NCB20	5/10/2018	7:45	25.41
NCB20	5/10/2018	7:50	24.39
NCB20	5/10/2018	7:55	23.37
NCB20	5/10/2018	8:00	22.36
NCB20	5/10/2018	8:05	21.36
NCB20	5/10/2018	8:10	20.36
NCB20	5/10/2018	8:15	19.36
NCB20	5/10/2018	8:20	18.35
NCB20	5/10/2018	8:25	17.35
NCB20	5/10/2018	8:30	16.35
NCB20	5/10/2018	8:35	15.34934974
NCB20	5/10/2018	8:40	14.34785368
NCB20	5/10/2018	8:45	13.34635761
NCB20	5/10/2018	8:50	12.34486154
NCB20	5/10/2018	8:55	11.34336548
NCB20	5/10/2018	9:00	10.34186941
NCB20	5/10/2018	9:05	9.340373347
NCB20	5/10/2018	9:10	8.338877281
NCB20	5/10/2018	9:15	7.337381215
NCB20	5/10/2018	9:20	6.335885149
NCB20	5/10/2018	9:25	5.334414215
NCB20	5/10/2018	9:30	4.333268052
NCB20	5/10/2018	9:35	3.334322444
NCB20	5/10/2018	9:40	2.369187555
NCB20	5/10/2018	9:45	1.593007579
NCB20	5/10/2018	9:50	1.106446673
NCB20	5/10/2018	9:55	0.773545312
NCB20	5/10/2018	10:00	0.529221991
NCB20	5/10/2018	10:05	0.350242331
NCB20	5/10/2018	10:10	0.219837611
NCB20	5/10/2018	10:15	0.129031129
NCB20	5/10/2018	10:20	0.077955629
NCB20	5/10/2018	10:25	0.054460032
NCB20	5/10/2018	10:30	0.040180433
NCB20	5/10/2018	10:35	0.03183643
NCB20	5/10/2018	10:40	0.024461431
NCB20	5/10/2018	10:45	0.018056087
NCB20	5/10/2018	10:50	0.01262078
NCB20	5/10/2018	10:55	0.008155729
NCB20	5/10/2018	11:00	0.004661065
NCB20	5/10/2018	11:05	0.002136862
NCB20	5/10/2018	11:10	0.000583166
NCB20	5/10/2018	11:15	0
NCB20	5/10/2018	11:20	0
NCB20	5/10/2018	11:25	0
NCB20	5/10/2018	11:30	0

NCB Ponding Areas

NCB20	5/10/2018	11:35	0
NCB20	5/10/2018	11:40	0
NCB20	5/10/2018	11:45	0
NCB20	5/10/2018	11:50	0
NCB20	5/10/2018	11:55	0
NCB20	5/10/2018	12:00	0
NCB20	5/10/2018	12:05	0
NCB20	5/10/2018	12:10	0
NCB20	5/10/2018	12:15	0
NCB20	5/10/2018	12:20	0
NCB20	5/10/2018	12:25	0
NCB20	5/10/2018	12:30	0
NCB20	5/10/2018	12:35	0
NCB20	5/10/2018	12:40	0
NCB20	5/10/2018	12:45	0
NCB20	5/10/2018	12:50	0
NCB20	5/10/2018	12:55	0
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NCB20	5/10/2018	13:05	0
NCB20	5/10/2018	13:10	0
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NCB20	5/10/2018	13:20	0
NCB20	5/10/2018	13:25	0
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NCB20	5/10/2018	13:35	0
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NCB20	5/10/2018	13:55	0
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NCB20	5/10/2018	14:10	0
NCB20	5/10/2018	14:15	0
NCB20	5/10/2018	14:20	0
NCB20	5/10/2018	14:25	0
NCB20	5/10/2018	14:30	0
NCB20	5/10/2018	14:35	0
NCB20	5/10/2018	14:40	0
NCB20	5/10/2018	14:45	0
NCB20	5/10/2018	14:50	0
NCB20	5/10/2018	14:55	0
NCB20	5/10/2018	15:00	0
;			
NCB21	5/10/2018	0:00	0
NCB21	5/10/2018	0:05	0
NCB21	5/10/2018	0:10	0.046742757
NCB21	5/10/2018	0:15	0.583420681
NCB21	5/10/2018	0:20	1.728066442
NCB21	5/10/2018	0:25	5.891621126
NCB21	5/10/2018	0:30	16.48928072
NCB21	5/10/2018	0:35	22.40677508
NCB21	5/10/2018	0:40	24.62857333
NCB21	5/10/2018	0:45	25.07061281
NCB21	5/10/2018	0:50	24.48601253
NCB21	5/10/2018	0:55	23.56135004
NCB21	5/10/2018	1:00	23.06277953
NCB21	5/10/2018	1:05	24.22850712
NCB21	5/10/2018	1:10	32.11294167
NCB21	5/10/2018	1:15	62.26560036
NCB21	5/10/2018	1:20	107.8653406
NCB21	5/10/2018	1:25	146.8400103
NCB21	5/10/2018	1:30	170.8931958
NCB21	5/10/2018	1:35	184.1831385

NCB Ponding Areas

NCB21	5/10/2018	1:40	190.8744125
NCB21	5/10/2018	1:45	193.0049826
NCB21	5/10/2018	1:50	191.8319806
NCB21	5/10/2018	1:55	187.3531706
NCB21	5/10/2018	2:00	184.3126291
NCB21	5/10/2018	2:05	189.1374514
NCB21	5/10/2018	2:10	235.1859268
NCB21	5/10/2018	2:15	412.237839
NCB21	5/10/2018	2:20	605.5326748
NCB21	5/10/2018	2:25	705.8102924
NCB21	5/10/2018	2:30	736.5032872
NCB21	5/10/2018	2:35	725.1140927
NCB21	5/10/2018	2:40	700.1724886
NCB21	5/10/2018	2:45	668.4263806
NCB21	5/10/2018	2:50	637.0681285
NCB21	5/10/2018	2:55	600.2133784
NCB21	5/10/2018	3:00	556.5160992
NCB21	5/10/2018	3:05	519.9252089
NCB21	5/10/2018	3:10	536.6530925
NCB21	5/10/2018	3:15	587.8572692
NCB21	5/10/2018	3:20	617.8841101
NCB21	5/10/2018	3:25	620.5887033
NCB21	5/10/2018	3:30	605.7793051
NCB21	5/10/2018	3:35	576.5147241
NCB21	5/10/2018	3:40	542.7506714
NCB21	5/10/2018	3:45	511.4336126
NCB21	5/10/2018	3:50	476.1663306
NCB21	5/10/2018	3:55	449.1415318
NCB21	5/10/2018	4:00	493.009935
NCB21	5/10/2018	4:05	607.337888
NCB21	5/10/2018	4:10	727.9341372
NCB21	5/10/2018	4:15	814.5729963
NCB21	5/10/2018	4:20	858.8121484
NCB21	5/10/2018	4:25	870.7277828
NCB21	5/10/2018	4:30	855.6660915
NCB21	5/10/2018	4:35	826.0637254
NCB21	5/10/2018	4:40	796.7230242
NCB21	5/10/2018	4:45	760.7473993
NCB21	5/10/2018	4:50	716.5177084
NCB21	5/10/2018	4:55	667.4292003
NCB21	5/10/2018	5:00	620.5846231
NCB21	5/10/2018	5:05	574.6509009
NCB21	5/10/2018	5:10	530.8418606
NCB21	5/10/2018	5:15	490.5658812
NCB21	5/10/2018	5:20	451.9289214
NCB21	5/10/2018	5:25	414.5513668
NCB21	5/10/2018	5:30	378.2207741
NCB21	5/10/2018	5:35	343.2072767
NCB21	5/10/2018	5:40	309.9574043
NCB21	5/10/2018	5:45	282.2865955
NCB21	5/10/2018	5:50	258.274766
NCB21	5/10/2018	5:55	237.803855
NCB21	5/10/2018	6:00	220.5639766
NCB21	5/10/2018	6:05	205.3352683
NCB21	5/10/2018	6:10	191.4986858
NCB21	5/10/2018	6:15	178.7968664
NCB21	5/10/2018	6:20	167.0827499
NCB21	5/10/2018	6:25	155.8693561
NCB21	5/10/2018	6:30	145.1182498
NCB21	5/10/2018	6:35	134.5726749
NCB21	5/10/2018	6:40	124.1250409
NCB21	5/10/2018	6:45	113.7390941
NCB21	5/10/2018	6:50	103.3844933

NCB Ponding Areas

NCB21	5/10/2018	6:55	93.06198424
NCB21	5/10/2018	7:00	82.77765206
NCB21	5/10/2018	7:05	72.6009368
NCB21	5/10/2018	7:10	63.18110431
NCB21	5/10/2018	7:15	56.24315904
NCB21	5/10/2018	7:20	50.65765239
NCB21	5/10/2018	7:25	46.02792816
NCB21	5/10/2018	7:30	42.56518687
NCB21	5/10/2018	7:35	39.83317672
NCB21	5/10/2018	7:40	37.57429835
NCB21	5/10/2018	7:45	35.73918571
NCB21	5/10/2018	7:50	34.27422659
NCB21	5/10/2018	7:55	32.95397433
NCB21	5/10/2018	8:00	31.77371339
NCB21	5/10/2018	8:05	30.66901466
NCB21	5/10/2018	8:10	29.58930715
NCB21	5/10/2018	8:15	28.53178646
NCB21	5/10/2018	8:20	27.48278164
NCB21	5/10/2018	8:25	26.44229516
NCB21	5/10/2018	8:30	25.41032846
NCB21	5/10/2018	8:35	24.38688238
NCB21	5/10/2018	8:40	23.37195741
NCB21	5/10/2018	8:45	22.36497395
NCB21	5/10/2018	8:50	21.35993148
NCB21	5/10/2018	8:55	20.35683007
NCB21	5/10/2018	9:00	19.355334
NCB21	5/10/2018	9:05	18.35383794
NCB21	5/10/2018	9:10	17.35234187
NCB21	5/10/2018	9:15	16.35084581
NCB21	5/10/2018	9:20	15.34934974
NCB21	5/10/2018	9:25	14.34785368
NCB21	5/10/2018	9:30	13.34635761
NCB21	5/10/2018	9:35	12.34486154
NCB21	5/10/2018	9:40	11.34336548
NCB21	5/10/2018	9:45	10.34186941
NCB21	5/10/2018	9:50	9.340373347
NCB21	5/10/2018	9:55	8.338877281
NCB21	5/10/2018	10:00	7.337381215
NCB21	5/10/2018	10:05	6.335885149
NCB21	5/10/2018	10:10	5.334414215
NCB21	5/10/2018	10:15	4.333268052
NCB21	5/10/2018	10:20	3.334322444
NCB21	5/10/2018	10:25	2.369187555
NCB21	5/10/2018	10:30	1.593007579
NCB21	5/10/2018	10:35	1.106446673
NCB21	5/10/2018	10:40	0.773545312
NCB21	5/10/2018	10:45	0.529221991
NCB21	5/10/2018	10:50	0.350242331
NCB21	5/10/2018	10:55	0.219837611
NCB21	5/10/2018	11:00	0.129031129
NCB21	5/10/2018	11:05	0.077955629
NCB21	5/10/2018	11:10	0.054460032
NCB21	5/10/2018	11:15	0.040180433
NCB21	5/10/2018	11:20	0.03183643
NCB21	5/10/2018	11:25	0.024461431
NCB21	5/10/2018	11:30	0.018056087
NCB21	5/10/2018	11:35	0.01262078
NCB21	5/10/2018	11:40	0.008155729
NCB21	5/10/2018	11:45	0.004661065
NCB21	5/10/2018	11:50	0.002136862
NCB21	5/10/2018	11:55	0.000583166
NCB21	5/10/2018	12:00	0
NCB21	5/10/2018	12:05	0

NCB Ponding Areas

NCB21	5/10/2018	12:10	0
NCB21	5/10/2018	12:15	0
NCB21	5/10/2018	12:20	0
NCB21	5/10/2018	12:25	0
NCB21	5/10/2018	12:30	0
NCB21	5/10/2018	12:35	0
NCB21	5/10/2018	12:40	0
NCB21	5/10/2018	12:45	0
NCB21	5/10/2018	12:50	0
NCB21	5/10/2018	12:55	0
NCB21	5/10/2018	13:00	0
NCB21	5/10/2018	13:05	0
NCB21	5/10/2018	13:10	0
NCB21	5/10/2018	13:15	0
NCB21	5/10/2018	13:20	0
NCB21	5/10/2018	13:25	0
NCB21	5/10/2018	13:30	0
NCB21	5/10/2018	13:35	0
NCB21	5/10/2018	13:40	0
NCB21	5/10/2018	13:45	0
NCB21	5/10/2018	13:50	0
NCB21	5/10/2018	13:55	0
NCB21	5/10/2018	14:00	0
NCB21	5/10/2018	14:05	0
NCB21	5/10/2018	14:10	0
NCB21	5/10/2018	14:15	0
NCB21	5/10/2018	14:20	0
NCB21	5/10/2018	14:25	0
NCB21	5/10/2018	14:30	0
NCB21	5/10/2018	14:35	0
NCB21	5/10/2018	14:40	0
NCB21	5/10/2018	14:45	0
NCB21	5/10/2018	14:50	0
NCB21	5/10/2018	14:55	0
NCB21	5/10/2018	15:00	0
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NCB24_25	5/10/2018	0:00	0
NCB24_25	5/10/2018	0:05	0
NCB24_25	5/10/2018	0:10	0.220591893
NCB24_25	5/10/2018	0:15	2.743086142
NCB24_25	5/10/2018	0:20	7.313164608
NCB24_25	5/10/2018	0:25	20.88500032
NCB24_25	5/10/2018	0:30	57.41661045
NCB24_25	5/10/2018	0:35	89.91227856
NCB24_25	5/10/2018	0:40	116.2648007
NCB24_25	5/10/2018	0:45	137.9808341
NCB24_25	5/10/2018	0:50	154.2651301
NCB24_25	5/10/2018	0:55	164.4202505
NCB24_25	5/10/2018	1:00	169.836042
NCB24_25	5/10/2018	1:05	172.5296545
NCB24_25	5/10/2018	1:10	170.7642508
NCB24_25	5/10/2018	1:15	167.2395607
NCB24_25	5/10/2018	1:20	161.3185503
NCB24_25	5/10/2018	1:25	153.4990776
NCB24_25	5/10/2018	1:30	144.300697
NCB24_25	5/10/2018	1:35	135.4855867
NCB24_25	5/10/2018	1:40	127.3708495
NCB24_25	5/10/2018	1:45	119.6451917
NCB24_25	5/10/2018	1:50	112.3488757
NCB24_25	5/10/2018	1:55	105.6581758
NCB24_25	5/10/2018	2:00	99.64593737
NCB24_25	5/10/2018	2:05	93.33805828
NCB24_25	5/10/2018	2:10	87.45965106

NCB Ponding Areas

NCB24_25	5/10/2018	2:15	82.54944474
NCB24_25	5/10/2018	2:20	78.30746539
NCB24_25	5/10/2018	2:25	74.46994504
NCB24_25	5/10/2018	2:30	70.92338073
NCB24_25	5/10/2018	2:35	67.60358419
NCB24_25	5/10/2018	2:40	64.44196048
NCB24_25	5/10/2018	2:45	61.42753218
NCB24_25	5/10/2018	2:50	58.52326157
NCB24_25	5/10/2018	2:55	55.66382812
NCB24_25	5/10/2018	3:00	52.84116022
NCB24_25	5/10/2018	3:05	50.04169876
NCB24_25	5/10/2018	3:10	47.26174694
NCB24_25	5/10/2018	3:15	44.50071864
NCB24_25	5/10/2018	3:20	41.75870268
NCB24_25	5/10/2018	3:25	39.03690251
NCB24_25	5/10/2018	3:30	36.3681723
NCB24_25	5/10/2018	3:35	33.98857538
NCB24_25	5/10/2018	3:40	32.17369493
NCB24_25	5/10/2018	3:45	30.65845427
NCB24_25	5/10/2018	3:50	29.31046265
NCB24_25	5/10/2018	3:55	28.08502878
NCB24_25	5/10/2018	4:00	26.95058635
NCB24_25	5/10/2018	4:05	25.88787761
NCB24_25	5/10/2018	4:10	24.89717105
NCB24_25	5/10/2018	4:15	23.96123365
NCB24_25	5/10/2018	4:20	23.04071962
NCB24_25	5/10/2018	4:25	22.13117765
NCB24_25	5/10/2018	4:30	21.22241712
NCB24_25	5/10/2018	4:35	20.31443861
NCB24_25	5/10/2018	4:40	19.40724246
NCB24_25	5/10/2018	4:45	18.50082888
NCB24_25	5/10/2018	4:50	17.59519797
NCB24_25	5/10/2018	4:55	16.6903498
NCB24_25	5/10/2018	5:00	15.78628442
NCB24_25	5/10/2018	5:05	14.88300184
NCB24_25	5/10/2018	5:10	13.98026253
NCB24_25	5/10/2018	5:15	13.07752322
NCB24_25	5/10/2018	5:20	12.17478391
NCB24_25	5/10/2018	5:25	11.2720446
NCB24_25	5/10/2018	5:30	10.36930529
NCB24_25	5/10/2018	5:35	9.466565985
NCB24_25	5/10/2018	5:40	8.563826675
NCB24_25	5/10/2018	5:45	7.661087365
NCB24_25	5/10/2018	5:50	6.758348055
NCB24_25	5/10/2018	5:55	5.855608745
NCB24_25	5/10/2018	6:00	4.952871639
NCB24_25	5/10/2018	6:05	4.05016888
NCB24_25	5/10/2018	6:10	3.147924666
NCB24_25	5/10/2018	6:15	2.25927224
NCB24_25	5/10/2018	6:20	1.48479904
NCB24_25	5/10/2018	6:25	1.009552216
NCB24_25	5/10/2018	6:30	0.693116832
NCB24_25	5/10/2018	6:35	0.463032275
NCB24_25	5/10/2018	6:40	0.296091809
NCB24_25	5/10/2018	6:45	0.176214178
NCB24_25	5/10/2018	6:50	0.092186095
NCB24_25	5/10/2018	6:55	0.044149023
NCB24_25	5/10/2018	7:00	0.026684246
NCB24_25	5/10/2018	7:05	0.016927732
NCB24_25	5/10/2018	7:10	0.013482496
NCB24_25	5/10/2018	7:15	0.010427943
NCB24_25	5/10/2018	7:20	0.007764379
NCB24_25	5/10/2018	7:25	0.005491984

NCB Ponding Areas

NCB24_25	5/10/2018	7:30	0.003610862
NCB24_25	5/10/2018	7:35	0.002121074
NCB24_25	5/10/2018	7:40	0.001022655
NCB24_25	5/10/2018	7:45	0.000193959
NCB24_25	5/10/2018	7:50	0
NCB24_25	5/10/2018	7:55	0
NCB24_25	5/10/2018	8:00	0
NCB24_25	5/10/2018	8:05	0
NCB24_25	5/10/2018	8:10	0
NCB24_25	5/10/2018	8:15	0
NCB24_25	5/10/2018	8:20	0
NCB24_25	5/10/2018	8:25	0
NCB24_25	5/10/2018	8:30	0
NCB24_25	5/10/2018	8:35	0
NCB24_25	5/10/2018	8:40	0
NCB24_25	5/10/2018	8:45	0
NCB24_25	5/10/2018	8:50	0
NCB24_25	5/10/2018	8:55	0
NCB24_25	5/10/2018	9:00	0
NCB24_25	5/10/2018	9:05	0
NCB24_25	5/10/2018	9:10	0
NCB24_25	5/10/2018	9:15	0
NCB24_25	5/10/2018	9:20	0
NCB24_25	5/10/2018	9:25	0
NCB24_25	5/10/2018	9:30	0
NCB24_25	5/10/2018	9:35	0
NCB24_25	5/10/2018	9:40	0
NCB24_25	5/10/2018	9:45	0
NCB24_25	5/10/2018	9:50	0
NCB24_25	5/10/2018	9:55	0
NCB24_25	5/10/2018	10:00	0
NCB24_25	5/10/2018	10:05	0
NCB24_25	5/10/2018	10:10	0
NCB24_25	5/10/2018	10:15	0
NCB24_25	5/10/2018	10:20	0
NCB24_25	5/10/2018	10:25	0
NCB24_25	5/10/2018	10:30	0
NCB24_25	5/10/2018	10:35	0
NCB24_25	5/10/2018	10:40	0
NCB24_25	5/10/2018	10:45	0
NCB24_25	5/10/2018	10:50	0
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NCB24_25	5/10/2018	11:05	0
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NCB24_25	5/10/2018	11:15	0
NCB24_25	5/10/2018	11:20	0
NCB24_25	5/10/2018	11:25	0
NCB24_25	5/10/2018	11:30	0
NCB24_25	5/10/2018	11:35	0
NCB24_25	5/10/2018	11:40	0
NCB24_25	5/10/2018	11:45	0
NCB24_25	5/10/2018	11:50	0
NCB24_25	5/10/2018	11:55	0
NCB24_25	5/10/2018	12:00	0
NCB24_25	5/10/2018	12:05	0
NCB24_25	5/10/2018	12:10	0
NCB24_25	5/10/2018	12:15	0
NCB24_25	5/10/2018	12:20	0
NCB24_25	5/10/2018	12:25	0
NCB24_25	5/10/2018	12:30	0
NCB24_25	5/10/2018	12:35	0
NCB24_25	5/10/2018	12:40	0

NCB Ponding Areas

NCB24_25	5/10/2018	12:45	0
NCB24_25	5/10/2018	12:50	0
NCB24_25	5/10/2018	12:55	0
NCB24_25	5/10/2018	13:00	0
NCB24_25	5/10/2018	13:05	0
NCB24_25	5/10/2018	13:10	0
NCB24_25	5/10/2018	13:15	0
NCB24_25	5/10/2018	13:20	0
NCB24_25	5/10/2018	13:25	0
NCB24_25	5/10/2018	13:30	0
NCB24_25	5/10/2018	13:35	0
NCB24_25	5/10/2018	13:40	0
NCB24_25	5/10/2018	13:45	0
NCB24_25	5/10/2018	13:50	0
NCB24_25	5/10/2018	13:55	0
NCB24_25	5/10/2018	14:00	0
NCB24_25	5/10/2018	14:05	0
NCB24_25	5/10/2018	14:10	0
NCB24_25	5/10/2018	14:15	0
NCB24_25	5/10/2018	14:20	0
NCB24_25	5/10/2018	14:25	0
NCB24_25	5/10/2018	14:30	0
NCB24_25	5/10/2018	14:35	0
NCB24_25	5/10/2018	14:40	0
NCB24_25	5/10/2018	14:45	0
NCB24_25	5/10/2018	14:50	0
NCB24_25	5/10/2018	14:55	0
NCB24_25	5/10/2018	15:00	0
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NCB26	5/10/2018	0:00	0.00
NCB26	5/10/2018	0:05	0.00
NCB26	5/10/2018	0:10	0.04
NCB26	5/10/2018	0:15	0.25
NCB26	5/10/2018	0:20	3.34
NCB26	5/10/2018	0:25	20.24
NCB26	5/10/2018	0:30	47.65
NCB26	5/10/2018	0:35	71.11
NCB26	5/10/2018	0:40	85.28
NCB26	5/10/2018	0:45	93.49
NCB26	5/10/2018	0:50	97.96
NCB26	5/10/2018	0:55	99.68
NCB26	5/10/2018	1:00	99.43
NCB26	5/10/2018	1:05	96.86
NCB26	5/10/2018	1:10	93.22
NCB26	5/10/2018	1:15	88.82
NCB26	5/10/2018	1:20	83.92
NCB26	5/10/2018	1:25	78.78
NCB26	5/10/2018	1:30	73.61
NCB26	5/10/2018	1:35	68.59
NCB26	5/10/2018	1:40	64.36
NCB26	5/10/2018	1:45	60.68
NCB26	5/10/2018	1:50	57.26
NCB26	5/10/2018	1:55	54.02
NCB26	5/10/2018	2:00	50.87
NCB26	5/10/2018	2:05	47.74
NCB26	5/10/2018	2:10	44.66
NCB26	5/10/2018	2:15	41.65
NCB26	5/10/2018	2:20	38.66
NCB26	5/10/2018	2:25	35.70
NCB26	5/10/2018	2:30	32.74
NCB26	5/10/2018	2:35	29.91
NCB26	5/10/2018	2:40	27.64
NCB26	5/10/2018	2:45	25.83

NCB Ponding Areas

NCB26	5/10/2018	2:50	24.26
NCB26	5/10/2018	2:55	22.85
NCB26	5/10/2018	3:00	21.55
NCB26	5/10/2018	3:05	20.34
NCB26	5/10/2018	3:10	19.20
NCB26	5/10/2018	3:15	18.15
NCB26	5/10/2018	3:20	17.13
NCB26	5/10/2018	3:25	16.13
NCB26	5/10/2018	3:30	15.13
NCB26	5/10/2018	3:35	14.14
NCB26	5/10/2018	3:40	13.14
NCB26	5/10/2018	3:45	12.15
NCB26	5/10/2018	3:50	11.16
NCB26	5/10/2018	3:55	10.18
NCB26	5/10/2018	4:00	9.19
NCB26	5/10/2018	4:05	8.21
NCB26	5/10/2018	4:10	7.23
NCB26	5/10/2018	4:15	6.25
NCB26	5/10/2018	4:20	5.27
NCB26	5/10/2018	4:25	4.29
NCB26	5/10/2018	4:30	3.31
NCB26	5/10/2018	4:35	2.37
NCB26	5/10/2018	4:40	1.59
NCB26	5/10/2018	4:45	1.11
NCB26	5/10/2018	4:50	0.78
NCB26	5/10/2018	4:55	0.53
NCB26	5/10/2018	5:00	0.36
NCB26	5/10/2018	5:05	0.23
NCB26	5/10/2018	5:10	0.13
NCB26	5/10/2018	5:15	0.08
NCB26	5/10/2018	5:20	0.06
NCB26	5/10/2018	5:25	0.04
NCB26	5/10/2018	5:30	0.03
NCB26	5/10/2018	5:35	0.03
NCB26	5/10/2018	5:40	0.02
NCB26	5/10/2018	5:45	0.01
NCB26	5/10/2018	5:50	0.01
NCB26	5/10/2018	5:55	0.01
NCB26	5/10/2018	6:00	0.00
NCB26	5/10/2018	6:05	0.00
NCB26	5/10/2018	6:10	0.00
NCB26	5/10/2018	6:15	0.00
NCB26	5/10/2018	6:20	0.00
NCB26	5/10/2018	6:25	0.00
NCB26	5/10/2018	6:30	0.00
NCB26	5/10/2018	6:35	0.00
NCB26	5/10/2018	6:40	0.00
NCB26	5/10/2018	6:45	0.00
NCB26	5/10/2018	6:50	0.00
NCB26	5/10/2018	6:55	0.00
NCB26	5/10/2018	7:00	0.00
NCB26	5/10/2018	7:05	0.00
NCB26	5/10/2018	7:10	0.00
NCB26	5/10/2018	7:15	0.00
NCB26	5/10/2018	7:20	0.00
NCB26	5/10/2018	7:25	0.00
NCB26	5/10/2018	7:30	0.00
NCB26	5/10/2018	7:35	0.00
NCB26	5/10/2018	7:40	0.00
NCB26	5/10/2018	7:45	0.00
NCB26	5/10/2018	7:50	0.00
NCB26	5/10/2018	7:55	0.00
NCB26	5/10/2018	8:00	0.00

NCB Ponding Areas

NCB26	5/10/2018	8:05	0.00
NCB26	5/10/2018	8:10	0.00
NCB26	5/10/2018	8:15	0.00
NCB26	5/10/2018	8:20	0.00
NCB26	5/10/2018	8:25	0.00
;			
NCB27	5/10/2018	0:00	0
NCB27	5/10/2018	0:05	0
NCB27	5/10/2018	0:10	0
NCB27	5/10/2018	0:15	0.03
NCB27	5/10/2018	0:20	0.37
NCB27	5/10/2018	0:25	9.87
NCB27	5/10/2018	0:30	66.56
NCB27	5/10/2018	0:35	143.28
NCB27	5/10/2018	0:40	193.21
NCB27	5/10/2018	0:45	216.03
NCB27	5/10/2018	0:50	220.83
NCB27	5/10/2018	0:55	213.46
NCB27	5/10/2018	1:00	205.14
NCB27	5/10/2018	1:05	199.00
NCB27	5/10/2018	1:10	191.19
NCB27	5/10/2018	1:15	193.59
NCB27	5/10/2018	1:20	232.15
NCB27	5/10/2018	1:25	276.64
NCB27	5/10/2018	1:30	311.52
NCB27	5/10/2018	1:35	333.44
NCB27	5/10/2018	1:40	344.43
NCB27	5/10/2018	1:45	346.51
NCB27	5/10/2018	1:50	343.97
NCB27	5/10/2018	1:55	338.79
NCB27	5/10/2018	2:00	327.92
NCB27	5/10/2018	2:05	314.83
NCB27	5/10/2018	2:10	299.01
NCB27	5/10/2018	2:15	281.11
NCB27	5/10/2018	2:20	261.94
NCB27	5/10/2018	2:25	243.46
NCB27	5/10/2018	2:30	225.99
NCB27	5/10/2018	2:35	209.77
NCB27	5/10/2018	2:40	194.55
NCB27	5/10/2018	2:45	180.20
NCB27	5/10/2018	2:50	166.73
NCB27	5/10/2018	2:55	153.23
NCB27	5/10/2018	3:00	141.22
NCB27	5/10/2018	3:05	131.33
NCB27	5/10/2018	3:10	122.77
NCB27	5/10/2018	3:15	114.99
NCB27	5/10/2018	3:20	107.79
NCB27	5/10/2018	3:25	101.02
NCB27	5/10/2018	3:30	94.70
NCB27	5/10/2018	3:35	89.26
NCB27	5/10/2018	3:40	84.48
NCB27	5/10/2018	3:45	80.01
NCB27	5/10/2018	3:50	75.75
NCB27	5/10/2018	3:55	71.64
NCB27	5/10/2018	4:00	67.64
NCB27	5/10/2018	4:05	63.73
NCB27	5/10/2018	4:10	59.93
NCB27	5/10/2018	4:15	56.18
NCB27	5/10/2018	4:20	52.50
NCB27	5/10/2018	4:25	49.12
NCB27	5/10/2018	4:30	46.31
NCB27	5/10/2018	4:35	43.80
NCB27	5/10/2018	4:40	41.46

NCB Ponding Areas

NCB27	5/10/2018	4:45	39.25
NCB27	5/10/2018	4:50	37.13
NCB27	5/10/2018	4:55	35.08
NCB27	5/10/2018	5:00	33.11
NCB27	5/10/2018	5:05	31.19
NCB27	5/10/2018	5:10	29.29
NCB27	5/10/2018	5:15	27.40
NCB27	5/10/2018	5:20	25.51
NCB27	5/10/2018	5:25	23.63
NCB27	5/10/2018	5:30	21.77
NCB27	5/10/2018	5:35	20.09
NCB27	5/10/2018	5:40	18.70
NCB27	5/10/2018	5:45	17.47
NCB27	5/10/2018	5:50	16.32
NCB27	5/10/2018	5:55	15.24
NCB27	5/10/2018	6:00	14.21
NCB27	5/10/2018	6:05	13.21
NCB27	5/10/2018	6:10	12.26
NCB27	5/10/2018	6:15	11.33
NCB27	5/10/2018	6:20	10.41
NCB27	5/10/2018	6:25	9.50
NCB27	5/10/2018	6:30	8.59
NCB27	5/10/2018	6:35	7.68
NCB27	5/10/2018	6:40	6.77
NCB27	5/10/2018	6:45	5.86
NCB27	5/10/2018	6:50	4.96
NCB27	5/10/2018	6:55	4.05
NCB27	5/10/2018	7:00	3.15
NCB27	5/10/2018	7:05	2.26
NCB27	5/10/2018	7:10	1.48
NCB27	5/10/2018	7:15	1.01
NCB27	5/10/2018	7:20	0.69
NCB27	5/10/2018	7:25	0.46
NCB27	5/10/2018	7:30	0.30
NCB27	5/10/2018	7:35	0.18
NCB27	5/10/2018	7:40	0.09
NCB27	5/10/2018	7:45	0.04
NCB27	5/10/2018	7:50	0.03
NCB27	5/10/2018	7:55	0.02
NCB27	5/10/2018	8:00	0.01
NCB27	5/10/2018	8:05	0.01
NCB27	5/10/2018	8:10	0.01
NCB27	5/10/2018	8:15	0.01
NCB27	5/10/2018	8:20	0.00
NCB27	5/10/2018	8:25	0.00
NCB27	5/10/2018	8:30	0.001022655
NCB27	5/10/2018	8:35	0.000315627
NCB27	5/10/2018	8:40	0
NCB27	5/10/2018	8:45	0
NCB27	5/10/2018	8:50	0
NCB27	5/10/2018	8:55	0
NCB27	5/10/2018	9:00	0
NCB27	5/10/2018	9:05	0
NCB27	5/10/2018	9:10	0
NCB27	5/10/2018	9:15	0
NCB27	5/10/2018	9:20	0
NCB27	5/10/2018	9:25	0
NCB27	5/10/2018	9:30	0
NCB27	5/10/2018	9:35	0
NCB27	5/10/2018	9:40	0
NCB27	5/10/2018	9:45	0
NCB27	5/10/2018	9:50	0
NCB27	5/10/2018	9:55	0

NCB Ponding Areas

NCB27	5/10/2018	10:00	0
NCB27	5/10/2018	10:05	0
NCB27	5/10/2018	10:10	0
NCB27	5/10/2018	10:15	0
NCB27	5/10/2018	10:20	0
NCB27	5/10/2018	10:25	0
NCB27	5/10/2018	10:30	0
NCB27	5/10/2018	10:35	0
NCB27	5/10/2018	10:40	0

[REPORT]

```
;;Reporting Options
INPUT NO
CONTROLS NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL
```

[TAGS]

```
Link NCB17 two24x34
```

[MAP]

```
DIMENSIONS 0.000 0.000 10000.000 10000.000
Units None
```

[COORDINATES]

;;Node	X-Coord	Y-Coord
NCB9	-2740.741	1985.185
NCB2_0	2722.030	6920.415
NCB3_0	3033.449	5570.934
NCB6_0	2860.438	8131.488
NCB8_0	6366.782	7739.331
NCB11_0	6309.112	6170.704
NCB12_0	5640.138	4890.427
NCB13_0	2860.438	2802.768
NCB14_NCB29_0	-899.654	8431.373
NCB7_0	-1337.947	6424.452
NCB16_0	-1525.926	3496.296
NCB1_0	8936.404	9221.491
NCB1_OS	8678.955	8771.121
NCB9_0	-1822.222	1822.222
NCB18_0	2897.914	1866.081
NCB18_O2	3101.777	2213.247
NCB15_0	-1459.293	5023.041
NCB17_0	6559.140	3195.084
NCB20_0	-1295.280	9527.991
NCB16_O2	-1520.737	3993.856
NCB21_RR_0	6635.945	1367.127
NCB24_250	8846.597	6897.347
NCB26_0	-2595.156	726.644
NCB27_0	830.450	657.439
NCB2	1914.648	7035.755
NCB3	2168.397	5732.411
NCB4	2237.601	4498.270
NCB5	2399.077	9227.220
NCB6	1833.910	8258.362
NCB8	5755.479	7797.001
NCB11	5351.788	6320.646
NCB12	4948.097	5351.788
NCB13	1510.957	2860.438
NCB14_NCB29	-2524.698	8518.112
NCB7	-2376.009	6608.997

		NCB Ponding Areas
NCB1	8125.000	9407.895
NCB18	-138.249	1935.484
NCB15	-2764.977	5330.261
NCB17	5852.535	3579.109
NCB20	-1964.874	9495.060
NCB16	-2948.148	3540.741
NCB21_RR	5944.700	1582.181
NCB26	-3171.857	761.246
NCB24_25	7946.943	7058.824
NCB27_PondingArea	-668.973	588.235
NCB27_2	-173.010	749.712
[VERTICES]		
;;Link	X-Coord	Y-Coord
;;	-----	-----
NCB18_1R	2676.259	2187.050

NCB Ponding Areas

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed YES
 Water Quality NO
Flow Routing Method DYNWAVE
Starting Date 05/10/2018 00:00:00
Ending Date 05/12/2018 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:00:05
Routing Time Step 5.00 sec
Variable Time Step YES
Maximum Trials 8
Number of Threads 1
Head Tolerance 0.005000 ft

	Volume acre-feet	Volume 10 ⁶ gal
Flow Routing Continuity		

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	2218.864	723.050
External Outflow	1662.776	541.840
Flooding Loss	476.754	155.357
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	79.323	25.849
Continuity Error (%)	0.001	

Time-Step Critical Elements

Link NCB11 (21.88%)
Link NCB21_RR (19.90%)
Link NCB18_1R (7.99%)

Highest Flow Instability Indexes

NCB Ponding Areas

All links are stable.

 Routing Time Step Summary

Minimum Time Step : 0.50 sec
 Average Time Step : 3.08 sec
 Maximum Time Step : 5.00 sec
 Percent in Steady State : -0.00
 Average Iterations per Step : 2.00
 Percent Not Converging : 0.00

 Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
NCB9	JUNCTION	0.38	1.50	4998.26	0 00:26	1.50
NCB2_0	OUTFALL	0.37	2.00	74.45	0 00:42	2.00
NCB3_0	OUTFALL	0.22	1.88	84.98	0 01:17	1.88
NCB6_0	OUTFALL	0.62	3.80	78.99	0 01:47	3.80
NCB8_0	OUTFALL	0.00	0.00	5053.04	0 00:00	0.00
NCB11_0	OUTFALL	0.53	1.75	4890.40	0 00:51	1.75
NCB12_0	OUTFALL	0.24	2.34	48.40	0 00:57	2.34
NCB13_0	OUTFALL	0.52	3.28	37.85	0 02:41	3.28
NCB14_NCB29_0	OUTFALL	1.29	5.98	4922.28	0 03:24	5.98
NCB7_0	OUTFALL	0.50	2.68	4971.20	0 02:46	2.68
NCB16_0	OUTFALL	0.22	0.92	62.72	0 01:25	0.92
NCB1_0	OUTFALL	0.43	2.58	5008.91	0 00:37	2.58
NCB1_OS	OUTFALL	0.00	0.00	0.00	0 00:00	0.00
NCB9_0	OUTFALL	0.32	1.27	4996.91	0 00:26	1.27
NCB18_0	OUTFALL	0.78	3.00	4997.94	0 01:26	3.00
NCB18_O2	OUTFALL	0.77	3.00	4997.87	0 01:26	3.00
NCB15_0	OUTFALL	0.47	1.48	64.66	0 00:38	1.48
NCB17_0	OUTFALL	0.42	1.42	21.02	0 00:29	1.42
NCB20_0	OUTFALL	0.60	3.12	4991.57	0 03:40	3.12
NCB16_O2	OUTFALL	0.26	0.97	62.03	0 00:29	0.97
NCB21_RR_0	OUTFALL	0.75	1.83	4975.41	0 01:10	1.83
NCB24_250	OUTFALL	0.51	3.00	5002.36	0 00:37	3.00
NCB26_0	OUTFALL	0.22	0.90	5004.35	0 00:32	0.90
NCB27_0	OUTFALL	0.56	3.00	83.43	0 01:22	3.00
NCB2	STORAGE	0.90	6.26	78.96	0 01:36	6.26
NCB3	STORAGE	0.29	3.02	86.81	0 01:17	3.02
NCB4	STORAGE	6.97	7.43	57.43	0 04:40	7.43
NCB5	STORAGE	2.92	3.00	20.00	0 01:06	3.00
NCB6	STORAGE	0.63	3.80	80.61	0 01:47	3.80
NCB8	STORAGE	1.08	1.14	5060.14	0 04:10	1.14
NCB11	STORAGE	1.15	4.00	4893.00	0 00:47	4.00
NCB12	STORAGE	0.25	2.41	48.66	0 00:57	2.41
NCB13	STORAGE	0.53	3.28	38.97	0 02:41	3.28
NCB14_NCB29	STORAGE	1.33	6.99	4924.95	0 03:48	6.99
NCB7	STORAGE	0.50	2.68	4973.58	0 02:46	2.68
NCB1	STORAGE	0.48	3.33	5010.34	0 00:47	3.33
NCB18	STORAGE	0.87	3.60	4999.00	0 01:29	3.60
NCB15	STORAGE	0.63	2.00	65.40	0 00:32	2.00
NCB17	STORAGE	0.81	3.50	23.58	0 00:35	3.50
NCB20	STORAGE	0.60	3.12	4991.84	0 03:40	3.12

NCB Ponding Areas							
NCB16	STORAGE	0.59	2.42	64.00	0	00:31	2.42
NCB21_RR	STORAGE	1.85	5.73	4980.00	0	01:23	5.73
NCB26	STORAGE	0.36	1.50	5005.50	0	00:21	1.50
NCB24_25	STORAGE	0.52	3.00	5010.00	0	00:39	3.00
NCB27_PondingArea	STORAGE	3.46	3.86	91.86	0	01:50	3.86
NCB27_2	STORAGE	0.81	7.34	88.17	0	01:54	7.34

Node Inflow Summary

Total Inflow Volume Node gal	Flow Balance Error Percent	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	10^6
9.92	-0.001	JUNCTION	202.37	202.37	0 01:05	9.92	
3.74	0.000	OUTFALL	0.00	49.27	0 01:36	0	
1.46	0.000	OUTFALL	0.00	31.78	0 01:17	0	
26.1	0.000	OUTFALL	0.00	367.34	0 01:47	0	
0	0.000 gal	OUTFALL	0.00	0.00	0 00:00	0	
4.18	0.000	OUTFALL	0.00	27.86	0 01:06	0	
1.74	0.000	OUTFALL	0.00	50.84	0 00:57	0	
85.2	0.000	OUTFALL	0.00	1307.51	0 02:41	0	
198	0.000	OUTFALL	0.00	2081.25	0 03:48	0	
30.2	0.000	OUTFALL	0.00	403.66	0 02:46	0	
1.03	0.000	OUTFALL	0.00	9.34	0 01:25	0	
10	0.000	OUTFALL	0.00	169.74	0 01:28	0	
16.1	0.000	OUTFALL	0.00	412.18	0 00:47	0	
1.34	0.000	OUTFALL	0.00	11.08	0 00:26	0	
13.8	0.000	OUTFALL	0.00	121.39	0 01:33	0	
14.3	0.000	OUTFALL	0.00	125.34	0 01:33	0	
2.77	0.000	OUTFALL	0.00	16.99	0 00:38	0	
17.7	0.000	OUTFALL	0.00	152.72	0 00:58	0	
		OUTFALL	0.00	870.68	0 03:40	0	

		NCB Ponding Areas					
69.8	0.000						
NCB16_o2		OUTFALL	0.00	11.36	0	00:33	0
1.4	0.000						
NCB21_rr_o		OUTFALL	0.00	86.39	0	01:25	0
16.4	0.000						
NCB24_25o		OUTFALL	0.00	100.50	0	00:38	0
7.83	0.000						
NCB26_o		OUTFALL	0.00	5.51	0	00:32	0
0.637	0.000						
NCB27_o		OUTFALL	0.00	342.22	0	01:54	0
17.8	0.000						
NCB2		STORAGE	130.37	130.37	0	00:45	3.74
3.74	0.000						
NCB3		STORAGE	46.60	46.60	0	00:45	1.46
1.46	0.001						
NCB4		STORAGE	159.96	159.96	0	01:20	5.55
5.55	0.000						
NCB5		STORAGE	237.24	237.24	0	01:20	12.8
12.8	-0.009						
NCB6		STORAGE	379.23	379.23	0	01:40	26.1
26.1	0.002						
NCB8		STORAGE	469.29	469.29	0	00:45	14
14	0.000						
NCB11		STORAGE	241.64	241.64	0	01:50	13.7
13.7	-0.001						
NCB12		STORAGE	57.99	57.99	0	00:40	1.74
1.74	0.002						
NCB13		STORAGE	1311.65	1311.65	0	02:40	85.2
85.2	0.002						
NCB14_NCB29		STORAGE	2229.50	2229.50	0	03:35	198
198	0.001						
NCB7		STORAGE	405.04	405.04	0	02:45	30.2
30.2	0.002						
NCB1		STORAGE	708.05	708.05	0	01:00	27.5
27.5	0.000						
NCB18		STORAGE	818.67	818.67	0	02:40	46.1
46.1	0.000						
NCB15		STORAGE	169.82	169.82	0	01:15	11.1
11.1	-0.002						
NCB17		STORAGE	787.50	787.50	0	01:45	40.6
40.6	-0.000						
NCB20		STORAGE	870.72	870.72	0	03:40	69.8
69.8	0.002						
NCB16		STORAGE	513.95	513.95	0	00:50	19.2
19.2	-0.003						
NCB21_rr		STORAGE	870.71	870.71	0	04:25	70.7
70.7	-0.001						
NCB26		STORAGE	99.68	99.68	0	00:55	4.71
4.71	-0.001						
NCB24_25		STORAGE	172.53	172.53	0	01:05	9.56
9.56	-0.000						
NCB27_PondingArea		STORAGE	346.51	346.51	0	01:45	21.2
21.2	0.000						
NCB27_2		STORAGE	0.00	343.84	0	01:50	0
17.8	0.000						

Node Surcharge Summary

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

NCB Ponding Areas				
Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
NCB9	JUNCTION	4.23	0.000	0.000

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
NCB9	4.23	191.42	0 01:05	8.580	0.000
NCB5	4.39	237.23	0 01:20	9.805	0.000
NCB11	3.93	213.77	0 01:50	9.475	0.000
NCB1	0.61	134.15	0 01:00	1.394	0.000
NCB18	2.63	571.93	0 02:40	18.035	0.000
NCB15	5.07	152.83	0 01:15	8.293	0.000
NCB17	3.19	634.77	0 01:45	22.894	0.000
NCB16	2.95	493.25	0 00:50	16.783	0.000
NCB21_RR	5.59	784.31	0 04:25	54.281	0.000
NCB26	3.95	94.17	0 00:55	4.077	0.000
NCB24_25	1.39	76.35	0 01:05	1.728	0.000

Storage Volume Summary

of Max Occurrence Storage Unit hr:min	Maximum Outflow Unit CFS	Average Volume 1000 ft3	Avg Pc Full	Evap Loss	Exfil Loss	Maximum Volume 1000 ft3	Max Pc Full	Time days
NCB2 01:36	49.27	24.481	7	0	0	232.664	68	0
NCB3 01:17	31.78	2.739	2	0	0	41.327	30	0
NCB4 04:40	0.00	687.772	56	0	0	742.102	60	0
NCB5 01:06	0.00	383.240	97	0	0	394.937	100	0
NCB6 01:47	367.34	7.684	1	0	0	70.029	8	0
NCB8 04:10	0.00	1769.548	11	0	0	1869.766	12	0
NCB11 00:47	27.86	19.019	27	0	0	71.652	100	0
NCB12 00:57	50.84	3.224	3	0	0	38.157	38	0

		NCB Ponding Areas						
NCB13		2.657	0	0	0	45.516	1	0
02:41	1307.51							
NCB14_NCB29		49.277	0	0	0	686.293	4	0
03:48	2081.25							
NCB7		1.765	0	0	0	15.854	3	0
02:46	403.66							
NCB1		0.477	14	0	0	3.330	100	0
00:47	574.28							
NCB18		0.949	16	0	0	6.096	100	0
01:29	246.73							
NCB15		3.209	30	0	0	10.630	100	0
00:32	16.99							
NCB17		0.874	19	0	0	4.580	100	0
00:35	152.72							
NCB20		0.246	2	0	0	2.179	17	0
03:40	870.68							
NCB16		17.021	21	0	0	81.169	100	0
00:31	20.70							
NCB21_RR		3.210	28	0	0	11.636	100	0
01:23	86.39							
NCB26		0.063	22	0	0	0.280	100	0
00:21	5.51							
NCB24_25		0.241	11	0	0	2.122	100	0
00:39	100.50							
NCB27_PondingArea		448.985	73	0	0	568.040	92	0
01:50	343.84							
NCB27_2		0.907	4	0	0	16.575	65	0
01:54	342.22							

 Outfall Loading Summary

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total volume 10^6 gal
NCB2_0	21.90	34.09	49.27	3.742
NCB3_0	22.51	13.45	31.78	1.457
NCB6_0	31.66	163.59	367.34	26.124
NCB8_0	0.00	0.00	0.00	0.000
NCB11_0	34.80	23.07	27.86	4.176
NCB12_0	61.95	5.99	50.84	1.742
NCB13_0	39.56	414.78	1307.51	85.225
NCB14_NCB29_0	53.41	677.99	2081.25	198.269
NCB7_0	34.75	167.38	403.66	30.151
NCB16_0	27.13	7.62	9.34	1.034
NCB1_0	35.31	57.92	169.74	10.021
NCB1_OS	17.07	198.22	412.18	16.083
NCB9_0	31.22	8.59	11.08	1.345
NCB18_0	48.40	54.44	121.39	13.753
NCB18_O2	45.97	59.69	125.34	14.305
NCB15_0	43.46	12.00	16.99	2.770
NCB17_0	43.49	79.51	152.72	17.693
NCB20_0	51.13	260.06	870.68	69.822
NCB16_O2	52.21	5.31	11.36	1.400
NCB21_RR_0	51.91	55.76	86.39	16.380
NCB24_25O	35.08	44.82	100.50	7.834
NCB26_0	30.38	4.15	5.51	0.637
NCB27_0	52.89	63.75	342.22	17.837

System 37.66 NCB Ponding Areas 2412.17 4962.86 541.800

 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
NCB2	CONDUIT	49.27	0	01:36	15.68	4.25	1.00
NCB3	CONDUIT	31.78	0	01:17	10.21	1.65	0.97
NCB6	CONDUIT	367.34	0	01:47	12.47	0.82	0.64
NCB8	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
NCB11	CONDUIT	27.86	0	01:06	10.65	2.76	0.98
NCB12	CONDUIT	50.84	0	00:57	9.32	1.21	0.86
NCB13	CONDUIT	1307.51	0	02:41	22.16	0.57	0.55
NCB14_NCB29_1	CONDUIT	2081.25	0	03:48	17.61	1.30	1.00
NCB7	CONDUIT	403.66	0	02:46	20.40	0.67	0.60
NCB16	CONDUIT	9.34	0	01:25	5.09	2.10	0.87
NCB1	CONDUIT	169.74	0	01:28	13.03	1.47	0.89
NCB9	CONDUIT	11.08	0	00:26	6.65	1.11	0.92
NCB18_1L	CONDUIT	121.39	0	01:33	17.17	1.52	1.00
NCB18_1R	CONDUIT	125.34	0	01:33	17.73	1.41	1.00
NCB15	CONDUIT	16.99	0	00:38	5.86	1.68	0.87
NCB17	CONDUIT	152.72	0	00:58	19.12	2.24	0.89
NCB20	CONDUIT	870.68	0	03:40	11.64	0.53	0.52
NCB16_2	CONDUIT	11.36	0	00:33	6.09	1.95	0.89
NCB21_RR	CONDUIT	86.39	0	01:25	32.85	2.58	1.00
NCB24_25	CONDUIT	100.50	0	00:38	15.15	1.07	1.00
NCB26	CONDUIT	5.51	0	00:32	3.63	1.31	0.80
NCB27_2	CONDUIT	342.22	0	01:54	24.21	3.44	1.00
NCB1_Weir	WEIR	412.18	0	00:47			1.00
NCB27_PA_OVER	WEIR	343.84	0	01:50			0.07

 Flow Classification Summary

Inlet Conduit Ctrl	Adjusted /Actual Length	Fraction of Time in Flow Class							
		Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd
NCB2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
NCB3	1.00	0.00	0.00	0.00	0.87	0.13	0.00	0.00	0.02
NCB6	1.00	0.68	0.00	0.00	0.02	0.30	0.00	0.00	0.06
NCB8	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NCB11	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.00

NCB Ponding Areas

0.00										
0.00	NCB12	1.00	0.00	0.00	0.00	0.48	0.52	0.00	0.00	0.04
0.00	NCB13	1.00	0.57	0.00	0.00	0.05	0.38	0.00	0.00	0.11
0.00	NCB14_NCB29_1	1.00	0.42	0.00	0.00	0.08	0.50	0.00	0.00	0.13
0.00	NCB7	1.00	0.00	0.00	0.00	0.65	0.35	0.00	0.00	0.06
0.00	NCB16	1.00	0.73	0.00	0.00	0.27	0.00	0.00	0.00	0.00
0.00	NCB1	1.00	0.48	0.00	0.00	0.31	0.21	0.00	0.00	0.04
0.00	NCB9	1.00	0.00	0.00	0.00	0.92	0.08	0.00	0.00	0.02
0.00	NCB18_1L	1.00	0.00	0.00	0.00	0.67	0.33	0.00	0.00	0.07
0.00	NCB18_1R	1.00	0.53	0.00	0.00	0.16	0.31	0.00	0.00	0.06
0.00	NCB15	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00	NCB17	1.00	0.00	0.00	0.00	0.60	0.40	0.00	0.00	0.07
0.00	NCB20	1.00	0.48	0.00	0.00	0.08	0.44	0.00	0.00	0.13
0.00	NCB16_2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00	NCB21_RR	1.00	0.00	0.00	0.00	0.78	0.22	0.00	0.00	0.06
0.00	NCB24_25	1.00	0.00	0.00	0.00	0.73	0.27	0.00	0.00	0.07
0.00	NCB26	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00	NCB27_2	1.00	0.05	0.00	0.00	0.61	0.34	0.00	0.00	0.06
0.00										

 Conduit Surcharge Summary

Conduit	----- Both Ends	Hours Full Upstream	----- Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
NCB2	2.52	3.34	2.52	3.49	2.52
NCB3	0.01	1.47	0.01	1.70	0.01
NCB11	0.01	5.70	0.01	5.84	0.01
NCB12	0.01	0.01	0.01	0.57	0.01
NCB14_NCB29_1	0.01	1.03	0.01	1.37	0.01
NCB16	0.01	3.92	0.01	4.21	0.01
NCB1	0.01	0.01	0.01	1.43	0.01
NCB9	0.01	4.23	0.01	4.28	0.01
NCB18_1L	2.96	3.03	2.96	3.19	2.96
NCB18_1R	2.99	3.01	3.00	3.18	2.99
NCB15	0.01	5.07	0.01	5.89	0.01
NCB17	0.01	3.76	0.01	3.97	0.01
NCB16_2	0.01	4.34	0.01	4.60	0.01
NCB21_RR	0.01	6.70	0.01	6.74	0.01
NCB24_25	0.01	1.39	0.08	1.51	0.01
NCB26	0.01	3.95	0.01	4.10	0.01
NCB27_2	1.41	1.87	1.41	2.30	1.41

NCB Ponding Areas

Analysis begun on: Tue Nov 13 13:22:19 2018
Analysis ended on: Tue Nov 13 13:22:22 2018
Total elapsed time: 00:00:03

NORTH I-25 BASIN CALCULATIONS



JVA Incorporated
 213 Linden Street Suite 200
 Fort Collins, CO 80524
 Ph: (970) 225 9099

Job Name: Town of Mead - Drainage Master Plan Update
 Job Number: 1970.76c
 Date: 11/9/18
 By: LAT

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_a = 0.84i^{.302}$	$C_a = 0.86i^{.276}$	$C_a = 0.87i^{.232}$	$C_a = 0.84i^{.124}$	$C_a = 0.85i+0.025$	$C_a = 0.78i+0.110$	$C_a = 0.65i+0.254$
B	$C_b = 0.84i^{.169}$	$C_b = 0.86i^{.088}$	$C_b = 0.81i+0.057$	$C_b = 0.63i+0.249$	$C_b = 0.56i+0.328$	$C_b = 0.47i+0.426$	$C_b = 0.37i+0.536$
C/D	$C_{c/d} = 0.83i^{.122}$	$C_{c/d} = 0.82i+0.035$	$C_{c/d} = 0.74i+0.132$	$C_{c/d} = 0.56i+0.319$	$C_{c/d} = 0.49i+0.393$	$C_{c/d} = 0.41i+0.484$	$C_{c/d} = 0.32i+0.588$

Town of Mead - Drainage Master Plan Update
Composite Runoff Coefficient Calculations North I25 Basin

Location: Mead
 Minor Design Storm: 10
 Major Design Storm: 100
 Soil Type: C/D

Basin Design Data																				Runoff Coeff's					
Basin Name	Design Point	100%	90%	40%	90%	95%	85%	90%	50%	55%	50%	45%	30%	20%	10%	2%	2%	100%		I (%)	Runoff Coeff's				
		A _{Paved} (sf)	A _{Drive/Walks Concrete} (sf)	A _{Gravel} (sf)	A _{Roof} (sf)	A _{Business Commercial} (sf)	A _{Business Neighborhood} (sf)	A _{Industrial Heavy} (sf)	A _{Railroad yard} (sf)	A _{School} (sf)	A _{Ag Bldg/Residential} (sf)	A _{single family (<.25 acre lot only)} (sf)	A _{single family (.25-.75 acre lot only)} (sf)	A _{single family (>.75 acre lot only)} (sf)	A _{parks/Cemetary} (sf)	A _{lawns} (sf)	A _{Ag/Green Belt} (sf)	A _{WATER} (sf)	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	C2	C5	C10	C100
NI25B1	43	123,128	9,408	9,927										703,354			2,912,268		3,758,085	86.27	8.9%	0.05	0.11	0.20	0.52
NI25B2	44	144,427		77,459													3,946,774		4,168,660	95.70	6.1%	0.04	0.09	0.18	0.51
NI25B3	45	468,594	160,624	103,780								1,323,273		254,977	37,792		2,945,040		5,294,080	121.54	25.8%	0.18	0.25	0.32	0.59
NI25B4	46	264,649	57,062	136,221								27,955					3,970,880		4,456,767	102.31	10.4%	0.07	0.12	0.21	0.53
																			0	0.00					
TOTAL SITE		1,000,798	227,094	327,387	0	0	0	0	0	0	0	1,351,228	0	958,331	37,792	0	13,774,962	0	17,677,592	405.82	13.7%	0.09	0.15	0.23	0.54

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
NI25B1	43	100yr	0.1348028	0.321022727	0.6075758	0.02680798	8.900335144	0.35	0.1	3	0.0018	0.5	0
NI25B2	44	100yr	0.1495301	0.229924242	0.7918561	0.022422865	6.101387016	0.4	0.1	3	0.0018	0.5	0
NI25B3	45	100yr	0.189899	0.279166667	0.8422348	0.015525073	25.76114925	0.35	0.1	3	0.0018	0.5	0
NI25B4	46	100yr	0.1598645	0.537878788	1.2032197	0.018731308	10.37726563	0.4	0.1	3	0.0018	0.5	0

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in.hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
NI25B1	43	100YR	0.135	0.321	0.608	0.027	8.9	0.35	0.10	3.00	0.50	0.0018	0.00	0.18	0.09	8.16
NI25B2	44	100YR	0.150	0.230	0.792	0.022	6.1	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.57
NI25B3	45	100YR	0.190	0.279	0.842	0.016	25.8	0.35	0.10	3.00	0.50	0.0018	0.00	0.52	0.15	24.60
NI25B4	46	100YR	0.160	0.538	1.203	0.019	10.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.21	0.10	9.55

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
NI25B1		0.133	0.164	41.3	6.70	21.5	4.73	11.2	98	313,174	1.87	587,143	50.0	134	587,381	1.55
NI25B2		0.142	0.182	40.2	7.13	20.9	5.04	11.9	112	347,388	1.80	624,183	50.0	146	624,071	1.53
NI25B3		0.105	0.170	39.3	6.62	20.4	4.68	11.0	145	441,173	2.07	913,686	45.0	208	914,051	1.71
NI25B4		0.128	0.171	73.7	11.18	38.3	7.90	18.6	65	371,397	1.85	685,837	65.0	102	685,701	1.00

Printouts for Unit Hydrographs

flow in cfs

time in minutes	NI25B1	NI25B2	NI25B3	NI25B4
5	56.62	59.69	85.02	18.09
10	96.45	107.78	143.21	45.90
15	96.64	110.59	142.66	61.66
20	91.11	104.35	133.22	65.07
25	81.20	92.55	116.48	64.39
30	70.57	80.07	101.85	62.83
35	63.72	71.95	91.14	60.39
40	56.86	63.83	80.43	57.07
45	50.01	55.76	70.89	52.87
50	45.59	51.08	64.69	48.34
55	41.62	46.40	58.49	45.81
60	37.64	41.72	52.30	43.27
65	33.67	37.04	46.10	40.73
70	29.69	32.36	39.91	38.19
75	25.71	27.67	33.71	35.66
80	21.74	22.99	28.50	33.12
85	18.98	20.99	26.44	31.41
90	17.65	19.43	24.37	29.93
95	16.33	17.87	22.30	28.45
100	15.00	16.31	20.24	26.97
105	13.68	14.75	18.17	25.50
110	12.35	13.19	16.11	24.02
115	11.03	11.63	14.04	22.54
120	9.70	10.07	11.98	21.06
125	8.37	8.51	9.91	19.59
130	7.05	6.95	7.85	18.11
135	5.72	5.39	5.78	16.63
140	4.40	3.83	3.72	15.15
145	3.07	2.27	1.65	13.67
150	1.75	0.71	0.00	12.75
155	0.42	0.00		12.25
160	0.00			11.76
165				11.27
170				10.78
175				10.28
180				9.79
185				9.30
190				8.81
195				8.31
200				7.82
205				7.33
210				6.84
215				6.34
220				5.85
225				5.36
230				4.87
235				4.37
240				3.88
245				3.39
250				2.90
255				2.40
260				1.91
265				1.42
270				0.93
275				0.43
280				0.00

NI25B ROUTING CALCULATIONS

NORTH I25 BASIN

END Basin

End Node	Upstream Nodes
NI25B3	NI25B2
NI25B3	NI25B1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
NI25B3	45.0	0
NI25B1	50.0	45.0
NI25B2	50.0	45.0

flow in cfs

time in minutes	N125B3	N125B2	N125B1	Total to N125B3	imax
0	0.00			0.00	395
5	0.12			0.12	
10	1.57			1.57	
15	6.77			6.77	
20	29.32			29.32	
25	97.57			97.57	
30	163.94			163.94	
35	196.39			196.39	
40	207.81			207.81	
45	206.45	0.00	0.00	206.45	
50	198.93	0.00	0.01	198.94	
55	190.60	0.06	0.13	190.79	
60	182.51	0.51	0.98	184.00	
65	170.81	8.92	12.27	192.01	
70	157.94	53.86	56.27	268.07	
75	144.34	105.59	101.32	351.25	
80	130.22	133.64	124.11	387.97	
85	116.79	145.30	133.19	395.29	
90	104.02	146.47	133.69	384.18	
95	92.01	141.45	129.09	362.55	
100	81.71	135.80	124.10	341.62	
105	74.00	130.18	119.19	323.37	
110	67.60	121.45	111.39	300.44	
115	61.94	111.92	102.75	276.61	
120	56.15	102.07	93.97	252.18	
125	50.30	91.88	84.98	227.16	
130	44.73	82.17	76.44	203.35	
135	39.52	73.00	68.37	180.90	
140	34.65	64.14	60.58	159.37	
145	29.94	55.94	53.29	139.17	
150	25.34	49.76	47.24	122.34	
155	20.82	44.82	42.60	108.24	
160	16.40	40.56	38.70	95.66	
165	12.18	36.63	35.10	83.92	
170	8.65	32.94	31.72	73.31	
175	6.36	29.48	28.55	64.39	
180	4.75	26.24	25.58	56.57	
185	3.53	23.24	22.82	49.59	
190	2.61	20.32	20.19	43.13	
195	1.93	17.46	17.62	37.01	
200	1.40	14.62	15.08	31.09	
205	1.04	11.78	12.55	25.37	
210	0.82	8.96	10.03	19.80	
215	0.64	6.26	7.53	14.43	
220	0.51	4.21	5.21	9.93	
225	0.40	2.91	3.56	6.86	
230	0.30	2.01	2.49	4.80	
235	0.21	1.35	1.74	3.31	
240	0.14	0.88	1.19	2.21	
245	0.08	0.53	0.79	1.41	
250	0.04	0.30	0.50	0.84	
255	0.01	0.18	0.30	0.49	
260	0.00	0.12	0.20	0.32	
265	0.00	0.09	0.14	0.23	
270	0.00	0.07	0.11	0.18	
275	0.00	0.05	0.09	0.14	
280	0.00	0.04	0.07	0.11	
285	0.00	0.03	0.05	0.08	
290	0.00	0.02	0.03	0.05	
295	0.00	0.01	0.02	0.03	
300	0.00	0.00	0.01	0.02	
305	0.00	0.00	0.00	0.01	
310	0.00	0.00	0.00	0.00	
315	0.00	0.00	0.00	0.00	

NI25B SWMM INPUT

NI25 ponding areas

[TITLE]

;;Project Title/Notes

[OPTIONS]

```

;;Option      value
FLOW_UNITS    CFS
INFILTRATION  HORTON
FLOW_ROUTING  KINWAVE
LINK_OFFSETS  DEPTH
MIN_SLOPE     0
ALLOW_PONDING NO
SKIP_STEADY_STATE NO

START_DATE    05/10/2018
START_TIME    00:00:00
REPORT_START_DATE 05/10/2018
REPORT_START_TIME 00:00:00
END_DATE      05/10/2018
END_TIME      08:00:00
SWEEP_START   01/01
SWEEP_END     12/31
DRY_DAYS      0
REPORT_STEP   00:15:00
WET_STEP      00:05:00
DRY_STEP      01:00:00
ROUTING_STEP  0:00:30
    
```

```

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP     0.75
LENGTHENING_STEP  0
MIN_SURFAREA      12.557
MAX_TRIALS         8
HEAD_TOLERANCE    0.005
SYS_FLOW_TOL      5
LAT_FLOW_TOL      5
MINIMUM_STEP      0.5
THREADS           1
    
```

[EVAPORATION]

```

;;Data Source Parameters
;;-----
CONSTANT      0.0
DRY_ONLY      NO
    
```

[OUTFALLS]

```

;;Name      Elevation  Type      Stage Data      Gated      Route To
;;-----
NI25B_0     69.26      FREE
NI25B3_0    0          FREE
    
```

[STORAGE]

```

;;Name      Elev.      MaxDepth      InitDepth      Shape      Curve Name/Params
  N/A      Fevap      Psi      Ksat      IMD
;;-----
NI25B1      74         4           0           TABULAR    NI25B1
  0          0
NI25B3      0          0           0           FUNCTIONAL 1000      0      0
  0          0
    
```

[CONDUITS]

;;Name		From Node		NI25 ponding areas		Length	Roughness	InOffset
OutOffset	InitFlow	Node	MaxFlow	To Node				
NI25B1	0	NI25B1	0	NI25B_0		104	0.012	0
NI25B3	0	NI25B3	0	NI25B3_0		400	0.013	0

[XSECTIONS]							
;;Link	Shape	Geom1	Geom2	Geom3	Geom4		
Barrels	Culvert						
NI25B1	CIRCULAR	2	0	0	0	0	1
NI25B3	CIRCULAR	5	0	0	0	0	1

[INFLOWS]						
;;Node	Constituent	Time Series	Type	Mfactor	Sfactor	
Baseline	Pattern					
NI25B1	FLOW	NI25B1	FLOW	1.0	1.0	

[CURVES]			
;;Name	Type	X-Value	Y-Value
NI25B1	Storage	0	14733
NI25B1		1	47255
NI25B1		2	91755
NI25B1		3	137108
NI25B1		4	163331

[TIMESERIES]			
;;Name	Date	Time	Value
NI25B1	5/10/2018	0:00	0.00
NI25B1	5/10/2018	0:05	0.01
NI25B1	5/10/2018	0:10	0.13
NI25B1	5/10/2018	0:15	0.98
NI25B1	5/10/2018	0:20	12.27
NI25B1	5/10/2018	0:25	56.27
NI25B1	5/10/2018	0:30	101.32
NI25B1	5/10/2018	0:35	124.11
NI25B1	5/10/2018	0:40	133.19
NI25B1	5/10/2018	0:45	133.69
NI25B1	5/10/2018	0:50	129.09
NI25B1	5/10/2018	0:55	124.10
NI25B1	5/10/2018	1:00	119.19
NI25B1	5/10/2018	1:05	111.39
NI25B1	5/10/2018	1:10	102.75
NI25B1	5/10/2018	1:15	93.97
NI25B1	5/10/2018	1:20	84.98
NI25B1	5/10/2018	1:25	76.44
NI25B1	5/10/2018	1:30	68.37
NI25B1	5/10/2018	1:35	60.58
NI25B1	5/10/2018	1:40	53.29
NI25B1	5/10/2018	1:45	47.24
NI25B1	5/10/2018	1:50	42.60
NI25B1	5/10/2018	1:55	38.70

			NI25 ponding areas
NI25B1	5/10/2018	2:00	35.10
NI25B1	5/10/2018	2:05	31.72
NI25B1	5/10/2018	2:10	28.55
NI25B1	5/10/2018	2:15	25.58
NI25B1	5/10/2018	2:20	22.82
NI25B1	5/10/2018	2:25	20.19
NI25B1	5/10/2018	2:30	17.62
NI25B1	5/10/2018	2:35	15.08
NI25B1	5/10/2018	2:40	12.55
NI25B1	5/10/2018	2:45	10.03
NI25B1	5/10/2018	2:50	7.53
NI25B1	5/10/2018	2:55	5.21
NI25B1	5/10/2018	3:00	3.56
NI25B1	5/10/2018	3:05	2.49
NI25B1	5/10/2018	3:10	1.74
NI25B1	5/10/2018	3:15	1.19
NI25B1	5/10/2018	3:20	0.79
NI25B1	5/10/2018	3:25	0.50
NI25B1	5/10/2018	3:30	0.30
NI25B1	5/10/2018	3:35	0.20
NI25B1	5/10/2018	3:40	0.14
NI25B1	5/10/2018	3:45	0.11
NI25B1	5/10/2018	3:50	0.09
NI25B1	5/10/2018	3:55	0.07
NI25B1	5/10/2018	4:00	0.05
NI25B1	5/10/2018	4:05	0.03
NI25B1	5/10/2018	4:10	0.02
NI25B1	5/10/2018	4:15	0.01
NI25B1	5/10/2018	4:20	0.00
NI25B1	5/10/2018	4:25	0.00
NI25B1	5/10/2018	4:30	0.00
NI25B1	5/10/2018	4:35	0.00
NI25B1	5/10/2018	4:40	0.00
NI25B1	5/10/2018	4:45	0.00
NI25B1	5/10/2018	4:50	0.00
NI25B1	5/10/2018	4:55	0.00
NI25B1	5/10/2018	5:00	0.00
NI25B1	5/10/2018	5:05	0.00
NI25B1	5/10/2018	5:10	0.00
NI25B1	5/10/2018	5:15	0.00
NI25B1	5/10/2018	5:20	0.00
NI25B1	5/10/2018	5:25	0.00
NI25B1	5/10/2018	5:30	0.00
NI25B1	5/10/2018	5:35	0.00
NI25B1	5/10/2018	5:40	0.00
NI25B1	5/10/2018	5:45	0.00
NI25B1	5/10/2018	5:50	0.00
NI25B1	5/10/2018	5:55	0.00
NI25B1	5/10/2018	6:00	0.00
NI25B1	5/10/2018	6:05	0.00
NI25B1	5/10/2018	6:10	0.00
NI25B1	5/10/2018	6:15	0.00
NI25B1	5/10/2018	6:20	0.00
NI25B1	5/10/2018	6:25	0.00
NI25B1	5/10/2018	6:30	0.00
NI25B1	5/10/2018	6:35	0.00

```

[REPORT]
;;Reporting Options
INPUT NO
CONTROLS NO
SUBCATCHMENTS ALL
NODES ALL

```

NI25 ponding areas

LINKS ALL

[TAGS]

[MAP]

DIMENSIONS 0.000 0.000 10000.000 10000.000
Units None

[COORDINATES]

;;Node	X-Coord	Y-Coord
NI25B_0	-1618.141	7200.448
NI25B3_0	-530.565	4232.987
NI25B1	-3309.071	7323.628
NI25B3	-1730.104	4486.736

[VERTICES]

;;Link	X-Coord	Y-Coord
--------	---------	---------

NI25 ponding areas

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

WARNING 04: minimum elevation drop used for Conduit NI25B3

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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Flow Routing Method KINWAVE
Starting Date 05/10/2018 00:00:00
Ending Date 05/10/2018 08:00:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Routing Time Step 30.00 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	13.484	4.394
External Outflow	13.469	4.389
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	0.016	0.005
Continuity Error (%)	-0.005	

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step : 30.00 sec
Average Time Step : 30.00 sec
Maximum Time Step : 30.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 1.38

Percent Not Converging : NI25 ponding areas
0.00

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
NI25B_0	OUTFALL	0.72	1.99	71.25	0 03:14	1.68
NI25B3_0	OUTFALL	0.00	0.00	0.00	0 00:00	0.00
NI25B1	STORAGE	1.07	3.24	77.24	0 01:41	3.23
NI25B3	STORAGE	0.00	0.00	0.00	0 00:00	0.00

Node Inflow Summary

Total Inflow Volume Node gal	Flow Balance Error Percent	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	10^6
4.39	0.000	OUTFALL	0.00	55.24	0 03:07	0	
0	0.000 gal	OUTFALL	0.00	0.00	0 00:00	0	
4.39	0.229	STORAGE	133.69	133.69	0 00:45	4.39	
0	0.000 gal	STORAGE	0.00	0.00	0 00:00	0	

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

of Max	Maximum	Average volume	Avg Pcmt	Evap Pcmt	Exfil Pcmt	Maximum volume	Max Pcmt	Time
--------	---------	----------------	----------	-----------	------------	----------------	----------	------

Occurrence Storage Unit hr:min	Outflow Unit CFS	NI25 ponding areas						
		1000 ft3	Full	Loss	Loss	1000 ft3	Full	days
NI25B1 01:41	52.35	64.748	18	0	0	247.955	68	0
NI25B3 00:00	0.00	0.000	0	0	0	0.000	0	0

 Outfall Loading Summary

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
NI25B_O	96.98	21.01	55.24	4.389
NI25B3_O	0.00	0.00	0.00	0.000
System	48.49	21.01	55.24	4.389

 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
NI25B1	CONDUIT	55.24	0 03:07	19.06	1.06	1.00
NI25B3	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

 Conduit Surcharge Summary

Conduit	----- Both Ends	Hours Full Upstream	----- Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
NI25B1	2.59	2.59	2.59	0.42	2.59

Analysis begun on: Tue Nov 13 13:39:37 2018
 Analysis ended on: Tue Nov 13 13:39:37 2018
 Total elapsed time: < 1 sec

MULLIGAN LAKE BASIN CALCULATIONS



JVA Incorporated
 213 Linden Street Suite 200
 Fort Collins, CO 80524
 Ph: (970) 225 9099

Job Name: Town of Mead - Drainage Master Plan Update
 Job Number: 1970.76c
 Date: 11/9/18
 By: LAT

Town of Mead - Drainage Master Plan Update

Composite Runoff Coefficient Calculations Mulligan Lake Basin

Location:	Mead
Minor Design Storm:	10
Major Design Storm:	100
Soil Type:	C/D

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_A = 0.84i^{1.02}$	$C_A = 0.86i^{0.275}$	$C_A = 0.87i^{0.232}$	$C_A = 0.84i^{0.224}$	$C_A = 0.85i+0.025$	$C_A = 0.78i+0.110$	$C_A = 0.65i+0.254$
B	$C_B = 0.84i^{1.089}$	$C_B = 0.86i^{0.088}$	$C_B = 0.81i+0.057$	$C_B = 0.63i+0.249$	$C_B = 0.56i+0.328$	$C_B = 0.47i+0.426$	$C_B = 0.37i+0.536$
C/D	$C_{C/D} = 0.83i^{1.122}$	$C_{C/D} = 0.82i+0.035$	$C_{C/D} = 0.74i+0.132$	$C_{C/D} = 0.56i+0.319$	$C_{C/D} = 0.49i+0.393$	$C_{C/D} = 0.41i+0.484$	$C_{C/D} = 0.32i+0.588$

Basin Design Data		100%	90%	40%	90%	95%	85%	90%	50%	55%	50%	45%	30%	20%	10%	2%	2%	100%			I (%)	Runoff Coeff's			
Basin Name	Design Point	A _{Paved} (sf)	A _{Drive/Walks Concrete} (sf)	A _{Gravel} (sf)	A _{Roof} (sf)	A _{Business Commercial} (sf)	A _{Business Neighborhood} (sf)	A _{Industrial Heavy} (sf)	A _{Railroad yard} (sf)	A _{School} (sf)	A _{Ag Bldg/Residential} (sf)	A _{Single family (<.25 acre lot only)} (sf)	A _{Single family (.25-.75 acre lot only)} (sf)	A _{Single family (>.75 acre lot only)} (sf)	A _{Parks/Cemetery} (sf)	A _{Lawns} (sf)	A _{Ag/Green Belt} (sf)	A _{WATER} (sf)	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	C2	C5	C10	C100
MLB1	4	92,512									12,365			1,945,640			284,937		2,335,454	53.61	21.1%	0.15	0.21	0.29	0.57
MLB2	5	22,625	20,060	450,500													3,047,955		3,541,140	81.29	8.0%	0.05	0.10	0.19	0.52
MLB3	6	261,023		73,442										2,382,638					2,717,103	62.38	28.2%	0.20	0.27	0.34	0.60
MLB4	7	31,544															70,001		101,545	2.33	32.4%	0.23	0.30	0.37	0.62
MLB5	8	366,931		217,956										5,751,020			474,825		6,810,732	156.35	23.7%	0.16	0.23	0.31	0.58
MLB6	9	153,360		23,328										3,670,199					3,846,887	88.31	23.3%	0.16	0.23	0.30	0.58
MLB7	10	244,225		685,780	2,305												5,132,161		6,064,471	139.22	10.3%	0.06	0.12	0.21	0.53
MLB8	11	119,930		303,750													5,145,230		5,568,910	127.84	6.2%	0.04	0.09	0.18	0.51
MLB9	12	39,489		344,134	6,717									1,606,713			7,970,897	4,214,376	14,182,326	325.58	34.4%	0.25	0.32	0.39	0.63
MLB10	13	166,375		143,588										2,648,995			161,210	579,483	3,699,651	84.93	36.1%	0.26	0.33	0.40	0.63
TOTAL SITE		1,498,014	20,060	2,242,478	9,022	0	0	0	0	0	12,365	0	0	18,005,205	0	0	22,287,216	4,793,859	48,868,219	1121.86	23.1%	0.16	0.22	0.30	0.58

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
MLB1	4	100yr	0.0837729	0.368939394	0.7895833	0.002988726	21.13170459	0.35	0.1	3	0.0018	0.5	0
MLB2	5	100yr	0.1270209	0.332954545	0.7577652	0.016003499	7.958965192	0.4	0.1	3	0.0018	0.5	0
MLB3	6	100yr	0.0974627	0.36344697	0.6407197	0.01162282	28.22592298	0.35	0.1	3	0.0018	0.5	0
MLB4	7	100yr	0.0036424	0.210606061	0.4416667	0.01212693	32.44277906	0.35	0.1	3	0.0018	0.5	0
MLB5	8	100yr	0.2443014	0.524431818	0.9757576	0.010873447	23.69516081	0.35	0.1	3	0.0018	0.5	0
MLB6	9	100yr	0.1379881	0.391666667	0.6371212	0.012945898	23.31056254	0.35	0.1	3	0.0018	0.5	0
MLB7	10	100yr	0.217533	0.598674242	1.0261364	0.007320044	10.27714899	0.4	0.1	3	0.0018	0.5	0
MLB8	11	100yr	0.1997572	0.390340909	0.7149621	0.016389404	6.183159721	0.4	0.1	3	0.0018	0.5	0
MLB9	12	100yr	0.5087209	0.361742424	1.0645833	0.014327522	34.39720988	0.35	0.1	3	0.0018	0.5	0
MLB10	13	100yr	0.1327067	0.132765152	0.4507576	0.008956797	36.12006646	0.35	0.1	3	0.0018	0.5	0

MULLIGAN LAKE BASIN

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in./hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
MLB1	4	100YR	0.084	0.369	0.790	0.003	21.1	0.35	0.10	3.00	0.50	0.0018	0.00	0.42	0.13	20.02
MLB2	5	100YR	0.127	0.333	0.758	0.016	8.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.16	0.08	7.29
MLB3	6	100YR	0.097	0.363	0.641	0.012	28.2	0.35	0.10	3.00	0.50	0.0018	0.00	0.56	0.16	27.06
MLB4	7	100YR	0.004	0.211	0.442	0.012	32.4	0.35	0.10	3.00	0.50	0.0018	0.00	0.65	0.18	31.31
MLB5	8	100YR	0.244	0.524	0.976	0.011	23.7	0.35	0.10	3.00	0.50	0.0018	0.00	0.47	0.14	22.55
MLB6	9	100YR	0.138	0.392	0.637	0.013	23.3	0.35	0.10	3.00	0.50	0.0018	0.00	0.47	0.14	22.17
MLB7	10	100YR	0.218	0.599	1.026	0.007	10.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.21	0.10	9.45
MLB8	11	100YR	0.200	0.390	0.715	0.016	6.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.64
MLB9	12	100YR	0.509	0.362	1.065	0.014	34.4	0.35	0.10	3.00	0.50	0.0018	0.00	0.69	0.18	33.31
MLB10	13	100YR	0.133	0.133	0.451	0.009	36.1	0.35	0.10	3.00	0.50	0.0018	0.00	0.72	0.19	35.07

MULLIGAN LAKE BASIN

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
MLB1		0.110	0.119	96.7	10.37	50.3	7.33	17.3	26	194,621	2.02	392,538	70.0	46	392,429	0.85
MLB2		0.136	0.163	54.5	8.32	28.3	5.88	13.9	70	295,095	1.82	536,578	55.0	100	536,209	1.23
MLB3		0.102	0.134	51.6	6.83	26.9	4.82	11.4	57	226,425	2.10	475,477	50.0	88	475,595	1.41
MLB4		0.098	0.033	127.3	4.77	66.2	3.37	7.9	1	8,462	2.15	18,190	70.0	2	18,179	0.70
MLB5		0.107	0.183	58.9	9.78	30.6	6.91	16.3	124	567,561	2.05	1,161,721	55.0	198	1,160,965	1.27
MLB6		0.108	0.149	49.4	7.15	25.7	5.05	11.9	84	320,574	2.04	654,731	50.0	127	654,797	1.43
MLB7		0.128	0.191	81.1	13.36	42.2	9.44	22.3	80	505,373	1.85	932,628	70.0	129	932,359	0.93
MLB8		0.142	0.203	47.6	8.93	24.8	6.31	14.9	126	464,076	1.80	834,284	50.0	173	833,838	1.36
MLB9		0.097	0.272	29.2	7.61	15.2	5.38	12.7	522	1,181,861	2.17	2,567,906	45.0	720	2,565,791	2.21
MLB10		0.096	0.180	20.0	4.27	10.4	3.01	7.1	199	308,304	2.19	676,168	35.0	234	671,502	2.76

Printouts for Unit Hydrographs

flow in cfs										
Time in minutes	MUB1	MUB2	MUB3	MUB4	MUB5	MUB6	MUB7	MUB8	MUB9	MUB10
5	8.08	30.30	31.98	0.69	42.52	44.63	16.86	49.25	255.97	174.86
10	19.57	62.36	55.46	0.86	98.52	80.79	46.66	106.93	489.60	191.60
15	25.36	69.86	56.33	0.86	123.26	83.34	68.55	125.80	514.96	146.36
20	25.96	68.60	54.45	0.85	123.61	80.59	79.32	123.40	449.79	116.50
25	25.79	65.61	51.20	0.84	120.19	75.38	80.35	116.37	364.05	92.24
30	25.42	60.89	46.50	0.83	114.00	67.71	79.37	104.73	308.70	75.38
35	24.88	54.44	41.47	0.82	105.06	60.48	77.45	91.79	256.79	58.31
40	24.17	49.73	38.37	0.80	93.36	55.63	74.58	84.02	225.97	41.34
45	23.28	46.04	35.26	0.78	87.20	50.79	70.78	76.25	195.15	34.69
50	22.22	42.36	32.16	0.76	81.08	45.94	66.04	68.48	164.34	29.04
55	20.98	38.68	29.05	0.74	74.97	41.43	60.36	61.65	133.52	23.38
60	19.56	34.99	26.92	0.71	68.85	38.60	57.49	57.19	103.86	17.73
65	18.78	32.83	25.10	0.68	62.74	35.77	54.61	52.73	93.59	12.07
70	18.03	30.69	23.28	0.65	58.96	32.94	51.74	48.27	83.31	6.41
75	17.28	28.54	21.45	0.63	55.42	30.10	48.86	43.81	73.04	0.76
80	16.53	26.40	19.63	0.61	51.88	27.27	45.99	39.35	62.77	0.00
85	15.78	24.25	17.81	0.59	48.33	24.44	43.11	34.89	52.50	
90	15.03	22.11	15.98	0.57	44.79	21.61	40.24	30.43	42.22	
95	14.28	19.97	14.16	0.56	41.25	18.78	38.58	25.97	31.95	
100	13.54	17.82	12.34	0.54	37.71	16.49	36.91	23.94	21.68	
105	12.87	15.68	11.05	0.52	34.17	15.55	35.24	22.46	11.40	
110	12.43	13.83	10.45	0.50	30.62	14.60	33.58	20.97	1.13	
115	11.98	13.12	9.84	0.48	27.08	13.66	31.91	19.48	0.00	
120	11.54	12.40	9.23	0.47	24.43	12.72	30.25	18.00		
125	11.10	11.69	8.62	0.45	23.25	11.77	28.58	16.51		
130	10.65	10.97	8.02	0.43	22.07	10.83	26.91	15.02		
135	10.21	10.26	7.41	0.42	20.89	9.89	25.25	13.54		
140	9.77	9.54	6.80	0.41	19.71	8.94	23.58	12.05		
145	9.32	8.83	6.19	0.40	18.53	8.00	21.92	10.56		
150	8.88	8.11	5.59	0.39	17.34	7.05	20.25	9.08		
155	8.43	7.40	4.98	0.38	16.16	6.11	18.59	7.59		
160	7.99	6.68	4.37	0.36	14.98	5.17	16.92	6.10		
165	7.55	5.97	3.76	0.35	13.80	4.22	15.82	4.62		
170	7.10	5.25	3.16	0.34	12.62	3.28	15.26	3.13		
175	6.66	4.54	2.55	0.33	11.44	2.34	14.71	1.64		
180	6.22	3.82	1.94	0.32	10.26	1.39	14.15	0.16		
185	5.77	3.11	1.33	0.31	9.08	0.45	13.60	0.00		
190	5.33	2.39	0.73	0.30	7.90	0.00	13.04			
195	5.09	1.68	0.12	0.29	6.72		12.49			
200	4.95	0.96	0.00	0.28	5.54		11.93			
205	4.80	0.25		0.27	4.36		11.37			
210	4.65	0.00		0.26	3.18		10.82			
215	4.50			0.24	2.00		10.26			
220	4.35			0.23	0.82		9.71			
225	4.21			0.22	0.00		9.15			
230	4.06			0.21			8.60			
235	3.91			0.20			8.04			
240	3.76			0.19			7.49			
245	3.61			0.18			6.93			
250	3.47			0.17			6.38			
255	3.32			0.17			5.82			
260	3.17			0.16			5.27			
265	3.02			0.16			4.71			
270	2.87			0.16			4.16			
275	2.73			0.15			3.60			
280	2.58			0.15			3.05			
285	2.43			0.14			2.49			
290	2.28			0.14			1.94			
295	2.13			0.14			1.38			
300	1.99			0.13			0.82			
305	1.84			0.13			0.27			
310	1.69			0.13			0.00			
315	1.54			0.12						
320	1.40			0.12						
325	1.25			0.12						
330	1.10			0.11						
335	0.95			0.11						
340	0.80			0.10						
345	0.66			0.10						
350	0.51			0.10						
355	0.36			0.09						
360	0.21			0.09						
365	0.06			0.08						
370	0.00			0.08						
375				0.08						
380				0.08						
385				0.07						
390				0.07						
395				0.06						
400				0.06						
405				0.06						
410				0.05						
415				0.05						
420				0.05						
425				0.04						
430				0.04						
435				0.04						
440				0.03						
445				0.03						
450				0.02						
455				0.02						
460				0.02						
465				0.01						
470				0.01						
475				0.01						
480				0.00						
485				0.00						

MLB ROUTING CALCULATIONS

MULLIGAN LAKE BASIN

END Basin MLB2

End Node	Upstream Nodes
MLB2	MLB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
MLB2	55	0
MLB1	70	55

END Basin MLB3

End Node	Upstream Nodes	
MLB3	MLB2	MLB1
MLB3	MLB4	

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
MLB3	50	0
MLB4	70	50
MLB2	55	50
MLB1	70	105

END Basin MLB5

End Node	Upstream Nodes		
MLB5	MLB3	MLB2	MLB1
MLB5	MLB3	MLB4	

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
MLB5	55	0
MLB3	50	55
MLB4	70	105
MLB2	55	105
MLB1	70	160

END Basin MLB7

End Node	Upstream Nodes
MLB7	MLB6
MLB7	MLB9

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
MLB7	70	0
MLB6	50	70
MLB9	45	70

Time in minutes	M/LB2	M/LB1	Total to	max
0	0.00		0.00	100
5	0.00		0.00	
10	0.06		0.06	
15	0.37		0.37	
20	5.02		5.02	
25	29.21		29.21	
30	61.31		61.31	
35	82.38		82.38	
40	93.40		93.40	
45	98.86		98.86	
50	99.92		99.92	
55	97.95	0.00	97.95	
60	95.80	0.01	95.81	
65	92.44	0.11	92.55	
70	87.37	0.57	87.94	
75	81.35	2.89	84.23	
80	74.97	10.88	85.85	
85	69.39	22.40	91.79	
90	64.36	31.74	96.10	
95	59.74	37.29	97.03	
100	55.39	40.74	96.13	
105	51.23	42.99	94.22	
110	47.19	44.46	91.65	
115	43.25	45.48	88.74	
120	39.36	45.75	85.11	
125	35.49	45.08	80.57	
130	31.97	43.68	75.65	
135	29.28	41.90	71.18	
140	27.04	40.26	67.31	
145	25.04	38.74	63.78	
150	23.23	37.25	60.49	
155	21.56	35.79	57.35	
160	20.00	34.34	54.34	
165	18.54	32.91	51.45	
170	17.17	31.51	48.67	
175	15.82	30.13	45.95	
180	14.50	28.79	43.28	
185	13.18	27.59	40.77	
190	11.86	26.48	38.34	
195	10.54	25.42	35.96	
200	9.23	24.39	33.62	
205	7.92	23.39	31.31	
210	6.61	22.42	29.03	
215	5.31	21.47	26.78	
220	4.01	20.54	24.55	
225	2.79	19.62	22.40	
230	1.90	18.71	20.60	
235	1.33	17.80	19.13	
240	0.93	16.89	17.82	
245	0.63	15.99	16.62	
250	0.42	15.08	15.50	
255	0.26	14.18	14.44	
260	0.15	13.30	13.45	
265	0.10	12.46	12.56	
270	0.07	11.78	11.85	
275	0.05	11.23	11.28	
280	0.04	10.75	10.79	
285	0.03	10.31	10.34	
290	0.02	9.91	9.93	
295	0.02	9.53	9.54	
300	0.01	9.17	9.18	
305	0.01	8.84	8.84	
310	0.00	8.52	8.52	
315	0.00	8.20	8.20	
320	0.00	7.89	7.89	
325	0.00	7.58	7.58	
330	0.00	7.27	7.27	
335	0.00	6.96	6.96	
340	0.00	6.65	6.65	
345	0.00	6.35	6.35	
350	0.00	6.05	6.05	
355	0.00	5.75	5.75	
360	0.00	5.45	5.45	
365	0.00	5.15	5.15	
370	0.00	4.85	4.85	
375	0.00	4.55	4.55	
380	0.00	4.25	4.25	
385	0.00	3.96	3.96	
390	0.00	3.66	3.66	
395	0.00	3.36	3.36	
400	0.00	3.06	3.06	
405	0.00	2.76	2.76	
410	0.00	2.46	2.46	
415	0.00	2.17	2.17	
420	0.00	1.87	1.87	
425	0.00	1.57	1.57	
430	0.00	1.27	1.27	
435	0.00	0.98	0.98	
440	0.00	0.71	0.71	
445	0.00	0.50	0.50	
450	0.00	0.37	0.37	
455	0.00	0.27	0.27	
460	0.00	0.20	0.20	
465	0.00	0.15	0.15	
470	0.00	0.11	0.11	
475	0.00	0.08	0.08	
480	0.00	0.06	0.06	
485	0.00	0.04	0.04	
490	0.00	0.03	0.03	
495	0.00	0.03	0.03	
500	0.00	0.02	0.02	
505	0.00	0.02	0.02	
510	0.00	0.01	0.01	
515	0.00	0.01	0.01	
520	0.00	0.00	0.00	
525	0.00	0.00	0.00	

Time in minutes	MLB3	MLB2	MLB1	MLB4	Total to MLB3	max
0	0.00				0.00	152
5	0.05				0.05	
10	0.71				0.71	
15	2.91				2.91	
20	11.78				11.78	
25	38.05				38.05	
30	64.44				64.44	
35	78.40				78.40	
40	85.20				85.20	
45	87.81				87.81	
50	87.01	0.00		0.00	87.01	
55	84.77	0.00		0.00	84.78	
60	82.99	0.06		0.02	83.06	
65	79.59	0.37		0.07	80.03	
70	74.87	5.02		0.25	80.14	
75	69.67	29.21		0.74	99.62	
80	64.69	61.31		1.09	127.09	
85	60.16	82.38		1.27	143.81	
90	55.96	93.40		1.39	150.76	
95	52.04	98.86		1.48	152.37	
100	48.26	99.92		1.54	149.72	
105	44.60	97.95	0.00	1.58	144.14	
110	41.04	95.80	0.01	1.63	138.47	
115	37.59	92.44	0.11	1.63	131.76	
120	34.07	87.37	0.57	1.62	123.63	
125	30.89	81.35	2.89	1.58	116.70	
130	28.31	74.97	10.88	1.55	115.70	
135	26.07	69.39	22.40	1.50	119.37	
140	24.04	64.36	31.74	1.46	121.60	
145	22.19	59.74	37.29	1.42	120.64	
150	20.47	55.39	40.74	1.38	117.99	
155	18.87	51.23	42.99	1.35	114.44	
160	17.37	47.19	44.46	1.31	110.33	
165	15.94	43.25	45.48	1.28	105.96	
170	14.56	39.36	45.75	1.24	100.91	
175	13.20	35.49	45.08	1.20	94.97	
180	11.85	31.97	43.68	1.16	88.66	
185	10.51	29.28	41.90	1.12	82.82	
190	9.19	27.04	40.26	1.08	77.57	
195	7.87	25.04	38.74	1.04	72.69	
200	6.56	23.23	37.25	1.01	68.05	
205	5.27	21.56	35.79	0.97	63.59	
210	4.01	20.00	34.34	0.94	59.30	
215	2.89	18.54	32.91	0.92	55.26	
220	2.13	17.17	31.51	0.89	51.69	
225	1.60	15.82	30.13	0.86	48.41	
230	1.22	14.50	28.79	0.84	45.33	
235	0.92	13.18	27.59	0.81	42.49	
240	0.69	11.86	26.48	0.79	39.81	
245	0.51	10.54	25.42	0.76	37.23	
250	0.37	9.23	24.39	0.74	34.73	
255	0.29	7.92	23.39	0.71	32.32	
260	0.23	6.61	22.42	0.69	29.95	
265	0.18	5.31	21.47	0.67	27.62	
270	0.14	4.01	20.54	0.64	25.33	
275	0.11	2.79	19.62	0.62	23.13	
280	0.08	1.90	18.71	0.60	21.28	
285	0.05	1.33	17.80	0.57	19.75	
290	0.03	0.93	16.89	0.55	18.40	
295	0.02	0.63	15.99	0.52	17.16	
300	0.01	0.42	15.08	0.50	16.01	
305	0.00	0.26	14.18	0.48	14.92	
310	0.00	0.15	13.30	0.45	13.90	
315	0.00	0.10	12.46	0.43	12.99	
320	0.00	0.07	11.78	0.41	12.26	
325	0.00	0.05	11.23	0.40	11.68	
330	0.00	0.04	10.75	0.38	11.17	
335	0.00	0.03	10.31	0.37	10.71	
340	0.00	0.02	9.91	0.36	10.29	
345	0.00	0.02	9.53	0.35	9.89	
350	0.00	0.01	9.17	0.34	9.52	
355	0.00	0.01	8.84	0.33	9.17	
360	0.00	0.00	8.52	0.32	8.84	
365	0.00	0.00	8.20	0.31	8.51	
370	0.00	0.00	7.89	0.31	8.19	
375	0.00	0.00	7.58	0.30	7.87	
380	0.00	0.00	7.27	0.29	7.56	
385	0.00	0.00	6.96	0.28	7.24	
390	0.00	0.00	6.65	0.27	6.93	
395	0.00	0.00	6.35	0.26	6.61	
400	0.00	0.00	6.05	0.26	6.30	
405	0.00	0.00	5.75	0.25	6.00	
410	0.00	0.00	5.45	0.24	5.69	
415	0.00	0.00	5.15	0.23	5.38	
420	0.00	0.00	4.85	0.23	5.08	
425	0.00	0.00	4.55	0.22	4.77	
430	0.00	0.00	4.25	0.21	4.46	
435	0.00	0.00	3.96	0.20	4.16	
440	0.00	0.00	3.66	0.19	3.85	
445	0.00	0.00	3.36	0.19	3.55	
450	0.00	0.00	3.06	0.18	3.24	
455	0.00	0.00	2.76	0.17	2.93	
460	0.00	0.00	2.46	0.16	2.63	
465	0.00	0.00	2.17	0.15	2.32	
470	0.00	0.00	1.87	0.15	2.01	
475	0.00	0.00	1.57	0.14	1.71	
480	0.00	0.00	1.27	0.13	1.40	
485	0.00	0.00	0.98	0.12	1.10	
490	0.00	0.00	0.71	0.12	0.82	
495	0.00	0.00	0.50	0.11	0.61	
500	0.00	0.00	0.37	0.10	0.47	
505	0.00	0.00	0.27	0.09	0.37	
510	0.00	0.00	0.20	0.08	0.29	
515	0.00	0.00	0.15	0.08	0.22	
520	0.00	0.00	0.11	0.07	0.17	
525	0.00	0.00	0.08	0.06	0.14	
530	0.00	0.00	0.06	0.05	0.11	
535	0.00	0.00	0.04	0.05	0.09	
540	0.00	0.00	0.03	0.04	0.07	
545	0.00	0.00	0.03	0.03	0.06	
550	0.00	0.00	0.02	0.02	0.04	
555	0.00	0.00	0.02	0.02	0.03	
560	0.00	0.00	0.01	0.01	0.02	
565	0.00	0.00	0.01	0.01	0.02	
570	0.00	0.00	0.00	0.01	0.01	
575	0.00	0.00	0.00	0.01	0.01	
580	0.00	0.00	0.00	0.00	0.00	
585	0.00	0.00	0.00	0.00	0.00	

time in minutes	MLB7	MLB9	MLB6	Total to MLB7
0	0.00			0.00
5	0.00			0.00
10	0.05			0.05
15	0.33			0.33
20	3.33			3.33
25	19.06			19.06
30	47.55			47.55
35	76.61			76.61
40	98.83			98.83
45	112.59			112.59
50	121.00			121.00
55	126.11			126.11
60	128.97			128.97
65	129.21			129.21
70	126.35	0.00	0.00	126.35
75	121.08	0.64	0.05	121.78
80	115.71	8.59	0.68	124.98
85	110.32	32.03	3.19	145.54
90	104.83	111.97	14.93	231.73
95	99.36	336.09	52.00	487.45
100	93.93	576.93	91.27	762.13
105	88.54	700.04	112.78	901.37
110	83.44	720.11	123.06	926.61
115	79.28	688.82	126.68	894.78
120	75.51	644.31	125.06	844.88
125	71.92	597.87	121.53	791.31
130	68.43	561.48	118.56	748.47
135	65.02	516.03	113.29	694.34
140	61.69	459.23	106.03	626.96
145	58.45	396.98	98.27	553.70
150	55.29	337.87	90.96	484.13
155	52.15	293.46	84.16	429.77
160	49.04	257.69	77.80	384.54
165	45.94	227.54	71.82	345.30
170	42.84	200.37	66.05	309.26
175	39.76	175.45	60.46	275.66
180	36.77	151.90	55.03	243.70
185	34.24	129.75	49.89	213.87
190	32.25	106.64	45.13	184.02
195	30.55	82.09	41.21	153.85
200	29.04	59.90	37.81	126.75
205	27.65	44.46	34.74	106.85
210	26.36	33.71	31.93	92.00
215	25.15	25.53	29.33	80.01
220	24.02	19.26	26.91	70.18
225	22.94	14.34	24.64	61.92
230	21.88	10.50	22.51	54.88
235	20.83	7.69	20.43	48.95
240	19.79	5.94	18.39	44.12
245	18.74	4.71	16.37	39.82
250	17.70	3.76	14.36	35.83
255	16.67	2.94	12.37	31.97
260	15.63	2.21	10.38	28.23
265	14.60	1.59	8.42	24.61
270	13.57	1.07	6.49	21.14
275	12.55	0.66	4.71	17.91
280	11.52	0.34	3.36	15.22
285	10.50	0.12	2.49	13.11
290	9.47	0.01	1.86	11.34
295	8.45	0.00	1.38	9.83
300	7.42	0.00	1.02	8.44
305	6.40	0.00	0.74	7.14
310	5.37	0.00	0.53	5.90
315	4.35	0.00	0.40	4.75
320	3.33	0.00	0.31	3.64
325	2.36	0.00	0.25	2.60
330	1.61	0.00	0.19	1.80
335	1.13	0.00	0.15	1.28
340	0.80	0.00	0.11	0.91
345	0.56	0.00	0.08	0.63
350	0.38	0.00	0.05	0.43
355	0.25	0.00	0.03	0.27
360	0.15	0.00	0.01	0.16
365	0.10	0.00	0.00	0.10
370	0.07	0.00	0.00	0.07
375	0.06	0.00	0.00	0.06
380	0.04	0.00	0.00	0.04
385	0.03	0.00	0.00	0.03
390	0.02	0.00	0.00	0.02
395	0.02	0.00	0.00	0.02
400	0.01	0.00	0.00	0.01
405	0.01	0.00	0.00	0.01
410	0.00	0.00	0.00	0.00
415	0.00	0.00	0.00	0.00

max
927

Without Mulligan Lake Reservoir flows

time in minutes	MLB7	MLB6	Total to MLB7
0	0.00		0.00
5	0.00		0.00
10	0.05		0.05
15	0.33		0.33
20	3.33		3.33
25	19.06		19.06
30	47.55		47.55
35	76.61		76.61
40	98.83		98.83
45	112.59		112.59
50	121.00		121.00
55	126.11		126.11
60	128.97		128.97
65	129.21		129.21
70	126.35	0.00	126.35
75	121.08	0.05	121.13
80	115.71	0.68	116.39
85	110.32	3.19	113.51
90	104.83	14.93	119.75
95	99.36	52.00	151.36
100	93.93	91.27	185.20
105	88.54	112.78	201.32
110	83.44	123.06	206.50
115	79.28	126.68	205.96
120	75.51	125.06	200.57
125	71.92	121.53	193.45
130	68.43	118.56	186.99
135	65.02	113.29	178.31
140	61.69	106.03	167.73
145	58.45	98.27	156.72
150	55.29	90.96	146.25
155	52.15	84.16	136.31
160	49.04	77.80	126.85
165	45.94	71.82	117.76
170	42.84	66.05	108.89
175	39.76	60.46	100.22
180	36.77	55.03	91.80
185	34.24	49.89	84.13
190	32.25	45.13	77.38
195	30.55	41.21	71.76
200	29.04	37.81	66.85
205	27.65	34.74	62.39
210	26.36	31.93	58.29
215	25.15	29.33	54.48
220	24.02	26.91	50.93
225	22.94	24.64	47.58
230	21.88	22.51	44.39
235	20.83	20.43	41.26
240	19.79	18.39	38.18
245	18.74	16.37	35.12
250	17.70	14.36	32.07
255	16.67	12.37	29.03
260	15.63	10.38	26.01
265	14.60	8.42	23.02
270	13.57	6.49	20.06
275	12.55	4.71	17.26
280	11.52	3.36	14.89
285	10.50	2.49	12.98
290	9.47	1.86	11.33
295	8.45	1.38	9.83
300	7.42	1.02	8.44
305	6.40	0.74	7.14
310	5.37	0.53	5.90
315	4.35	0.40	4.75
320	3.33	0.31	3.64
325	2.36	0.25	2.60
330	1.61	0.19	1.80
335	1.13	0.15	1.28
340	0.80	0.11	0.91
345	0.56	0.08	0.63
350	0.38	0.05	0.43
355	0.25	0.03	0.27
360	0.15	0.01	0.16
365	0.10	0.00	0.10
370	0.07	0.00	0.07
375	0.06	0.00	0.06
380	0.04	0.00	0.04
385	0.03	0.00	0.03
390	0.02	0.00	0.02
395	0.02	0.00	0.02
400	0.01	0.00	0.01
405	0.01	0.00	0.01
410	0.00	0.00	0.00
415	0.00	0.00	0.00

max
206

MLB SWMM INPUT

MLB SWMM calcs

[TITLE]

;;Project Title/Notes

[OPTIONS]

```

;;Option      value
FLOW_UNITS    CFS
INFILTRATION  HORTON
FLOW_ROUTING  DYNWAVE
LINK_OFFSETS  DEPTH
MIN_SLOPE     0
ALLOW_PONDING NO
SKIP_STEADY_STATE NO

START_DATE    05/10/2018
START_TIME    00:00:00
REPORT_START_DATE 05/10/2018
REPORT_START_TIME 00:00:00
END_DATE      05/10/2018
END_TIME      11:00:00
SWEEP_START   01/01
SWEEP_END     12/31
DRY_DAYS      0
REPORT_STEP   00:00:05
WET_STEP      00:00:05
DRY_STEP      00:00:05
ROUTING_STEP  0:00:05
    
```

```

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP    0.75
LENGTHENING_STEP 0
MIN_SURFAREA     12.557
MAX_TRIALS       8
HEAD_TOLERANCE   0.005
SYS_FLOW_TOL     5
LAT_FLOW_TOL     5
MINIMUM_STEP     5
THREADS          1
    
```

[EVAPORATION]

```

;;Data Source Parameters
;;-----
CONSTANT 0.0
DRY_ONLY NO
    
```

[JUNCTIONS]

;;Name	Elevation	MaxDepth	InitDepth	SurDepth	Aponded
MLB1_1	5005.64	2	0	0	0
MLB1	5005.86	2	0	0	0

[OUTFALLS]

;;Name	Elevation	Type	Stage Data	Gated	Route To
MLB2-O(S)	4.95	FREE		NO	
MLB2-O(N)	3.18	FREE		NO	
MLB8-O	48	FREE		NO	
MLB1_0	5005.36	FREE		NO	
MLB3_0	71	FREE		NO	
MLB5_0	4949	FREE		NO	
MLB5_02	4946.82	FREE		NO	
MLB7_0	4955.68	FREE		NO	

MLB SWMM calcs

[STORAGE]							
;;Name	Elev.	MaxDepth	InitDepth	Shape	Curve Name/Params		
N/A	Fevap	Ksat	IMD				
;;							
MLB2 0	0	7.79	4	0	TABULAR	MLB2	
MLB8 0	0	54	5	0	TABULAR	MLB8	
MLB3 0	0	72	4	0	TABULAR	MLB3	
MLB5 0	0	4950.55	4	0	TABULAR	MLB5	
MLB7 0	0	4955.92	4	0	TABULAR	MLB7	
MLB10 0	0	4993	2	0	TABULAR	MLB10	
MLB9 0	0	4969	3	0	TABULAR	MLB9	

[CONDUITS]							
;;Name	From Node	To Node	Length	Roughness	InOffset		
OutOffset	InitFlow	MaxFlow					
;;							
MLB2_1 0	MLB2 0	MLB2-O(S)	35	0.024	0		
MLB2_2 0	MLB2 0	MLB2-O(N)	360	0.024	0		
MLB8 0	MLB8 0	MLB8-O	413	0.013	0		
MLB1 0	MLB1 0	MLB1_1	72	0.013	0		
MLB1_1 0	MLB1_1 0	MLB1_O	77	0.013	0		
MLB3 0	MLB3 0	MLB3_O	50	0.013	0		
MLB5 0	MLB5 0	MLB5_O	270	0.013	0		
MLB5_2 0	MLB5 0	MLB5_O2	245	0.013	0		
MLB7 0	MLB7 0	MLB7_O	248	0.013	0		

[XSECTIONS]							
;;Link	Shape	Geom1	Geom2	Geom3	Geom4		
Barrels	Culvert						
;;							
MLB2_1	CIRCULAR	1.5	0	0	0	1	
MLB2_2	CIRCULAR	1.5	0	0	0	1	
MLB8	CIRCULAR	2	0	0	0	1	
MLB1	HORIZ_ELLIPSE	1.583	2.500	2	0	1	
MLB1_1	CIRCULAR	2	0	0	0	1	
MLB3	CIRCULAR	3.5	0	0	0	1	
MLB5	CIRCULAR	2.67	0	0	0	1	

MLB SWMM calcs

MLB5_2	CIRCULAR	2	0	0	0	1
MLB7	RECT_CLOSED	4	9	0	0	1

[INFLOWS]

;;Node Baseline Pattern	Constituent	Time Series	Type	Mfactor	Sfactor
MLB1	FLOW	MLB1	FLOW	1.0	1.0
MLB2	FLOW	MLB2	FLOW	1.0	1.0
MLB8	FLOW	MLB8	FLOW	1.0	1.0
MLB3	FLOW	MLB3	FLOW	1.0	1.0
MLB5	FLOW	MLB5	FLOW	1.0	1.0
MLB7	FLOW	MLB7	FLOW	1.0	1.0
MLB10	FLOW	MLB10	FLOW	1.0	1.0
MLB9	FLOW	MLB9	FLOW	1.0	1.0

[CURVES]

;;Name	Type	X-Value	Y-Value
MLB2	Storage	0	739
MLB2		1	17138
MLB2		2	36593
MLB2		3	44748
MLB2		4	49790
;			
MLB8	Storage	0	186
MLB8		1	782
MLB8		2	12280
MLB8		3	45231
MLB8		4	69940
MLB8	5	97082	
;			
MLB3	Storage	0	196
MLB3		1	1076
MLB3		2	2191
MLB3		3	3428
MLB3		4	5905
;			
MLB5	Storage	0	170
MLB5		1	4996
MLB5		2	55872
MLB5		3	108033
MLB5		4	167822
;			
MLB7	Storage	0	0
MLB7		1	1233
MLB7		2	4094
MLB7		3	5705
MLB7		4	8404
;			
MLB10	Storage	0	558710

			MLB SWMM calcs
MLB10		1	661254
MLB10		2	860712
;			
MLB9	Storage	0	3575165
MLB9		1	3984128
MLB9		2	4185545
MLB9		3	4301488

[TIMESERIES]

;;Name	Date	Time	Value
;;-----	-----	-----	-----
MLB2	5/10/2018	0:00	0.00
MLB2	5/10/2018	0:05	0.00
MLB2	5/10/2018	0:10	0.06
MLB2	5/10/2018	0:15	0.37
MLB2	5/10/2018	0:20	5.02
MLB2	5/10/2018	0:25	29.21
MLB2	5/10/2018	0:30	61.31
MLB2	5/10/2018	0:35	82.38
MLB2	5/10/2018	0:40	93.40
MLB2	5/10/2018	0:45	98.86
MLB2	5/10/2018	0:50	99.92
MLB2	5/10/2018	0:55	97.95
MLB2	5/10/2018	1:00	95.81
MLB2	5/10/2018	1:05	92.55
MLB2	5/10/2018	1:10	87.94
MLB2	5/10/2018	1:15	84.23
MLB2	5/10/2018	1:20	85.85
MLB2	5/10/2018	1:25	91.79
MLB2	5/10/2018	1:30	96.10
MLB2	5/10/2018	1:35	97.03
MLB2	5/10/2018	1:40	96.13
MLB2	5/10/2018	1:45	94.22
MLB2	5/10/2018	1:50	91.65
MLB2	5/10/2018	1:55	88.74
MLB2	5/10/2018	2:00	85.11
MLB2	5/10/2018	2:05	80.57
MLB2	5/10/2018	2:10	75.65
MLB2	5/10/2018	2:15	71.18
MLB2	5/10/2018	2:20	67.31
MLB2	5/10/2018	2:25	63.78
MLB2	5/10/2018	2:30	60.49
MLB2	5/10/2018	2:35	57.35
MLB2	5/10/2018	2:40	54.34
MLB2	5/10/2018	2:45	51.45
MLB2	5/10/2018	2:50	48.67
MLB2	5/10/2018	2:55	45.95
MLB2	5/10/2018	3:00	43.28
MLB2	5/10/2018	3:05	40.77
MLB2	5/10/2018	3:10	38.34
MLB2	5/10/2018	3:15	35.96
MLB2	5/10/2018	3:20	33.62
MLB2	5/10/2018	3:25	31.31
MLB2	5/10/2018	3:30	29.03
MLB2	5/10/2018	3:35	26.78
MLB2	5/10/2018	3:40	24.55
MLB2	5/10/2018	3:45	22.40
MLB2	5/10/2018	3:50	20.60
MLB2	5/10/2018	3:55	19.13
MLB2	5/10/2018	4:00	17.82
MLB2	5/10/2018	4:05	16.62
MLB2	5/10/2018	4:10	15.50
MLB2	5/10/2018	4:15	14.44

			MLB SWMM calcs
MLB2	5/10/2018	4:20	13.45
MLB2	5/10/2018	4:25	12.56
MLB2	5/10/2018	4:30	11.85
MLB2	5/10/2018	4:35	11.28
MLB2	5/10/2018	4:40	10.79
MLB2	5/10/2018	4:45	10.34
MLB2	5/10/2018	4:50	9.93
MLB2	5/10/2018	4:55	9.54
MLB2	5/10/2018	5:00	9.18
MLB2	5/10/2018	5:05	8.84
MLB2	5/10/2018	5:10	8.52
MLB2	5/10/2018	5:15	8.20
MLB2	5/10/2018	5:20	7.89
MLB2	5/10/2018	5:25	7.58
MLB2	5/10/2018	5:30	7.27
MLB2	5/10/2018	5:35	6.96
MLB2	5/10/2018	5:40	6.65
MLB2	5/10/2018	5:45	6.35
MLB2	5/10/2018	5:50	6.05
MLB2	5/10/2018	5:55	5.75
MLB2	5/10/2018	6:00	5.45
MLB2	5/10/2018	6:05	5.15
MLB2	5/10/2018	6:10	4.85
MLB2	5/10/2018	6:15	4.55
MLB2	5/10/2018	6:20	4.25
MLB2	5/10/2018	6:25	3.96
MLB2	5/10/2018	6:30	3.66
MLB2	5/10/2018	6:35	3.36
MLB2	5/10/2018	6:40	3.06
MLB2	5/10/2018	6:45	2.76
MLB2	5/10/2018	6:50	2.46
MLB2	5/10/2018	6:55	2.17
MLB2	5/10/2018	7:00	1.87
MLB2	5/10/2018	7:05	1.57
MLB2	5/10/2018	7:10	1.27
MLB2	5/10/2018	7:15	0.98
MLB2	5/10/2018	7:20	0.71
MLB2	5/10/2018	7:25	0.50
MLB2	5/10/2018	7:30	0.37
MLB2	5/10/2018	7:35	0.27
MLB2	5/10/2018	7:40	0.20
MLB2	5/10/2018	7:45	0.15
MLB2	5/10/2018	7:50	0.11
MLB2	5/10/2018	7:55	0.08
MLB2	5/10/2018	8:00	0.06
MLB2	5/10/2018	8:05	0.04
MLB2	5/10/2018	8:10	0.03
MLB2	5/10/2018	8:15	0.03
MLB2	5/10/2018	8:20	0.02
MLB2	5/10/2018	8:25	0.02
MLB2	5/10/2018	8:30	0.01
MLB2	5/10/2018	8:35	0.01
MLB2	5/10/2018	8:40	0.00
MLB2	5/10/2018	8:45	0.00
MLB2	5/10/2018	8:50	0.00
MLB2	5/10/2018	8:55	0.00
MLB2	5/10/2018	9:00	0.00
MLB2	5/10/2018	9:05	0.00
MLB2	5/10/2018	9:10	0.00
MLB2	5/10/2018	9:15	0.00
MLB2	5/10/2018	9:20	0.00
MLB2	5/10/2018	9:25	0.00
MLB2	5/10/2018	9:30	0.00

			MLB	SWMM calcs
MLB2	5/10/2018	9:35	0.00	
MLB2	5/10/2018	9:40	0.00	
MLB2	5/10/2018	9:45	0.00	
MLB2	5/10/2018	9:50	0.00	
MLB2	5/10/2018	9:55	0.00	
MLB2	5/10/2018	10:00	0.00	
MLB2	5/10/2018	10:05	0.00	
MLB2	5/10/2018	10:10	0.00	
MLB2	5/10/2018	10:15	0.00	
MLB2	5/10/2018	10:20	0.00	
MLB2	5/10/2018	10:25	0.00	
MLB2	5/10/2018	10:30	0.00	
MLB2	5/10/2018	10:35	0.00	
MLB2	5/10/2018	10:40	0.00	
MLB2	5/10/2018	10:45	0.00	
;				
MLB8	5/10/2018	0:00	0.00	
MLB8	5/10/2018	0:05	0.00	
MLB8	5/10/2018	0:10	0.05	
MLB8	5/10/2018	0:15	0.44	
MLB8	5/10/2018	0:20	7.55	
MLB8	5/10/2018	0:25	47.20	
MLB8	5/10/2018	0:30	103.74	
MLB8	5/10/2018	0:35	144.09	
MLB8	5/10/2018	0:40	164.73	
MLB8	5/10/2018	0:45	173.46	
MLB8	5/10/2018	0:50	172.95	
MLB8	5/10/2018	0:55	167.41	
MLB8	5/10/2018	1:00	162.60	
MLB8	5/10/2018	1:05	155.40	
MLB8	5/10/2018	1:10	144.96	
MLB8	5/10/2018	1:15	133.40	
MLB8	5/10/2018	1:20	122.55	
MLB8	5/10/2018	1:25	112.23	
MLB8	5/10/2018	1:30	102.58	
MLB8	5/10/2018	1:35	93.60	
MLB8	5/10/2018	1:40	84.96	
MLB8	5/10/2018	1:45	76.63	
MLB8	5/10/2018	1:50	68.54	
MLB8	5/10/2018	1:55	60.95	
MLB8	5/10/2018	2:00	54.98	
MLB8	5/10/2018	2:05	50.13	
MLB8	5/10/2018	2:10	45.87	
MLB8	5/10/2018	2:15	42.01	
MLB8	5/10/2018	2:20	38.47	
MLB8	5/10/2018	2:25	35.17	
MLB8	5/10/2018	2:30	32.09	
MLB8	5/10/2018	2:35	29.23	
MLB8	5/10/2018	2:40	26.46	
MLB8	5/10/2018	2:45	23.73	
MLB8	5/10/2018	2:50	21.02	
MLB8	5/10/2018	2:55	18.32	
MLB8	5/10/2018	3:00	15.62	
MLB8	5/10/2018	3:05	12.92	
MLB8	5/10/2018	3:10	10.23	
MLB8	5/10/2018	3:15	7.56	
MLB8	5/10/2018	3:20	5.07	
MLB8	5/10/2018	3:25	3.46	
MLB8	5/10/2018	3:30	2.41	
MLB8	5/10/2018	3:35	1.66	
MLB8	5/10/2018	3:40	1.11	
MLB8	5/10/2018	3:45	0.71	
MLB8	5/10/2018	3:50	0.41	

			MLB	SWMM	calcs
MLB8	5/10/2018	3:55		0.23	
MLB8	5/10/2018	4:00		0.15	
MLB8	5/10/2018	4:05		0.10	
MLB8	5/10/2018	4:10		0.08	
MLB8	5/10/2018	4:15		0.06	
MLB8	5/10/2018	4:20		0.05	
MLB8	5/10/2018	4:25		0.03	
MLB8	5/10/2018	4:30		0.02	
MLB8	5/10/2018	4:35		0.01	
MLB8	5/10/2018	4:40		0.01	
MLB8	5/10/2018	4:45		0.00	
MLB8	5/10/2018	4:50		0.00	
MLB8	5/10/2018	4:55		0.00	
MLB8	5/10/2018	5:00		0.00	
MLB8	5/10/2018	5:05		0.00	
MLB8	5/10/2018	5:10		0.00	
MLB8	5/10/2018	5:15		0.00	
MLB8	5/10/2018	5:20		0.00	
MLB8	5/10/2018	5:25		0.00	
MLB8	5/10/2018	5:30		0.00	
MLB8	5/10/2018	5:35		0.00	
MLB8	5/10/2018	5:40		0.00	
MLB8	5/10/2018	5:45		0.00	
MLB8	5/10/2018	5:50		0.00	
MLB8	5/10/2018	5:55		0.00	
MLB8	5/10/2018	6:00		0.00	
MLB8	5/10/2018	6:05		0.00	
MLB8	5/10/2018	6:10		0.00	
MLB8	5/10/2018	6:15		0.00	
MLB8	5/10/2018	6:20		0.00	
MLB8	5/10/2018	6:25		0.00	
MLB8	5/10/2018	6:30		0.00	
MLB8	5/10/2018	6:35		0.00	
MLB8	5/10/2018	6:40		0.00	
MLB8	5/10/2018	6:45		0.00	
MLB8	5/10/2018	6:50		0.00	
MLB8	5/10/2018	6:55		0.00	
MLB8	5/10/2018	7:00		0.00	
MLB8	5/10/2018	7:05		0.00	
MLB8	5/10/2018	7:10		0.00	
MLB8	5/10/2018	7:15		0.00	
MLB8	5/10/2018	7:20		0.00	
MLB8	5/10/2018	7:25		0.00	
MLB8	5/10/2018	7:30		0.00	
MLB8	5/10/2018	7:35		0.00	
MLB8	5/10/2018	7:40		0.00	
MLB8	5/10/2018	7:45		0.00	
MLB8	5/10/2018	7:50		0.00	
MLB8	5/10/2018	7:55		0.00	
MLB8	5/10/2018	8:00		0.00	
MLB8	5/10/2018	8:05		0.00	
MLB8	5/10/2018	8:10		0.00	
MLB8	5/10/2018	8:15		0.00	
MLB8	5/10/2018	8:20		0.00	
MLB8	5/10/2018	8:25		0.00	
MLB8	5/10/2018	8:30		0.00	
MLB8	5/10/2018	8:35		0.00	
MLB8	5/10/2018	8:40		0.00	
MLB8	5/10/2018	8:45		0.00	
MLB8	5/10/2018	8:50		0.00	
MLB8	5/10/2018	8:55		0.00	
MLB8	5/10/2018	9:00		0.00	
MLB8	5/10/2018	9:05		0.00	

			MLB SWMM calcs
MLB8	5/10/2018	9:10	0.00
MLB8	5/10/2018	9:15	0.00
MLB8	5/10/2018	9:20	0.00
MLB8	5/10/2018	9:25	0.00
MLB8	5/10/2018	9:30	0.00
MLB8	5/10/2018	9:35	0.00
MLB8	5/10/2018	9:40	0.00
MLB8	5/10/2018	9:45	0.00
MLB8	5/10/2018	9:50	0.00
MLB8	5/10/2018	9:55	0.00
;			
MLB1	5/10/2018	0:00	0.00
MLB1	5/10/2018	0:05	0.01
MLB1	5/10/2018	0:10	0.11
MLB1	5/10/2018	0:15	0.57
MLB1	5/10/2018	0:20	2.89
MLB1	5/10/2018	0:25	10.88
MLB1	5/10/2018	0:30	22.40
MLB1	5/10/2018	0:35	31.74
MLB1	5/10/2018	0:40	37.29
MLB1	5/10/2018	0:45	40.74
MLB1	5/10/2018	0:50	42.99
MLB1	5/10/2018	0:55	44.46
MLB1	5/10/2018	1:00	45.48
MLB1	5/10/2018	1:05	45.75
MLB1	5/10/2018	1:10	45.08
MLB1	5/10/2018	1:15	43.68
MLB1	5/10/2018	1:20	41.90
MLB1	5/10/2018	1:25	40.26
MLB1	5/10/2018	1:30	38.74
MLB1	5/10/2018	1:35	37.25
MLB1	5/10/2018	1:40	35.79
MLB1	5/10/2018	1:45	34.34
MLB1	5/10/2018	1:50	32.91
MLB1	5/10/2018	1:55	31.51
MLB1	5/10/2018	2:00	30.13
MLB1	5/10/2018	2:05	28.79
MLB1	5/10/2018	2:10	27.59
MLB1	5/10/2018	2:15	26.48
MLB1	5/10/2018	2:20	25.42
MLB1	5/10/2018	2:25	24.39
MLB1	5/10/2018	2:30	23.39
MLB1	5/10/2018	2:35	22.42
MLB1	5/10/2018	2:40	21.47
MLB1	5/10/2018	2:45	20.54
MLB1	5/10/2018	2:50	19.62
MLB1	5/10/2018	2:55	18.71
MLB1	5/10/2018	3:00	17.80
MLB1	5/10/2018	3:05	16.89
MLB1	5/10/2018	3:10	15.99
MLB1	5/10/2018	3:15	15.08
MLB1	5/10/2018	3:20	14.18
MLB1	5/10/2018	3:25	13.30
MLB1	5/10/2018	3:30	12.46
MLB1	5/10/2018	3:35	11.78
MLB1	5/10/2018	3:40	11.23
MLB1	5/10/2018	3:45	10.75
MLB1	5/10/2018	3:50	10.31
MLB1	5/10/2018	3:55	9.91
MLB1	5/10/2018	4:00	9.53
MLB1	5/10/2018	4:05	9.17
MLB1	5/10/2018	4:10	8.84
MLB1	5/10/2018	4:15	8.52

			MLB	SWMM	calcs
MLB1	5/10/2018	4:20		8.20	
MLB1	5/10/2018	4:25		7.89	
MLB1	5/10/2018	4:30		7.58	
MLB1	5/10/2018	4:35		7.27	
MLB1	5/10/2018	4:40		6.96	
MLB1	5/10/2018	4:45		6.65	
MLB1	5/10/2018	4:50		6.35	
MLB1	5/10/2018	4:55		6.05	
MLB1	5/10/2018	5:00		5.75	
MLB1	5/10/2018	5:05		5.45	
MLB1	5/10/2018	5:10		5.15	
MLB1	5/10/2018	5:15		4.85	
MLB1	5/10/2018	5:20		4.55	
MLB1	5/10/2018	5:25		4.25	
MLB1	5/10/2018	5:30		3.96	
MLB1	5/10/2018	5:35		3.66	
MLB1	5/10/2018	5:40		3.36	
MLB1	5/10/2018	5:45		3.06	
MLB1	5/10/2018	5:50		2.76	
MLB1	5/10/2018	5:55		2.46	
MLB1	5/10/2018	6:00		2.17	
MLB1	5/10/2018	6:05		1.87	
MLB1	5/10/2018	6:10		1.57	
MLB1	5/10/2018	6:15		1.27	
MLB1	5/10/2018	6:20		0.98	
MLB1	5/10/2018	6:25		0.71	
MLB1	5/10/2018	6:30		0.50	
MLB1	5/10/2018	6:35		0.37	
MLB1	5/10/2018	6:40		0.27	
MLB1	5/10/2018	6:45		0.20	
MLB1	5/10/2018	6:50		0.15	
MLB1	5/10/2018	6:55		0.11	
MLB1	5/10/2018	7:00		0.08	
MLB1	5/10/2018	7:05		0.06	
MLB1	5/10/2018	7:10		0.04	
MLB1	5/10/2018	7:15		0.03	
MLB1	5/10/2018	7:20		0.03	
MLB1	5/10/2018	7:25		0.02	
MLB1	5/10/2018	7:30		0.02	
MLB1	5/10/2018	7:35		0.01	
MLB1	5/10/2018	7:40		0.01	
MLB1	5/10/2018	7:45		0.00	
MLB1	5/10/2018	7:50		0.00	
MLB1	5/10/2018	7:55		0.00	
MLB1	5/10/2018	8:00		0.00	
MLB1	5/10/2018	8:05		0.00	
MLB1	5/10/2018	8:10		0.00	
MLB1	5/10/2018	8:15		0.00	
MLB1	5/10/2018	8:20		0.00	
MLB1	5/10/2018	8:25		0.00	
MLB1	5/10/2018	8:30		0.00	
MLB1	5/10/2018	8:35		0.00	
MLB1	5/10/2018	8:40		0.00	
MLB1	5/10/2018	8:45		0.00	
MLB1	5/10/2018	8:50		0.00	
MLB1	5/10/2018	8:55		0.00	
MLB1	5/10/2018	9:00		0.00	
MLB1	5/10/2018	9:05		0.00	
MLB1	5/10/2018	9:10		0.00	
MLB1	5/10/2018	9:15		0.00	
MLB1	5/10/2018	9:20		0.00	
MLB1	5/10/2018	9:25		0.00	
MLB1	5/10/2018	9:30		0.00	

			MLB SWMM calcs
MLB1	5/10/2018	9:35	0.00
MLB1	5/10/2018	9:40	0.00
MLB1	5/10/2018	9:45	0.00
MLB1	5/10/2018	9:50	0.00
MLB1	5/10/2018	9:55	0.00
MLB1	5/10/2018	10:00	0.06
MLB1	5/10/2018	10:05	0.05
MLB1	5/10/2018	10:10	0.04
MLB1	5/10/2018	10:15	0.03
MLB1	5/10/2018	10:20	0.02
MLB1	5/10/2018	10:25	0.01
MLB1	5/10/2018	10:30	0.01
MLB1	5/10/2018	10:35	0.01
MLB1	5/10/2018	10:40	0.00
MLB1	5/10/2018	10:45	0.00
;			
MLB3	5/10/2018	0:00	0.00
MLB3	5/10/2018	0:05	0.05
MLB3	5/10/2018	0:10	0.71
MLB3	5/10/2018	0:15	2.91
MLB3	5/10/2018	0:20	11.78
MLB3	5/10/2018	0:25	38.05
MLB3	5/10/2018	0:30	64.44
MLB3	5/10/2018	0:35	78.40
MLB3	5/10/2018	0:40	85.20
MLB3	5/10/2018	0:45	87.81
MLB3	5/10/2018	0:50	87.01
MLB3	5/10/2018	0:55	84.78
MLB3	5/10/2018	1:00	83.06
MLB3	5/10/2018	1:05	80.03
MLB3	5/10/2018	1:10	80.14
MLB3	5/10/2018	1:15	99.62
MLB3	5/10/2018	1:20	127.09
MLB3	5/10/2018	1:25	143.81
MLB3	5/10/2018	1:30	150.76
MLB3	5/10/2018	1:35	152.37
MLB3	5/10/2018	1:40	149.72
MLB3	5/10/2018	1:45	144.14
MLB3	5/10/2018	1:50	138.47
MLB3	5/10/2018	1:55	131.76
MLB3	5/10/2018	2:00	123.63
MLB3	5/10/2018	2:05	116.70
MLB3	5/10/2018	2:10	115.70
MLB3	5/10/2018	2:15	119.37
MLB3	5/10/2018	2:20	121.60
MLB3	5/10/2018	2:25	120.64
MLB3	5/10/2018	2:30	117.99
MLB3	5/10/2018	2:35	114.44
MLB3	5/10/2018	2:40	110.33
MLB3	5/10/2018	2:45	105.96
MLB3	5/10/2018	2:50	100.91
MLB3	5/10/2018	2:55	94.97
MLB3	5/10/2018	3:00	88.66
MLB3	5/10/2018	3:05	82.82
MLB3	5/10/2018	3:10	77.57
MLB3	5/10/2018	3:15	72.69
MLB3	5/10/2018	3:20	68.05
MLB3	5/10/2018	3:25	63.59
MLB3	5/10/2018	3:30	59.30
MLB3	5/10/2018	3:35	55.26
MLB3	5/10/2018	3:40	51.69
MLB3	5/10/2018	3:45	48.41
MLB3	5/10/2018	3:50	45.33

			MLB SWMM calcs
MLB3	5/10/2018	3:55	42.49
MLB3	5/10/2018	4:00	39.81
MLB3	5/10/2018	4:05	37.23
MLB3	5/10/2018	4:10	34.73
MLB3	5/10/2018	4:15	32.32
MLB3	5/10/2018	4:20	29.95
MLB3	5/10/2018	4:25	27.62
MLB3	5/10/2018	4:30	25.33
MLB3	5/10/2018	4:35	23.13
MLB3	5/10/2018	4:40	21.28
MLB3	5/10/2018	4:45	19.75
MLB3	5/10/2018	4:50	18.40
MLB3	5/10/2018	4:55	17.16
MLB3	5/10/2018	5:00	16.01
MLB3	5/10/2018	5:05	14.92
MLB3	5/10/2018	5:10	13.90
MLB3	5/10/2018	5:15	12.99
MLB3	5/10/2018	5:20	12.26
MLB3	5/10/2018	5:25	11.68
MLB3	5/10/2018	5:30	11.17
MLB3	5/10/2018	5:35	10.71
MLB3	5/10/2018	5:40	10.29
MLB3	5/10/2018	5:45	9.89
MLB3	5/10/2018	5:50	9.52
MLB3	5/10/2018	5:55	9.17
MLB3	5/10/2018	6:00	8.84
MLB3	5/10/2018	6:05	8.51
MLB3	5/10/2018	6:10	8.19
MLB3	5/10/2018	6:15	7.87
MLB3	5/10/2018	6:20	7.56
MLB3	5/10/2018	6:25	7.24
MLB3	5/10/2018	6:30	6.93
MLB3	5/10/2018	6:35	6.61
MLB3	5/10/2018	6:40	6.30
MLB3	5/10/2018	6:45	6.00
MLB3	5/10/2018	6:50	5.69
MLB3	5/10/2018	6:55	5.38
MLB3	5/10/2018	7:00	5.08
MLB3	5/10/2018	7:05	4.77
MLB3	5/10/2018	7:10	4.46
MLB3	5/10/2018	7:15	4.16
MLB3	5/10/2018	7:20	3.85
MLB3	5/10/2018	7:25	3.55
MLB3	5/10/2018	7:30	3.24
MLB3	5/10/2018	7:35	2.93
MLB3	5/10/2018	7:40	2.63
MLB3	5/10/2018	7:45	2.32
MLB3	5/10/2018	7:50	2.01
MLB3	5/10/2018	7:55	1.71
MLB3	5/10/2018	8:00	1.40
MLB3	5/10/2018	8:05	1.10
MLB3	5/10/2018	8:10	0.82
MLB3	5/10/2018	8:15	0.61
MLB3	5/10/2018	8:20	0.47
MLB3	5/10/2018	8:25	0.37
MLB3	5/10/2018	8:30	0.29
MLB3	5/10/2018	8:35	0.22
MLB3	5/10/2018	8:40	0.17
MLB3	5/10/2018	8:45	0.14
MLB3	5/10/2018	8:50	0.11
MLB3	5/10/2018	8:55	0.09
MLB3	5/10/2018	9:00	0.07
MLB3	5/10/2018	9:05	0.06

			MLB SWMM calcs
MLB3	5/10/2018	9:10	0.04
MLB3	5/10/2018	9:15	0.03
MLB3	5/10/2018	9:20	0.02
MLB3	5/10/2018	9:25	0.02
MLB3	5/10/2018	9:30	0.01
MLB3	5/10/2018	9:35	0.01
MLB3	5/10/2018	9:40	0.00
MLB3	5/10/2018	9:45	0.00
MLB3	5/10/2018	9:50	0.00
MLB3	5/10/2018	9:55	0.00
MLB3	5/10/2018	10:00	0.00
MLB3	5/10/2018	10:05	0.00
MLB3	5/10/2018	10:10	0.00
MLB3	5/10/2018	10:15	0.00
MLB3	5/10/2018	10:20	0.00
MLB3	5/10/2018	10:25	0.00
MLB3	5/10/2018	10:30	0.00
MLB3	5/10/2018	10:35	0.00
MLB3	5/10/2018	10:40	0.00
MLB3	5/10/2018	10:45	0.00
;			
MLB5	5/10/2018	0:00	0.00
MLB5	5/10/2018	0:05	0.05
MLB5	5/10/2018	0:10	0.70
MLB5	5/10/2018	0:15	3.46
MLB5	5/10/2018	0:20	16.01
MLB5	5/10/2018	0:25	57.31
MLB5	5/10/2018	0:30	113.87
MLB5	5/10/2018	0:35	157.04
MLB5	5/10/2018	0:40	180.86
MLB5	5/10/2018	0:45	193.48
MLB5	5/10/2018	0:50	198.24
MLB5	5/10/2018	0:55	196.93
MLB5	5/10/2018	1:00	192.55
MLB5	5/10/2018	1:05	187.83
MLB5	5/10/2018	1:10	182.10
MLB5	5/10/2018	1:15	180.92
MLB5	5/10/2018	1:20	196.08
MLB5	5/10/2018	1:25	211.36
MLB5	5/10/2018	1:30	215.64
MLB5	5/10/2018	1:35	213.78
MLB5	5/10/2018	1:40	208.53
MLB5	5/10/2018	1:45	200.23
MLB5	5/10/2018	1:50	190.83
MLB5	5/10/2018	1:55	182.11
MLB5	5/10/2018	2:00	171.95
MLB5	5/10/2018	2:05	164.75
MLB5	5/10/2018	2:10	176.84
MLB5	5/10/2018	2:15	197.21
MLB5	5/10/2018	2:20	207.74
MLB5	5/10/2018	2:25	209.77
MLB5	5/10/2018	2:30	207.19
MLB5	5/10/2018	2:35	200.78
MLB5	5/10/2018	2:40	191.76
MLB5	5/10/2018	2:45	182.90
MLB5	5/10/2018	2:50	173.19
MLB5	5/10/2018	2:55	162.26
MLB5	5/10/2018	3:00	152.68
MLB5	5/10/2018	3:05	149.10
MLB5	5/10/2018	3:10	150.21
MLB5	5/10/2018	3:15	149.90
MLB5	5/10/2018	3:20	146.42
MLB5	5/10/2018	3:25	141.27

			MLB SWMM calcs
MLB5	5/10/2018	3:30	135.23
MLB5	5/10/2018	3:35	128.65
MLB5	5/10/2018	3:40	121.82
MLB5	5/10/2018	3:45	114.33
MLB5	5/10/2018	3:50	105.97
MLB5	5/10/2018	3:55	97.28
MLB5	5/10/2018	4:00	89.18
MLB5	5/10/2018	4:05	82.09
MLB5	5/10/2018	4:10	76.02
MLB5	5/10/2018	4:15	70.54
MLB5	5/10/2018	4:20	65.45
MLB5	5/10/2018	4:25	60.67
MLB5	5/10/2018	4:30	56.26
MLB5	5/10/2018	4:35	52.41
MLB5	5/10/2018	4:40	48.95
MLB5	5/10/2018	4:45	45.75
MLB5	5/10/2018	4:50	42.82
MLB5	5/10/2018	4:55	40.07
MLB5	5/10/2018	5:00	37.43
MLB5	5/10/2018	5:05	34.88
MLB5	5/10/2018	5:10	32.42
MLB5	5/10/2018	5:15	30.02
MLB5	5/10/2018	5:20	27.66
MLB5	5/10/2018	5:25	25.35
MLB5	5/10/2018	5:30	23.14
MLB5	5/10/2018	5:35	21.28
MLB5	5/10/2018	5:40	19.75
MLB5	5/10/2018	5:45	18.40
MLB5	5/10/2018	5:50	17.16
MLB5	5/10/2018	5:55	16.01
MLB5	5/10/2018	6:00	14.92
MLB5	5/10/2018	6:05	13.90
MLB5	5/10/2018	6:10	12.99
MLB5	5/10/2018	6:15	12.26
MLB5	5/10/2018	6:20	11.68
MLB5	5/10/2018	6:25	11.17
MLB5	5/10/2018	6:30	10.71
MLB5	5/10/2018	6:35	10.29
MLB5	5/10/2018	6:40	9.89
MLB5	5/10/2018	6:45	9.52
MLB5	5/10/2018	6:50	9.17
MLB5	5/10/2018	6:55	8.84
MLB5	5/10/2018	7:00	8.51
MLB5	5/10/2018	7:05	8.19
MLB5	5/10/2018	7:10	7.87
MLB5	5/10/2018	7:15	7.56
MLB5	5/10/2018	7:20	7.24
MLB5	5/10/2018	7:25	6.93
MLB5	5/10/2018	7:30	6.61
MLB5	5/10/2018	7:35	6.30
MLB5	5/10/2018	7:40	6.00
MLB5	5/10/2018	7:45	5.69
MLB5	5/10/2018	7:50	5.38
MLB5	5/10/2018	7:55	5.08
MLB5	5/10/2018	8:00	4.77
MLB5	5/10/2018	8:05	4.46
MLB5	5/10/2018	8:10	4.16
MLB5	5/10/2018	8:15	3.85
MLB5	5/10/2018	8:20	3.55
MLB5	5/10/2018	8:25	3.24
MLB5	5/10/2018	8:30	2.93
MLB5	5/10/2018	8:35	2.63
MLB5	5/10/2018	8:40	2.32

			MLB	SWMM calcs
MLB5	5/10/2018	8:45		2.01
MLB5	5/10/2018	8:50		1.71
MLB5	5/10/2018	8:55		1.40
MLB5	5/10/2018	9:00		1.10
MLB5	5/10/2018	9:05		0.82
MLB5	5/10/2018	9:10		0.61
MLB5	5/10/2018	9:15		0.47
MLB5	5/10/2018	9:20		0.37
MLB5	5/10/2018	9:25		0.29
MLB5	5/10/2018	9:30		0.22
MLB5	5/10/2018	9:35		0.17
MLB5	5/10/2018	9:40		0.14
MLB5	5/10/2018	9:45		0.11
MLB5	5/10/2018	9:50		0.09
MLB5	5/10/2018	9:55		0.07
MLB5	5/10/2018	10:00		0.06
MLB5	5/10/2018	10:05		0.04
MLB5	5/10/2018	10:10		0.03
MLB5	5/10/2018	10:15		0.02
MLB5	5/10/2018	10:20		0.02
MLB5	5/10/2018	10:25		0.01
MLB5	5/10/2018	10:30		0.01
MLB5	5/10/2018	10:35		0.00
MLB5	5/10/2018	10:40		0.00
MLB5	5/10/2018	10:45		0.00
;				
MLB7	5/10/2018	0:00		0.00
MLB7	5/10/2018	0:05		0.00
MLB7	5/10/2018	0:10		0.05
MLB7	5/10/2018	0:15		0.33
MLB7	5/10/2018	0:20		3.33
MLB7	5/10/2018	0:25		19.06
MLB7	5/10/2018	0:30		47.55
MLB7	5/10/2018	0:35		76.61
MLB7	5/10/2018	0:40		98.83
MLB7	5/10/2018	0:45		112.59
MLB7	5/10/2018	0:50		121.00
MLB7	5/10/2018	0:55		126.11
MLB7	5/10/2018	1:00		128.97
MLB7	5/10/2018	1:05		129.21
MLB7	5/10/2018	1:10		126.35
MLB7	5/10/2018	1:15		121.78
MLB7	5/10/2018	1:20		124.98
MLB7	5/10/2018	1:25		145.54
MLB7	5/10/2018	1:30		231.73
MLB7	5/10/2018	1:35		487.45
MLB7	5/10/2018	1:40		762.13
MLB7	5/10/2018	1:45		901.37
MLB7	5/10/2018	1:50		926.61
MLB7	5/10/2018	1:55		894.78
MLB7	5/10/2018	2:00		844.88
MLB7	5/10/2018	2:05		791.31
MLB7	5/10/2018	2:10		748.47
MLB7	5/10/2018	2:15		694.34
MLB7	5/10/2018	2:20		626.96
MLB7	5/10/2018	2:25		553.70
MLB7	5/10/2018	2:30		484.13
MLB7	5/10/2018	2:35		429.77
MLB7	5/10/2018	2:40		384.54
MLB7	5/10/2018	2:45		345.30
MLB7	5/10/2018	2:50		309.26
MLB7	5/10/2018	2:55		275.66
MLB7	5/10/2018	3:00		243.70

			MLB SWMM calcs
MLB7	5/10/2018	3:05	213.87
MLB7	5/10/2018	3:10	184.02
MLB7	5/10/2018	3:15	153.85
MLB7	5/10/2018	3:20	126.75
MLB7	5/10/2018	3:25	106.85
MLB7	5/10/2018	3:30	92.00
MLB7	5/10/2018	3:35	80.01
MLB7	5/10/2018	3:40	70.18
MLB7	5/10/2018	3:45	61.92
MLB7	5/10/2018	3:50	54.88
MLB7	5/10/2018	3:55	48.95
MLB7	5/10/2018	4:00	44.12
MLB7	5/10/2018	4:05	39.82
MLB7	5/10/2018	4:10	35.83
MLB7	5/10/2018	4:15	31.97
MLB7	5/10/2018	4:20	28.23
MLB7	5/10/2018	4:25	24.61
MLB7	5/10/2018	4:30	21.14
MLB7	5/10/2018	4:35	17.91
MLB7	5/10/2018	4:40	15.22
MLB7	5/10/2018	4:45	13.11
MLB7	5/10/2018	4:50	11.34
MLB7	5/10/2018	4:55	9.83
MLB7	5/10/2018	5:00	8.44
MLB7	5/10/2018	5:05	7.14
MLB7	5/10/2018	5:10	5.90
MLB7	5/10/2018	5:15	4.75
MLB7	5/10/2018	5:20	3.64
MLB7	5/10/2018	5:25	2.60
MLB7	5/10/2018	5:30	1.80
MLB7	5/10/2018	5:35	1.28
MLB7	5/10/2018	5:40	0.91
MLB7	5/10/2018	5:45	0.63
MLB7	5/10/2018	5:50	0.43
MLB7	5/10/2018	5:55	0.27
MLB7	5/10/2018	6:00	0.16
MLB7	5/10/2018	6:05	0.10
MLB7	5/10/2018	6:10	0.07
MLB7	5/10/2018	6:15	0.06
MLB7	5/10/2018	6:20	0.04
MLB7	5/10/2018	6:25	0.03
MLB7	5/10/2018	6:30	0.02
MLB7	5/10/2018	6:35	0.02
MLB7	5/10/2018	6:40	0.01
MLB7	5/10/2018	6:45	0.01
MLB7	5/10/2018	6:50	0.00
MLB7	5/10/2018	6:55	0.00
MLB7	5/10/2018	7:00	0.00
MLB7	5/10/2018	7:05	0.00
MLB7	5/10/2018	7:10	0.00
MLB7	5/10/2018	7:15	0.00
MLB7	5/10/2018	7:20	0.00
MLB7	5/10/2018	7:25	0.00
MLB7	5/10/2018	7:30	0.00
MLB7	5/10/2018	7:35	0.00
MLB7	5/10/2018	7:40	0.00
MLB7	5/10/2018	7:45	0.00
MLB7	5/10/2018	7:50	0.00
MLB7	5/10/2018	7:55	0.00
MLB7	5/10/2018	8:00	0.00
MLB7	5/10/2018	8:05	0.00
MLB7	5/10/2018	8:10	0.00
MLB7	5/10/2018	8:15	0.00

			MLB	SWMM calcs
MLB7	5/10/2018	8:20		0.00
MLB7	5/10/2018	8:25		0.00
MLB7	5/10/2018	8:30		0.00
MLB7	5/10/2018	8:35		0.00
MLB7	5/10/2018	8:40		0.00
MLB7	5/10/2018	8:45		0.00
MLB7	5/10/2018	8:50		0.00
MLB7	5/10/2018	8:55		0.00
MLB7	5/10/2018	9:00		0.00
MLB7	5/10/2018	9:05		0.00
MLB7	5/10/2018	9:10		0.00
MLB7	5/10/2018	9:15		0.00
MLB7	5/10/2018	9:20		0.00
MLB7	5/10/2018	9:25		0.00
MLB7	5/10/2018	9:30		0.00
MLB7	5/10/2018	9:35		0.00
MLB7	5/10/2018	9:40		0.00
MLB7	5/10/2018	9:45		0.00
MLB7	5/10/2018	9:50		0.00
MLB7	5/10/2018	9:55		0.00
MLB7	5/10/2018	10:00		0.00
MLB7	5/10/2018	10:05		0.00
MLB7	5/10/2018	10:10		0.00
MLB7	5/10/2018	10:15		0.00
MLB7	5/10/2018	10:20		0.00
MLB7	5/10/2018	10:25		0.00
MLB7	5/10/2018	10:30		0.00
MLB7	5/10/2018	10:35		0.00
MLB7	5/10/2018	10:40		0.00
MLB7	5/10/2018	10:45		0.00
;				
MLB10	5/10/2018	0:00		0.00
MLB10	5/10/2018	0:05		0.49
MLB10	5/10/2018	0:10		6.07
MLB10	5/10/2018	0:15		18.34
MLB10	5/10/2018	0:20		62.45
MLB10	5/10/2018	0:25		176.06
MLB10	5/10/2018	0:30		234.03
MLB10	5/10/2018	0:35		233.85
MLB10	5/10/2018	0:40		218.53
MLB10	5/10/2018	0:45		199.14
MLB10	5/10/2018	0:50		178.06
MLB10	5/10/2018	0:55		158.14
MLB10	5/10/2018	1:00		141.08
MLB10	5/10/2018	1:05		120.62
MLB10	5/10/2018	1:10		102.30
MLB10	5/10/2018	1:15		84.31
MLB10	5/10/2018	1:20		67.90
MLB10	5/10/2018	1:25		53.63
MLB10	5/10/2018	1:30		40.73
MLB10	5/10/2018	1:35		30.00
MLB10	5/10/2018	1:40		23.39
MLB10	5/10/2018	1:45		19.19
MLB10	5/10/2018	1:50		16.33
MLB10	5/10/2018	1:55		14.25
MLB10	5/10/2018	2:00		10.94
MLB10	5/10/2018	2:05		7.87
MLB10	5/10/2018	2:10		5.68
MLB10	5/10/2018	2:15		4.21
MLB10	5/10/2018	2:20		3.14
MLB10	5/10/2018	2:25		2.34
MLB10	5/10/2018	2:30		1.73
MLB10	5/10/2018	2:35		1.30

			MLB	SWMM	calcs
MLB10	5/10/2018	2:40		0.93	
MLB10	5/10/2018	2:45		0.63	
MLB10	5/10/2018	2:50		0.39	
MLB10	5/10/2018	2:55		0.20	
MLB10	5/10/2018	3:00		0.07	
MLB10	5/10/2018	3:05		0.01	
MLB10	5/10/2018	3:10		0.00	
MLB10	5/10/2018	3:15		0.00	
MLB10	5/10/2018	3:20		0.00	
MLB10	5/10/2018	3:25		0.00	
MLB10	5/10/2018	3:30		0.00	
MLB10	5/10/2018	3:35		0.00	
MLB10	5/10/2018	3:40		0.00	
MLB10	5/10/2018	3:45		0.00	
MLB10	5/10/2018	3:50		0.00	
MLB10	5/10/2018	3:55		0.00	
MLB10	5/10/2018	4:00		0.00	
MLB10	5/10/2018	4:05		0.00	
MLB10	5/10/2018	4:10		0.00	
MLB10	5/10/2018	4:15		0.00	
MLB10	5/10/2018	4:20		0.00	
MLB10	5/10/2018	4:25		0.00	
MLB10	5/10/2018	4:30		0.00	
MLB10	5/10/2018	4:35		0.00	
MLB10	5/10/2018	4:40		0.00	
MLB10	5/10/2018	4:45		0.00	
MLB10	5/10/2018	4:50		0.00	
MLB10	5/10/2018	4:55		0.00	
MLB10	5/10/2018	5:00		0.00	
MLB10	5/10/2018	5:05		0.00	
MLB10	5/10/2018	5:10		0.00	
MLB10	5/10/2018	5:15		0.00	
MLB10	5/10/2018	5:20		0.00	
MLB10	5/10/2018	5:25		0.00	
MLB10	5/10/2018	5:30		0.00	
MLB10	5/10/2018	5:35		0.00	
MLB10	5/10/2018	5:40		0.00	
MLB10	5/10/2018	5:45		0.00	
MLB10	5/10/2018	5:50		0.00	
MLB10	5/10/2018	5:55		0.00	
MLB10	5/10/2018	6:00		0.00	
MLB10	5/10/2018	6:05		0.00	
MLB10	5/10/2018	6:10		0.00	
MLB10	5/10/2018	6:15		0.00	
MLB10	5/10/2018	6:20		0.00	
MLB10	5/10/2018	6:25		0.00	
MLB10	5/10/2018	6:30		0.00	
MLB10	5/10/2018	6:35		0.00	
MLB10	5/10/2018	6:40		0.00	
MLB10	5/10/2018	6:45		0.00	
MLB10	5/10/2018	6:50		0.00	
MLB10	5/10/2018	6:55		0.00	
MLB10	5/10/2018	7:00		0.00	
MLB10	5/10/2018	7:05		0.00	
MLB10	5/10/2018	7:10		0.00	
MLB10	5/10/2018	7:15		0.00	
MLB10	5/10/2018	7:20		0.00	
MLB10	5/10/2018	7:25		0.00	
MLB10	5/10/2018	7:30		0.00	
MLB10	5/10/2018	7:35		0.00	
MLB10	5/10/2018	7:40		0.00	
MLB10	5/10/2018	7:45		0.00	
MLB10	5/10/2018	7:50		0.00	

			MLB SWMM calcs
MLB10	5/10/2018	7:55	0.00
MLB10	5/10/2018	8:00	0.00
MLB10	5/10/2018	8:05	0.00
MLB10	5/10/2018	8:10	0.00
MLB10	5/10/2018	8:15	0.00
MLB10	5/10/2018	8:20	0.00
MLB10	5/10/2018	8:25	0.00
MLB10	5/10/2018	8:30	0.00
MLB10	5/10/2018	8:35	0.00
MLB10	5/10/2018	8:40	0.00
MLB10	5/10/2018	8:45	0.00
MLB10	5/10/2018	8:50	0.00
MLB10	5/10/2018	8:55	0.00
MLB10	5/10/2018	9:00	0.00
MLB10	5/10/2018	9:05	0.00
MLB10	5/10/2018	9:10	0.00
MLB10	5/10/2018	9:15	0.00
MLB10	5/10/2018	9:20	0.00
MLB10	5/10/2018	9:25	0.00
MLB10	5/10/2018	9:30	0.00
MLB10	5/10/2018	9:35	0.00
MLB10	5/10/2018	9:40	0.00
MLB10	5/10/2018	9:45	0.00
MLB10	5/10/2018	9:50	0.00
MLB10	5/10/2018	9:55	0.00
;			
MLB9	5/10/2018	0:00	0.00
MLB9	5/10/2018	0:05	0.64
MLB9	5/10/2018	0:10	8.59
MLB9	5/10/2018	0:15	32.03
MLB9	5/10/2018	0:20	111.97
MLB9	5/10/2018	0:25	336.09
MLB9	5/10/2018	0:30	576.93
MLB9	5/10/2018	0:35	700.04
MLB9	5/10/2018	0:40	720.11
MLB9	5/10/2018	0:45	688.82
MLB9	5/10/2018	0:50	644.31
MLB9	5/10/2018	0:55	597.87
MLB9	5/10/2018	1:00	561.48
MLB9	5/10/2018	1:05	516.03
MLB9	5/10/2018	1:10	459.23
MLB9	5/10/2018	1:15	396.98
MLB9	5/10/2018	1:20	337.87
MLB9	5/10/2018	1:25	293.46
MLB9	5/10/2018	1:30	257.69
MLB9	5/10/2018	1:35	227.54
MLB9	5/10/2018	1:40	200.37
MLB9	5/10/2018	1:45	175.45
MLB9	5/10/2018	1:50	151.90
MLB9	5/10/2018	1:55	129.75
MLB9	5/10/2018	2:00	106.64
MLB9	5/10/2018	2:05	82.09
MLB9	5/10/2018	2:10	59.90
MLB9	5/10/2018	2:15	44.46
MLB9	5/10/2018	2:20	33.71
MLB9	5/10/2018	2:25	25.53
MLB9	5/10/2018	2:30	19.26
MLB9	5/10/2018	2:35	14.34
MLB9	5/10/2018	2:40	10.50
MLB9	5/10/2018	2:45	7.69
MLB9	5/10/2018	2:50	5.94
MLB9	5/10/2018	2:55	4.71
MLB9	5/10/2018	3:00	3.76

			MLB	SWMM	calcs
MLB9	5/10/2018	3:05		2.94	
MLB9	5/10/2018	3:10		2.21	
MLB9	5/10/2018	3:15		1.59	
MLB9	5/10/2018	3:20		1.07	
MLB9	5/10/2018	3:25		0.66	
MLB9	5/10/2018	3:30		0.34	
MLB9	5/10/2018	3:35		0.12	
MLB9	5/10/2018	3:40		0.01	
MLB9	5/10/2018	3:45		0.00	
MLB9	5/10/2018	3:50		0.00	
MLB9	5/10/2018	3:55		0.00	
MLB9	5/10/2018	4:00		0.00	
MLB9	5/10/2018	4:05		0.00	
MLB9	5/10/2018	4:10		0.00	
MLB9	5/10/2018	4:15		0.00	
MLB9	5/10/2018	4:20		0.00	
MLB9	5/10/2018	4:25		0.00	
MLB9	5/10/2018	4:30		0.00	
MLB9	5/10/2018	4:35		0.00	
MLB9	5/10/2018	4:40		0.00	
MLB9	5/10/2018	4:45		0.00	
MLB9	5/10/2018	4:50		0.00	
MLB9	5/10/2018	4:55		0.00	
MLB9	5/10/2018	5:00		0.00	
MLB9	5/10/2018	5:05		0.00	
MLB9	5/10/2018	5:10		0.00	
MLB9	5/10/2018	5:15		0.00	
MLB9	5/10/2018	5:20		0.00	
MLB9	5/10/2018	5:25		0.00	
MLB9	5/10/2018	5:30		0.00	
MLB9	5/10/2018	5:35		0.00	
MLB9	5/10/2018	5:40		0.00	
MLB9	5/10/2018	5:45		0.00	
MLB9	5/10/2018	5:50		0.00	
MLB9	5/10/2018	5:55		0.00	
MLB9	5/10/2018	6:00		0.00	
MLB9	5/10/2018	6:05		0.00	
MLB9	5/10/2018	6:10		0.00	
MLB9	5/10/2018	6:15		0.00	
MLB9	5/10/2018	6:20		0.00	
MLB9	5/10/2018	6:25		0.00	
MLB9	5/10/2018	6:30		0.00	
MLB9	5/10/2018	6:35		0.00	
MLB9	5/10/2018	6:40		0.00	
MLB9	5/10/2018	6:45		0.00	
MLB9	5/10/2018	6:50		0.00	
MLB9	5/10/2018	6:55		0.00	
MLB9	5/10/2018	7:00		0.00	
MLB9	5/10/2018	7:05		0.00	
MLB9	5/10/2018	7:10		0.00	
MLB9	5/10/2018	7:15		0.00	
MLB9	5/10/2018	7:20		0.00	
MLB9	5/10/2018	7:25		0.00	
MLB9	5/10/2018	7:30		0.00	
MLB9	5/10/2018	7:35		0.00	
MLB9	5/10/2018	7:40		0.00	
MLB9	5/10/2018	7:45		0.00	
MLB9	5/10/2018	7:50		0.00	
MLB9	5/10/2018	7:55		0.00	
MLB9	5/10/2018	8:00		0.00	
MLB9	5/10/2018	8:05		0.00	
MLB9	5/10/2018	8:10		0.00	
MLB9	5/10/2018	8:15		0.00	

			MLB	SWMM calcs
MLB9	5/10/2018	8:20		0.00
MLB9	5/10/2018	8:25		0.00
MLB9	5/10/2018	8:30		0.00
MLB9	5/10/2018	8:35		0.00
MLB9	5/10/2018	8:40		0.00
MLB9	5/10/2018	8:45		0.00
MLB9	5/10/2018	8:50		0.00
MLB9	5/10/2018	8:55		0.00
MLB9	5/10/2018	9:00		0.00
MLB9	5/10/2018	9:05		0.00
MLB9	5/10/2018	9:10		0.00
MLB9	5/10/2018	9:15		0.00
MLB9	5/10/2018	9:20		0.00
MLB9	5/10/2018	9:25		0.00
MLB9	5/10/2018	9:30		0.00
MLB9	5/10/2018	9:35		0.00
MLB9	5/10/2018	9:40		0.00
MLB9	5/10/2018	9:45		0.00
MLB9	5/10/2018	9:50		0.00
MLB9	5/10/2018	9:55		0.00

```
[REPORT]
;;Reporting Options
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
-----
MLB1_1      1430.219      8200.692
MLB1         1095.732      8362.168
MLB2-O(S)   -1616.801     8365.938
MLB2-O(N)   -1685.846     8987.342
MLB8-O       -1202.532     6559.264
MLB1_O       2399.077      7946.943
MLB3_O       1487.889      6758.939
MLB5_O       -2099.193     4325.260
MLB5_O2     -2249.135     3806.228
MLB7_O       1430.219     5028.835
MLB2         -2479.862     8630.610
MLB8         -2422.325     6892.980
MLB3         1107.266     6862.745
MLB5         -2791.234     4359.862
MLB7         253.749      5201.845
MLB10        611.303      3494.810
MLB9         1660.900     3425.606
```

```
[VERTICES]
;;Link      X-Coord      Y-Coord
-----
```

MLB SWMM calcs

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

 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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
 Flow Routing Method DYNWAVE
 Starting Date 05/10/2018 00:00:00
 Ending Date 05/10/2018 11:00:00
 Antecedent Dry Days 0.0
 Report Time Step 00:00:05
 Routing Time Step 5.00 sec
 Variable Time Step YES
 Maximum Trials 8
 Number of Threads 1
 Head Tolerance 0.005000 ft

*****	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	311.075	101.369
External Outflow	161.995	52.788
Flooding Loss	74.784	24.369
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored volume	74.315	24.217
Continuity Error (%)	-0.006	

 Time-Step Critical Elements

Link MLB3 (42.77%)
 Link MLB2_1 (18.79%)
 Link MLB1_1 (2.22%)

 Highest Flow Instability Indexes

MLB SWMM calcs

Link MLB5_2 (3)
Link MLB3 (1)

Routing Time Step Summary

Minimum Time Step : 5.00 sec
Average Time Step : 5.00 sec
Maximum Time Step : 5.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 2.00
Percent Not Converging : 0.00

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
MLB1_1	JUNCTION	0.75	1.79	5007.43	0 00:28	1.79
MLB1	JUNCTION	0.78	2.00	5007.86	0 00:28	2.00
MLB2-O(S)	OUTFALL	0.81	1.50	6.45	0 00:31	1.50
MLB2-O(N)	OUTFALL	0.60	1.11	4.29	0 01:00	1.11
MLB8-O	OUTFALL	0.72	1.91	49.91	0 00:55	1.91
MLB1_O	OUTFALL	0.67	1.54	5006.90	0 00:29	1.54
MLB3_O	OUTFALL	0.97	3.50	74.50	0 01:28	3.50
MLB5_O	OUTFALL	1.31	2.38	4951.38	0 01:13	2.38
MLB5_O2	OUTFALL	1.12	1.92	4948.74	0 01:04	1.92
MLB7_O	OUTFALL	0.83	3.35	4959.03	0 02:53	3.35
MLB2	STORAGE	1.72	4.00	11.79	0 00:58	4.00
MLB8	STORAGE	1.64	5.00	59.00	0 00:51	5.00
MLB3	STORAGE	0.98	3.64	75.64	0 01:36	3.64
MLB5	STORAGE	1.95	4.00	4954.55	0 01:07	4.00
MLB7	STORAGE	1.02	4.00	4959.92	0 01:32	4.00
MLB10	STORAGE	1.01	1.09	4994.09	0 03:10	1.09
MLB9	STORAGE	0.63	0.69	4969.69	0 03:45	0.69

Node Inflow Summary

Total Inflow Volume Node gal	Flow Balance Error Percent	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow volume 10^6 gal	10^6
1.96	0.001	JUNCTION	0.00	18.23	0 00:29	0	

			MLB SWMM	calcs			
MLB1		JUNCTION	45.75	45.75	0	01:05	2.94
2.94	-0.003						
MLB2-O(S)		OUTFALL	0.00	22.22	0	00:59	0
3.15	0.000						
MLB2-O(N)		OUTFALL	0.00	8.28	0	01:00	0
1.19	0.000						
MLB8-O		OUTFALL	0.00	34.11	0	00:55	0
3.7	0.000						
MLB1_O		OUTFALL	0.00	18.23	0	00:29	0
1.96	0.000						
MLB3_O		OUTFALL	0.00	151.70	0	01:36	0
10.6	0.000						
MLB5_O		OUTFALL	0.00	53.60	0	01:13	0
7.63	0.000						
MLB5_O2		OUTFALL	0.00	34.97	0	01:04	0
5.39	0.000						
MLB7_O		OUTFALL	0.00	312.97	0	02:53	0
19.1	0.000						
MLB2		STORAGE	99.92	99.92	0	00:50	6.95
6.95	-0.023						
MLB8		STORAGE	173.46	173.46	0	00:45	6.24
6.24	-0.057						
MLB3		STORAGE	152.37	152.37	0	01:35	10.6
10.6	-0.003						
MLB5		STORAGE	215.64	215.64	0	01:30	19.3
19.3	0.000						
MLB7		STORAGE	926.61	926.61	0	01:50	31.1
31.1	-0.001						
MLB10		STORAGE	234.03	234.03	0	00:30	5.02
5.02	0.000						
MLB9		STORAGE	720.11	720.11	0	00:40	19.2
19.2	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 Feet	Min. Depth Below Rim Feet
MLB1	JUNCTION	2.83	0.417	0.000

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 Poned Depth Feet
MLB1	2.49	27.52	0 01:05	0.972	0.000
MLB2	2.47	66.52	0 01:35	2.600	0.000
MLB8	1.59	137.25	0 00:51	2.545	0.000
MLB5	2.88	127.17	0 01:30	6.308	0.000
MLB7	1.31	624.84	0 01:50	11.942	0.000

MLB SWMM calcs

Storage Volume Summary

of Max Occurrence Storage Unit hr:min	Maximum Outflow Unit CFS	Average Volume 1000 ft3	Avg Pc Full	Evap Loss	Exfil Loss	Maximum Volume 1000 ft3	Max Pc Full	Time days
MLB2 00:58	30.51	46.830	38	0	0	123.744	100	0
MLB8 00:51	34.11	48.642	28	0	0	176.867	100	0
MLB3 01:36	151.70	1.093	11	0	0	7.765	80	0
MLB5 01:07	88.46	99.928	40	0	0	252.897	100	0
MLB7 01:32	312.97	2.749	18	0	0	15.234	100	0
MLB10 03:10	0.00	618.821	45	0	0	671.497	49	0
MLB9 03:45	0.00	2324.030	19	0	0	2565.785	21	0

Outfall Loading Summary

Outfall Node	Flow Freq Pc	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
MLB2-O(S)	94.26	11.30	22.22	3.155
MLB2-O(N)	81.28	4.95	8.28	1.193
MLB8-O	47.65	26.18	34.11	3.695
MLB1_O	77.71	8.53	18.23	1.964
MLB3_O	90.38	39.74	151.70	10.640
MLB5_O	97.50	26.40	53.60	7.625
MLB5_O2	98.84	18.41	34.97	5.390
MLB7_O	69.20	93.29	312.97	19.123
System	82.10	228.81	624.55	52.785

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
------	------	-----------------------	--	---------------------------	----------------------	-----------------------

MLB SWMM calcs

Conduit	Type	Length	Flow	Time	Velocity	Capacity	Factor
MLB2_1	CONDUIT	22.22	0	00:59	12.58	1.37	1.00
MLB2_2	CONDUIT	8.28	0	01:00	5.07	1.29	0.87
MLB8	CONDUIT	34.11	0	00:55	10.92	1.25	0.98
MLB1	CONDUIT	18.23	0	00:29	5.53	1.41	1.00
MLB1_1	CONDUIT	18.23	0	00:29	6.54	1.34	0.83
MLB3	CONDUIT	151.70	0	01:36	17.10	1.07	1.00
MLB5	CONDUIT	53.60	0	01:13	9.78	1.45	0.95
MLB5_2	CONDUIT	34.97	0	01:04	11.19	1.25	1.00
MLB7	CONDUIT	312.97	0	02:53	9.71	1.97	0.91

Flow Classification Summary

Inlet Conduit Ctrl	Adjusted /Actual Length	Fraction of Time in Flow Class							
		Up Dry	Down Dry	Sub Dry	Sup Crit	Up Crit	Down Crit	Norm Ltd	
MLB2_1	1.00	0.01	0.00	0.00	0.47	0.53	0.00	0.00	0.00
MLB2_2	1.00	0.01	0.00	0.00	0.93	0.06	0.00	0.00	0.00
MLB8	1.00	0.01	0.00	0.00	0.80	0.19	0.00	0.00	0.02
MLB1	1.00	0.00	0.19	0.00	0.81	0.00	0.00	0.00	0.44
MLB1_1	1.00	0.00	0.00	0.00	0.91	0.09	0.00	0.00	0.00
MLB3	1.00	0.00	0.00	0.00	0.07	0.93	0.00	0.00	0.44
MLB5	1.00	0.00	0.00	0.00	0.52	0.48	0.00	0.00	0.17
MLB5_2	1.00	0.00	0.00	0.00	0.48	0.52	0.00	0.00	0.32
MLB7	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00

Conduit Surcharge Summary

Conduit	Hours Full		Hours Above Full Normal Flow	Hours Capacity Limited
	Both Ends	Upstream Dnstream		
MLB2_1	4.88	5.03	4.96	4.88
MLB2_2	0.01	5.03	0.01	0.01
MLB8	0.01	4.01	0.01	0.01
MLB1	2.76	2.83	2.76	2.76
MLB1_1	0.01	0.01	0.01	0.01
MLB3	0.24	0.24	0.41	0.24

FOSTER RESERVOIR BASIN CALCULATIONS



JVA Incorporated
 213 Linden Street Suite 200
 Fort Collins, CO 80524
 Ph: (970) 225 9099

Job Name: Town of Mead - Drainage Master Plan Update
 Job Number: 1970.76c
 Date: 11/9/18
 By: LAT

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_A = 0.84i^{1.302}$	$C_A = 0.86i^{1.276}$	$C_A = 0.87i^{1.232}$	$C_A = 0.84i^{1.124}$	$C_A = 0.85i+0.025$	$C_A = 0.78i+0.110$	$C_A = 0.65i+0.254$
B	$C_B = 0.84i^{1.169}$	$C_B = 0.86i^{1.088}$	$C_B = 0.81i+0.057$	$C_B = 0.63i+0.249$	$C_B = 0.56i+0.328$	$C_B = 0.47i+0.426$	$C_B = 0.37i+0.536$
C/D	$C_{CD} = 0.83i^{1.122}$	$C_{CD} = 0.82i+0.035$	$C_{CD} = 0.74i+0.132$	$C_{CD} = 0.56i+0.319$	$C_{CD} = 0.49i+0.393$	$C_{CD} = 0.41i+0.484$	$C_{CD} = 0.32i+0.588$

Town of Mead - Drainage Master Plan Update
Composite Runoff Coefficient Calculations Foster Reservoir Basin

Location: Mead
 Minor Design Storm: 10
 Major Design Storm: 100
 Soil Type: C/D

Basin Design Data																				Runoff Coeff's						
Basin Name	Design Point	100%	90%	40%	90%	95%	85%	90%	50%	55%	50%	45%	30%	20%	10%	2%	2%	100%	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	C2	C5	C10	C100	
		A _{Paved} (sf)	A _{Drive/Walks Concrete} (sf)	A _{Gravel} (sf)	A _{Roof} (sf)	A _{Business Commercial} (sf)	A _{Business Neighborhood} (sf)	A _{Industrial Heavy} (sf)	A _{Railroad yard} (sf)	A _{School} (sf)	A _{Ag Bldg/Residential} (sf)	A _{Single family (<.25 acre lot only)} (sf)	A _{Single family (.25-.75 acre lot only)} (sf)	A _{Single family (>.75 acre lot only)} (sf)	A _{Parks/Cemetery} (sf)	A _{Lawns} (sf)	A _{Ag/Green Belt} (sf)	A _{WATER} (sf)								
FRB1	1	246,180		65,730							375,255						1,317,058		2,004,223	46.01	24.3%	0.17	0.23	0.31	0.58	
FRB2	2	576,568		761,351		209,545					70,527						16,089,113	5,170,310	22,877,414	525.19	28.9%	0.21	0.27	0.35	0.60	
FRB3	3	113,546		18,956					60,703								1,759,488		1,952,693	44.83	9.6%	0.06	0.11	0.20	0.52	
TOTAL SITE		936,294	0	846,037	0	209,545	0	0	60,703	0	445,782	0	0	0	0	0	19,165,659	5,170,310	26,834,330	616.03	27.1%	0.19	0.26	0.33	0.60	

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
FRB1		100yr	0.0718916	0.132954545	0.6128788	0.010506799	24.27078524	0.4	0.1	3	0.0018	0.5	0
FRB2		100yr	0.8206143	0.251136364	1.0831439	0.013534009	28.88233744	0.4	0.1	3	0.0018	0.5	0
FRB3		100yr	0.0700432	0.089962121	0.3918561	0.005592073	9.559601023	0.4	0.1	3	0.0018	0.5	0

FOSTER RESERVOIR BASIN

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in./hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
FRB1		100YR	0.072	0.133	0.613	0.011	24.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.49	0.15	23.12
FRB2		100YR	0.821	0.251	1.083	0.014	28.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.58	0.17	27.72
FRB3		100YR	0.070	0.090	0.392	0.006	9.6	0.40	0.10	3.00	0.50	0.0018	0.00	0.19	0.10	8.77

FOSTER RESERVOIR BASIN

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
FRB1		0.107	0.111	40.3	4.93	21.0	3.49	8.2	54	167,019	2.02	336,664	45.0	74	335,876	1.62
FRB2		0.102	0.282	25.4	7.00	13.2	4.95	11.7	969	1,906,451	2.07	3,950,315	40.0	1,221	3,937,349	2.33
FRB3		0.130	0.120	35.4	4.77	18.4	3.37	8.0	59	162,724	1.84	298,914	45.0	75	298,230	1.68

FOSTER RESERVOIR BASIN

Printouts for Unit Hydrographs

flow in cfs

time in minutes	FRB1	FRB2	FRB3
5	42.09	529.58	47.92
10	53.39	941.18	59.02
15	51.51	929.15	56.05
20	47.44	724.87	49.81
25	41.18	605.56	42.58
30	36.92	486.25	37.83
35	33.18	419.36	33.09
40	29.44	353.35	28.88
45	26.14	287.33	26.10
50	23.94	221.32	23.31
55	21.73	180.91	20.53
60	19.53	158.91	17.74
65	17.33	136.90	14.96
70	15.13	114.90	12.17
75	12.92	92.89	11.04
80	10.72	70.89	10.11
85	9.98	48.88	9.18
90	9.24	26.88	8.25
95	8.51	4.87	7.32
100	7.77	0.00	6.40
105	7.04		5.47
110	6.30		4.54
115	5.57		3.61
120	4.84		2.68
125	4.10		1.76
130	3.37		0.83
135	2.63		0.00
140	1.90		
145	1.16		
150	0.43		
155	0.00		

FRB ROUTING CALCULATIONS

FOSTER RESERVOIR BASIN

END Basin FRB2

End Node	Upstream Nodes
FRB2	FRB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
FRB2	40.0	0
FRB1	45.0	40.0

time in minutes	FRB2	FRB1	Total to FRB2	max
0	0.00		0.00	1221
5	0.94		0.94	
10	12.40		12.40	
15	47.07		47.07	
20	177.55		177.55	
25	601.45		601.45	
30	1037.65		1037.65	
35	1221.49		1221.49	
40	1203.05		1203.05	
45	1135.94	0.00	1135.94	
50	1044.34	0.05	1044.40	
55	963.84	0.67	964.51	
60	893.29	2.59	895.88	
65	798.38	11.25	809.63	
70	685.15	40.52	725.67	
75	580.21	61.85	642.06	
80	495.09	71.24	566.33	
85	422.63	74.36	496.99	
90	361.88	73.46	435.34	
95	306.81	71.04	377.85	
100	256.14	68.48	324.62	
105	208.79	65.94	274.73	
110	165.37	61.41	226.78	
115	127.33	56.92	184.25	
120	97.64	52.02	149.67	
125	73.86	47.13	120.99	
130	54.90	42.53	97.42	
135	40.71	38.10	78.81	
140	29.82	33.86	63.68	
145	21.61	30.02	51.63	
150	15.51	27.19	42.70	
155	11.53	24.89	36.42	
160	8.73	22.86	31.58	
165	6.83	20.73	27.57	
170	5.36	18.67	24.03	
175	4.06	16.72	20.78	
180	2.94	14.90	17.84	
185	2.00	13.22	15.22	
190	1.24	11.59	12.82	
195	0.66	10.00	10.66	
200	0.26	8.43	8.69	
205	0.04	6.89	6.93	
210	0.00	5.37	5.37	
215	0.00	3.94	3.94	
220	0.00	2.81	2.81	
225	0.00	2.06	2.06	
230	0.00	1.53	1.53	
235	0.00	1.14	1.14	
240	0.00	0.84	0.84	
245	0.00	0.61	0.61	
250	0.00	0.44	0.44	
255	0.00	0.33	0.33	
260	0.00	0.26	0.26	
265	0.00	0.21	0.21	
270	0.00	0.16	0.16	
275	0.00	0.12	0.12	
280	0.00	0.09	0.09	
285	0.00	0.06	0.06	
290	0.00	0.04	0.04	
295	0.00	0.02	0.02	
300	0.00	0.01	0.01	
305	0.00	0.00	0.00	
310	0.00	0.00	0.00	

FRB SWMM INPUT

FRB SWMM calcs

[TITLE]

;;Project Title/Notes

[OPTIONS]

```

;;Option      Value
FLOW_UNITS    CFS
INFILTRATION  HORTON
FLOW_ROUTING  DYNWAVE
LINK_OFFSETS  DEPTH
MIN_SLOPE     0
ALLOW_PONDING NO
SKIP_STEADY_STATE NO

START_DATE    05/10/2018
START_TIME    00:00:00
REPORT_START_DATE 05/10/2018
REPORT_START_TIME 00:00:00
END_DATE      05/10/2018
END_TIME      06:00:00
SWEEP_START   01/01
SWEEP_END     12/31
DRY_DAYS      0
REPORT_STEP   00:01:00
WET_STEP      00:01:00
DRY_STEP      01:00:00
ROUTING_STEP  0:00:05
    
```

```

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP    0.75
LENGTHENING_STEP 0
MIN_SURFAREA     12.557
MAX_TRIALS        8
HEAD_TOLERANCE   0.005
SYS_FLOW_TOL     5
LAT_FLOW_TOL     5
MINIMUM_STEP     0.5
THREADS          1
    
```

[EVAPORATION]

```

;;Data Source Parameters
;;-----
CONSTANT      0.0
DRY_ONLY      NO
    
```

[OUTFALLS]

Name	Elevation	Type	Stage Data	Gated	Route To
FRB1_0	77.5	FREE		NO	
FRB3_0	49.8	FREE		NO	

[STORAGE]

Name	Fevap	Elev. Psi	MaxDepth Ksat	InitDepth IMD	Shape	Curve Name/Params
FRB1_0	0	78	3	0	TABULAR	FRB1
FRB2_0	0	4948	3	0	TABULAR	FRB2
FRB3_0	0	51	4	0	TABULAR	FRB3

FRB SWMM calcs

[CONDUITS]							
;;Name	From Node	To Node	Length	Roughness	InOffset		
OutOffset	InitFlow	MaxFlow					
;;-----							
FRB1	FRB1	FRB1_0	150	0.013	0		
0	0	0					
FRB3	FRB3	FRB3_0	290	0.013	0		
0	0	0					

[XSECTIONS]							
;;Link	Shape	Geom1	Geom2	Geom3	Geom4		
Barrels	Culvert						
;;-----							
FRB1	CIRCULAR	2	0	0	0	0	1
FRB3	CIRCULAR	3	0	0	0	0	1

[INFLOWS]						
;;Node	Constituent	Time Series	Type	Mfactor	Sfactor	
Baseline Pattern						
;;-----						
FRB1	FLOW	FRB1	FLOW	1.0	1.0	
FRB2	FLOW	FRB2	FLOW	1.0	1.0	
FRB3	FLOW	FRB3	FLOW	1.0	1.0	

[CURVES]			
;;Name	Type	X-Value	Y-Value
;;-----			
FRB1	Storage	0	25390
FRB1		1	110390
FRB1		2	201063
FRB1		3	272753
FRB2	Storage	0	4459508
FRB2		1	5813864
FRB2		2	6225462
FRB2		3	6621636
FRB3	Storage	0	0
FRB3		1	1800
FRB3		2	11692
FRB3		3	213690
FRB3		4	619717

[TIMESERIES]			
;;Name	Date	Time	Value
;;-----			
FRB1	5/10/2018	0:00	0.00
FRB1	5/10/2018	0:05	0.05
FRB1	5/10/2018	0:10	0.67
FRB1	5/10/2018	0:15	2.59
FRB1	5/10/2018	0:20	11.25
FRB1	5/10/2018	0:25	40.52
FRB1	5/10/2018	0:30	61.85
FRB1	5/10/2018	0:35	71.24

			FRB SWMM calcs
FRB1	5/10/2018	0:40	74.36
FRB1	5/10/2018	0:45	73.46
FRB1	5/10/2018	0:50	71.04
FRB1	5/10/2018	0:55	68.48
FRB1	5/10/2018	1:00	65.94
FRB1	5/10/2018	1:05	61.41
FRB1	5/10/2018	1:10	56.92
FRB1	5/10/2018	1:15	52.02
FRB1	5/10/2018	1:20	47.13
FRB1	5/10/2018	1:25	42.53
FRB1	5/10/2018	1:30	38.10
FRB1	5/10/2018	1:35	33.86
FRB1	5/10/2018	1:40	30.02
FRB1	5/10/2018	1:45	27.19
FRB1	5/10/2018	1:50	24.89
FRB1	5/10/2018	1:55	22.86
FRB1	5/10/2018	2:00	20.73
FRB1	5/10/2018	2:05	18.67
FRB1	5/10/2018	2:10	16.72
FRB1	5/10/2018	2:15	14.90
FRB1	5/10/2018	2:20	13.22
FRB1	5/10/2018	2:25	11.59
FRB1	5/10/2018	2:30	10.00
FRB1	5/10/2018	2:35	8.43
FRB1	5/10/2018	2:40	6.89
FRB1	5/10/2018	2:45	5.37
FRB1	5/10/2018	2:50	3.94
FRB1	5/10/2018	2:55	2.81
FRB1	5/10/2018	3:00	2.06
FRB1	5/10/2018	3:05	1.53
FRB1	5/10/2018	3:10	1.14
FRB1	5/10/2018	3:15	0.84
FRB1	5/10/2018	3:20	0.61
FRB1	5/10/2018	3:25	0.44
FRB1	5/10/2018	3:30	0.33
FRB1	5/10/2018	3:35	0.26
FRB1	5/10/2018	3:40	0.21
FRB1	5/10/2018	3:45	0.16
FRB1	5/10/2018	3:50	0.12
FRB1	5/10/2018	3:55	0.09
FRB1	5/10/2018	4:00	0.06
FRB1	5/10/2018	4:05	0.04
FRB1	5/10/2018	4:10	0.02
FRB1	5/10/2018	4:15	0.01
FRB1	5/10/2018	4:20	0.00
FRB1	5/10/2018	4:25	0.00
;			
FRB2	5/10/2018	0:00	0.00
FRB2	5/10/2018	0:05	0.94
FRB2	5/10/2018	0:10	12.40
FRB2	5/10/2018	0:15	47.07
FRB2	5/10/2018	0:20	177.55
FRB2	5/10/2018	0:25	601.45
FRB2	5/10/2018	0:30	1037.65
FRB2	5/10/2018	0:35	1221.49
FRB2	5/10/2018	0:40	1203.05
FRB2	5/10/2018	0:45	1135.94
FRB2	5/10/2018	0:50	1044.40
FRB2	5/10/2018	0:55	964.51
FRB2	5/10/2018	1:00	895.88
FRB2	5/10/2018	1:05	809.63
FRB2	5/10/2018	1:10	725.67
FRB2	5/10/2018	1:15	642.06

			FRB SWMM calcs
FRB2	5/10/2018	1:20	566.33
FRB2	5/10/2018	1:25	496.99
FRB2	5/10/2018	1:30	435.34
FRB2	5/10/2018	1:35	377.85
FRB2	5/10/2018	1:40	324.62
FRB2	5/10/2018	1:45	274.73
FRB2	5/10/2018	1:50	226.78
FRB2	5/10/2018	1:55	184.25
FRB2	5/10/2018	2:00	149.67
FRB2	5/10/2018	2:05	120.99
FRB2	5/10/2018	2:10	97.42
FRB2	5/10/2018	2:15	78.81
FRB2	5/10/2018	2:20	63.68
FRB2	5/10/2018	2:25	51.63
FRB2	5/10/2018	2:30	42.70
FRB2	5/10/2018	2:35	36.42
FRB2	5/10/2018	2:40	31.58
FRB2	5/10/2018	2:45	27.57
FRB2	5/10/2018	2:50	24.03
FRB2	5/10/2018	2:55	20.78
FRB2	5/10/2018	3:00	17.84
FRB2	5/10/2018	3:05	15.22
FRB2	5/10/2018	3:10	12.82
FRB2	5/10/2018	3:15	10.66
FRB2	5/10/2018	3:20	8.69
FRB2	5/10/2018	3:25	6.93
FRB2	5/10/2018	3:30	5.37
FRB2	5/10/2018	3:35	3.94
FRB2	5/10/2018	3:40	2.81
FRB2	5/10/2018	3:45	2.06
FRB2	5/10/2018	3:50	1.53
FRB2	5/10/2018	3:55	1.14
FRB2	5/10/2018	4:00	0.84
FRB2	5/10/2018	4:05	0.61
FRB2	5/10/2018	4:10	0.44
FRB2	5/10/2018	4:15	0.33
FRB2	5/10/2018	4:20	0.26
FRB2	5/10/2018	4:25	0.21
FRB2	5/10/2018	4:30	0.16
FRB2	5/10/2018	4:35	0.12
FRB2	5/10/2018	4:40	0.09
FRB2	5/10/2018	4:45	0.06
FRB2	5/10/2018	4:50	0.04
FRB2	5/10/2018	4:55	0.02
FRB2	5/10/2018	5:00	0.01
FRB2	5/10/2018	5:05	0.00
FRB2	5/10/2018	5:10	0.00
FRB2	5/10/2018	5:15	0.00
FRB2	5/10/2018	5:20	0.00
FRB2	5/10/2018	5:25	0.00
FRB2	5/10/2018	5:30	0.00
FRB2	5/10/2018	5:35	0.00
FRB2	5/10/2018	5:40	0.00
FRB2	5/10/2018	5:45	0.00
FRB2	5/10/2018	5:50	0.00
FRB2	5/10/2018	5:55	0.00
FRB2	5/10/2018	6:00	0.00
FRB2	5/10/2018	6:05	0.00
FRB2	5/10/2018	6:10	0.00
FRB2	5/10/2018	6:15	0.00
FRB2	5/10/2018	6:20	0.00
FRB2	5/10/2018	6:25	0.00
FRB2	5/10/2018	6:30	0.00

			FRB	SWMM calcs
FRB2	5/10/2018	6:35		0.00
FRB2	5/10/2018	6:40		0.00
FRB2	5/10/2018	6:45		0.00
FRB2	5/10/2018	6:50		0.00
FRB2	5/10/2018	6:55		0.00
FRB2	5/10/2018	7:00		0.00
FRB2	5/10/2018	7:05		0.00
FRB2	5/10/2018	7:10		0.00
FRB2	5/10/2018	7:15		0.00
FRB2	5/10/2018	7:20		0.00
FRB2	5/10/2018	7:25		0.00
FRB2	5/10/2018	7:30		0.00
FRB2	5/10/2018	7:35		0.00
FRB2	5/10/2018	7:40		0.00
FRB2	5/10/2018	7:45		0.00
FRB2	5/10/2018	7:50		0.00
FRB2	5/10/2018	7:55		0.00
FRB2	5/10/2018	8:00		0.00
FRB2	5/10/2018	8:05		0.00
FRB2	5/10/2018	8:10		0.00
FRB2	5/10/2018	8:15		0.00
FRB2	5/10/2018	8:20		0.00
FRB2	5/10/2018	8:25		0.00
FRB2	5/10/2018	8:30		0
;				
FRB3	5/10/2018	0:00		0.00
FRB3	5/10/2018	0:05		0.01
FRB3	5/10/2018	0:10		0.12
FRB3	5/10/2018	0:15		0.64
FRB3	5/10/2018	0:20		7.99
FRB3	5/10/2018	0:25		40.48
FRB3	5/10/2018	0:30		63.58
FRB3	5/10/2018	0:35		73.09
FRB3	5/10/2018	0:40		75.21
FRB3	5/10/2018	0:45		73.33
FRB3	5/10/2018	0:50		70.08
FRB3	5/10/2018	0:55		66.57
FRB3	5/10/2018	1:00		63.42
FRB3	5/10/2018	1:05		58.51
FRB3	5/10/2018	1:10		53.29
FRB3	5/10/2018	1:15		47.48
FRB3	5/10/2018	1:20		41.76
FRB3	5/10/2018	1:25		36.32
FRB3	5/10/2018	1:30		31.30
FRB3	5/10/2018	1:35		27.53
FRB3	5/10/2018	1:40		24.57
FRB3	5/10/2018	1:45		22.00
FRB3	5/10/2018	1:50		19.70
FRB3	5/10/2018	1:55		17.58
FRB3	5/10/2018	2:00		15.49
FRB3	5/10/2018	2:05		13.50
FRB3	5/10/2018	2:10		11.64
FRB3	5/10/2018	2:15		9.84
FRB3	5/10/2018	2:20		8.08
FRB3	5/10/2018	2:25		6.34
FRB3	5/10/2018	2:30		4.63
FRB3	5/10/2018	2:35		3.11
FRB3	5/10/2018	2:40		2.17
FRB3	5/10/2018	2:45		1.54
FRB3	5/10/2018	2:50		1.07
FRB3	5/10/2018	2:55		0.72
FRB3	5/10/2018	3:00		0.47
FRB3	5/10/2018	3:05		0.29

			FRB	SWMM	calcs
FRB3	5/10/2018	3:10		0.18	
FRB3	5/10/2018	3:15		0.13	
FRB3	5/10/2018	3:20		0.09	
FRB3	5/10/2018	3:25		0.08	
FRB3	5/10/2018	3:30		0.06	
FRB3	5/10/2018	3:35		0.04	
FRB3	5/10/2018	3:40		0.03	
FRB3	5/10/2018	3:45		0.02	
FRB3	5/10/2018	3:50		0.01	
FRB3	5/10/2018	3:55		0.01	
FRB3	5/10/2018	4:00		0.00	
FRB3	5/10/2018	4:05		0.00	
FRB3	5/10/2018	4:10		0.00	
FRB3	5/10/2018	4:15		0.00	
FRB3	5/10/2018	4:20		0.00	
FRB3	5/10/2018	4:25		0.00	
FRB3	5/10/2018	4:30		0.12	
FRB3	5/10/2018	4:35		0.09	
FRB3	5/10/2018	4:40		0.06	
FRB3	5/10/2018	4:45		0.04	
FRB3	5/10/2018	4:50		0.02	
FRB3	5/10/2018	4:55		0.01	
FRB3	5/10/2018	5:00		0.00	
FRB3	5/10/2018	5:05		0.00	
FRB3	5/10/2018	5:10		0.00	
FRB3	5/10/2018	5:15		0.00	
FRB3	5/10/2018	5:20		0.00	
FRB3	5/10/2018	5:25		0.00	
FRB3	5/10/2018	5:30		0.00	
FRB3	5/10/2018	5:35		0.00	
FRB3	5/10/2018	5:40		0.00	
FRB3	5/10/2018	5:45		0.00	
FRB3	5/10/2018	5:50		0.00	
FRB3	5/10/2018	5:55		0.00	
FRB3	5/10/2018	6:00		0.00	
FRB3	5/10/2018	6:05		0.00	
FRB3	5/10/2018	6:10		0.00	
FRB3	5/10/2018	6:15		0.00	
FRB3	5/10/2018	6:20		0.00	
FRB3	5/10/2018	6:25		0.00	
FRB3	5/10/2018	6:30		0.00	
FRB3	5/10/2018	6:35		0.00	
FRB3	5/10/2018	6:40		0.00	
FRB3	5/10/2018	6:45		0.00	
FRB3	5/10/2018	6:50		0.00	
FRB3	5/10/2018	6:55		0.00	
FRB3	5/10/2018	7:00		0.00	
FRB3	5/10/2018	7:05		0.00	
FRB3	5/10/2018	7:10		0.00	
FRB3	5/10/2018	7:15		0.00	
FRB3	5/10/2018	7:20		0.00	
FRB3	5/10/2018	7:25		0.00	
FRB3	5/10/2018	7:30		0.00	
FRB3	5/10/2018	7:35		0.00	
FRB3	5/10/2018	7:40		0.00	
FRB3	5/10/2018	7:45		0.00	
FRB3	5/10/2018	7:50		0.00	
FRB3	5/10/2018	7:55		0.00	
FRB3	5/10/2018	8:00		0.00	
FRB3	5/10/2018	8:05		0.00	
FRB3	5/10/2018	8:10		0.00	
FRB3	5/10/2018	8:15		0.00	
FRB3	5/10/2018	8:20		0.00	

FRB3 5/10/2018 8:25 FRB SWMM calcs
0

[REPORT]
;;Reporting Options
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

FRB1_0 173.010 6343.714
FRB3_0 1303.345 7381.776
FRB1 -507.497 6378.316
FRB2 -461.361 5478.662
FRB3 334.487 7670.127

[VERTICES]
;;Link X-Coord Y-Coord

;;

FRB SWMM calcs

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

 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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
 Flow Routing Method DYNWAVE
 Starting Date 05/10/2018 00:00:00
 Ending Date 05/10/2018 06:00:00
 Antecedent Dry Days 0.0
 Report Time Step 00:01:00
 Routing Time Step 5.00 sec
 Variable Time Step YES
 Maximum Trials 8
 Number of Threads 1
 Head Tolerance 0.005000 ft

*****	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	112.655	36.710
External Outflow	12.944	4.218
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	99.713	32.493
Continuity Error (%)	-0.002	

Time-Step Critical Elements

None

Highest Flow Instability Indexes

All links are stable.

FRB SWMM calcs

Routing Time Step Summary

Minimum Time Step : 4.50 sec
 Average Time Step : 5.00 sec
 Maximum Time Step : 5.00 sec
 Percent in Steady State : 0.00
 Average Iterations per Step : 2.00
 Percent Not Converging : 0.00

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
FRB1_0	OUTFALL	1.20	1.51	79.01	0 02:08	1.51
FRB3_0	OUTFALL	0.76	2.28	52.08	0 01:13	2.28
FRB1	STORAGE	1.44	2.00	80.00	0 02:08	2.00
FRB2	STORAGE	0.71	0.85	4948.85	0 05:05	0.85
FRB3	STORAGE	0.85	2.68	53.68	0 01:13	2.68

Node Inflow Summary

Total Inflow Volume gal	Flow Balance Error Percent	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow volume 10^6 gal
1.99	0.000	OUTFALL	0.00	17.46	0 02:08	0
2.23	0.000	OUTFALL	0.00	49.16	0 01:13	0
2.51	0.035	STORAGE	74.36	74.36	0 00:40	2.51
32	-0.000	STORAGE	1221.46	1221.46	0 00:35	32
2.23	0.004	STORAGE	75.21	75.21	0 00:40	2.23

Node Surcharge Summary

No nodes were surcharged.

FRB SWMM calcs

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

of Max Occurrence Storage Unit hr:min	Maximum Outflow Unit CFS	Average volume 1000 ft3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum volume 1000 ft3	Max Pcnt Full	Time days
FRB1 02:08	17.46	138.150	30	0	0	222.890	48	0
FRB2 05:05	0.00	3527.374	20	0	0	4273.218	24	0
FRB3 01:13	49.16	11.137	2	0	0	62.039	12	0

Outfall Loading Summary

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total volume 10^6 gal
FRB1_O	95.83	12.83	17.46	1.986
FRB3_O	82.37	16.76	49.16	2.231
System	89.10	29.59	65.47	4.218

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
FRB1	CONDUIT	17.46	0 02:08	6.03	1.34	0.88
FRB3	CONDUIT	49.16	0 01:13	7.87	1.15	0.83

Flow Classification Summary

FRB SWMM calcs

Inlet Conduit Ctrl	Adjusted /Actual Length	Fraction of Time in Flow Class							
		Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd
FRB1 0.00	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00
FRB3 0.00	1.00	0.00	0.00	0.00	0.67	0.33	0.00	0.00	0.09

Conduit Surcharge Summary

Conduit	Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
FRB1	0.01	0.01	0.01	3.20	0.01
FRB3	0.01	0.01	0.01	1.24	0.01

Analysis begun on: Tue Nov 13 13:42:43 2018
 Analysis ended on: Tue Nov 13 13:42:43 2018
 Total elapsed time: < 1 sec

	MLB SWMM calcs					
MLB5	0.01	4.73	0.01	5.07	0.01	
MLB5_2	3.20	5.15	3.20	5.33	3.20	
MLB7	0.01	1.31	0.01	1.81	0.01	

Analysis begun on: Tue Nov 13 13:41:09 2018
Analysis ended on: Tue Nov 13 13:41:09 2018
Total elapsed time: < 1 sec

LITTLE THOMPSON RIVER BASIN CALCULATIONS



JVA Incorporated
213 Linden Street Suite 200
Fort Collins, CO 80524
Ph: (970) 225 9099

Job Name: Town of Mead - Drainage Master Plan Update
Job Number: 1970.76c
Date: 11/1/18
By: LAT

Town of Mead - Drainage Master Plan Update

Composite Runoff Coefficient Calculations Little Thompson River Basin

Location: Mead
Minor Design Storm: 10
Major Design Storm: 100
Soil Type: C/D

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_{10} = 0.84i^{1.302}$	$C_{10} = 0.86i^{1.276}$	$C_{10} = 0.87i^{1.252}$	$C_{10} = 0.84i^{1.228}$	$C_{10} = 0.85i+0.025$	$C_{10} = 0.78i+0.110$	$C_{10} = 0.65i+0.254$
B	$C_{10} = 0.84i^{1.168}$	$C_{10} = 0.86i^{1.088}$	$C_{10} = 0.81i+0.057$	$C_{10} = 0.63i+0.249$	$C_{10} = 0.56i+0.328$	$C_{10} = 0.47i+0.426$	$C_{10} = 0.37i+0.536$
C/D	$C_{10} = 0.83i^{1.022}$	$C_{10} = 0.82i+0.035$	$C_{10} = 0.74i+0.132$	$C_{10} = 0.56i+0.319$	$C_{10} = 0.49i+0.393$	$C_{10} = 0.41i+0.484$	$C_{10} = 0.32i+0.588$

Basin Design Data		I (%) =																	Runoff Coeff's							
Basin Name	Design Point	100%	90%	40%	90%	95%	85%	90%	50%	55%	50%	45%	30%	20%	10%	2%	2%	100%	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	C2	C5	C10	C100	
		A _{Paved} (sf)	A _{Drive/Walks Concrete} (sf)	A _{Gravel} (sf)	A _{Roof} (sf)	A _{Business Commercial} (sf)	A _{Business Neighborhood} (sf)	A _{Industrial Heavy} (sf)	A _{Railroad yard} (sf)	A _{School} (sf)	A _{Ag Bldg/Residential} (sf)	A _{Single family (<25 acre lot only)} (sf)	A _{Single family (25-75 acre lot only)} (sf)	A _{Single family (>75 acre lot only)} (sf)	A _{Parks/Cemetery} (sf)	A _{Lawns} (sf)	A _{Ag/Green Belt} (sf)	A _{WATER} (sf)								
LTRB1	47			10,223													6,958,178		6,968,401	159.97	2.1%	0.01	0.05	0.15	0.49	
LTRB2	48																899,370		899,370	20.65	2.0%	0.01	0.05	0.15	0.49	
LTRB3	49			739,118													9,922,138	168,006	10,829,262	248.61	6.1%	0.04	0.09	0.18	0.51	
LTRB4	50			172,222													2,254,228	563,672	2,990,122	68.64	22.7%	0.16	0.22	0.30	0.58	
LTRB5	51			125,587	32,702									99,810			2,000,612	277,183	2,535,894	58.22	16.4%	0.11	0.17	0.25	0.55	
LTRB6	52			86,204										49,032			4,154,174		4,289,410	98.47	3.0%	0.02	0.06	0.15	0.50	
LTRB7	53			183,964	8,475									208,777			5,725,451	24,430	6,151,097	141.21	4.3%	0.02	0.07	0.16	0.50	
LTRB8	54			178,856										53,149			5,783,058		6,015,063	138.09	3.3%	0.02	0.06	0.16	0.50	
LTRB9	55			95,389										75,208			1,416,283	137,865	1,724,745	39.59	12.7%	0.08	0.14	0.23	0.54	
LTRB10	56			1,386,669										87,016			4,398,946		5,872,631	134.82	11.2%	0.07	0.13	0.22	0.53	
LTRB11	57			169,359										428,852			5,171,082		5,769,293	132.44	4.5%	0.03	0.07	0.16	0.50	
LTRB12	58			127,186										58,142			2,127,309	164,749	2,477,386	56.87	10.9%	0.07	0.12	0.21	0.53	
LTRB13	59			232,435										189,670			3,544,224	724,520	4,690,849	107.69	19.7%	0.13	0.20	0.28	0.56	
LTRB14	60			20,086										77,855			161,311		259,252	5.95	10.3%	0.07	0.12	0.21	0.53	
LTRB15	61			59,922										252,612			377,842		690,376	15.85	11.9%	0.08	0.13	0.22	0.53	
LTRB16	62			17,447										133,239			2,738,551	746,654	3,635,891	83.47	23.0%	0.16	0.22	0.30	0.58	
LTRB17	63			373,074										75,517			6,669,712		7,118,303	163.41	4.2%	0.02	0.07	0.16	0.50	
LTRB18	64			201,333													3,458,358		3,659,691	84.01	4.1%	0.02	0.07	0.16	0.50	
LTRB19	65			94,287										202,773			1,451,182		1,748,242	40.13	6.1%	0.04	0.09	0.18	0.51	
LTRB20	66			25,551													308,543		334,094	7.67	4.9%	0.03	0.08	0.17	0.50	
LTRB21	67	485,329		461,126	52,462												3,341,746	73,424	4,414,087	101.33	19.4%	0.13	0.19	0.28	0.56	
LTRB22	68	17,340		143,025										490,066			6,421,511	74,021	7,145,963	164.05	5.2%	0.03	0.08	0.17	0.51	
LTRB23	69	153,637		743,603	9,908									131,603			856,354		1,895,105	43.51	26.6%	0.19	0.25	0.33	0.59	
LTRB24	70	136,618		657,276													2,577,968		3,371,862	77.41	13.4%	0.09	0.14	0.23	0.54	
LTRB25	71			226,507													6,792,944		7,013,451	161.01	3.2%	0.02	0.06	0.16	0.50	
LTRB26	72			611,661										57,965			25,957,083	135,962	26,762,671	614.39	3.4%	0.02	0.06	0.16	0.50	
																			0	0.00						
TOTAL SITE		792,924	0	7,136,110	103,547	0	0	0	0	0	0	0	0	2,671,286	0	0	115,468,158	3,090,486	129,262,511	2967.46	7.5%	0.05	0.10	0.19	0.51	

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
LTRB1	47	100yr	0.249957	0.374431818	0.8501894	0.036758744	2.05574794	0.4	0.1	3	0.0018	0.5	0
LTRB2	48	100yr	0.0322605	0.197916667	0.4431818	0.016239316	2	0.4	0.1	3	0.0018	0.5	0
LTRB3	49	100yr	0.3884463	0.430113636	1.0433712	0.016413142	6.113952733	0.4	0.1	3	0.0018	0.5	0
LTRB4	50	100yr	0.1072559	0.482954545	0.7977273	0.022820513	22.66279971	0.4	0.1	3	0.0018	0.5	0
LTRB5	51	100yr	0.0909627	0.141666667	0.367803	0.026858908	16.4	0.4	0.1	3	0.0018	0.5	0
LTRB6	52	100yr	0.1538614	0.565151515	1.1831439	0.01952137	3	0.4	0.1	3	0.0018	0.5	0
LTRB7	53	100yr	0.2206402	0.42405303	1.0098485	0.018203301	4.257899363	0.4	0.1	3	0.0018	0.5	0
LTRB8	54	100yr	0.2157607	0.35625	0.8734848	0.02292281	3.288965718	0.4	0.1	3	0.0018	0.5	0
LTRB9	55	100yr	0.0618667	0.182575758	0.3941288	0.03666	12.7	0.4	0.1	3	0.0018	0.5	0
LTRB10	56	100yr	0.2106517	0.504166667	1.0429924	0.026141275	11.23942097	0.4	0.1	3	0.0018	0.5	0
LTRB11	57	100yr	0.2069449	0.183522727	0.6848485	0.018304757	4.453503055	0.4	0.1	3	0.0018	0.5	0
LTRB12	58	100yr	0.088864	0.091477273	0.4649621	0.013034623	10.89042967	0.4	0.1	3	0.0018	0.5	0
LTRB13	59	100yr	0.1682611	0.176325758	0.4229167	0.011209136	19.74722444	0.4	0.1	3	0.0018	0.5	0
LTRB14	60	100yr	0.0092994	0.078409091	0.1558712	0.00764277	10.34962893	0.4	0.1	3	0.0018	0.5	0
LTRB15	61	100yr	0.0247638	0.136742424	0.2117424	0.0182	11.88454407	0.4	0.1	3	0.0018	0.5	0
LTRB16	62	100yr	0.1304196	0.390909091	0.5064394	0.016335079	22.96690467	0.4	0.1	3	0.0018	0.5	0
LTRB17	63	100yr	0.255334	0.457954545	0.8162879	0.030438515	4.182559242	0.4	0.1	3	0.0018	0.5	0
LTRB18	64	100yr	0.1312734	0.237121212	0.4986742	0.036080517	4.090519118	0.4	0.1	3	0.0018	0.5	0
LTRB19	65	100yr	0.0627096	0.156060606	0.4441288	0.036289979	6.137196109	0.4	0.1	3	0.0018	0.5	0
LTRB20	66	100yr	0.011984	0.093181818	0.2130682	0.053742222	4.906182092	0.4	0.1	3	0.0018	0.5	0
LTRB21	67	100yr	0.1583336	0.260037879	0.588447	0.039662053	19.4208705	0.35	0.1	3	0.0018	0.5	0
LTRB22	68	100yr	0.2563262	0.437121212	0.7931818	0.025623209	5.247919979	0.4	0.1	3	0.0018	0.5	0
LTRB23	69	100yr	0.0679775	0.369128788	0.6202652	0.030629008	26.56544519	0.35	0.1	3	0.0018	0.5	0
LTRB24	70	100yr	0.1209489	0.495265152	0.8878788	0.017406143	13.37800183	0.4	0.1	3	0.0018	0.5	0
LTRB25	71	100yr	0.2515729	0.368181818	0.9598485	0.025970797	3.194742217	0.4	0.1	3	0.0018	0.5	0
LTRB26	72	100yr	0.9599787	1.220833333	2.275	0.020327173	3.405344183	0.4	0.1	3	0.0018	0.5	0

LITTLE THOMPSON RIVER BASIN

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in./hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
LTRB1		100YR	0.250	0.374	0.850	0.037	2.1	0.40	0.10	3.00	0.50	0.0018	0.00	0.04	0.02	1.86
LTRB2		100YR	0.032	0.198	0.443	0.016	2.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.04	0.02	1.81
LTRB3		100YR	0.388	0.430	1.043	0.016	6.1	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.58
LTRB4		100YR	0.107	0.483	0.798	0.023	22.7	0.40	0.10	3.00	0.50	0.0018	0.00	0.45	0.14	21.53
LTRB5		100YR	0.091	0.142	0.368	0.027	16.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.33	0.12	15.38
LTRB6		100YR	0.154	0.565	1.183	0.020	3.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.06	0.03	2.72
LTRB7		100YR	0.221	0.424	1.010	0.018	4.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.09	0.04	3.87
LTRB8		100YR	0.216	0.356	0.873	0.023	3.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.07	0.03	2.99
LTRB9		100YR	0.062	0.183	0.394	0.037	12.7	0.40	0.10	3.00	0.50	0.0018	0.00	0.25	0.11	11.78
LTRB10		100YR	0.211	0.504	1.043	0.026	11.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.22	0.10	10.37
LTRB11		100YR	0.207	0.184	0.685	0.018	4.5	0.40	0.10	3.00	0.50	0.0018	0.00	0.09	0.04	4.05
LTRB12		100YR	0.089	0.091	0.465	0.013	10.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.22	0.10	10.04
LTRB13		100YR	0.168	0.176	0.423	0.011	19.7	0.40	0.10	3.00	0.50	0.0018	0.00	0.39	0.13	18.66
LTRB14		100YR	0.009	0.078	0.156	0.008	10.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.21	0.10	9.52
LTRB15		100YR	0.025	0.137	0.212	0.018	11.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.24	0.11	11.00
LTRB16		100YR	0.130	0.391	0.506	0.016	23.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.46	0.14	21.83
LTRB17		100YR	0.255	0.458	0.816	0.030	4.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.08	0.04	3.80
LTRB18		100YR	0.131	0.237	0.499	0.036	4.1	0.40	0.10	3.00	0.50	0.0018	0.00	0.08	0.04	3.72
LTRB19		100YR	0.063	0.156	0.444	0.036	6.1	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.60
LTRB20		100YR	0.012	0.093	0.213	0.054	4.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.10	0.05	4.47
LTRB21		100YR	0.158	0.260	0.588	0.040	19.4	0.35	0.10	3.00	0.50	0.0018	0.00	0.39	0.13	18.34
LTRB22		100YR	0.256	0.437	0.793	0.026	5.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.10	0.05	4.78
LTRB23		100YR	0.068	0.369	0.620	0.031	26.6	0.35	0.10	3.00	0.50	0.0018	0.00	0.53	0.16	25.40
LTRB24		100YR	0.121	0.495	0.888	0.017	13.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.27	0.11	12.44
LTRB25		100YR	0.252	0.368	0.960	0.026	3.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.06	0.03	2.90
LTRB26		100YR	0.960	1.221	2.275	0.020	3.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.07	0.03	3.09

LITTLE THOMPSON RIVER BASIN

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results										Excess Precip.		Storm Hydrograph		
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
LTRB1		0.156	0.237	39.4	8.67	20.5	6.13	14.4	190	580,700	1.75	1,016,287	50.0	248	1,014,908	1.55
LTRB2		0.156	0.100	61.4	6.20	31.9	4.38	10.3	16	74,948	1.75	131,118	55.0	22	131,147	1.08
LTRB3		0.142	0.248	49.0	10.85	25.5	7.67	18.1	238	902,439	1.80	1,621,620	55.0	335	1,620,765	1.35
LTRB4		0.108	0.133	59.9	7.62	31.1	5.38	12.7	54	249,177	2.00	497,390	55.0	83	497,212	1.21
LTRB5		0.117	0.126	25.1	3.93	13.0	2.78	6.5	109	211,325	1.92	405,709	40.0	128	404,046	2.20
LTRB6		0.153	0.197	77.0	13.17	40.0	9.31	22.0	60	357,451	1.76	629,462	65.0	92	629,439	0.94
LTRB7		0.149	0.218	55.6	10.81	28.9	7.64	18.0	119	512,591	1.78	910,094	55.0	170	909,745	1.21
LTRB8		0.152	0.221	45.5	9.23	23.7	6.52	15.4	142	501,255	1.76	884,366	50.0	192	884,279	1.39
LTRB9		0.123	0.109	33.1	4.26	17.2	3.01	7.1	56	143,729	1.87	269,467	45.0	70	268,695	1.77
LTRB10		0.125	0.186	55.7	9.44	29.0	6.67	15.7	113	489,386	1.86	908,838	55.0	166	908,714	1.23
LTRB11		0.148	0.213	31.4	6.64	16.3	4.69	11.1	198	480,774	1.78	854,689	45.0	242	855,069	1.83
LTRB12		0.126	0.130	28.3	4.32	14.7	3.05	7.2	94	206,449	1.85	382,522	40.0	112	381,304	1.98
LTRB13		0.112	0.164	27.1	4.91	14.1	3.47	8.2	186	390,904	1.96	766,428	40.0	228	763,646	2.12
LTRB14		0.128	0.048	48.9	3.29	25.4	2.32	5.5	6	21,604	1.85	39,888	50.0	8	39,734	1.31
LTRB15		0.124	0.072	38.4	3.64	19.9	2.57	6.1	19	57,531	1.86	107,292	45.0	25	106,936	1.58
LTRB16		0.108	0.145	43.0	6.30	22.4	4.45	10.5	91	302,991	2.00	605,933	50.0	129	606,135	1.55
LTRB17		0.149	0.228	44.1	9.23	22.9	6.52	15.4	174	593,192	1.77	1,052,683	50.0	235	1,052,173	1.44
LTRB18		0.149	0.180	31.0	5.78	16.1	4.08	9.6	127	304,974	1.77	540,886	45.0	153	540,503	1.82
LTRB19		0.142	0.123	33.3	4.65	17.3	3.29	7.8	57	145,687	1.80	261,828	45.0	69	261,252	1.73
LTRB20		0.146	0.060	35.1	3.12	18.3	2.21	5.2	10	27,841	1.78	49,640	45.0	12	49,300	1.62
LTRB21		0.113	0.160	29.1	5.07	15.1	3.59	8.5	163	367,841	2.00	734,563	40.0	208	731,700	2.05
LTRB22		0.145	0.223	44.2	9.08	23.0	6.42	15.1	174	595,497	1.79	1,064,101	50.0	236	1,063,485	1.44
LTRB23		0.104	0.110	50.5	5.76	26.2	4.07	9.6	40	157,925	2.08	328,557	50.0	62	328,377	1.42
LTRB24		0.122	0.146	69.5	9.31	36.1	6.58	15.5	52	280,989	1.88	529,121	60.0	81	528,872	1.05
LTRB25		0.152	0.232	44.8	9.49	23.3	6.71	15.8	168	584,454	1.76	1,030,520	50.0	227	1,030,175	1.41
LTRB26		0.152	0.345	85.6	24.19	44.5	17.09	40.3	336	2,230,223	1.77	3,937,779	80.0	544	3,937,859	0.89

LITTLE THOMPSON RIVER BASIN

Printouts for Storm Hydrographs

Flow in cfs																											
Time in minutes	UTR#1	UTR#2	UTR#3	UTR#4	UTR#5	UTR#6	UTR#7	UTR#8	UTR#9	UTR#10	UTR#11	UTR#12	UTR#13	UTR#14	UTR#15	UTR#16	UTR#17	UTR#18	UTR#19	UTR#20	UTR#21	UTR#22	UTR#23	UTR#24	UTR#25	UTR#26	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.01	0.03	0.06	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.02	0.12	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.10	0.00	0.04	0.01	0.00	0.00	
15	0.01	0.00	0.08	0.38	0.72	0.00	0.02	0.21	0.15	0.06	0.06	0.26	1.55	0.02	0.07	0.83	0.03	0.04	0.05	0.01	1.28	0.05	0.54	0.10	0.02	0.01	
20	0.20	0.02	0.64	1.71	3.35	0.05	0.21	0.23	1.09	0.88	0.67	1.36	6.78	0.08	0.36	3.49	0.37	0.45	0.37	0.06	6.33	0.49	2.18	0.57	0.25	0.13	
25	0.50	1.20	10.84	33.30	20.66	1.69	4.91	6.98	5.12	8.08	15.81	68.66	345.7	4.95	3.31	15.64	8.97	11.56	6.76	1.39	34.65	0.74	3.28	4.20	7.95	3.82	
30	69.87	8.29	69.99	29.40	85.87	12.74	34.08	48.17	41.77	42.80	100.14	68.66	335.51	4.59	15.33	58.60	60.91	72.29	7.93	122.84	63.24	30.10	20.64	56.12	29.01		
35	155.58	15.38	167.49	54.65	120.90	33.59	82.73	111.98	62.03	62.33	190.34	102.26	206.49	6.50	21.89	99.77	137.81	126.97	59.63	11.20	186.40	140.92	47.71	44.11	129.57	83.30	
40	214.50	20.92	252.25	69.68	127.89	54.93	125.07	158.77	69.41	131.56	233.10	112.37	228.43	7.34	24.45	119.92	194.95	149.93	68.05	12.32	207.56	197.43	56.32	61.62	186.06	159.85	
45	241.88	20.99	303.38	77.68	123.76	71.15	150.77	182.76	70.07	152.23	242.41	110.59	232.87	7.74	25.10	128.26	223.92	153.06	69.26	12.45	204.93	225.81	60.38	71.28	215.45	245.63	
50	247.79	22.04	328.79	81.90	116.07	81.05	164.63	192.40	67.95	162.94	234.36	105.56	212.53	7.79	24.58	129.20	234.72	147.74	67.22	12.13	196.34	236.18	61.61	76.94	227.24	327.43	
55	239.25	22.29	334.74	83.11	106.68	87.00	170.25	190.96	64.39	166.39	221.21	98.08	196.57	7.58	23.63	125.31	231.58	139.06	63.75	11.55	183.48	232.79	60.59	79.92	225.47	399.24	
60	229.22	22.05	326.23	82.29	98.95	90.45	169.34	184.35	60.74	164.35	205.34	91.75	183.28	7.42	22.68	121.20	223.28	129.60	60.10	10.98	171.36	224.53	59.09	80.92	217.44	457.40	
65	218.88	21.69	316.31	80.83	91.76	92.16	164.74	178.34	57.95	160.38	194.90	86.58	171.98	7.27	21.74	117.26	215.47	122.78	57.23	10.51	161.71	216.78	57.84	80.59	210.03	500.21	
70	204.39	20.92	303.83	78.41	79.28	91.81	159.51	169.64	52.99	155.25	179.42	77.21	153.16	6.80	20.20	110.30	204.20	112.34	52.40	9.59	146.10	205.45	55.10	78.44	199.54	527.88	
75	188.47	19.86	285.75	74.82	67.00	89.16	151.92	157.43	47.78	147.58	160.14	67.15	132.29	6.34	18.45	102.31	188.80	99.84	47.20	8.70	128.42	189.99	51.66	75.54	184.98	542.35	
80	171.56	18.65	263.80	70.57	56.58	85.25	142.22	144.66	41.95	138.06	139.17	56.48	111.17	5.84	16.64	94.29	173.51	86.25	41.44	7.71	109.55	174.69	47.94	72.06	169.94	543.85	
85	153.92	17.35	242.52	65.92	48.16	81.16	131.49	132.33	36.30	127.80	118.11	47.95	95.08	5.39	14.89	86.15	158.36	72.99	35.81	6.76	93.18	159.50	44.49	68.21	155.29	532.56	
90	136.77	16.08	222.57	61.37	41.03	76.98	121.17	120.41	31.11	118.22	99.95	41.30	82.04	4.98	13.25	78.44	143.53	62.01	30.58	5.85	80.66	144.66	41.33	64.22	141.01	510.25	
95	120.72	14.99	203.79	57.48	34.82	72.74	112.06	109.27	27.14	109.75	86.37	35.85	71.13	4.59	11.65	71.17	129.67	53.72	26.49	5.04	70.62	130.79	38.37	60.24	127.65	483.85	
100	105.21	14.03	186.50	54.00	29.17	68.50	103.81	98.81	24.08	102.04	75.60	31.05	61.34	4.22	10.18	64.15	116.55	47.02	23.35	4.44	61.89	117.66	35.57	56.38	115.09	459.66	
105	91.04	13.14	170.08	50.80	23.90	64.30	96.27	88.74	21.42	94.91	66.19	26.71	52.41	3.85	9.07	57.43	103.91	41.09	20.69	3.96	54.01	104.99	32.88	53.08	102.99	435.99	
110	80.77	12.30	154.31	47.75	18.98	60.23	89.09	79.02	19.06	88.10	57.74	22.66	44.01	3.50	8.18	51.25	91.79	35.76	18.32	3.54	46.74	92.84	30.25	50.23	91.32	412.30	
115	72.44	11.50	139.03	44.82	14.45	56.80	82.21	69.85	16.89	81.53	49.95	18.87	36.16	3.16	7.42	46.49	80.97	30.80	16.16	3.16	39.89	81.97	27.69	47.57	80.43	388.70	
120	65.16	10.71	124.32	41.95	10.41	53.83	75.51	62.36	14.86	75.13	42.64	15.34	28.88	2.83	6.72	42.69	72.88	26.16	14.15	2.80	33.47	73.85	25.22	45.05	72.08	365.27	
125	58.54	9.94	110.78	38.98	7.56	51.07	68.96	56.51	12.80	68.79	35.71	11.72	21.29	2.56	6.03	39.02	60.19	21.75	12.19	2.46	26.73	67.12	22.76	42.56	65.38	342.58	
130	52.40	9.19	100.51	35.93	5.52	48.44	62.49	51.47	10.86	62.41	29.07	8.30	15.14	2.35	5.38	35.46	49.19	17.49	10.36	2.14	20.00	61.06	20.77	40.04	59.50	323.11	
135	46.63	8.44	91.39	33.37	3.97	45.89	56.21	44.93	9.36	55.25	25.84	7.38	13.18	2.22	4.74	34.24	44.78	16.34	9.11	1.91	28.75	51.60	18.77	37.70	50.99	306.66	
140	41.25	7.70	84.30	29.92	2.83	43.21	50.96	42.78	7.12	51.18	16.22	4.04	8.09	1.99	4.20	29.02	40.63	9.32	8.84	1.55	10.12	50.38	17.58	35.12	49.28	291.62	
145	36.24	6.98	77.36	27.24	1.97	40.99	46.85	38.91	5.32	47.13	10.73	2.86	5.88	1.83	3.65	26.12	44.88	6.22	5.12	1.26	7.44	45.56	16.20	32.71	44.70	277.48	
150	31.32	6.41	70.95	25.15	1.32	38.64	43.34	35.31	3.66	43.63	7.34	1.99	4.22	1.68	3.12	23.44	40.45	4.26	3.50	0.97	5.44	41.09	14.93	30.11	40.43	263.90	
155	26.47	5.95	64.96	23.39	0.88	36.31	40.20	31.95	2.57	40.49	5.08	1.35	2.95	1.55	2.58	20.85	36.31	2.92	2.38	0.69	3.93	36.90	13.74	27.93	36.47	250.73	
160	21.64	5.56	59.38	21.82	0.64	34.00	37.34	28.73	1.84	37.62	3.42	0.87	2.03	1.42	2.06	18.33	32.24	1.95	1.65	0.46	2.78	32.79	12.63	25.61	32.61	237.94	
165	16.81	5.20	54.16	20.39	0.48	31.69	34.67	25.56	1.31	34.94	2.21	0.54	1.44	1.30	1.53	15.84	28.23	1.24	1.14	0.31	1.91	28.75	11.60	23.58	28.82	225.52	
170	12.05	4.86	49.05	18.98	0.36	29.39	31.82	23.94	0.91	32.34	1.52	0.40	1.19	1.12	1.37	12.78	24.24	0.76	0.91	0.17	1.91	28.75	10.58	21.70	25.30	213.30	
175	7.88	4.58	44.01	17.81	0.30	27.08	29.87	19.29	0.62	30.12	0.73	0.26	0.85	1.05	0.73	10.95	20.24	0.38	0.49	0.15	0.99	20.70	9.61	20.66	21.27	201.16	
180	5.32	4.30	38.99	16.65	0.22	24.94	27.65	16.15	0.40	27.88	0.38	0.20	0.67	0.94	0.52	8.55	16.26	0.20	0.29	0.09	0.76	16.68	8.64	19.46	17.50	189.05	
185	3.63	4.03	33.98	15.56	0.16	23.33	25.47	13.02	0.26	25.69	0.24	0.16	0.52	0.82	0.37	6.28	12.28	0.13	0.16	0.06	0.61	12.68	7.68	18.37	13.73	176.96	
190	2.40	3.78	28.98	14.50	0.11	22.00	23.30	9.90	0.19	23.52	0.16	0.12	0.38	0.70	0.26	4.44	8.49	0.09	0.10	0.03	0.48	8.84	6.72	17.36	9.98	164.89	
195	1.51	3.53	23.98	13.45	0.06	20.83	21.14	6.89	0.14	21.36	0.13	0.09	0.26	0.58	0.17	3.25	5.67	0.07	0.07	0.02	0.36	5.92	5.77	16.42	6.53	152.83	
200	0.88	3.28	19.00	12.41	0.03	19.77	18.98	4.57	0.11	19.20	0.10	0.06	0.17	0.46	0.11	2.42	3.89	0.05	0.05	0.01	0.26	4.08	4.82	15.53	4.43	144.27	
205	0.44	3.04	14.94	11.31	0.01	18.80	16.84	3.12	0.09	17.05	0.07	0.04	0.10	0.34	0.07	1.79	2.99	0.04	0.04	0.01	0.17	3.91	3.89	14.70	3.05	133.30	
210	0.19	2.79	9.42	10.35	0.00	17.88	14.67	1.73	0.07	14.93	0.05	0.02	0.06	0.23	0.05	1.32	1.77	0.03	0.03	0.01	0.10	1.89	2.98	13.88	2.04	125.10	
215	0.10	2.54	6.43	9.32	0.00	17.02	12.52	1.41	0.05	12.77	0.03	0.01	0.01	0.16	0.04	0.96	1.12	0.02	0.02	0.00	0.05	1.21	2.16	13.07	1.32	118.80	
220	0.06	2.29	4.48	8.31	0.00	16.23	10.37	0.88	0.03	10.63	0.02	0.00	0.00	0.12	0.03	0.69	0.65	0.01	0.02	0.00	0.02	0.73	1.57	12.26	0.79	113.13	
225	0.05	2.05	3.08	7.30	0.00	15.44	8.22	0.51	0.02	8.51	0.01	0.00	0.00	0.08	0.02	0.51	0.34	0.00									

LTRB ROUTING CALCULATIONS

LITTLE THOMPSON RIVER BASIN

END Basin LTRB24

End Node	Upstream Nodes							
LTRB24	LTRB22	LTRB21						
LTRB24	LTRB22	LTRB20						
LTRB24	LTRB22	LTRB19	LTRB18					
LTRB24	LTRB22	LTRB19	LTRB17	LTRB16	LTRB14	LTRB13	LTRB12	LTRB11
LTRB24	LTRB22	LTRB10						
LTRB24	LTRB22	LTRB6	LTRB9	LTRB5	LTRB8	LTRB7		
LTRB24	LTRB22	LTRB6	LTRB9	LTRB5	LTRB4	LTRB3	LTRB2	
LTRB24	LTRB22	LTRB6	LTRB9	LTRB5	LTRB4	LTRB3	LTRB1	

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB24	60.0	0
LTRB22	50.0	60
LTRB21	40.0	110
LTRB20	45.0	110
LTRB19	45.0	110
LTRB18	45.0	160
LTRB17	50.0	155
LTRB16	50.0	205
LTRB14	50.0	255
LTRB13	40.0	305
LTRB12	40.0	345
LTRB11	45.0	385
LTRB10	55.0	110
LTRB6	65.0	110
LTRB9	45.0	175
LTRB5	40.0	220
LTRB8	50.0	260
LTRB7	55.0	310
LTRB4	55.0	260
LTRB3	55.0	315
LTRB2	55.0	370
LTRB1	50.0	370

END Basin LTRB3

End Node	Upstream Nodes
LTRB3	LTRB1
LTRB3	LTRB2

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB3	55	0
LTRB2	55	55
LTRB1	50	55

END Basin LTRB4

End Node	Upstream Nodes	
LTRB4	LTRB3	LTRB1
LTRB4	LTRB3	LTRB2

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB4	55.0	0
LTRB3	55.0	55
LTRB2	55.0	110
LTRB1	50.0	110

LITTLE THOMPSON RIVER BASIN

END Basin LTRB5

End Node	Upstream Nodes		
LTRB5	LTRB8	LTRB7	
LTRB5	LTRB4	LTRB3	LTRB1
LTRB5	LTRB4	LTRB3	LTRB2

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB5	40.0	0
LTRB8	50.0	40
LTRB7	55.0	90
LTRB4	55.0	40
LTRB3	55.0	95
LTRB2	55.0	150
LTRB1	50.0	150

END Basin LTRB6

End Node	Upstream Nodes				
LTRB6	LTRB9	LTRB5	LTRB8	LTRB7	
LTRB6	LTRB9	LTRB5	LTRB4	LTRB3	LTRB2
LTRB6	LTRB9	LTRB5	LTRB4	LTRB3	LTRB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB6	65.0	0
LTRB9	45.0	65
LTRB5	40.0	110
LTRB8	50.0	150
LTRB7	55.0	200
LTRB4	55.0	150
LTRB3	55.0	205
LTRB2	55.0	260
LTRB1	50.0	260

END Basin LTRB8

End Node	Upstream Nodes
LTRB8	LTRB7

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB8	50.0	0
LTRB7	55.0	50

END Basin LTRB9

End Node	Upstream Nodes			
LTRB9	LTRB5	LTRB8	LTRB7	
LTRB9	LTRB5	LTRB4	LTRB3	LTRB2
LTRB9	LTRB5	LTRB4	LTRB3	LTRB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB9	45.0	0
LTRB5	40.0	45
LTRB8	50.0	85
LTRB7	55.0	135
LTRB4	55.0	85
LTRB3	55.0	140
LTRB2	55.0	195
LTRB1	50.0	195

LITTLE THOMPSON RIVER BASIN

END Basin LTRB12

End Node	Upstream Nodes
LTRB12	LTRB11

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB12	40.0	0
LTRB11	45.0	40

END Basin LTRB13

End Node	Upstream Nodes	
LTRB13	LTRB12	LTRB11

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB13	40.0	0
LTRB12	40.0	40
LTRB11	45.0	80

END Basin LTRB14

End Node	Upstream Nodes		
LTRB14	LTRB13	LTRB12	LTRB11

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB14	50.0	0
LTRB13	40.0	50
LTRB12	40.0	90
LTRB11	45.0	130

END Basin LTRB16

End Node	Upstream Nodes			
LTRB16	LTRB14	LTRB13	LTRB12	LTRB11

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB16	50.0	0
LTRB14	50.0	50
LTRB13	40.0	100
LTRB12	40.0	140
LTRB11	45.0	180

END Basin LTRB17

End Node	Upstream Nodes				
LTRB17	LTRB16	LTRB14	LTRB13	LTRB12	LTRB11

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB17	50.0	0
LTRB16	50.0	50
LTRB14	50.0	100
LTRB13	40.0	150
LTRB12	40.0	190
LTRB11	45.0	230

END Basin LTRB19

End Node	Upstream Nodes					
LTRB19	LTRB18					
LTRB19	LTRB17	LTRB16	LTRB14	LTRB13	LTRB12	LTRB11

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB19	45.0	0
LTRB18	45.0	45
LTRB17	50.0	45
LTRB16	50.0	95
LTRB14	50.0	145
LTRB13	40.0	195
LTRB12	40.0	235
LTRB11	45.0	275

LITTLE THOMPSON RIVER BASIN

END Basin LTRB22

End Node	Upstream Nodes					
LTRB22	LTRB21					
LTRB22	LTRB20					
LTRB22	LTRB19	LTRB18				
LTRB22	LTRB19	LTRB17	LTRB16	LTRB14	LTRB13	LTRB12
LTRB22	LTRB10					
LTRB22	LTRB6	LTRB9	LTRB5	LTRB8	LTRB7	
LTRB22	LTRB6	LTRB9	LTRB5	LTRB4	LTRB3	LTRB2
LTRB22	LTRB6	LTRB9	LTRB5	LTRB4	LTRB3	LTRB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB22	50.0	0
LTRB21	40.0	50
LTRB20	45.0	50
LTRB19	45.0	50
LTRB18	45.0	95
LTRB17	50.0	95
LTRB16	50.0	145
LTRB14	50.0	195
LTRB13	40.0	245
LTRB12	40.0	285
LTRB11	45.0	325
LTRB10	55.0	50
LTRB6	65.0	50
LTRB9	45.0	115
LTRB5	40.0	160
LTRB8	50.0	200
LTRB7	55.0	250
LTRB4	55.0	200
LTRB3	55.0	255
LTRB2	55.0	310
LTRB1	50.0	310

END Basin LTRB26

End Node	Upstream Nodes
LTRB26	LTRB25

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTRB26	80.0	0
LTRB25	50.0	80

LITTLE THOMPSON RIVER BASIN

time in minutes	LTRB3	LTRB2	LTRB1	Total to LTRB3	max
0	0.00			0.00	449
5	0.00			0.00	
10	0.01			0.01	
15	0.08			0.08	
20	0.64			0.64	
25	10.84			10.84	
30	69.99			69.99	
35	167.49			167.49	
40	252.25			252.25	
45	303.38			303.38	
50	328.79			328.79	
55	334.74	0.00	0.00	334.74	
60	326.23	0.00	0.00	326.23	
65	316.31	0.00	0.00	316.31	
70	303.83	0.00	0.01	303.84	
75	285.75	0.02	0.20	285.97	
80	263.80	1.20	9.50	274.50	
85	242.52	8.29	69.87	320.68	
90	222.57	15.38	155.58	393.53	
95	203.79	19.02	214.50	437.32	
100	186.50	20.99	241.88	449.37	
105	170.08	22.04	247.79	439.91	
110	154.31	22.29	239.25	415.85	
115	139.03	22.05	229.22	390.30	
120	124.32	21.69	218.88	364.89	
125	110.78	20.92	204.39	336.09	
130	100.51	19.86	188.47	308.84	
135	91.94	18.65	171.56	282.15	
140	84.30	17.35	153.92	255.58	
145	77.36	16.08	136.77	230.21	
150	70.95	14.99	120.72	206.66	
155	64.96	14.03	105.21	184.19	
160	59.38	13.14	91.04	163.56	
165	54.16	12.30	80.77	147.24	
170	49.05	11.50	72.44	132.98	
175	44.01	10.71	65.16	119.89	
180	38.99	9.94	58.54	107.48	
185	33.98	9.19	52.40	95.58	
190	28.98	8.44	46.63	84.06	
195	23.98	7.70	41.25	72.93	
200	19.00	6.98	36.24	62.22	
205	14.04	6.41	31.32	51.76	
210	9.42	5.95	26.47	41.84	
215	6.43	5.56	21.64	33.62	
220	4.48	5.20	16.81	26.50	
225	3.08	4.88	12.05	20.01	
230	2.06	4.58	7.88	14.51	
235	1.31	4.30	5.32	10.93	
240	0.77	4.03	3.63	8.43	
245	0.42	3.78	2.40	6.60	
250	0.28	3.53	1.51	5.32	
255	0.19	3.28	0.88	4.35	
260	0.15	3.04	0.44	3.62	
265	0.12	2.79	0.19	3.09	
270	0.09	2.54	0.10	2.73	
275	0.06	2.29	0.06	2.41	
280	0.04	2.05	0.05	2.14	
285	0.03	1.80	0.04	1.86	
290	0.01	1.55	0.03	1.59	
295	0.00	1.31	0.02	1.33	
300	0.00	1.06	0.01	1.07	
305	0.00	0.81	0.01	0.82	
310	0.00	0.57	0.00	0.58	
315	0.00	0.38	0.00	0.38	
320	0.00	0.25	0.00	0.25	
325	0.00	0.17	0.00	0.17	
330	0.00	0.11	0.00	0.11	
335	0.00	0.07	0.00	0.07	
340	0.00	0.04	0.00	0.04	
345	0.00	0.02	0.00	0.02	
350	0.00	0.01	0.00	0.01	
355	0.00	0.00	0.00	0.00	
360	0.00	0.00	0.00	0.00	
365	0.00	0.00	0.00	0.00	
370	0.00	0.00	0.00	0.00	
375	0.00	0.00	0.00	0.00	
380	0.00	0.00	0.00	0.00	
385	0.00	0.00	0.00	0.00	
390	0.00	0.00	0.00	0.00	
395	0.00	0.00	0.00	0.00	
400	0.00	0.00	0.00	0.00	
405	0.00	0.00	0.00	0.00	
410	0.00	0.00	0.00	0.00	
415	0.00	0.00	0.00	0.00	
420	0.00	0.00	0.00	0.00	
425	0.00	0.00	0.00	0.00	
430	0.00	0.00	0.00	0.00	
435	0.00	0.00	0.00	0.00	
440	0.00	0.00	0.00	0.00	
445		0.00	0.00	0.00	
450		0.00	0.00	0.00	
455		0.00	0.00	0.00	
460		0.00	0.00	0.00	
465		0.00	0.00	0.00	
470		0.00	0.00	0.00	
475		0.00	0.00	0.00	
480		0.00	0.00	0.00	
485		0.00	0.00	0.00	
490		0.00	0.00	0.00	
495		0.00	0.00	0.00	

LITTLE THOMPSON RIVER BASIN

Time in minutes	LTRB4	LTRB3	LTRB2	LTRB1	Total to LTRB4	mark
0	0.00				0.00	473
5	0.00				0.00	
10	0.03				0.03	
15	0.38				0.38	
20	1.71				1.71	
25	7.70				7.70	
30	29.40				29.40	
35	54.65				54.65	
40	69.68				69.68	
45	77.68				77.68	
50	81.90				81.90	
55	83.11	0.00			83.11	
60	82.29	0.00			82.29	
65	80.83	0.01			80.83	
70	78.41	0.08			78.49	
75	74.82	0.64			75.46	
80	70.57	10.84			81.41	
85	65.92	69.99			135.91	
90	61.37	167.49			228.86	
95	57.48	252.25			309.73	
100	54.00	303.38			357.38	
105	50.80	328.79			379.59	
110	47.75	334.74	0.00	0.00	382.49	
115	44.82	326.23	0.00	0.00	371.05	
120	41.95	316.31	0.00	0.00	358.26	
125	38.98	303.83	0.00	0.01	342.83	
130	35.93	285.75	0.02	0.20	321.90	
135	32.89	263.80	1.20	9.50	307.38	
140	29.92	242.52	8.29	69.87	350.60	
145	27.24	222.57	15.38	155.58	420.77	
150	25.15	203.79	19.02	214.50	462.47	
155	23.39	186.50	20.99	241.88	472.76	
160	21.82	170.08	22.04	247.79	461.73	
165	20.39	154.31	22.29	239.25	436.24	
170	19.06	139.03	22.05	229.22	409.36	
175	17.81	124.32	21.69	218.88	382.70	
180	16.65	110.78	20.92	204.39	352.74	
185	15.56	100.51	19.86	188.47	324.40	
190	14.50	91.94	18.65	171.56	296.64	
195	13.45	84.30	17.35	153.92	269.03	
200	12.41	77.36	16.08	136.77	242.62	
205	11.37	70.95	14.99	120.72	218.04	
210	10.35	64.96	14.03	105.21	194.54	
215	9.32	59.38	13.14	91.04	172.89	
220	8.31	54.16	12.30	80.77	155.55	
225	7.30	49.05	11.50	72.44	140.28	
230	6.30	44.01	10.71	65.16	126.18	
235	5.30	38.99	9.94	58.54	112.78	
240	4.31	33.98	9.19	52.40	99.89	
245	3.34	28.98	8.44	46.63	87.40	
250	2.43	23.98	7.70	41.25	75.36	
255	1.73	19.00	6.98	36.24	63.95	
260	1.28	14.04	6.41	31.32	53.04	
265	0.96	9.42	5.95	26.47	42.80	
270	0.71	6.43	5.56	21.64	34.33	
275	0.52	4.48	5.20	16.81	27.02	
280	0.38	3.08	4.88	12.05	20.39	
285	0.27	2.06	4.58	7.88	14.78	
290	0.20	1.31	4.30	5.32	11.13	
295	0.16	0.77	4.03	3.63	8.59	
300	0.12	0.42	3.78	2.40	6.73	
305	0.10	0.28	3.53	1.51	5.42	
310	0.08	0.19	3.28	0.88	4.43	
315	0.06	0.15	3.04	0.44	3.68	
320	0.04	0.12	2.79	0.19	3.13	
325	0.02	0.09	2.54	0.10	2.76	
330	0.01	0.06	2.29	0.06	2.43	
335	0.01	0.04	2.05	0.05	2.14	
340	0.00	0.03	1.80	0.04	1.86	
345	0.00	0.01	1.55	0.03	1.59	
350	0.00	0.00	1.31	0.02	1.33	
355	0.00	0.00	1.06	0.01	1.07	
360	0.00	0.00	0.81	0.01	0.82	
365	0.00	0.00	0.57	0.00	0.58	
370	0.00	0.00	0.38	0.00	0.38	
375	0.00	0.00	0.25	0.00	0.25	
380	0.00	0.00	0.17	0.00	0.17	
385	0.00	0.00	0.11	0.00	0.11	
390	0.00	0.00	0.07	0.00	0.07	
395	0.00	0.00	0.04	0.00	0.04	
400	0.00	0.00	0.02	0.00	0.02	
405	0.00	0.00	0.01	0.00	0.01	
410	0.00	0.00	0.00	0.00	0.00	
415	0.00	0.00	0.00	0.00	0.00	
420	0.00	0.00	0.00	0.00	0.00	
425	0.00	0.00	0.00	0.00	0.00	
430	0.00	0.00	0.00	0.00	0.00	
435	0.00	0.00	0.00	0.00	0.00	
440	0.00	0.00	0.00	0.00	0.00	
445	0.00	0.00	0.00	0.00	0.00	
450	0.00	0.00	0.00	0.00	0.00	
455	0.00	0.00	0.00	0.00	0.00	
460	0.00	0.00	0.00	0.00	0.00	
465	0.00	0.00	0.00	0.00	0.00	
470	0.00	0.00	0.00	0.00	0.00	
475	0.00	0.00	0.00	0.00	0.00	
480	0.00	0.00	0.00	0.00	0.00	
485	0.00	0.00	0.00	0.00	0.00	
490	0.00	0.00	0.00	0.00	0.00	
495	0.00	0.00	0.00	0.00	0.00	
500	0.00	0.00	0.00	0.00	0.00	
505	0.00	0.00	0.00	0.00	0.00	
510	0.00	0.00	0.00	0.00	0.00	
515	0.00	0.00	0.00	0.00	0.00	
520	0.00	0.00	0.00	0.00	0.00	
525	0.00	0.00	0.00	0.00	0.00	
530	0.00	0.00	0.00	0.00	0.00	
535	0.00	0.00	0.00	0.00	0.00	
540	0.00	0.00	0.00	0.00	0.00	
545	0.00	0.00	0.00	0.00	0.00	
550	0.00	0.00	0.00	0.00	0.00	
555	0.00	0.00	0.00	0.00	0.00	

LITTLE THOMPSON RIVER BASIN

time in minutes	LTRB8	LTRB7	Total to LTRB8	max
0	0.00		0.00	263
5	0.00		0.00	
10	0.00		0.00	
15	0.02		0.02	
20	0.23		0.23	
25	6.98		6.98	
30	49.17		49.17	
35	111.98		111.98	
40	158.77		158.77	
45	182.76		182.76	
50	192.40	0.00	192.40	
55	190.96	0.00	190.96	
60	184.35	0.00	184.35	
65	178.34	0.02	178.36	
70	169.64	0.21	169.85	
75	157.43	4.91	162.34	
80	144.66	34.08	178.74	
85	132.33	82.73	215.06	
90	120.41	125.07	245.48	
95	109.27	150.77	260.04	
100	98.81	164.63	263.44	
105	88.74	170.25	258.99	
110	79.02	169.34	248.36	
115	69.85	164.74	234.59	
120	62.36	159.51	221.87	
125	56.51	151.92	208.43	
130	51.47	142.22	193.68	
135	46.93	131.49	178.42	
140	42.78	121.17	163.95	
145	38.91	112.06	150.98	
150	35.31	103.81	139.12	
155	31.95	96.27	128.22	
160	28.73	89.09	117.82	
165	25.56	82.21	107.77	
170	22.42	75.51	97.93	
175	19.29	68.96	88.25	
180	16.15	62.49	78.65	
185	13.02	56.21	69.23	
190	9.90	50.96	60.86	
195	6.89	46.85	53.74	
200	4.57	43.34	47.91	
205	3.12	40.20	43.32	
210	2.13	37.34	39.46	
215	1.41	34.67	36.08	
220	0.88	32.18	33.07	
225	0.51	29.87	30.38	
230	0.26	27.65	27.91	
235	0.13	25.47	25.60	
240	0.08	23.30	23.38	
245	0.06	21.14	21.20	
250	0.04	18.98	19.02	
255	0.03	16.82	16.86	
260	0.02	14.67	14.70	
265	0.02	12.52	12.54	
270	0.01	10.37	10.38	
275	0.01	8.22	8.23	
280	0.00	6.09	6.09	
285	0.00	4.08	4.08	
290	0.00	2.76	2.76	
295	0.00	1.91	1.91	
300	0.00	1.30	1.30	
305	0.00	0.85	0.85	
310	0.00	0.53	0.53	
315	0.00	0.30	0.30	
320	0.00	0.15	0.15	
325	0.00	0.09	0.09	
330	0.00	0.06	0.06	
335	0.00	0.05	0.05	
340	0.00	0.04	0.04	
345	0.00	0.03	0.03	
350	0.00	0.02	0.02	
355	0.00	0.01	0.01	
360	0.00	0.01	0.01	
365	0.00	0.00	0.00	
370	0.00	0.00	0.00	
375	0.00	0.00	0.00	
380	0.00	0.00	0.00	
385	0.00	0.00	0.00	
390	0.00	0.00	0.00	
395	0.00	0.00	0.00	
400	0.00	0.00	0.00	
405	0.00	0.00	0.00	
410	0.00	0.00	0.00	
415	0.00	0.00	0.00	
420	0.00	0.00	0.00	
425	0.00	0.00	0.00	
430	0.00	0.00	0.00	
435	0.00	0.00	0.00	
440	0.00	0.00	0.00	
445		0.00	0.00	
450		0.00	0.00	
455		0.00	0.00	
460		0.00	0.00	
465		0.00	0.00	
470		0.00	0.00	
475		0.00	0.00	
480		0.00	0.00	
485		0.00	0.00	
490		0.00	0.00	

LITTLE THOMPSON RIVER BASIN

flow in cfs

Time in minutes	LTR812	LTR811	Total to LTR812	max
0	0.00		0.00	290
5	0.00		0.00	
10	0.02		0.02	
15	0.26		0.26	
20	1.36		1.36	
25	14.26		14.26	
30	68.66		68.66	
35	102.26		102.26	
40	112.37	0.00	112.37	
45	110.59	0.00	110.59	
50	105.56	0.00	105.56	
55	98.08	0.06	98.14	
60	91.75	0.67	92.42	
65	86.58	15.81	102.39	
70	77.21	100.14	177.34	
75	67.15	190.34	257.49	
80	56.48	233.10	289.57	
85	47.95	242.41	290.36	
90	41.30	234.36	275.66	
95	35.85	221.21	257.07	
100	31.05	206.34	237.39	
105	26.71	194.90	221.61	
110	22.66	179.42	202.08	
115	18.87	160.14	179.01	
120	15.34	139.17	154.51	
125	11.72	118.11	129.84	
130	8.30	99.95	108.24	
135	5.71	86.37	92.08	
140	4.04	75.60	79.64	
145	2.86	66.19	69.05	
150	1.99	57.74	59.74	
155	1.35	49.95	51.30	
160	0.87	42.64	43.52	
165	0.54	35.71	36.25	
170	0.36	29.07	29.43	
175	0.26	22.54	22.80	
180	0.20	16.22	16.42	
185	0.16	10.73	10.89	
190	0.12	7.34	7.46	
195	0.09	5.08	5.16	
200	0.06	3.42	3.48	
205	0.04	2.21	2.25	
210	0.02	1.34	1.36	
215	0.01	0.73	0.74	
220	0.00	0.38	0.38	
225	0.00	0.24	0.24	
230	0.00	0.16	0.16	
235	0.00	0.13	0.13	
240	0.00	0.10	0.10	
245	0.00	0.07	0.07	
250	0.00	0.05	0.05	
255	0.00	0.03	0.03	
260	0.00	0.02	0.02	
265	0.00	0.01	0.01	
270	0.00	0.00	0.00	
275	0.00	0.00	0.00	
280	0.00	0.00	0.00	
285	0.00	0.00	0.00	
290	0.00	0.00	0.00	
295	0.00	0.00	0.00	
300	0.00	0.00	0.00	
305	0.00	0.00	0.00	
310	0.00	0.00	0.00	
315	0.00	0.00	0.00	
320	0.00	0.00	0.00	
325	0.00	0.00	0.00	
330	0.00	0.00	0.00	
335	0.00	0.00	0.00	
340	0.00	0.00	0.00	
345	0.00	0.00	0.00	
350	0.00	0.00	0.00	
355	0.00	0.00	0.00	
360	0.00	0.00	0.00	
365	0.00	0.00	0.00	
370	0.00	0.00	0.00	
375	0.00	0.00	0.00	
380	0.00	0.00	0.00	
385	0.00	0.00	0.00	
390	0.00	0.00	0.00	
395	0.00	0.00	0.00	
400	0.00	0.00	0.00	
405	0.00	0.00	0.00	
410	0.00	0.00	0.00	
415	0.00	0.00	0.00	
420	0.00	0.00	0.00	
425	0.00	0.00	0.00	
430		0.00	0.00	
435		0.00	0.00	
440		0.00	0.00	
445		0.00	0.00	
450		0.00	0.00	
455		0.00	0.00	
460		0.00	0.00	
465		0.00	0.00	
470		0.00	0.00	
475		0.00	0.00	
480		0.00	0.00	

LITTLE THOMPSON RIVER BASIN

time in minutes	flow in cfs			Total to UTRB13	max
	UTRB13	UTRB12	UTRB11		
0	0.00			0.00	318
5	0.00			0.00	
10	0.12			0.12	
15	1.55			1.55	
20	6.78			6.78	
25	34.57			34.57	
30	135.51			135.51	
35	206.49			206.49	
40	228.43	0.00		228.43	
45	223.87	0.00		223.87	
50	212.53	0.02		212.55	
55	196.57	0.26		196.83	
60	183.28	1.36		184.64	
65	171.98	14.26		186.24	
70	153.16	68.66		221.82	
75	132.29	102.26		234.54	
80	111.17	112.37	0.00	223.54	
85	95.08	110.59	0.00	205.67	
90	82.04	105.56	0.00	187.61	
95	71.13	98.08	0.06	169.27	
100	61.34	91.75	0.67	153.77	
105	52.41	86.58	15.81	154.80	
110	44.01	77.21	100.14	221.35	
115	36.16	67.15	190.34	293.65	
120	28.88	56.48	233.10	318.45	
125	21.29	47.95	242.41	311.65	
130	15.14	41.30	234.36	290.79	
135	11.01	35.85	221.21	268.08	
140	8.09	31.05	206.34	245.48	
145	5.88	26.71	194.90	227.49	
150	4.22	22.66	179.42	206.30	
155	2.95	18.87	160.14	181.97	
160	2.03	15.34	139.17	156.53	
165	1.44	11.72	118.11	131.27	
170	1.08	8.30	99.95	109.33	
175	0.85	5.71	86.37	92.93	
180	0.67	4.04	75.60	80.31	
185	0.52	2.86	66.19	69.57	
190	0.38	1.99	57.74	60.12	
195	0.26	1.35	49.95	51.56	
200	0.17	0.87	42.64	43.69	
205	0.10	0.54	35.71	36.35	
210	0.04	0.36	29.07	29.47	
215	0.01	0.26	22.54	22.82	
220	0.00	0.20	16.22	16.42	
225	0.00	0.16	10.73	10.89	
230	0.00	0.12	7.34	7.46	
235	0.00	0.09	5.08	5.16	
240	0.00	0.06	3.42	3.48	
245	0.00	0.04	2.21	2.25	
250	0.00	0.02	1.34	1.36	
255	0.00	0.01	0.73	0.74	
260	0.00	0.00	0.38	0.38	
265	0.00	0.00	0.24	0.24	
270	0.00	0.00	0.16	0.16	
275	0.00	0.00	0.13	0.13	
280	0.00	0.00	0.10	0.10	
285	0.00	0.00	0.07	0.07	
290	0.00	0.00	0.05	0.05	
295	0.00	0.00	0.03	0.03	
300	0.00	0.00	0.02	0.02	
305	0.00	0.00	0.01	0.01	
310	0.00	0.00	0.00	0.00	
315	0.00	0.00	0.00	0.00	
320	0.00	0.00	0.00	0.00	
325	0.00	0.00	0.00	0.00	
330	0.00	0.00	0.00	0.00	
335	0.00	0.00	0.00	0.00	
340	0.00	0.00	0.00	0.00	
345	0.00	0.00	0.00	0.00	
350	0.00	0.00	0.00	0.00	
355	0.00	0.00	0.00	0.00	
360	0.00	0.00	0.00	0.00	
365	0.00	0.00	0.00	0.00	
370	0.00	0.00	0.00	0.00	
375	0.00	0.00	0.00	0.00	
380	0.00	0.00	0.00	0.00	
385	0.00	0.00	0.00	0.00	
390	0.00	0.00	0.00	0.00	
395	0.00	0.00	0.00	0.00	
400	0.00	0.00	0.00	0.00	
405	0.00	0.00	0.00	0.00	
410	0.00	0.00	0.00	0.00	
415	0.00	0.00	0.00	0.00	
420	0.00	0.00	0.00	0.00	
425	0.00	0.00	0.00	0.00	
430	0.00	0.00	0.00	0.00	
435	0.00	0.00	0.00	0.00	
440	0.00	0.00	0.00	0.00	
445	0.00	0.00	0.00	0.00	
450	0.00	0.00	0.00	0.00	
455	0.00	0.00	0.00	0.00	
460	0.00	0.00	0.00	0.00	
465	0.00	0.00	0.00	0.00	
470	0.00	0.00	0.00	0.00	
475	0.00	0.00	0.00	0.00	
480	0.00	0.00	0.00	0.00	
485	0.00	0.00	0.00	0.00	
490	0.00	0.00	0.00	0.00	
495	0.00	0.00	0.00	0.00	
500	0.00	0.00	0.00	0.00	
505	0.00	0.00	0.00	0.00	
510	0.00	0.00	0.00	0.00	
515	0.00	0.00	0.00	0.00	
520	0.00	0.00	0.00	0.00	

LITTLE THOMPSON RIVER BASIN

flow in cfs						
time in minutes	LTRB 4	LTRB 13	LTRB 12	LTRB 11	Total to LTRB 4	max
0	0.00				0.00	320
5	0.00				0.00	
10	0.00				0.00	
15	0.02				0.02	
20	0.08				0.08	
25	0.95				0.95	
30	4.59				4.59	
35	6.50				6.50	
40	7.34				7.34	
45	7.74				7.74	
50	7.79	0.00			7.79	
55	7.58	0.00			7.58	
60	7.42	0.12			7.55	
65	7.27	1.55			8.82	
70	6.80	6.78			13.58	
75	6.34	34.57			40.91	
80	5.84	135.51			141.35	
85	5.39	206.49			211.89	
90	4.98	228.43	0.00		233.41	
95	4.59	223.87	0.00		228.46	
100	4.22	212.53	0.02		216.77	
105	3.85	196.57	0.26		200.68	
110	3.50	183.28	1.36		186.14	
115	3.16	171.98	14.26		189.39	
120	2.83	153.16	68.66		224.65	
125	2.56	132.29	102.26		237.11	
130	2.35	111.17	112.37	0.00	225.89	
135	2.16	95.08	110.59	0.00	207.82	
140	1.99	82.04	105.56	0.00	189.59	
145	1.83	71.13	98.08	0.06	171.10	
150	1.68	61.34	91.75	0.67	155.45	
155	1.55	52.41	86.58	15.81	156.35	
160	1.42	44.01	77.21	100.14	222.77	
165	1.30	36.16	67.15	190.34	294.95	
170	1.17	28.88	56.48	233.10	319.63	
175	1.05	21.29	47.95	242.41	312.71	
180	0.94	15.14	41.30	234.36	291.73	
185	0.82	11.01	35.85	221.21	268.90	
190	0.70	8.09	31.05	206.34	246.18	
195	0.58	5.88	26.71	194.90	228.07	
200	0.46	4.22	22.66	179.42	206.76	
205	0.34	2.95	18.87	160.14	182.31	
210	0.23	2.03	15.34	139.17	156.77	
215	0.16	1.44	11.72	118.11	131.43	
220	0.12	1.08	8.30	99.95	109.44	
225	0.08	0.85	5.71	86.37	93.01	
230	0.06	0.67	4.04	75.60	80.37	
235	0.04	0.52	2.86	66.19	69.61	
240	0.02	0.38	1.99	57.74	60.14	
245	0.01	0.26	1.35	49.95	51.58	
250	0.01	0.17	0.87	42.64	43.70	
255	0.01	0.10	0.54	35.71	36.35	
260	0.01	0.04	0.36	29.07	29.48	
265	0.00	0.01	0.26	22.54	22.82	
270	0.00	0.00	0.20	16.22	16.42	
275	0.00	0.00	0.16	10.73	10.89	
280	0.00	0.00	0.12	7.34	7.47	
285	0.00	0.00	0.09	5.08	5.17	
290	0.00	0.00	0.06	3.42	3.48	
295	0.00	0.00	0.04	2.21	2.25	
300	0.00	0.00	0.02	1.34	1.36	
305	0.00	0.00	0.01	0.73	0.74	
310	0.00	0.00	0.00	0.38	0.38	
315	0.00	0.00	0.00	0.24	0.24	
320	0.00	0.00	0.00	0.16	0.16	
325	0.00	0.00	0.00	0.13	0.13	
330	0.00	0.00	0.00	0.10	0.10	
335	0.00	0.00	0.00	0.07	0.07	
340	0.00	0.00	0.00	0.05	0.05	
345	0.00	0.00	0.00	0.03	0.03	
350	0.00	0.00	0.00	0.02	0.02	
355	0.00	0.00	0.00	0.01	0.01	
360	0.00	0.00	0.00	0.00	0.00	
365	0.00	0.00	0.00	0.00	0.00	
370	0.00	0.00	0.00	0.00	0.00	
375	0.00	0.00	0.00	0.00	0.00	
380	0.00	0.00	0.00	0.00	0.00	
385	0.00	0.00	0.00	0.00	0.00	
390	0.00	0.00	0.00	0.00	0.00	
395	0.00	0.00	0.00	0.00	0.00	
400	0.00	0.00	0.00	0.00	0.00	
405	0.00	0.00	0.00	0.00	0.00	
410	0.00	0.00	0.00	0.00	0.00	
415	0.00	0.00	0.00	0.00	0.00	
420	0.00	0.00	0.00	0.00	0.00	
425	0.00	0.00	0.00	0.00	0.00	
430	0.00	0.00	0.00	0.00	0.00	
435	0.00	0.00	0.00	0.00	0.00	
440	0.00	0.00	0.00	0.00	0.00	
445	0.00	0.00	0.00	0.00	0.00	
450	0.00	0.00	0.00	0.00	0.00	
455	0.00	0.00	0.00	0.00	0.00	
460	0.00	0.00	0.00	0.00	0.00	
465	0.00	0.00	0.00	0.00	0.00	
470	0.00	0.00	0.00	0.00	0.00	
475	0.00	0.00	0.00	0.00	0.00	
480	0.00	0.00	0.00	0.00	0.00	
485	0.00	0.00	0.00	0.00	0.00	
490	0.00	0.00	0.00	0.00	0.00	
495	0.00	0.00	0.00	0.00	0.00	
500	0.00	0.00	0.00	0.00	0.00	
505	0.00	0.00	0.00	0.00	0.00	
510	0.00	0.00	0.00	0.00	0.00	
515	0.00	0.00	0.00	0.00	0.00	
520	0.00	0.00	0.00	0.00	0.00	
525	0.00	0.00	0.00	0.00	0.00	
530	0.00	0.00	0.00	0.00	0.00	
535	0.00	0.00	0.00	0.00	0.00	
540	0.00	0.00	0.00	0.00	0.00	
545	0.00	0.00	0.00	0.00	0.00	
550	0.00	0.00	0.00	0.00	0.00	
555	0.00	0.00	0.00	0.00	0.00	
560	0.00	0.00	0.00	0.00	0.00	
565	0.00	0.00	0.00	0.00	0.00	
570	0.00	0.00	0.00	0.00	0.00	

LITTLE THOMPSON RIVER BASIN

Flow in cfs							
Time in minutes	LT00A7	LT00A6	LT00A4	LT00A3	LT00A2	LT00A1	Total to LT00A7
0	0.00						0.00
5	0.00						0.00
10	0.00						0.00
15	0.03						0.03
20	0.37						0.37
25	8.97						8.97
30	60.91						60.91
35	137.81						137.81
40	194.95						194.95
45	223.92						223.92
50	234.72	0.00					234.72
55	231.58	0.00					231.58
60	223.28	0.06					223.34
65	215.47	0.83					216.30
70	204.20	3.49					207.69
75	188.80	15.64					204.44
80	173.51	58.60					232.11
85	158.36	99.77					258.13
90	143.53	119.92					263.45
95	129.67	128.26					257.92
100	115.55	129.00	0.00				244.55
105	103.91	125.31	0.00				229.22
110	91.79	121.20	0.00				212.99
115	89.97	117.26	0.02				207.25
120	72.88	110.30	0.08				183.27
125	66.20	102.31	0.95				169.46
130	60.19	94.29	4.59				159.07
135	54.71	86.15	6.56				147.36
140	49.63	78.64	7.34				135.41
145	44.88	71.17	7.74				123.79
150	40.45	64.15	7.79	0.00			112.39
155	36.31	57.43	7.58	0.00			101.31
160	32.24	51.25	7.42	0.12			91.04
165	28.23	46.49	7.27	1.55			83.54
170	24.24	42.69	6.80	6.78			80.51
175	20.24	39.02	6.34	34.57			100.17
180	16.26	35.46	5.84	135.51			193.07
185	12.28	32.14	5.39	206.49			256.31
190	8.49	29.02	4.98	228.43	0.00		270.92
195	5.67	26.12	4.59	229.87	0.00		260.25
200	3.89	23.44	4.22	212.53	0.02		244.09
205	2.66	20.85	3.85	196.57	0.26		224.19
210	1.77	18.43	3.50	181.28	1.96		206.23
215	1.12	15.84	3.16	171.98	34.28		206.36
220	0.65	13.39	2.83	153.16	68.66		238.69
225	0.34	10.95	2.56	132.29	102.26		248.39
230	0.19	8.55	2.35	111.17	112.37	0.00	234.63
235	0.12	6.28	2.16	95.08	110.59	0.00	214.21
240	0.09	4.44	1.99	82.04	105.56	0.00	194.17
245	0.07	3.25	1.83	71.13	98.08	0.06	174.42
250	0.05	2.42	1.68	61.34	91.75	0.67	157.92
255	0.04	1.79	1.55	52.41	86.58	1.81	148.18
260	0.03	1.32	1.42	44.01	77.21	100.14	224.12
265	0.02	0.96	1.30	36.16	67.15	190.34	295.92
270	0.01	0.69	1.17	28.88	56.48	233.10	320.53
275	0.00	0.51	1.05	21.29	47.95	242.41	313.22
280	0.00	0.40	0.94	15.14	41.30	234.36	292.13
285	0.00	0.31	0.82	11.01	35.85	221.21	269.21
290	0.00	0.25	0.70	8.09	31.09	208.34	246.43
295	0.00	0.19	0.58	5.88	26.71	194.90	228.26
300	0.00	0.14	0.46	4.22	22.66	179.42	206.90
305	0.00	0.10	0.34	2.95	18.87	160.14	182.41
310	0.00	0.06	0.23	2.03	15.34	139.17	156.83
315	0.00	0.04	0.16	1.44	11.72	118.11	131.47
320	0.00	0.02	0.12	1.08	8.30	99.95	109.46
325	0.00	0.00	0.08	0.85	5.71	86.37	93.01
330	0.00	0.00	0.06	0.67	4.04	75.60	80.37
335	0.00	0.00	0.04	0.52	2.86	66.19	69.61
340	0.00	0.00	0.02	0.38	1.99	57.74	60.14
345	0.00	0.00	0.01	0.26	1.35	49.95	51.58
350	0.00	0.00	0.01	0.17	0.87	42.64	43.70
355	0.00	0.00	0.01	0.10	0.54	35.71	36.35
360	0.00	0.00	0.01	0.04	0.36	29.07	29.48
365	0.00	0.00	0.00	0.01	0.26	22.54	22.81
370	0.00	0.00	0.00	0.00	0.20	16.22	16.42
375	0.00	0.00	0.00	0.00	0.16	10.73	10.89
380	0.00	0.00	0.00	0.00	0.12	7.34	7.47
385	0.00	0.00	0.00	0.00	0.09	5.08	5.17
390	0.00	0.00	0.00	0.00	0.06	3.42	3.48
395	0.00	0.00	0.00	0.00	0.04	2.21	2.25
400	0.00	0.00	0.00	0.00	0.02	1.34	1.36
405	0.00	0.00	0.00	0.00	0.01	0.73	0.74
410	0.00	0.00	0.00	0.00	0.00	0.38	0.38
415	0.00	0.00	0.00	0.00	0.00	0.24	0.24
420	0.00	0.00	0.00	0.00	0.00	0.16	0.16
425	0.00	0.00	0.00	0.00	0.00	0.13	0.13
430	0.00	0.00	0.00	0.00	0.00	0.10	0.10
435	0.00	0.00	0.00	0.00	0.00	0.07	0.07
440	0.00	0.00	0.00	0.00	0.00	0.05	0.05
445	0.00	0.00	0.00	0.00	0.00	0.03	0.03
450	0.00	0.00	0.00	0.00	0.00	0.02	0.02
455	0.00	0.00	0.00	0.00	0.00	0.01	0.01
460	0.00	0.00	0.00	0.00	0.00	0.00	0.00
465	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470	0.00	0.00	0.00	0.00	0.00	0.00	0.00
475	0.00	0.00	0.00	0.00	0.00	0.00	0.00
480	0.00	0.00	0.00	0.00	0.00	0.00	0.00
485	0.00	0.00	0.00	0.00	0.00	0.00	0.00
490	0.00	0.00	0.00	0.00	0.00	0.00	0.00
495	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500	0.00	0.00	0.00	0.00	0.00	0.00	0.00
505	0.00	0.00	0.00	0.00	0.00	0.00	0.00
510	0.00	0.00	0.00	0.00	0.00	0.00	0.00
515	0.00	0.00	0.00	0.00	0.00	0.00	0.00
520	0.00	0.00	0.00	0.00	0.00	0.00	0.00
525	0.00	0.00	0.00	0.00	0.00	0.00	0.00
530	0.00	0.00	0.00	0.00	0.00	0.00	0.00
535	0.00	0.00	0.00	0.00	0.00	0.00	0.00
540	0.00	0.00	0.00	0.00	0.00	0.00	0.00
545	0.00	0.00	0.00	0.00	0.00	0.00	0.00
550	0.00	0.00	0.00	0.00	0.00	0.00	0.00
555	0.00	0.00	0.00	0.00	0.00	0.00	0.00
560	0.00	0.00	0.00	0.00	0.00	0.00	0.00
565	0.00	0.00	0.00	0.00	0.00	0.00	0.00
570	0.00	0.00	0.00	0.00	0.00	0.00	0.00
575	0.00	0.00	0.00	0.00	0.00	0.00	0.00
580	0.00	0.00	0.00	0.00	0.00	0.00	0.00
585	0.00	0.00	0.00	0.00	0.00	0.00	0.00
590	0.00	0.00	0.00	0.00	0.00	0.00	0.00
595	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600	0.00	0.00	0.00	0.00	0.00	0.00	0.00
605	0.00	0.00	0.00	0.00	0.00	0.00	0.00
610	0.00	0.00	0.00	0.00	0.00	0.00	0.00
615	0.00	0.00	0.00	0.00	0.00	0.00	0.00
620	0.00	0.00	0.00	0.00	0.00	0.00	0.00
625	0.00	0.00	0.00	0.00	0.00	0.00	0.00
630	0.00	0.00	0.00	0.00	0.00	0.00	0.00
635	0.00	0.00	0.00	0.00	0.00	0.00	0.00
640	0.00	0.00	0.00	0.00	0.00	0.00	0.00
645	0.00	0.00	0.00	0.00	0.00	0.00	0.00
650	0.00	0.00	0.00	0.00	0.00	0.00	0.00
655	0.00	0.00	0.00	0.00	0.00	0.00	0.00
660	0.00	0.00	0.00	0.00	0.00	0.00	0.00
665	0.00	0.00	0.00	0.00	0.00	0.00	0.00
670	0.00	0.00	0.00	0.00	0.00	0.00	0.00
675	0.00	0.00	0.00	0.00	0.00	0.00	0.00
680	0.00	0.00	0.00	0.00	0.00	0.00	0.00
685	0.00	0.00	0.00	0.00	0.00	0.00	0.00
690	0.00	0.00	0.00	0.00	0.00	0.00	0.00
695	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700	0.00	0.00	0.00	0.00	0.00	0.00	0.00
705	0.00	0.00	0.00	0.00	0.00	0.00	0.00
710	0.00	0.00	0.00	0.00	0.00	0.00	0.00
715	0.00	0.00	0.00	0.00	0.00	0.00	0.00
720	0.00	0.00	0.00	0.00	0.00	0.00	0.00
725	0.00	0.00	0.00	0.00	0.00	0.00	0.00

320

LITTLE THOMPSON RIVER BASIN

time in minutes	flow in cfs			max
	UTR826	UTR825	Total to UTR826	
0	0.00		0.00	558
5	0.00		0.00	
10	0.00		0.00	
15	0.01		0.01	
20	0.13		0.13	
25	3.82		3.82	
30	29.01		29.01	
35	83.30		83.30	
40	159.85		159.85	
45	245.63		245.63	
50	327.43		327.43	
55	399.24		399.24	
60	457.40		457.40	
65	500.21		500.21	
70	527.88		527.88	
75	542.35		542.35	
80	543.85	0.00	543.85	
85	532.56	0.00	532.56	
90	510.25	0.00	510.25	
95	483.85	0.02	483.86	
100	459.66	0.25	459.91	
105	435.99	7.90	443.89	
110	412.30	56.12	468.42	
115	388.70	129.57	518.27	
120	365.27	186.06	551.33	
125	342.58	215.45	558.03	
130	323.11	227.24	550.36	
135	306.66	225.47	532.13	
140	291.62	217.44	509.06	
145	277.48	210.03	487.51	
150	263.90	199.54	463.44	
155	250.73	184.98	435.71	
160	237.94	169.94	407.87	
165	225.52	155.29	380.81	
170	213.30	141.01	354.31	
175	201.16	127.65	328.80	
180	189.05	115.09	304.14	
185	176.96	102.99	279.96	
190	164.89	91.32	256.21	
195	152.83	80.43	233.27	
200	141.27	72.08	213.34	
205	132.31	65.38	197.69	
210	125.10	59.50	184.60	
215	118.80	54.18	172.98	
220	113.13	49.28	162.41	
225	107.92	44.70	152.63	
230	103.05	40.43	143.49	
235	98.50	36.47	134.97	
240	94.27	32.61	126.88	
245	90.14	28.82	118.96	
250	86.09	25.04	111.13	
255	82.04	21.27	103.31	
260	78.00	17.50	95.49	
265	73.96	13.73	87.69	
270	69.92	9.98	79.91	
275	65.89	6.53	72.42	
280	61.86	4.43	66.29	
285	57.84	3.05	60.89	
290	53.82	2.04	55.86	
295	49.80	1.32	51.12	
300	45.79	0.79	46.58	
305	41.77	0.42	42.19	
310	37.75	0.20	37.95	
315	33.74	0.12	33.86	
320	29.72	0.07	29.79	
325	25.71	0.06	25.76	
330	21.69	0.04	21.73	
335	17.67	0.03	17.71	
340	13.66	0.02	13.68	
345	9.73	0.02	9.75	
350	6.42	0.01	6.43	
355	4.37	0.00	4.38	
360	3.00	0.00	3.00	
365	2.00	0.00	2.00	
370	1.28	0.00	1.28	
375	0.76	0.00	0.76	
380	0.40	0.00	0.40	
385	0.19	0.00	0.19	
390	0.12	0.00	0.12	
395	0.08	0.00	0.08	
400	0.06	0.00	0.06	
405	0.05	0.00	0.05	
410	0.04	0.00	0.04	
415	0.02	0.00	0.02	
420	0.02	0.00	0.02	
425	0.01	0.00	0.01	
430	0.00	0.00	0.00	
435	0.00	0.00	0.00	
440	0.00	0.00	0.00	
445	0.00	0.00	0.00	
450	0.00	0.00	0.00	
455	0.00	0.00	0.00	
460	0.00	0.00	0.00	
465	0.00	0.00	0.00	
470	0.00	0.00	0.00	
475	0.00	0.00	0.00	
480	0.00	0.00	0.00	
485	0.00	0.00	0.00	
490	0.00	0.00	0.00	
495	0.00	0.00	0.00	
500	0.00	0.00	0.00	
505	0.00	0.00	0.00	
510	0.00	0.00	0.00	
515	0.00	0.00	0.00	
520	0.00	0.00	0.00	

LTRB SWMM INPUT

LTRB Ponding Areas.inp

[TITLE]

;;Project Title/Notes

[OPTIONS]

;;Option Value
FLOW_UNITS CFS
INFILTRATION HORTON
FLOW_ROUTING DYNWAVE
LINK_OFFSETS DEPTH
MIN_SLOPE 0
ALLOW_PONDING NO
SKIP_STEADY_STATE NO

START_DATE 05/10/2018
START_TIME 00:00:00
REPORT_START_DATE 05/10/2018
REPORT_START_TIME 00:00:00
END_DATE 05/11/2018
END_TIME 06:00:00
SWEEP_START 01/01
SWEEP_END 12/31
DRY_DAYS 0
REPORT_STEP 00:00:05
WET_STEP 00:00:05
DRY_STEP 00:00:05
ROUTING_STEP 0:00:05

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP 0.75
LENGTHENING_STEP 0
MIN_SURFAREA 12.557
MAX_TRIALS 8
HEAD_TOLERANCE 0.005
SYS_FLOW_TOL 5
LAT_FLOW_TOL 5
MINIMUM_STEP 0.5
THREADS 1

[EVAPORATION]

;;Data Source Parameters
;;-----
CONSTANT 0.0
DRY_ONLY NO

[JUNCTIONS]

;;Name Elevation MaxDepth InitDepth SurDepth Aponded

LTRB Ponding Areas.inp

```
;;-----
LTRB23      0.75      1.2      0      0      0
LTRB17      4995.65    3      0      0      0
```

[OUTFALLS]

```
;;Name      Elevation  Type      Stage Data      Gated      Route To
;;-----
LTRB11_0    73.99     FREE     -               NO
LTRB7_0     83        FREE     -               NO
LTRB8_0     16.56     FREE     -               NO
LTRB8_ON    16.56     FREE     -               NO
LTRB5_0     11        FREE     -               NO
LTRB9_0     97.8      FREE     -               NO
LTRB18_0    90.80     FREE     -               NO
LTRB25_0    25.66     FREE     -               NO
LTRB21_0    4947.57   FREE     -               NO
LTRB23_0    0         FREE     -               NO
LTRB3_o     74        FREE     -               NO
LTRB14_0    5061.08   FREE     -               NO
LTRB17_0    4995.8    FREE     -               NO
LTRB20_0    5003.6    FREE     -               NO
```

[STORAGE]

```
;;Name      Elev.      MaxDepth  InitDepth  Shape      Curve Name/Params
  N/A      Fevap     Psi       Ksat       IMD
;;-----
LTRB11      67         7         0         TABULAR    LTRB11
  0         0
LTRB12      71         2         0         TABULAR    LTRB12
  0         0
LTRB13      63         9         0         TABULAR    LTRB13
  0         0
LTRB18      93.34     2.5       0         TABULAR    LTRB18
  0         0
LTRB19      82         4         0         TABULAR    LTRB19
  0         0
LTRB25      26.16     8         0         TABULAR    LTRB25
  0         0
LTRB5       9          2.5       0         TABULAR    LTRB5
  0         0
LTRB7       81         2.18     0         TABULAR    LTRB7
  0         0
LTRB8       16.79     8         0         TABULAR    LTRB8
  0         0
LTRB8_N     16.79     8         0         TABULAR    LTRB8
  0         0
LTRB9       97         1.2      0         TABULAR    LTRB9
```

LTRB Ponding Areas.inp

0	0					
LTRB4	0	0	8	0	TABULAR	LTRB4
0	0					
LTRB3	0	74.22	6.2	0	TABULAR	LTRB3
0	0					
LTRB14	0	5061.9	3	0	TABULAR	LTRB14
0	0					
LTRB20	0	5006.65	1.5	0	TABULAR	LTRB20
0	0					
LTRB21	0	4948.39	3	0	TABULAR	LTRB21
0	0					

[CONDUITS]

;;Name	From Node	To Node	Length	Roughness	InOffset
OutOffset	InitFlow	MaxFlow			
;;-----	-----	-----	-----	-----	-----
LTRB8	LTRB8	LTRB8_0	66	0.013	0
0	0				
LTRB8_N	LTRB8_N	LTRB8_ON	66	0.013	0
0	0				
LTRB18_pipe	LTRB18	LTRB18_0	52	0.023	0
0	0				
LTRB25	LTRB25	LTRB25_0	64	0.023	0
0	0				
LTRB21	LTRB21	LTRB21_0	40	0.013	0
0	0				
LTRB23	LTRB23	LTRB23_0	50	0.011	0
0	0				
LTRB3	LTRB3	LTRB3_0	50	0.013	0
0	0				
LTRB14	LTRB14	LTRB14_0	61	0.023	0
0	0				
LTRB17	LTRB17	LTRB17_0	50	0.023	0
0	0				
LTRB20	LTRB20	LTRB20_0	60	0.023	0
0	0				

[WEIRS]

;;Name	From Node	To Node	Type	CrestHt	Qcoeff
Gated	EndCon	EndCoeff	Surcharge	RoadWidth	RoadSurf
;;-----	-----	-----	-----	-----	-----
LTRB11_W	LTRB11	LTRB11_0	TRANSVERSE	6.9	3.33
NO	0		YES		
LTRB7	LTRB7	LTRB7_0	TRANSVERSE	2	3.33
NO	0		YES		
LTRB5	LTRB5	LTRB5_0	TRAPEZOIDAL	2	3.33

LTRB Ponding Areas.inp

```

NO      0      0      YES
LTRB9   0      0      LTRB9   LTRB9_0      TRAPEZOIDAL  1      3.33
NO      0      0      YES
  
```

[XSECTIONS]

```

;;Link      Shape      Geom1      Geom2      Geom3      Geom4
Barrels    Culvert
;;-----
LTRB8      CIRCULAR    2.5        0          0          0          1
LTRB8_N    CIRCULAR    4          0          0          0          1
LTRB18_pipe CIRCULAR    1.5        0          0          0          1
LTRB25     CIRCULAR    3          0          0          0          1
LTRB21     CIRCULAR    3          0          0          0          2
LTRB23     CIRCULAR    1.17       0          0          0          1
LTRB3      RECT_CLOSED 6.16       16         0          0          1
LTRB14     CIRCULAR    3          0          0          0          1
LTRB17     CIRCULAR    3          0          0          0          1
LTRB20     CIRCULAR    1.5        0          0          0          1

LTRB11_W   RECT_OPEN   1.1        115        0          0
LTRB7      RECT_OPEN   0.18       60         0          0
LTRB5      TRAPEZOIDAL 0.5        40         1          1
LTRB9      TRAPEZOIDAL 1          240        1          1
  
```

[INFLOWS]

```

;;Node      Constituent      Time Series      Type      Mfactor      Sfactor
Baseline Pattern
;;-----
LTRB23      FLOW              ltrb23          FLOW      1.0          1.0
LTRB17      FLOW              LTRB17          FLOW      1.0          1.0
LTRB11      FLOW              LTRB11          FLOW      1.0          1.0
LTRB12      FLOW              LTRB12          FLOW      1.0          1.0
LTRB13      FLOW              LTRB13          FLOW      1.0          1.0
  
```

LTRB Ponding Areas.inp

LTRB18	FLOW	LTRB18	FLOW	1.0	1.0
LTRB19	FLOW	LTRB19	FLOW	1.0	1.0
LTRB25	FLOW	LTRB25	FLOW	1.0	1.0
LTRB5	FLOW	LTBR5	FLOW	1.0	1.0
LTRB7	FLOW	LTBR7	FLOW	1.0	1.0
LTRB8	FLOW	LTBR8	FLOW	1.0	1.0
LTRB8_N	FLOW	LTBR8	FLOW	1.0	1.0
LTRB9	FLOW	LTRB9	FLOW	1.0	1.0
LTRB4	FLOW	LTRB4	FLOW	1.0	1.0
LTRB3	FLOW	LTRB3	FLOW	1.0	1.0
LTRB14	FLOW	LTRB14	FLOW	1.0	1.0
LTRB20	FLOW	LTRB20	FLOW	1.0	1.0
LTRB21	FLOW	LTRB21	FLOW	1.0	1.0

[CURVES]

;;Name	Type	X-Value	Y-Value

LTRB11	Storage	0	9973
LTRB11		1	45644
LTRB11		2	416586
LTRB11		3	519858
LTRB11		4	537623
LTRB11		5	550837
LTRB11		6	562639
LTRB11		7	649906
;			
LTRB7	Storage	0	15862
LTRB7		1	21822
LTRB7		2	26366
LTRB7		2.18	27000
;			
LTRB8	Storage	0	625
LTRB8		1	5314
LTRB8		2	11770

LTRB Ponding Areas.inp

LTRB8		3	20943
LTRB8		4	31846
LTRB8		5	44366
LTRB8		6	69711
LTRB8		7	87191
LTRB8		8	105239
;			
LTRB4	Storage	0	3757
LTRB4		1	12791
LTRB4		2	16436
LTRB4		3	18942
LTRB4		4	21176
LTRB4		5	23348
LTRB4		6	25690
LTRB4		7	28359
LTRB4		8	31143
;			
LTRB5	Storage	0	101358
LTRB5		1	169782
LTRB5		2	208470
LTRB5		2.5	209687
;			
LTRB9	Storage	0	79179
LTRB9		1	123320
;			
LTRB13	Storage	0	273994
LTRB13		1	333673
LTRB13		2	448904
LTRB13		3	549905
LTRB13		4	656495
LTRB13		5	768736
LTRB13		6	900592
LTRB13		7	1111065
LTRB13		8	1294961
LTRB13		9	1327753
;			
LTRB12	Storage	0	168376
LTRB12		1	186519
LTRB12		2	231112
;			
LTRB19	Storage	0	26295
LTRB19		1	38411
LTRB19		2	70609
LTRB19		3	88018
LTRB19		4	98944
;			
LTRB18	Storage	0	687
LTRB18		1	7692

LTRB Ponding Areas.inp

```

LTRB18      2      16506
LTRB18      2.5    17901
;
LTRB25      Storage  0      0
LTRB25      1      160
LTRB25      2      320
LTRB25      3      745
LTRB25      4      2607
LTRB25      5      10895
LTRB25      6      26119
LTRB25      7      36529
LTRB25      8      48521
;
LTRB3       Storage  0      0
LTRB3       3      475
LTRB3       4      1224
LTRB3       5      6855
LTRB3       6.2    14759
;
ltrb14      Storage  0      0
ltrb14      1      288
ltrb14      2      2640
ltrb14      3      30230
;
LTRB16      Storage  0      0
;
LTRB20      Storage  0      0
LTRB20      1      1747
LTRB20      2      5585
;
LTRB21      Storage  0      0
LTRB21      1      129
LTRB21      2      1095
LTRB21      3      8162

```

[TIMESERIES]

```

;;Name      Date      Time      Value
;;-----
LTRB11      5/10/2018  0:00     0.00
LTRB11      5/10/2018  0:05     0.00
LTRB11      5/10/2018  0:10     0.06
LTRB11      5/10/2018  0:15     0.67
LTRB11      5/10/2018  0:20     15.81
LTRB11      5/10/2018  0:25     100.14
LTRB11      5/10/2018  0:30     190.34
LTRB11      5/10/2018  0:35     233.10
LTRB11      5/10/2018  0:40     242.41
LTRB11      5/10/2018  0:45     234.36

```

LTRB Ponding Areas.inp

LTRB11	5/10/2018	0:50	221.21
LTRB11	5/10/2018	0:55	206.34
LTRB11	5/10/2018	1:00	194.90
LTRB11	5/10/2018	1:05	179.42
LTRB11	5/10/2018	1:10	160.14
LTRB11	5/10/2018	1:15	139.17
LTRB11	5/10/2018	1:20	118.11
LTRB11	5/10/2018	1:25	99.95
LTRB11	5/10/2018	1:30	86.37
LTRB11	5/10/2018	1:35	75.60
LTRB11	5/10/2018	1:40	66.19
LTRB11	5/10/2018	1:45	57.74
LTRB11	5/10/2018	1:50	49.95
LTRB11	5/10/2018	1:55	42.64
LTRB11	5/10/2018	2:00	35.71
LTRB11	5/10/2018	2:05	29.07
LTRB11	5/10/2018	2:10	22.54
LTRB11	5/10/2018	2:15	16.22
LTRB11	5/10/2018	2:20	10.73
LTRB11	5/10/2018	2:25	7.34
LTRB11	5/10/2018	2:30	5.08
LTRB11	5/10/2018	2:35	3.42
LTRB11	5/10/2018	2:40	2.21
LTRB11	5/10/2018	2:45	1.34
LTRB11	5/10/2018	2:50	0.73
LTRB11	5/10/2018	2:55	0.38
LTRB11	5/10/2018	3:00	0.24
LTRB11	5/10/2018	3:05	0.16
LTRB11	5/10/2018	3:10	0.13
LTRB11	5/10/2018	3:15	0.10
LTRB11	5/10/2018	3:20	0.07
LTRB11	5/10/2018	3:25	0.05
LTRB11	5/10/2018	3:30	0.03
LTRB11	5/10/2018	3:35	0.02
LTRB11	5/10/2018	3:40	0.01
LTRB11	5/10/2018	3:45	0.00
LTRB11	5/10/2018	3:50	0.00
LTRB11	5/10/2018	3:55	0.00
LTRB11	5/10/2018	4:00	0.00
LTRB11	5/10/2018	4:05	0.00
LTRB11	5/10/2018	4:10	0.00
LTRB11	5/10/2018	4:15	0.00
LTRB11	5/10/2018	4:20	0.00
LTRB11	5/10/2018	4:25	0.00
LTRB11	5/10/2018	4:30	0.00
LTRB11	5/10/2018	4:35	0.00
LTRB11	5/10/2018	4:40	0.00
LTRB11	5/10/2018	4:45	0.00

LTRB Ponding Areas.inp

LTRB11	5/10/2018	4:50	0.00
LTRB11	5/10/2018	4:55	0.00
LTRB11	5/10/2018	5:00	0.00
LTRB11	5/10/2018	5:05	0.00
LTRB11	5/10/2018	5:10	0.00
LTRB11	5/10/2018	5:15	0.00
LTRB11	5/10/2018	5:20	0.00
LTRB11	5/10/2018	5:25	0.00
LTRB11	5/10/2018	5:30	0.00
LTRB11	5/10/2018	5:35	0.00
LTRB11	5/10/2018	5:40	0.00
LTRB11	5/10/2018	5:45	0.00
LTRB11	5/10/2018	5:50	0.00
LTRB11	5/10/2018	5:55	0.00
LTRB11	5/10/2018	6:00	0.00
LTRB11	5/10/2018	6:05	0.00
LTRB11	5/10/2018	6:10	0.00
LTRB11	5/10/2018	6:15	0.00
LTRB11	5/10/2018	6:20	0.00
LTRB11	5/10/2018	6:25	0.00
LTRB11	5/10/2018	6:30	0.00
LTRB11	5/10/2018	6:35	0.00
LTRB11	5/10/2018	6:40	0.00
LTRB11	5/10/2018	6:45	0.00
LTRB11	5/10/2018	6:50	0.00
LTRB11	5/10/2018	6:55	0.00
LTRB11	5/10/2018	7:00	0.00
LTRB11	5/10/2018	7:05	0.00
LTRB11	5/10/2018	7:10	0.00
LTRB11	5/10/2018	7:15	0.00
;			
LTBR7	5/10/2018	0:00	0.00
LTBR7	5/10/2018	0:05	0.00
LTBR7	5/10/2018	0:10	0.02
LTBR7	5/10/2018	0:15	0.21
LTBR7	5/10/2018	0:20	4.91
LTBR7	5/10/2018	0:25	34.08
LTBR7	5/10/2018	0:30	82.73
LTBR7	5/10/2018	0:35	125.07
LTBR7	5/10/2018	0:40	150.77
LTBR7	5/10/2018	0:45	164.63
LTBR7	5/10/2018	0:50	170.25
LTBR7	5/10/2018	0:55	169.34
LTBR7	5/10/2018	1:00	164.74
LTBR7	5/10/2018	1:05	159.51
LTBR7	5/10/2018	1:10	151.92
LTBR7	5/10/2018	1:15	142.22
LTBR7	5/10/2018	1:20	131.49

LTRB Ponding Areas.inp

LTBR7	5/10/2018	1:25	121.17
LTBR7	5/10/2018	1:30	112.06
LTBR7	5/10/2018	1:35	103.81
LTBR7	5/10/2018	1:40	96.27
LTBR7	5/10/2018	1:45	89.09
LTBR7	5/10/2018	1:50	82.21
LTBR7	5/10/2018	1:55	75.51
LTBR7	5/10/2018	2:00	68.96
LTBR7	5/10/2018	2:05	62.49
LTBR7	5/10/2018	2:10	56.21
LTBR7	5/10/2018	2:15	50.96
LTBR7	5/10/2018	2:20	46.85
LTBR7	5/10/2018	2:25	43.34
LTBR7	5/10/2018	2:30	40.20
LTBR7	5/10/2018	2:35	37.34
LTBR7	5/10/2018	2:40	34.67
LTBR7	5/10/2018	2:45	32.18
LTBR7	5/10/2018	2:50	29.87
LTBR7	5/10/2018	2:55	27.65
LTBR7	5/10/2018	3:00	25.47
LTBR7	5/10/2018	3:05	23.30
LTBR7	5/10/2018	3:10	21.14
LTBR7	5/10/2018	3:15	18.98
LTBR7	5/10/2018	3:20	16.82
LTBR7	5/10/2018	3:25	14.67
LTBR7	5/10/2018	3:30	12.52
LTBR7	5/10/2018	3:35	10.37
LTBR7	5/10/2018	3:40	8.22
LTBR7	5/10/2018	3:45	6.09
LTBR7	5/10/2018	3:50	4.08
LTBR7	5/10/2018	3:55	2.76
LTBR7	5/10/2018	4:00	1.91
LTBR7	5/10/2018	4:05	1.30
LTBR7	5/10/2018	4:10	0.85
LTBR7	5/10/2018	4:15	0.53
LTBR7	5/10/2018	4:20	0.30
LTBR7	5/10/2018	4:25	0.15
LTBR7	5/10/2018	4:30	0.09
LTBR7	5/10/2018	4:35	0.06
LTBR7	5/10/2018	4:40	0.05
LTBR7	5/10/2018	4:45	0.04
LTBR7	5/10/2018	4:50	0.03
LTBR7	5/10/2018	4:55	0.02
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LTBR7	5/10/2018	5:05	0.01
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LTBR7	5/10/2018	5:15	0.00
LTBR7	5/10/2018	5:20	0.00

LTRB Ponding Areas.inp

LTBR7	5/10/2018	5:25	0.00
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LTBR7	5/10/2018	6:05	0.00
LTBR7	5/10/2018	6:10	0.00
LTBR7	5/10/2018	6:15	0.00
LTBR7	5/10/2018	6:20	0.00
LTBR7	5/10/2018	6:25	0.00
LTBR7	5/10/2018	6:30	0.00
LTBR7	5/10/2018	6:35	0.00
LTBR7	5/10/2018	6:40	0.00
LTBR7	5/10/2018	6:45	0.00
LTBR7	5/10/2018	6:50	0.00
LTBR7	5/10/2018	6:55	0.00
LTBR7	5/10/2018	7:00	0.00
LTBR7	5/10/2018	7:05	0.00
LTBR7	5/10/2018	7:10	0.00
LTBR7	5/10/2018	7:15	0.00
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LTBR8	5/10/2018	0:10	0.00
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LTBR8	5/10/2018	0:20	0.23
LTBR8	5/10/2018	0:25	6.98
LTBR8	5/10/2018	0:30	49.17
LTBR8	5/10/2018	0:35	111.98
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LTBR8	5/10/2018	1:05	178.36
LTBR8	5/10/2018	1:10	169.85
LTBR8	5/10/2018	1:15	162.34
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LTBR8	5/10/2018	1:40	263.44
LTBR8	5/10/2018	1:45	258.99
LTBR8	5/10/2018	1:50	248.36
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LTRB Ponding Areas.inp

LTBR8	5/10/2018	2:00	221.87
LTBR8	5/10/2018	2:05	208.43
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LTBR8	5/10/2018	2:15	178.42
LTBR8	5/10/2018	2:20	163.95
LTBR8	5/10/2018	2:25	150.98
LTBR8	5/10/2018	2:30	139.12
LTBR8	5/10/2018	2:35	128.22
LTBR8	5/10/2018	2:40	117.82
LTBR8	5/10/2018	2:45	107.77
LTBR8	5/10/2018	2:50	97.93
LTBR8	5/10/2018	2:55	88.25
LTBR8	5/10/2018	3:00	78.65
LTBR8	5/10/2018	3:05	69.23
LTBR8	5/10/2018	3:10	60.86
LTBR8	5/10/2018	3:15	53.74
LTBR8	5/10/2018	3:20	47.91
LTBR8	5/10/2018	3:25	43.32
LTBR8	5/10/2018	3:30	39.46
LTBR8	5/10/2018	3:35	36.08
LTBR8	5/10/2018	3:40	33.07
LTBR8	5/10/2018	3:45	30.38
LTBR8	5/10/2018	3:50	27.91
LTBR8	5/10/2018	3:55	25.60
LTBR8	5/10/2018	4:00	23.38
LTBR8	5/10/2018	4:05	21.20
LTBR8	5/10/2018	4:10	19.02
LTBR8	5/10/2018	4:15	16.86
LTBR8	5/10/2018	4:20	14.70
LTBR8	5/10/2018	4:25	12.54
LTBR8	5/10/2018	4:30	10.38
LTBR8	5/10/2018	4:35	8.23
LTBR8	5/10/2018	4:40	6.09
LTBR8	5/10/2018	4:45	4.08
LTBR8	5/10/2018	4:50	2.76
LTBR8	5/10/2018	4:55	1.91
LTBR8	5/10/2018	5:00	1.30
LTBR8	5/10/2018	5:05	0.85
LTBR8	5/10/2018	5:10	0.53
LTBR8	5/10/2018	5:15	0.30
LTBR8	5/10/2018	5:20	0.15
LTBR8	5/10/2018	5:25	0.09
LTBR8	5/10/2018	5:30	0.06
LTBR8	5/10/2018	5:35	0.05
LTBR8	5/10/2018	5:40	0.04
LTBR8	5/10/2018	5:45	0.03
LTBR8	5/10/2018	5:50	0.02
LTBR8	5/10/2018	5:55	0.01

LTRB Ponding Areas.inp

LTBR8	5/10/2018	6:00	0.01
LTBR8	5/10/2018	6:05	0.00
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LTBR8	5/10/2018	6:15	0.00
LTBR8	5/10/2018	6:20	0.00
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LTBR8	5/10/2018	6:30	0.00
LTBR8	5/10/2018	6:35	0.00
LTBR8	5/10/2018	6:40	0.00
LTBR8	5/10/2018	6:45	0.00
LTBR8	5/10/2018	6:50	0.00
LTBR8	5/10/2018	6:55	0.00
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LTBR8	5/10/2018	7:05	0.00
LTBR8	5/10/2018	7:10	0.00
LTBR8	5/10/2018	7:15	0.00

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LTRB4	5/10/2018	0:15	0.38
LTRB4	5/10/2018	0:20	1.71
LTRB4	5/10/2018	0:25	7.70
LTRB4	5/10/2018	0:30	29.40
LTRB4	5/10/2018	0:35	54.65
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LTRB4	5/10/2018	0:45	77.68
LTRB4	5/10/2018	0:50	81.90
LTRB4	5/10/2018	0:55	83.11
LTRB4	5/10/2018	1:00	82.29
LTRB4	5/10/2018	1:05	80.83
LTRB4	5/10/2018	1:10	78.49
LTRB4	5/10/2018	1:15	75.46
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LTRB4	5/10/2018	1:25	135.91
LTRB4	5/10/2018	1:30	228.86
LTRB4	5/10/2018	1:35	309.73
LTRB4	5/10/2018	1:40	357.38
LTRB4	5/10/2018	1:45	379.59
LTRB4	5/10/2018	1:50	382.49
LTRB4	5/10/2018	1:55	371.05
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LTRB4	5/10/2018	2:10	321.90
LTRB4	5/10/2018	2:15	307.38
LTRB4	5/10/2018	2:20	350.60
LTRB4	5/10/2018	2:25	420.77
LTRB4	5/10/2018	2:30	462.47

LTRB Ponding Areas.inp

LTRB4	5/10/2018	2:35	472.76
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LTRB4	5/10/2018	2:50	409.36
LTRB4	5/10/2018	2:55	382.70
LTRB4	5/10/2018	3:00	352.74
LTRB4	5/10/2018	3:05	324.40
LTRB4	5/10/2018	3:10	296.64
LTRB4	5/10/2018	3:15	269.03
LTRB4	5/10/2018	3:20	242.62
LTRB4	5/10/2018	3:25	218.04
LTRB4	5/10/2018	3:30	194.54
LTRB4	5/10/2018	3:35	172.89
LTRB4	5/10/2018	3:40	155.55
LTRB4	5/10/2018	3:45	140.28
LTRB4	5/10/2018	3:50	126.18
LTRB4	5/10/2018	3:55	112.78
LTRB4	5/10/2018	4:00	99.89
LTRB4	5/10/2018	4:05	87.40
LTRB4	5/10/2018	4:10	75.36
LTRB4	5/10/2018	4:15	63.95
LTRB4	5/10/2018	4:20	53.04
LTRB4	5/10/2018	4:25	42.80
LTRB4	5/10/2018	4:30	34.33
LTRB4	5/10/2018	4:35	27.02
LTRB4	5/10/2018	4:40	20.39
LTRB4	5/10/2018	4:45	14.78
LTRB4	5/10/2018	4:50	11.13
LTRB4	5/10/2018	4:55	8.59
LTRB4	5/10/2018	5:00	6.73
LTRB4	5/10/2018	5:05	5.42
LTRB4	5/10/2018	5:10	4.43
LTRB4	5/10/2018	5:15	3.68
LTRB4	5/10/2018	5:20	3.13
LTRB4	5/10/2018	5:25	2.76
LTRB4	5/10/2018	5:30	2.43
LTRB4	5/10/2018	5:35	2.14
LTRB4	5/10/2018	5:40	1.86
LTRB4	5/10/2018	5:45	1.59
LTRB4	5/10/2018	5:50	1.33
LTRB4	5/10/2018	5:55	1.07
LTRB4	5/10/2018	6:00	0.82
LTRB4	5/10/2018	6:05	0.58
LTRB4	5/10/2018	6:10	0.38
LTRB4	5/10/2018	6:15	0.25
LTRB4	5/10/2018	6:20	0.17
LTRB4	5/10/2018	6:25	0.11
LTRB4	5/10/2018	6:30	0.07

LTRB Ponding Areas.inp

LTRB4	5/10/2018	6:35	0.04
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LTRB4	5/10/2018	6:55	0.00
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LTRB4	5/10/2018	7:05	0.00
LTRB4	5/10/2018	7:10	0.00
LTRB4	5/10/2018	7:15	0.00
LTRB4	5/10/2018	7:20	0.00
LTRB4	5/10/2018	7:25	0.00
LTRB4	5/10/2018	7:30	0.00
LTRB4	5/10/2018	7:35	0.00
LTRB4	5/10/2018	7:40	0.00
LTRB4	5/10/2018	7:45	0.00
LTRB4	5/10/2018	7:50	0.00
LTRB4	5/10/2018	7:55	0.00
LTRB4	5/10/2018	8:00	0.00
LTRB4	5/10/2018	8:05	0.00
LTRB4	5/10/2018	8:10	0.00
LTRB4	5/10/2018	8:15	0.00
LTRB4	5/10/2018	8:20	0.00
LTRB4	5/10/2018	8:25	0.00
LTRB4	5/10/2018	8:30	0.00
LTRB4	5/10/2018	8:35	0.00
LTRB4	5/10/2018	8:40	0.00
LTRB4	5/10/2018	8:45	0.00
LTRB4	5/10/2018	8:50	0.00
LTRB4	5/10/2018	8:55	0.00
LTRB4	5/10/2018	9:00	0.00
LTRB4	5/10/2018	9:05	0.00
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LTRB4	5/10/2018	9:15	0.00
LTRB4	5/10/2018	9:20	0.00
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LTRB4	5/10/2018	9:40	0.00
LTRB4	5/10/2018	9:45	0.00
LTRB4	5/10/2018	9:50	0.00
LTRB4	5/10/2018	9:55	0.00
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LTRB4	5/10/2018	10:10	0.00
LTRB4	5/10/2018	10:15	0.00
LTRB4	5/10/2018	10:20	0.00
LTRB4	5/10/2018	10:25	0.00
LTRB4	5/10/2018	10:30	0.00

LTRB Ponding Areas.inp

LTRB4	5/10/2018	10:35	0.00
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LTRB4	5/10/2018	10:55	0.00
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LTRB4	5/10/2018	11:05	0.00
LTRB4	5/10/2018	11:10	0.00
LTRB4	5/10/2018	11:15	0.00
LTRB4	5/10/2018	11:20	0.00
LTRB4	5/10/2018	11:25	0.00
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LTRB4	5/10/2018	11:45	0.00
LTRB4	5/10/2018	11:50	0.00
LTRB4	5/10/2018	11:55	0.00
LTRB4	5/10/2018	12:00	0.00
LTRB4	5/10/2018	12:05	0.00
LTRB4	5/10/2018	12:10	0.00
LTRB4	5/10/2018	12:15	0.00
LTRB4	5/10/2018	12:20	0.00
LTRB4	5/10/2018	12:25	0.00
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LTRB4	5/10/2018	12:35	0.00
LTRB4	5/10/2018	12:40	0.00
LTRB4	5/10/2018	12:45	0.00
LTRB4	5/10/2018	12:50	0.00
LTRB4	5/10/2018	12:55	0.00
LTRB4	5/10/2018	13:00	0.00
LTRB4	5/10/2018	13:05	0.00
LTRB4	5/10/2018	13:10	0.00
LTRB4	5/10/2018	13:15	0.00
LTRB4	5/10/2018	13:20	0.00
LTRB4	5/10/2018	13:25	0.00
LTRB4	5/10/2018	13:30	0.00
LTRB4	5/10/2018	13:35	0.00
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LTRB4	5/10/2018	13:45	0.00
LTRB4	5/10/2018	13:50	0.00
LTRB4	5/10/2018	13:55	0.00
LTRB4	5/10/2018	14:00	0.00
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LTRB4	5/10/2018	14:15	0.00
LTRB4	5/10/2018	14:20	0.00
LTRB4	5/10/2018	14:25	0.00
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LTRB Ponding Areas.inp

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LTBR5	5/10/2018	0:55	107.0847166
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LTBR5	5/10/2018	1:25	308.5934054
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LTBR5	5/10/2018	1:55	252.2509925
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LTBR5	5/10/2018	2:20	623.6462469
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LTBR5	5/10/2018	2:35	606.5159792
LTBR5	5/10/2018	2:40	580.7755648
LTBR5	5/10/2018	2:45	551.7257717
LTBR5	5/10/2018	2:50	515.7451836
LTBR5	5/10/2018	2:55	475.4017073
LTBR5	5/10/2018	3:00	436.6168379
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LTBR5	5/10/2018	3:10	368.1653449
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LTBR5	5/10/2018	3:20	309.7464041

LTRB Ponding Areas.inp

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LTBR5	5/10/2018	4:10	114.7730705
LTBR5	5/10/2018	4:15	104.785713
LTBR5	5/10/2018	4:20	95.54087906
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LTBR5	5/10/2018	4:35	69.8928716
LTBR5	5/10/2018	4:40	61.6771025
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LTBR5	5/10/2018	7:20	0

LTRB Ponding Areas.inp

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LTRB Ponding Areas.inp

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LTRB Ponding Areas.inp

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LTRB9	5/10/2018	0:30	41.77393977
LTRB9	5/10/2018	0:35	62.03302683
LTRB9	5/10/2018	0:40	69.41155355
LTRB9	5/10/2018	0:45	70.06781717
LTRB9	5/10/2018	0:50	67.94677816
LTRB9	5/10/2018	0:55	64.44550038
LTRB9	5/10/2018	1:00	61.45401717
LTRB9	5/10/2018	1:05	61.29829149
LTRB9	5/10/2018	1:10	73.64784988
LTRB9	5/10/2018	1:15	133.6523931
LTRB9	5/10/2018	1:20	162.8543483
LTRB9	5/10/2018	1:25	164.1925431
LTRB9	5/10/2018	1:30	154.8700175
LTRB9	5/10/2018	1:35	143.2440135
LTRB9	5/10/2018	1:40	131.1484936
LTRB9	5/10/2018	1:45	122.206464
LTRB9	5/10/2018	1:50	125.4941366
LTRB9	5/10/2018	1:55	174.7354958
LTRB9	5/10/2018	2:00	248.4987755
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LTRB9	5/10/2018	2:40	254.0925587
LTRB9	5/10/2018	2:45	271.867105
LTRB9	5/10/2018	2:50	359.4384947
LTRB9	5/10/2018	2:55	480.4715741
LTRB9	5/10/2018	3:00	574.1426227
LTRB9	5/10/2018	3:05	623.9055291
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LTRB9	5/10/2018	3:25	580.8642556
LTRB9	5/10/2018	3:30	551.8026406
LTRB9	5/10/2018	3:35	516.0127048
LTRB9	5/10/2018	3:40	486.1318014
LTRB9	5/10/2018	3:45	514.7883093
LTRB9	5/10/2018	3:50	571.912969
LTRB9	5/10/2018	3:55	601.6938005
LTRB9	5/10/2018	4:00	601.0475349
LTRB9	5/10/2018	4:05	579.5780596
LTRB9	5/10/2018	4:10	544.0211712

LTRB Ponding Areas.inp

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LTRB9	5/10/2018	4:20	470.951629
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LTRB9	5/10/2018	4:35	357.5050296
LTRB9	5/10/2018	4:40	322.768942
LTRB9	5/10/2018	4:45	290.5354658
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LTRB9	5/10/2018	4:55	234.0052032
LTRB9	5/10/2018	5:00	208.966914
LTRB9	5/10/2018	5:05	188.6148656
LTRB9	5/10/2018	5:10	170.6584066
LTRB9	5/10/2018	5:15	154.0887473
LTRB9	5/10/2018	5:20	138.3783013
LTRB9	5/10/2018	5:25	123.2731435
LTRB9	5/10/2018	5:30	108.590662
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LTRB9	5/10/2018	5:45	67.73605036
LTRB9	5/10/2018	5:50	55.33526687
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LTRB9	5/10/2018	6:00	35.24695129
LTRB9	5/10/2018	6:05	26.47409819
LTRB9	5/10/2018	6:10	18.86102688
LTRB9	5/10/2018	6:15	13.89136064
LTRB9	5/10/2018	6:20	10.49430135
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LTRB9	5/10/2018	6:50	2.847413831
LTRB9	5/10/2018	6:55	2.487442055
LTRB9	5/10/2018	7:00	2.186553091
LTRB9	5/10/2018	7:05	1.898025828
LTRB9	5/10/2018	7:10	1.619328631
LTRB9	5/10/2018	7:15	1.348711692
LTRB9	5/10/2018	7:20	1.084717378
LTRB9	5/10/2018	7:25	0.827429368
LTRB9	5/10/2018	7:30	0.579516766
LTRB9	5/10/2018	7:35	0.378527172
LTRB9	5/10/2018	7:40	0.254775236
LTRB9	5/10/2018	7:45	0.172825304
LTRB9	5/10/2018	7:50	0.113545358
LTRB9	5/10/2018	7:55	0.070773343
LTRB9	5/10/2018	8:00	0.040208679
LTRB9	5/10/2018	8:05	0.019469835
LTRB9	5/10/2018	8:10	0.008593025

LTRB Ponding Areas.inp

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LTRB9	5/10/2018	8:20	0.002764907
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LTRB9	5/10/2018	8:30	0.001685563
LTRB9	5/10/2018	8:35	0.001245453
LTRB9	5/10/2018	8:40	0.000871764
LTRB9	5/10/2018	8:45	0.00056451
LTRB9	5/10/2018	8:50	0.000323702
LTRB9	5/10/2018	8:55	0.000149346
LTRB9	5/10/2018	9:00	4.14447E-05
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LTRB9	5/10/2018	9:10	0
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LTRB9	5/10/2018	10:05	0
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LTRB9	5/10/2018	10:25	0
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LTRB13	5/10/2018	0:20	6.77976661
LTRB13	5/10/2018	0:25	34.57035444
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LTRB13	5/10/2018	0:45	223.8707645
LTRB13	5/10/2018	0:50	212.5505925
LTRB13	5/10/2018	0:55	196.8279778
LTRB13	5/10/2018	1:00	184.6409457
LTRB13	5/10/2018	1:05	186.2375807
LTRB13	5/10/2018	1:10	221.8197067
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LTRB13	5/10/2018	1:20	223.5384551
LTRB13	5/10/2018	1:25	205.6659712
LTRB13	5/10/2018	1:30	187.607365
LTRB13	5/10/2018	1:35	169.2685569

LTRB Ponding Areas.inp

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LTRB13	5/10/2018	1:45	154.8017509
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LTRB13	5/10/2018	2:05	311.6531653
LTRB13	5/10/2018	2:10	290.7930096
LTRB13	5/10/2018	2:15	268.0814184
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LTRB13	5/10/2018	2:25	227.4879724
LTRB13	5/10/2018	2:30	206.2960826
LTRB13	5/10/2018	2:35	181.9685459
LTRB13	5/10/2018	2:40	156.5343197
LTRB13	5/10/2018	2:45	131.2722218
LTRB13	5/10/2018	2:50	109.3270942
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LTRB13	5/10/2018	3:00	80.31470629
LTRB13	5/10/2018	3:05	69.56859931
LTRB13	5/10/2018	3:10	60.11741364
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LTRB13	5/10/2018	3:35	22.81555006
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LTRB13	5/10/2018	4:05	2.251039558
LTRB13	5/10/2018	4:10	1.362441308
LTRB13	5/10/2018	4:15	0.737587593
LTRB13	5/10/2018	4:20	0.377449589
LTRB13	5/10/2018	4:25	0.241399646
LTRB13	5/10/2018	4:30	0.16291885
LTRB13	5/10/2018	4:35	0.129748362
LTRB13	5/10/2018	4:40	0.100341079
LTRB13	5/10/2018	4:45	0.074699906
LTRB13	5/10/2018	4:50	0.052826536
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LTRB13	5/10/2018	5:05	0.009821228
LTRB13	5/10/2018	5:10	0.003025609
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LTRB Ponding Areas.inp

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LTRB Ponding Areas.inp

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LTRB13	5/10/2018	10:20	0
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LTRB12	5/10/2018	0:25	14.25822975
LTRB12	5/10/2018	0:30	68.66013796
LTRB12	5/10/2018	0:35	102.2564429
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LTRB12	5/10/2018	0:45	110.5873341
LTRB12	5/10/2018	0:50	105.5645511
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LTRB12	5/10/2018	1:00	92.42257236
LTRB12	5/10/2018	1:05	102.3920316
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LTRB12	5/10/2018	1:15	257.4903686
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LTRB12	5/10/2018	1:45	221.6098476
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LTRB12	5/10/2018	2:00	154.5074165
LTRB12	5/10/2018	2:05	129.8361906
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LTRB12	5/10/2018	2:15	92.07730772
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LTRB12	5/10/2018	2:25	69.05254012
LTRB12	5/10/2018	2:30	59.73765917
LTRB12	5/10/2018	2:35	51.29704596
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LTRB12	5/10/2018	2:45	36.25064383
LTRB12	5/10/2018	2:50	29.42938164
LTRB12	5/10/2018	2:55	22.80441416
LTRB12	5/10/2018	3:00	16.41508965

LTRB Ponding Areas.inp

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LTRB12	5/10/2018	3:10	7.463622447
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LTRB12	5/10/2018	3:25	2.251039558
LTRB12	5/10/2018	3:30	1.362441308
LTRB12	5/10/2018	3:35	0.737587593
LTRB12	5/10/2018	3:40	0.377449589
LTRB12	5/10/2018	3:45	0.241399646
LTRB12	5/10/2018	3:50	0.16291885
LTRB12	5/10/2018	3:55	0.129748362
LTRB12	5/10/2018	4:00	0.100341079
LTRB12	5/10/2018	4:05	0.074699906
LTRB12	5/10/2018	4:10	0.052826536
LTRB12	5/10/2018	4:15	0.034721956
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LTRB12	5/10/2018	4:30	0.003025609
LTRB12	5/10/2018	4:35	0
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LTRB12	5/10/2018	5:20	0
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LTRB12	5/10/2018	5:30	0
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LTRB12	5/10/2018	5:50	0
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LTRB19	5/10/2018	0:00	0
LTRB19	5/10/2018	0:05	0
LTRB19	5/10/2018	0:10	0.003736805
LTRB19	5/10/2018	0:15	0.047168233
LTRB19	5/10/2018	0:20	0.369766141
LTRB19	5/10/2018	0:25	6.759463591
LTRB19	5/10/2018	0:30	38.01990095
LTRB19	5/10/2018	0:35	59.62792562
LTRB19	5/10/2018	0:40	68.05259917
LTRB19	5/10/2018	0:45	69.2574383
LTRB19	5/10/2018	0:50	67.21692293
LTRB19	5/10/2018	0:55	63.75961497
LTRB19	5/10/2018	1:00	60.16982522

LTRB Ponding Areas.inp

LTRB19	5/10/2018	1:05	58.0411394
LTRB19	5/10/2018	1:10	72.93828283
LTRB19	5/10/2018	1:15	180.4040699
LTRB19	5/10/2018	1:20	306.2199216
LTRB19	5/10/2018	1:25	380.6884999
LTRB19	5/10/2018	1:30	407.5649795
LTRB19	5/10/2018	1:35	408.9454885
LTRB19	5/10/2018	1:40	393.9924963
LTRB19	5/10/2018	1:45	373.6226047
LTRB19	5/10/2018	1:50	357.3979255
LTRB19	5/10/2018	1:55	336.1846251
LTRB19	5/10/2018	2:00	318.4221625
LTRB19	5/10/2018	2:05	330.5556289
LTRB19	5/10/2018	2:10	341.4744906
LTRB19	5/10/2018	2:15	334.0474898
LTRB19	5/10/2018	2:20	318.4805991
LTRB19	5/10/2018	2:25	297.8873077
LTRB19	5/10/2018	2:30	273.8136266
LTRB19	5/10/2018	2:35	251.1256257
LTRB19	5/10/2018	2:40	230.7048446
LTRB19	5/10/2018	2:45	210.5621679
LTRB19	5/10/2018	2:50	191.9680698
LTRB19	5/10/2018	2:55	177.0460423
LTRB19	5/10/2018	3:00	160.9623482
LTRB19	5/10/2018	3:05	144.8980085
LTRB19	5/10/2018	3:10	130.1032978
LTRB19	5/10/2018	3:15	116.7181541
LTRB19	5/10/2018	3:20	104.2977488
LTRB19	5/10/2018	3:25	93.0258382
LTRB19	5/10/2018	3:30	84.81103584
LTRB19	5/10/2018	3:35	81.2549012
LTRB19	5/10/2018	3:40	100.5692338
LTRB19	5/10/2018	3:45	193.28242
LTRB19	5/10/2018	3:50	256.4411891
LTRB19	5/10/2018	3:55	271.0084302
LTRB19	5/10/2018	4:00	260.320274
LTRB19	5/10/2018	4:05	244.1481066
LTRB19	5/10/2018	4:10	224.2282814
LTRB19	5/10/2018	4:15	208.2613384
LTRB19	5/10/2018	4:20	206.3743528
LTRB19	5/10/2018	4:25	238.6978805
LTRB19	5/10/2018	4:30	248.3992158
LTRB19	5/10/2018	4:35	234.6278157
LTRB19	5/10/2018	4:40	214.2252872
LTRB19	5/10/2018	4:45	194.1227869
LTRB19	5/10/2018	4:50	174.4184062
LTRB19	5/10/2018	4:55	157.9184528
LTRB19	5/10/2018	5:00	158.1803542

LTRB Ponding Areas.inp

LTRB19	5/10/2018	5:05	224.120943
LTRB19	5/10/2018	5:10	295.9249351
LTRB19	5/10/2018	5:15	320.3228118
LTRB19	5/10/2018	5:20	313.2208814
LTRB19	5/10/2018	5:25	292.1265529
LTRB19	5/10/2018	5:30	269.210104
LTRB19	5/10/2018	5:35	246.4281849
LTRB19	5/10/2018	5:40	228.25692
LTRB19	5/10/2018	5:45	206.8970262
LTRB19	5/10/2018	5:50	182.4099602
LTRB19	5/10/2018	5:55	156.8324915
LTRB19	5/10/2018	6:00	131.4713524
LTRB19	5/10/2018	6:05	109.4594035
LTRB19	5/10/2018	6:10	93.01451146
LTRB19	5/10/2018	6:15	80.37070013
LTRB19	5/10/2018	6:20	69.60605616
LTRB19	5/10/2018	6:25	60.14120214
LTRB19	5/10/2018	6:30	51.57610469
LTRB19	5/10/2018	6:35	43.69546836
LTRB19	5/10/2018	6:40	36.35424814
LTRB19	5/10/2018	6:45	29.47851198
LTRB19	5/10/2018	6:50	22.82023684
LTRB19	5/10/2018	6:55	16.41862837
LTRB19	5/10/2018	7:00	10.89133144
LTRB19	5/10/2018	7:05	7.465346833
LTRB19	5/10/2018	7:10	5.165375275
LTRB19	5/10/2018	7:15	3.481598767
LTRB19	5/10/2018	7:20	2.251247295
LTRB19	5/10/2018	7:25	1.362464838
LTRB19	5/10/2018	7:30	0.737587593
LTRB19	5/10/2018	7:35	0.377449589
LTRB19	5/10/2018	7:40	0.241399646
LTRB19	5/10/2018	7:45	0.16291885
LTRB19	5/10/2018	7:50	0.129748362
LTRB19	5/10/2018	7:55	0.100341079
LTRB19	5/10/2018	8:00	0.074699906
LTRB19	5/10/2018	8:05	0.052826536
LTRB19	5/10/2018	8:10	0.034721956
LTRB19	5/10/2018	8:15	0.020386742
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LTRB18	5/10/2018	0:00	0
LTRB18	5/10/2018	0:05	0
LTRB18	5/10/2018	0:10	0.003083192
LTRB18	5/10/2018	0:15	0.039722068
LTRB18	5/10/2018	0:20	0.446306422
LTRB18	5/10/2018	0:25	11.56134046
LTRB18	5/10/2018	0:30	72.29412572
LTRB18	5/10/2018	0:35	126.9743695

LTRB Ponding Areas.inp

LTRB18	5/10/2018	0:40	149.9340897
LTRB18	5/10/2018	0:45	153.0643448
LTRB18	5/10/2018	0:50	147.7411906
LTRB18	5/10/2018	0:55	139.0599728
LTRB18	5/10/2018	1:00	129.59642
LTRB18	5/10/2018	1:05	122.7809629
LTRB18	5/10/2018	1:10	112.3370626
LTRB18	5/10/2018	1:15	99.83586067
LTRB18	5/10/2018	1:20	86.25043591
LTRB18	5/10/2018	1:25	72.98507164
LTRB18	5/10/2018	1:30	62.0134708
LTRB18	5/10/2018	1:35	53.71927103
LTRB18	5/10/2018	1:40	47.01960915
LTRB18	5/10/2018	1:45	41.09438259
LTRB18	5/10/2018	1:50	35.75674538
LTRB18	5/10/2018	1:55	30.79740158
LTRB18	5/10/2018	2:00	26.15572628
LTRB18	5/10/2018	2:05	21.7488065
LTRB18	5/10/2018	2:10	17.49211394
LTRB18	5/10/2018	2:15	13.31127511
LTRB18	5/10/2018	2:20	9.323488364
LTRB18	5/10/2018	2:25	6.215366854
LTRB18	5/10/2018	2:30	4.262059081
LTRB18	5/10/2018	2:35	2.923494527
LTRB18	5/10/2018	2:40	1.946116741
LTRB18	5/10/2018	2:45	1.236263554
LTRB18	5/10/2018	2:50	0.725082155
LTRB18	5/10/2018	2:55	0.380537383
LTRB18	5/10/2018	3:00	0.203176936
LTRB18	5/10/2018	3:05	0.129245924
LTRB18	5/10/2018	3:10	0.090794743
LTRB18	5/10/2018	3:15	0.071775791
LTRB18	5/10/2018	3:20	0.054987483
LTRB18	5/10/2018	3:25	0.040431325
LTRB18	5/10/2018	3:30	0.028108195
LTRB18	5/10/2018	3:35	0.018018602
LTRB18	5/10/2018	3:40	0.010162846
LTRB18	5/10/2018	3:45	0.0045411
LTRB18	5/10/2018	3:50	0.001153465
LTRB18	5/10/2018	3:55	0
LTRB18	5/10/2018	4:00	0
LTRB18	5/10/2018	4:05	0
LTRB18	5/10/2018	4:10	0
LTRB18	5/10/2018	4:15	0
LTRB18	5/10/2018	4:20	0
LTRB18	5/10/2018	4:25	0
LTRB18	5/10/2018	4:30	0
LTRB18	5/10/2018	4:35	0

LTRB Ponding Areas.inp

LTRB18	5/10/2018	4:40	0
LTRB18	5/10/2018	4:45	0
LTRB18	5/10/2018	4:50	0
LTRB18	5/10/2018	4:55	0
LTRB18	5/10/2018	5:00	0
LTRB18	5/10/2018	5:05	0
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LTRB18	5/10/2018	5:15	0
LTRB18	5/10/2018	5:20	0
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LTRB18	5/10/2018	6:10	0
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LTRB18	5/10/2018	8:10	0
LTRB18	5/10/2018	8:15	0
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LTRB25	5/10/2018	0:00	0.00
LTRB25	5/10/2018	0:05	0.00
LTRB25	5/10/2018	0:10	0.02

LTRB Ponding Areas.inp

LTRB25	5/10/2018	0:15	0.25
LTRB25	5/10/2018	0:20	7.90
LTRB25	5/10/2018	0:25	56.12
LTRB25	5/10/2018	0:30	129.57
LTRB25	5/10/2018	0:35	186.06
LTRB25	5/10/2018	0:40	215.45
LTRB25	5/10/2018	0:45	227.24
LTRB25	5/10/2018	0:50	225.47
LTRB25	5/10/2018	0:55	217.44
LTRB25	5/10/2018	1:00	210.03
LTRB25	5/10/2018	1:05	199.54
LTRB25	5/10/2018	1:10	184.98
LTRB25	5/10/2018	1:15	169.94
LTRB25	5/10/2018	1:20	155.29
LTRB25	5/10/2018	1:25	141.01
LTRB25	5/10/2018	1:30	127.65
LTRB25	5/10/2018	1:35	115.09
LTRB25	5/10/2018	1:40	102.99
LTRB25	5/10/2018	1:45	91.32
LTRB25	5/10/2018	1:50	80.43
LTRB25	5/10/2018	1:55	72.08
LTRB25	5/10/2018	2:00	65.38
LTRB25	5/10/2018	2:05	59.50
LTRB25	5/10/2018	2:10	54.18
LTRB25	5/10/2018	2:15	49.28
LTRB25	5/10/2018	2:20	44.70
LTRB25	5/10/2018	2:25	40.43
LTRB25	5/10/2018	2:30	36.47
LTRB25	5/10/2018	2:35	32.61
LTRB25	5/10/2018	2:40	28.82
LTRB25	5/10/2018	2:45	25.04
LTRB25	5/10/2018	2:50	21.27
LTRB25	5/10/2018	2:55	17.50
LTRB25	5/10/2018	3:00	13.73
LTRB25	5/10/2018	3:05	9.98
LTRB25	5/10/2018	3:10	6.53
LTRB25	5/10/2018	3:15	4.43
LTRB25	5/10/2018	3:20	3.05
LTRB25	5/10/2018	3:25	2.04
LTRB25	5/10/2018	3:30	1.32
LTRB25	5/10/2018	3:35	0.79
LTRB25	5/10/2018	3:40	0.42
LTRB25	5/10/2018	3:45	0.20
LTRB25	5/10/2018	3:50	0.12
LTRB25	5/10/2018	3:55	0.07
LTRB25	5/10/2018	4:00	0.06
LTRB25	5/10/2018	4:05	0.04
LTRB25	5/10/2018	4:10	0.03

LTRB Ponding Areas.inp

LTRB25	5/10/2018	4:15	0.02
LTRB25	5/10/2018	4:20	0.02
LTRB25	5/10/2018	4:25	0.01
LTRB25	5/10/2018	4:30	0.00
LTRB25	5/10/2018	4:35	0.00
LTRB25	5/10/2018	4:40	0.00
LTRB25	5/10/2018	4:45	0.00
LTRB25	5/10/2018	4:50	0.00
LTRB25	5/10/2018	4:55	0.00
LTRB25	5/10/2018	5:00	0.00
LTRB25	5/10/2018	5:05	0.00
LTRB25	5/10/2018	5:10	0.00
LTRB25	5/10/2018	5:15	0.00
LTRB25	5/10/2018	5:20	0.00
LTRB25	5/10/2018	5:25	0.00
LTRB25	5/10/2018	5:30	0.00
LTRB25	5/10/2018	5:35	0.00
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LTRB25	5/10/2018	5:45	0.00
LTRB25	5/10/2018	5:50	0.00
LTRB25	5/10/2018	5:55	0.00
LTRB25	5/10/2018	6:00	0.00
LTRB25	5/10/2018	6:05	0.00
LTRB25	5/10/2018	6:10	0.00
LTRB25	5/10/2018	6:15	0.00
LTRB25	5/10/2018	6:20	0.00
LTRB25	5/10/2018	6:25	0.00
LTRB25	5/10/2018	6:30	0.00
LTRB25	5/10/2018	6:35	0.00
LTRB25	5/10/2018	6:40	0.00
LTRB25	5/10/2018	6:45	0.00
LTRB25	5/10/2018	6:50	0.00
LTRB25	5/10/2018	6:55	0.00
LTRB25	5/10/2018	7:00	0.00
LTRB25	5/10/2018	7:05	0.00
LTRB25	5/10/2018	7:10	0.00
LTRB25	5/10/2018	7:15	0.00
LTRB25	5/10/2018	7:20	0.00
LTRB25	5/10/2018	7:25	0.00
LTRB25	5/10/2018	7:30	0.00
LTRB25	5/10/2018	7:35	0.00
LTRB25	5/10/2018	7:40	0.00
LTRB25	5/10/2018	7:45	0.00
LTRB25	5/10/2018	7:50	0.00
LTRB25	5/10/2018	7:55	0.00
LTRB25	5/10/2018	8:00	0.00
LTRB25	5/10/2018	8:05	0.00
LTRB25	5/10/2018	8:10	0.00

LTRB Ponding Areas.inp

LTRB25	5/10/2018	8:15	0.00
LTRB25	5/10/2018	8:20	0.00
LTRB25	5/10/2018	8:25	0.00
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LTRB25	5/10/2018	8:35	0.00
LTRB25	5/10/2018	8:40	0.00
LTRB25	5/10/2018	8:45	0.00
LTRB25	5/10/2018	8:50	0.00
LTRB25	5/10/2018	8:55	0.00
LTRB25	5/10/2018	9:00	0.00
LTRB25	5/10/2018	9:05	0.00
LTRB25	5/10/2018	9:10	0.00
LTRB25	5/10/2018	9:15	0.00
LTRB25	5/10/2018	9:20	0.00
LTRB25	5/10/2018	9:25	0.00
LTRB25	5/10/2018	9:30	0.00
LTRB25	5/10/2018	9:35	0.00
LTRB25	5/10/2018	9:40	0.00
LTRB25	5/10/2018	9:45	0.00
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LTRB25	5/10/2018	9:55	0.00
LTRB25	5/10/2018	10:00	0.00
LTRB25	5/10/2018	10:05	0.00
LTRB25	5/10/2018	10:10	0.00
LTRB25	5/10/2018	10:15	0.00
LTRB25	5/10/2018	10:20	0.00
LTRB25	5/10/2018	10:25	0.00
LTRB25	5/10/2018	10:30	0.00
LTRB25	5/10/2018	10:35	0.00
LTRB25	5/10/2018	10:40	0.00
LTRB25	5/10/2018	10:45	0.00
LTRB25	5/10/2018	10:50	0.00
LTRB25	5/10/2018	10:55	0.00
LTRB25	5/10/2018	11:00	0.00
LTRB25	5/10/2018	11:05	0.00
LTRB25	5/10/2018	11:10	0.00
LTRB25	5/10/2018	11:15	0.00
LTRB25	5/10/2018	11:20	0.00
LTRB25	5/10/2018	11:25	0.00
LTRB25	5/10/2018	11:30	0.00
LTRB25	5/10/2018	11:35	0.00
LTRB25	5/10/2018	11:40	0.00
LTRB25	5/10/2018	11:45	0.00
LTRB25	5/10/2018	11:50	0.00
LTRB25	5/10/2018	11:55	0.00
LTRB25	5/10/2018	12:00	0.00
LTRB25	5/10/2018	12:05	0.00
LTRB25	5/10/2018	12:10	0.00

LTRB Ponding Areas.inp

LTRB25	5/10/2018	12:15	0.00
LTRB25	5/10/2018	12:20	0.00
LTRB25	5/10/2018	12:25	0.00
LTRB25	5/10/2018	12:30	0.00
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LTRB21	5/10/2018	0:00	0.00
LTRB21	5/10/2018	0:05	0.00
LTRB21	5/10/2018	0:10	0.10
LTRB21	5/10/2018	0:15	1.28
LTRB21	5/10/2018	0:20	6.33
LTRB21	5/10/2018	0:25	34.65
LTRB21	5/10/2018	0:30	122.84
LTRB21	5/10/2018	0:35	186.40
LTRB21	5/10/2018	0:40	207.56
LTRB21	5/10/2018	0:45	204.93
LTRB21	5/10/2018	0:50	196.34
LTRB21	5/10/2018	0:55	183.48
LTRB21	5/10/2018	1:00	171.36
LTRB21	5/10/2018	1:05	161.71
LTRB21	5/10/2018	1:10	146.10
LTRB21	5/10/2018	1:15	128.42
LTRB21	5/10/2018	1:20	109.55
LTRB21	5/10/2018	1:25	93.18
LTRB21	5/10/2018	1:30	80.66
LTRB21	5/10/2018	1:35	70.62
LTRB21	5/10/2018	1:40	61.89
LTRB21	5/10/2018	1:45	54.01
LTRB21	5/10/2018	1:50	46.74
LTRB21	5/10/2018	1:55	39.89
LTRB21	5/10/2018	2:00	33.47
LTRB21	5/10/2018	2:05	26.73
LTRB21	5/10/2018	2:10	20.00
LTRB21	5/10/2018	2:15	14.03
LTRB21	5/10/2018	2:20	10.12
LTRB21	5/10/2018	2:25	7.44
LTRB21	5/10/2018	2:30	5.44
LTRB21	5/10/2018	2:35	3.93
LTRB21	5/10/2018	2:40	2.78
LTRB21	5/10/2018	2:45	1.91
LTRB21	5/10/2018	2:50	1.31
LTRB21	5/10/2018	2:55	0.99
LTRB21	5/10/2018	3:00	0.76
LTRB21	5/10/2018	3:05	0.61
LTRB21	5/10/2018	3:10	0.48
LTRB21	5/10/2018	3:15	0.36
LTRB21	5/10/2018	3:20	0.26
LTRB21	5/10/2018	3:25	0.17
LTRB21	5/10/2018	3:30	0.10

LTRB Ponding Areas.inp

LTRB21	5/10/2018	3:35	0.05
LTRB21	5/10/2018	3:40	0.02
LTRB21	5/10/2018	3:45	0.00
LTRB21	5/10/2018	3:50	0.00
LTRB21	5/10/2018	3:55	0.00
LTRB21	5/10/2018	4:00	0.00
LTRB21	5/10/2018	4:05	0.00
LTRB21	5/10/2018	4:10	0.00
LTRB21	5/10/2018	4:15	0.00
LTRB21	5/10/2018	4:20	0.00
LTRB21	5/10/2018	4:25	0.00
LTRB21	5/10/2018	4:30	0.00
LTRB21	5/10/2018	4:35	0.00
LTRB21	5/10/2018	4:40	0.00
LTRB21	5/10/2018	4:45	0.00
LTRB21	5/10/2018	4:50	0.00
LTRB21	5/10/2018	4:55	0.00
LTRB21	5/10/2018	5:00	0.00
LTRB21	5/10/2018	5:05	0.00
LTRB21	5/10/2018	5:10	0.00
LTRB21	5/10/2018	5:15	0.00
LTRB21	5/10/2018	5:20	0.00
LTRB21	5/10/2018	5:25	0.00
LTRB21	5/10/2018	5:30	0.00
LTRB21	5/10/2018	5:35	0.00
LTRB21	5/10/2018	5:40	0.00
LTRB21	5/10/2018	5:45	0.00
LTRB21	5/10/2018	5:50	0.00
LTRB21	5/10/2018	5:55	0.00
LTRB21	5/10/2018	6:00	0.00
LTRB21	5/10/2018	6:05	0.00
LTRB21	5/10/2018	6:10	0.00
LTRB21	5/10/2018	6:15	0.00
LTRB21	5/10/2018	6:20	0.00
LTRB21	5/10/2018	6:25	0.00
LTRB21	5/10/2018	6:30	0.00
LTRB21	5/10/2018	6:35	0.00
LTRB21	5/10/2018	6:40	0.00
LTRB21	5/10/2018	6:45	0.00
LTRB21	5/10/2018	6:50	0.00
LTRB21	5/10/2018	6:55	0.00
LTRB21	5/10/2018	7:00	0.00
LTRB21	5/10/2018	7:05	0.00
LTRB21	5/10/2018	7:10	0.00
LTRB21	5/10/2018	7:15	0.00
LTRB21	5/10/2018	7:20	0.00
;			
ltrb23	5/10/2018	0:00	0.00

LTRB Ponding Areas.inp

ltrb23	5/10/2018	0:05	0.00
ltrb23	5/10/2018	0:10	0.04
ltrb23	5/10/2018	0:15	0.54
ltrb23	5/10/2018	0:20	2.18
ltrb23	5/10/2018	0:25	9.28
ltrb23	5/10/2018	0:30	30.10
ltrb23	5/10/2018	0:35	47.71
ltrb23	5/10/2018	0:40	56.32
ltrb23	5/10/2018	0:45	60.38
ltrb23	5/10/2018	0:50	61.61
ltrb23	5/10/2018	0:55	60.59
ltrb23	5/10/2018	1:00	59.09
ltrb23	5/10/2018	1:05	57.84
ltrb23	5/10/2018	1:10	55.10
ltrb23	5/10/2018	1:15	51.66
ltrb23	5/10/2018	1:20	47.94
ltrb23	5/10/2018	1:25	44.49
ltrb23	5/10/2018	1:30	41.33
ltrb23	5/10/2018	1:35	38.37
ltrb23	5/10/2018	1:40	35.57
ltrb23	5/10/2018	1:45	32.88
ltrb23	5/10/2018	1:50	30.25
ltrb23	5/10/2018	1:55	27.69
ltrb23	5/10/2018	2:00	25.22
ltrb23	5/10/2018	2:05	22.76
ltrb23	5/10/2018	2:10	20.77
ltrb23	5/10/2018	2:15	19.09
ltrb23	5/10/2018	2:20	17.58
ltrb23	5/10/2018	2:25	16.20
ltrb23	5/10/2018	2:30	14.93
ltrb23	5/10/2018	2:35	13.74
ltrb23	5/10/2018	2:40	12.63
ltrb23	5/10/2018	2:45	11.60
ltrb23	5/10/2018	2:50	10.59
ltrb23	5/10/2018	2:55	9.61
ltrb23	5/10/2018	3:00	8.64
ltrb23	5/10/2018	3:05	7.68
ltrb23	5/10/2018	3:10	6.72
ltrb23	5/10/2018	3:15	5.77
ltrb23	5/10/2018	3:20	4.82
ltrb23	5/10/2018	3:25	3.89
ltrb23	5/10/2018	3:30	2.98
ltrb23	5/10/2018	3:35	2.16
ltrb23	5/10/2018	3:40	1.57
ltrb23	5/10/2018	3:45	1.18
ltrb23	5/10/2018	3:50	0.89
ltrb23	5/10/2018	3:55	0.67
ltrb23	5/10/2018	4:00	0.50

LTRB Ponding Areas.inp

ltrb23	5/10/2018	4:05	0.36
ltrb23	5/10/2018	4:10	0.27
ltrb23	5/10/2018	4:15	0.20
ltrb23	5/10/2018	4:20	0.16
ltrb23	5/10/2018	4:25	0.13
ltrb23	5/10/2018	4:30	0.10
ltrb23	5/10/2018	4:35	0.08
ltrb23	5/10/2018	4:40	0.06
ltrb23	5/10/2018	4:45	0.04
ltrb23	5/10/2018	4:50	0.02
ltrb23	5/10/2018	4:55	0.01
ltrb23	5/10/2018	5:00	0.01
ltrb23	5/10/2018	5:05	0.00
ltrb23	5/10/2018	5:10	0.00
ltrb23	5/10/2018	5:15	0.00
ltrb23	5/10/2018	5:20	0.00
ltrb23	5/10/2018	5:25	0.00
ltrb23	5/10/2018	5:30	0.00
ltrb23	5/10/2018	5:35	0.00
ltrb23	5/10/2018	5:40	0.00
ltrb23	5/10/2018	5:45	0.00
ltrb23	5/10/2018	5:50	0.00
ltrb23	5/10/2018	5:55	0.00
ltrb23	5/10/2018	6:00	0.00
ltrb23	5/10/2018	6:05	0.00
ltrb23	5/10/2018	6:10	0.00
ltrb23	5/10/2018	6:15	0.00
ltrb23	5/10/2018	6:20	0.00
ltrb23	5/10/2018	6:25	0.00
ltrb23	5/10/2018	6:30	0.00
ltrb23	5/10/2018	6:35	0.00
ltrb23	5/10/2018	6:40	0.00
ltrb23	5/10/2018	6:45	0.00
ltrb23	5/10/2018	6:50	0.00
ltrb23	5/10/2018	6:55	0.00
ltrb23	5/10/2018	7:00	0.00
ltrb23	5/10/2018	7:05	0.00
ltrb23	5/10/2018	7:10	0.00
ltrb23	5/10/2018	7:15	0.00
ltrb23	5/10/2018	7:20	0.00
ltrb23	5/10/2018	7:25	0
ltrb23	5/10/2018	7:30	0
ltrb23	5/10/2018	7:35	0
ltrb23	5/10/2018	7:40	0
ltrb23	5/10/2018	7:45	0
ltrb23	5/10/2018	7:50	0
ltrb23	5/10/2018	7:55	0
ltrb23	5/10/2018	8:00	0

LTRB Ponding Areas.inp

ltrb23	5/10/2018	8:05	0
ltrb23	5/10/2018	8:10	0
ltrb23	5/10/2018	8:15	0
ltrb23	5/10/2018	8:20	0
ltrb23	5/10/2018	8:25	0
ltrb23	5/10/2018	8:30	0
ltrb23	5/10/2018	8:35	0
ltrb23	5/10/2018	8:40	0
ltrb23	5/10/2018	8:45	0
ltrb23	5/10/2018	8:50	0
ltrb23	5/10/2018	8:55	0
ltrb23	5/10/2018	9:00	0
ltrb23	5/10/2018	9:05	0
ltrb23	5/10/2018	9:10	0
ltrb23	5/10/2018	9:15	0
ltrb23	5/10/2018	9:20	0
ltrb23	5/10/2018	9:25	0
ltrb23	5/10/2018	9:30	0
ltrb23	5/10/2018	9:35	0
ltrb23	5/10/2018	9:40	0
ltrb23	5/10/2018	9:45	0
ltrb23	5/10/2018	9:50	0
ltrb23	5/10/2018	9:55	0
ltrb23	5/10/2018	10:00	0
ltrb23	5/10/2018	10:05	0
ltrb23	5/10/2018	10:10	0
ltrb23	5/10/2018	10:15	0
ltrb23	5/10/2018	10:20	0
ltrb23	5/10/2018	10:25	0
ltrb23	5/10/2018	10:30	0
ltrb23	5/10/2018	10:35	0
ltrb23	5/10/2018	10:40	0
ltrb23	5/10/2018	10:45	0
ltrb23	5/10/2018	10:50	0
ltrb23	5/10/2018	10:55	0
ltrb23	5/10/2018	11:00	0
ltrb23	5/10/2018	11:05	0
ltrb23	5/10/2018	11:10	0
ltrb23	5/10/2018	11:15	0
ltrb23	5/10/2018	11:20	0
ltrb23	5/10/2018	11:25	0
ltrb23	5/10/2018	11:30	0
ltrb23	5/10/2018	11:35	0
ltrb23	5/10/2018	11:40	0
ltrb23	5/10/2018	11:45	0
ltrb23	5/10/2018	11:50	0
ltrb23	5/10/2018	11:55	0
ltrb23	5/10/2018	12:00	0

LTRB Ponding Areas.inp

ltrb23	5/10/2018	12:05	0
ltrb23	5/10/2018	12:10	0
ltrb23	5/10/2018	12:15	0
ltrb23	5/10/2018	12:20	0
ltrb23	5/10/2018	12:25	0
ltrb23	5/10/2018	12:30	0
;			
LTRB3	5/10/2018	0:00	0.00
LTRB3	5/10/2018	0:05	0.00
LTRB3	5/10/2018	0:10	0.01
LTRB3	5/10/2018	0:15	0.08
LTRB3	5/10/2018	0:20	0.64
LTRB3	5/10/2018	0:25	10.84
LTRB3	5/10/2018	0:30	69.99
LTRB3	5/10/2018	0:35	167.49
LTRB3	5/10/2018	0:40	252.25
LTRB3	5/10/2018	0:45	303.38
LTRB3	5/10/2018	0:50	328.79
LTRB3	5/10/2018	0:55	334.74
LTRB3	5/10/2018	1:00	326.23
LTRB3	5/10/2018	1:05	316.31
LTRB3	5/10/2018	1:10	303.84
LTRB3	5/10/2018	1:15	285.97
LTRB3	5/10/2018	1:20	274.50
LTRB3	5/10/2018	1:25	320.68
LTRB3	5/10/2018	1:30	393.53
LTRB3	5/10/2018	1:35	437.32
LTRB3	5/10/2018	1:40	449.37
LTRB3	5/10/2018	1:45	439.91
LTRB3	5/10/2018	1:50	415.85
LTRB3	5/10/2018	1:55	390.30
LTRB3	5/10/2018	2:00	364.89
LTRB3	5/10/2018	2:05	336.09
LTRB3	5/10/2018	2:10	308.84
LTRB3	5/10/2018	2:15	282.15
LTRB3	5/10/2018	2:20	255.58
LTRB3	5/10/2018	2:25	230.21
LTRB3	5/10/2018	2:30	206.66
LTRB3	5/10/2018	2:35	184.19
LTRB3	5/10/2018	2:40	163.56
LTRB3	5/10/2018	2:45	147.24
LTRB3	5/10/2018	2:50	132.98
LTRB3	5/10/2018	2:55	119.89
LTRB3	5/10/2018	3:00	107.48
LTRB3	5/10/2018	3:05	95.58
LTRB3	5/10/2018	3:10	84.06
LTRB3	5/10/2018	3:15	72.93
LTRB3	5/10/2018	3:20	62.22

LTRB Ponding Areas.inp

LTRB3	5/10/2018	3:25	51.76
LTRB3	5/10/2018	3:30	41.84
LTRB3	5/10/2018	3:35	33.62
LTRB3	5/10/2018	3:40	26.50
LTRB3	5/10/2018	3:45	20.01
LTRB3	5/10/2018	3:50	14.51
LTRB3	5/10/2018	3:55	10.93
LTRB3	5/10/2018	4:00	8.43
LTRB3	5/10/2018	4:05	6.60
LTRB3	5/10/2018	4:10	5.32
LTRB3	5/10/2018	4:15	4.35
LTRB3	5/10/2018	4:20	3.62
LTRB3	5/10/2018	4:25	3.09
LTRB3	5/10/2018	4:30	2.73
LTRB3	5/10/2018	4:35	2.41
LTRB3	5/10/2018	4:40	2.14
LTRB3	5/10/2018	4:45	1.86
LTRB3	5/10/2018	4:50	1.59
LTRB3	5/10/2018	4:55	1.33
LTRB3	5/10/2018	5:00	1.07
LTRB3	5/10/2018	5:05	0.82
LTRB3	5/10/2018	5:10	0.58
LTRB3	5/10/2018	5:15	0.38
LTRB3	5/10/2018	5:20	0.25
LTRB3	5/10/2018	5:25	0.17
LTRB3	5/10/2018	5:30	0.11
LTRB3	5/10/2018	5:35	0.07
LTRB3	5/10/2018	5:40	0.04
LTRB3	5/10/2018	5:45	0.02
LTRB3	5/10/2018	5:50	0.01
LTRB3	5/10/2018	5:55	0.00
LTRB3	5/10/2018	6:00	0.00
LTRB3	5/10/2018	6:05	0.00
LTRB3	5/10/2018	6:10	0.00
LTRB3	5/10/2018	6:15	0.00
LTRB3	5/10/2018	6:20	0.00
LTRB3	5/10/2018	6:25	0.00
LTRB3	5/10/2018	6:30	0.00
LTRB3	5/10/2018	6:35	0.00
LTRB3	5/10/2018	6:40	0.00
LTRB3	5/10/2018	6:45	0.00
LTRB3	5/10/2018	6:50	0.00
LTRB3	5/10/2018	6:55	0.00
LTRB3	5/10/2018	7:00	0.00
LTRB3	5/10/2018	7:05	0.00
LTRB3	5/10/2018	7:10	0.00
LTRB3	5/10/2018	7:15	0.00
LTRB3	5/10/2018	7:20	0.00

LTRB Ponding Areas.inp

LTRB3	5/10/2018	7:25	0
LTRB3	5/10/2018	7:30	0
LTRB3	5/10/2018	7:35	0
LTRB3	5/10/2018	7:40	0
LTRB3	5/10/2018	7:45	0
LTRB3	5/10/2018	7:50	0
LTRB3	5/10/2018	7:55	0
LTRB3	5/10/2018	8:00	0
LTRB3	5/10/2018	8:05	0
LTRB3	5/10/2018	8:10	0
LTRB3	5/10/2018	8:15	0
LTRB3	5/10/2018	8:20	0
LTRB3	5/10/2018	8:25	0
LTRB3	5/10/2018	8:30	0
LTRB3	5/10/2018	8:35	0
LTRB3	5/10/2018	8:40	0
LTRB3	5/10/2018	8:45	0
LTRB3	5/10/2018	8:50	0
LTRB3	5/10/2018	8:55	0
LTRB3	5/10/2018	9:00	0
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LTRB3	5/10/2018	9:10	0
LTRB3	5/10/2018	9:15	0
LTRB3	5/10/2018	9:20	0
LTRB3	5/10/2018	9:25	0
LTRB3	5/10/2018	9:30	0
LTRB3	5/10/2018	9:35	0
LTRB3	5/10/2018	9:40	0
LTRB3	5/10/2018	9:45	0
LTRB3	5/10/2018	9:50	0
LTRB3	5/10/2018	9:55	0
LTRB3	5/10/2018	10:00	0
LTRB3	5/10/2018	10:05	0
LTRB3	5/10/2018	10:10	0
LTRB3	5/10/2018	10:15	0
LTRB3	5/10/2018	10:20	0
LTRB3	5/10/2018	10:25	0
LTRB3	5/10/2018	10:30	0
LTRB3	5/10/2018	10:35	0
LTRB3	5/10/2018	10:40	0
LTRB3	5/10/2018	10:45	0
LTRB3	5/10/2018	10:50	0
LTRB3	5/10/2018	10:55	0
LTRB3	5/10/2018	11:00	0
LTRB3	5/10/2018	11:05	0
LTRB3	5/10/2018	11:10	0
LTRB3	5/10/2018	11:15	0
LTRB3	5/10/2018	11:20	0

LTRB Ponding Areas.inp

LTRB3	5/10/2018	11:25	0
LTRB3	5/10/2018	11:30	0
LTRB3	5/10/2018	11:35	0
LTRB3	5/10/2018	11:40	0
LTRB3	5/10/2018	11:45	0
LTRB3	5/10/2018	11:50	0
LTRB3	5/10/2018	11:55	0
LTRB3	5/10/2018	12:00	0
LTRB3	5/10/2018	12:05	0
LTRB3	5/10/2018	12:10	0
LTRB3	5/10/2018	12:15	0
LTRB3	5/10/2018	12:20	0
LTRB3	5/10/2018	12:25	0
LTRB3	5/10/2018	12:30	0
;			
LTRB14	5/10/2018	0:00	0
LTRB14	5/10/2018	0:05	0
LTRB14	5/10/2018	0:10	0.001287041
LTRB14	5/10/2018	0:15	0.015983671
LTRB14	5/10/2018	0:20	0.082336957
LTRB14	5/10/2018	0:25	0.952177342
LTRB14	5/10/2018	0:30	4.586894259
LTRB14	5/10/2018	0:35	6.499374548
LTRB14	5/10/2018	0:40	7.343517726
LTRB14	5/10/2018	0:45	7.742140634
LTRB14	5/10/2018	0:50	7.787214804
LTRB14	5/10/2018	0:55	7.584079204
LTRB14	5/10/2018	1:00	7.545636299
LTRB14	5/10/2018	1:05	8.820839029
LTRB14	5/10/2018	1:10	13.58430139
LTRB14	5/10/2018	1:15	40.90725996
LTRB14	5/10/2018	1:20	141.3538872
LTRB14	5/10/2018	1:25	211.8866247
LTRB14	5/10/2018	1:30	233.4097683
LTRB14	5/10/2018	1:35	228.4604645
LTRB14	5/10/2018	1:40	216.7662829
LTRB14	5/10/2018	1:45	200.6815703
LTRB14	5/10/2018	1:50	188.1411129
LTRB14	5/10/2018	1:55	189.3940172
LTRB14	5/10/2018	2:00	224.6514836
LTRB14	5/10/2018	2:05	237.1058806
LTRB14	5/10/2018	2:10	225.886134
LTRB14	5/10/2018	2:15	207.8240375
LTRB14	5/10/2018	2:20	189.5941329
LTRB14	5/10/2018	2:25	171.0981724
LTRB14	5/10/2018	2:30	155.44927
LTRB14	5/10/2018	2:35	156.3479836
LTRB14	5/10/2018	2:40	222.7734884

LTRB Ponding Areas.inp

LTRB14	5/10/2018	2:45	294.948911
LTRB14	5/10/2018	2:50	319.625043
LTRB14	5/10/2018	2:55	312.7079532
LTRB14	5/10/2018	3:00	291.7281101
LTRB14	5/10/2018	3:05	268.8971527
LTRB14	5/10/2018	3:10	246.1799682
LTRB14	5/10/2018	3:15	228.0659503
LTRB14	5/10/2018	3:20	206.7558139
LTRB14	5/10/2018	3:25	182.311014
LTRB14	5/10/2018	3:30	156.7683197
LTRB14	5/10/2018	3:35	131.4344626
LTRB14	5/10/2018	3:40	109.4423031
LTRB14	5/10/2018	3:45	93.00970766
LTRB14	5/10/2018	3:50	80.37070013
LTRB14	5/10/2018	3:55	69.60605616
LTRB14	5/10/2018	4:00	60.14120214
LTRB14	5/10/2018	4:05	51.57610469
LTRB14	5/10/2018	4:10	43.69546836
LTRB14	5/10/2018	4:15	36.35424814
LTRB14	5/10/2018	4:20	29.47851198
LTRB14	5/10/2018	4:25	22.82023684
LTRB14	5/10/2018	4:30	16.41862837
LTRB14	5/10/2018	4:35	10.89133144
LTRB14	5/10/2018	4:40	7.465346833
LTRB14	5/10/2018	4:45	5.165375275
LTRB14	5/10/2018	4:50	3.481598767
LTRB14	5/10/2018	4:55	2.251247295
LTRB14	5/10/2018	5:00	1.362464838
LTRB14	5/10/2018	5:05	0.737587593
LTRB14	5/10/2018	5:10	0.377449589
LTRB14	5/10/2018	5:15	0.241399646
LTRB14	5/10/2018	5:20	0.16291885
LTRB14	5/10/2018	5:25	0.129748362
LTRB14	5/10/2018	5:30	0.100341079
LTRB14	5/10/2018	5:35	0.074699906
LTRB14	5/10/2018	5:40	0.052826536
LTRB14	5/10/2018	5:45	0.034721956
LTRB14	5/10/2018	5:50	0.020386742
LTRB14	5/10/2018	5:55	0.009821228
LTRB14	5/10/2018	6:00	0.003025609
LTRB14	5/10/2018	6:05	0
LTRB14	5/10/2018	6:10	0
LTRB14	5/10/2018	6:15	0
LTRB14	5/10/2018	6:20	0
LTRB14	5/10/2018	6:25	0
LTRB14	5/10/2018	6:30	0
LTRB14	5/10/2018	6:35	0
LTRB14	5/10/2018	6:40	0

LTRB Ponding Areas.inp

LTRB14	5/10/2018	6:45	0
LTRB14	5/10/2018	6:50	0
LTRB14	5/10/2018	6:55	0
LTRB14	5/10/2018	7:00	0
LTRB14	5/10/2018	7:05	0
LTRB14	5/10/2018	7:10	0
LTRB14	5/10/2018	7:15	0
LTRB14	5/10/2018	7:20	0
LTRB14	5/10/2018	7:25	0
LTRB14	5/10/2018	7:30	0
LTRB14	5/10/2018	7:35	0
LTRB14	5/10/2018	7:40	0
LTRB14	5/10/2018	7:45	0
LTRB14	5/10/2018	7:50	0
LTRB14	5/10/2018	7:55	0
LTRB14	5/10/2018	8:00	0
LTRB14	5/10/2018	8:05	0
LTRB14	5/10/2018	8:10	0
LTRB14	5/10/2018	8:15	0
LTRB14	5/10/2018	8:20	0
LTRB14	5/10/2018	8:25	0
LTRB14	5/10/2018	8:30	0
LTRB14	5/10/2018	8:35	0
LTRB14	5/10/2018	8:40	0
LTRB14	5/10/2018	8:45	0
LTRB14	5/10/2018	8:50	0
LTRB14	5/10/2018	8:55	0
LTRB14	5/10/2018	9:00	0
LTRB14	5/10/2018	9:05	0
LTRB14	5/10/2018	9:10	0
LTRB14	5/10/2018	9:15	0
LTRB14	5/10/2018	9:20	0
LTRB14	5/10/2018	9:25	0
LTRB14	5/10/2018	9:30	0
LTRB14	5/10/2018	9:35	0
LTRB14	5/10/2018	9:40	0
LTRB14	5/10/2018	9:45	0
LTRB14	5/10/2018	9:50	0
LTRB14	5/10/2018	9:55	0
LTRB14	5/10/2018	10:00	0
LTRB14	5/10/2018	10:05	0
LTRB14	5/10/2018	10:10	0
LTRB14	5/10/2018	10:15	0
LTRB14	5/10/2018	10:20	0
LTRB14	5/10/2018	10:25	0
LTRB14	5/10/2018	10:30	0
LTRB14	5/10/2018	10:35	0
LTRB14	5/10/2018	10:40	0

LTRB Ponding Areas.inp

LTRB14	5/10/2018	10:45	0
LTRB14	5/10/2018	10:50	0
LTRB14	5/10/2018	10:55	0
LTRB14	5/10/2018	11:00	0
LTRB14	5/10/2018	11:05	0
LTRB14	5/10/2018	11:10	0
LTRB14	5/10/2018	11:15	0
LTRB14	5/10/2018	11:20	0
LTRB14	5/10/2018	11:25	0
LTRB14	5/10/2018	11:30	0
LTRB14	5/10/2018	11:35	0
LTRB14	5/10/2018	11:40	0
LTRB14	5/10/2018	11:45	0
LTRB14	5/10/2018	11:50	0
LTRB14	5/10/2018	11:55	0
LTRB14	5/10/2018	12:00	0
LTRB14	5/10/2018	12:05	0
LTRB14	5/10/2018	12:10	0
LTRB14	5/10/2018	12:15	0
LTRB14	5/10/2018	12:20	0
LTRB14	5/10/2018	12:25	0
LTRB14	5/10/2018	12:30	0
;			
LTRB17	5/10/2018	0:00	0
LTRB17	5/10/2018	0:05	0
LTRB17	5/10/2018	0:10	0.002417616
LTRB17	5/10/2018	0:15	0.032971943
LTRB17	5/10/2018	0:20	0.367100818
LTRB17	5/10/2018	0:25	8.974942219
LTRB17	5/10/2018	0:30	60.91096103
LTRB17	5/10/2018	0:35	137.8054332
LTRB17	5/10/2018	0:40	194.9477421
LTRB17	5/10/2018	0:45	223.9167099
LTRB17	5/10/2018	0:50	234.7176525
LTRB17	5/10/2018	0:55	231.5839808
LTRB17	5/10/2018	1:00	223.3390799
LTRB17	5/10/2018	1:05	216.2948172
LTRB17	5/10/2018	1:10	207.6845598
LTRB17	5/10/2018	1:15	204.4387769
LTRB17	5/10/2018	1:20	232.1111963
LTRB17	5/10/2018	1:25	258.1322483
LTRB17	5/10/2018	1:30	263.4542727
LTRB17	5/10/2018	1:35	257.9215975
LTRB17	5/10/2018	1:40	245.7474456
LTRB17	5/10/2018	1:45	229.215283
LTRB17	5/10/2018	1:50	212.9889063
LTRB17	5/10/2018	1:55	198.253145
LTRB17	5/10/2018	2:00	183.2672594

LTRB Ponding Areas.inp

LTRB17	5/10/2018	2:05	169.4576702
LTRB17	5/10/2018	2:10	159.0667634
LTRB17	5/10/2018	2:15	147.3620805
LTRB17	5/10/2018	2:20	135.4136929
LTRB17	5/10/2018	2:25	123.7870988
LTRB17	5/10/2018	2:30	112.386868
LTRB17	5/10/2018	2:35	101.3213247
LTRB17	5/10/2018	2:40	91.03820404
LTRB17	5/10/2018	2:45	83.54328529
LTRB17	5/10/2018	2:50	80.50697996
LTRB17	5/10/2018	2:55	100.1731223
LTRB17	5/10/2018	3:00	193.0695507
LTRB17	5/10/2018	3:05	256.3067492
LTRB17	5/10/2018	3:10	270.9155563
LTRB17	5/10/2018	3:15	260.2481504
LTRB17	5/10/2018	3:20	244.0931191
LTRB17	5/10/2018	3:25	224.1878501
LTRB17	5/10/2018	3:30	208.2332302
LTRB17	5/10/2018	3:35	206.3563342
LTRB17	5/10/2018	3:40	238.6877176
LTRB17	5/10/2018	3:45	248.3946747
LTRB17	5/10/2018	3:50	234.6266622
LTRB17	5/10/2018	3:55	214.2252872
LTRB17	5/10/2018	4:00	194.1227869
LTRB17	5/10/2018	4:05	174.4184062
LTRB17	5/10/2018	4:10	157.9184528
LTRB17	5/10/2018	4:15	158.1803542
LTRB17	5/10/2018	4:20	224.120943
LTRB17	5/10/2018	4:25	295.9249351
LTRB17	5/10/2018	4:30	320.3228118
LTRB17	5/10/2018	4:35	313.2208814
LTRB17	5/10/2018	4:40	292.1265529
LTRB17	5/10/2018	4:45	269.210104
LTRB17	5/10/2018	4:50	246.4281849
LTRB17	5/10/2018	4:55	228.25692
LTRB17	5/10/2018	5:00	206.8970262
LTRB17	5/10/2018	5:05	182.4099602
LTRB17	5/10/2018	5:10	156.8324915
LTRB17	5/10/2018	5:15	131.4713524
LTRB17	5/10/2018	5:20	109.4594035
LTRB17	5/10/2018	5:25	93.01451146
LTRB17	5/10/2018	5:30	80.37070013
LTRB17	5/10/2018	5:35	69.60605616
LTRB17	5/10/2018	5:40	60.14120214
LTRB17	5/10/2018	5:45	51.57610469
LTRB17	5/10/2018	5:50	43.69546836
LTRB17	5/10/2018	5:55	36.35424814
LTRB17	5/10/2018	6:00	29.47851198

LTRB Ponding Areas.inp

LTRB17	5/10/2018	6:05	22.82023684
LTRB17	5/10/2018	6:10	16.41862837
LTRB17	5/10/2018	6:15	10.89133144
LTRB17	5/10/2018	6:20	7.465346833
LTRB17	5/10/2018	6:25	5.165375275
LTRB17	5/10/2018	6:30	3.481598767
LTRB17	5/10/2018	6:35	2.251247295
LTRB17	5/10/2018	6:40	1.362464838
LTRB17	5/10/2018	6:45	0.737587593
LTRB17	5/10/2018	6:50	0.377449589
LTRB17	5/10/2018	6:55	0.241399646
LTRB17	5/10/2018	7:00	0.16291885
LTRB17	5/10/2018	7:05	0.129748362
LTRB17	5/10/2018	7:10	0.100341079
LTRB17	5/10/2018	7:15	0.074699906
LTRB17	5/10/2018	7:20	0.052826536
LTRB17	5/10/2018	7:25	0.034721956
LTRB17	5/10/2018	7:30	0.020386742
LTRB17	5/10/2018	7:35	0.009821228
LTRB17	5/10/2018	7:40	0.003025609
LTRB17	5/10/2018	7:45	0
LTRB17	5/10/2018	7:50	0
LTRB17	5/10/2018	7:55	0
LTRB17	5/10/2018	8:00	0
LTRB17	5/10/2018	8:05	0
LTRB17	5/10/2018	8:10	0
LTRB17	5/10/2018	8:15	0
LTRB17	5/10/2018	8:20	0
LTRB17	5/10/2018	8:25	0
LTRB17	5/10/2018	8:30	0
LTRB17	5/10/2018	8:35	0
LTRB17	5/10/2018	8:40	0
LTRB17	5/10/2018	8:45	0
LTRB17	5/10/2018	8:50	0
LTRB17	5/10/2018	8:55	0
LTRB17	5/10/2018	9:00	0
LTRB17	5/10/2018	9:05	0
LTRB17	5/10/2018	9:10	0
LTRB17	5/10/2018	9:15	0
LTRB17	5/10/2018	9:20	0
LTRB17	5/10/2018	9:25	0
LTRB17	5/10/2018	9:30	0
LTRB17	5/10/2018	9:35	0
LTRB17	5/10/2018	9:40	0
LTRB17	5/10/2018	9:45	0
LTRB17	5/10/2018	9:50	0
LTRB17	5/10/2018	9:55	0
LTRB17	5/10/2018	10:00	0

LTRB Ponding Areas.inp

LTRB17	5/10/2018	10:05	0
LTRB17	5/10/2018	10:10	0
LTRB17	5/10/2018	10:15	0
LTRB17	5/10/2018	10:20	0
LTRB17	5/10/2018	10:25	0
LTRB17	5/10/2018	10:30	0
LTRB17	5/10/2018	10:35	0
LTRB17	5/10/2018	10:40	0
LTRB17	5/10/2018	10:45	0
LTRB17	5/10/2018	10:50	0
LTRB17	5/10/2018	10:55	0
LTRB17	5/10/2018	11:00	0
LTRB17	5/10/2018	11:05	0
LTRB17	5/10/2018	11:10	0
LTRB17	5/10/2018	11:15	0
LTRB17	5/10/2018	11:20	0
LTRB17	5/10/2018	11:25	0
LTRB17	5/10/2018	11:30	0
LTRB17	5/10/2018	11:35	0
LTRB17	5/10/2018	11:40	0
LTRB17	5/10/2018	11:45	0
LTRB17	5/10/2018	11:50	0
LTRB17	5/10/2018	11:55	0
LTRB17	5/10/2018	12:00	0
LTRB17	5/10/2018	12:05	0
LTRB17	5/10/2018	12:10	0
LTRB17	5/10/2018	12:15	0
LTRB17	5/10/2018	12:20	0
LTRB17	5/10/2018	12:25	0
LTRB17	5/10/2018	12:30	0
;			
LTRB20	5/10/2018	0:00	0
LTRB20	5/10/2018	0:05	0
LTRB20	5/10/2018	0:10	0.000523534
LTRB20	5/10/2018	0:15	0.006490528
LTRB20	5/10/2018	0:20	0.0615172
LTRB20	5/10/2018	0:25	1.389533099
LTRB20	5/10/2018	0:30	7.931198802
LTRB20	5/10/2018	0:35	11.19637447
LTRB20	5/10/2018	0:40	12.31955472
LTRB20	5/10/2018	0:45	12.44542724
LTRB20	5/10/2018	0:50	12.12649128
LTRB20	5/10/2018	0:55	11.55220591
LTRB20	5/10/2018	1:00	10.98017138
LTRB20	5/10/2018	1:05	10.50925135
LTRB20	5/10/2018	1:10	9.586338422
LTRB20	5/10/2018	1:15	8.704354409
LTRB20	5/10/2018	1:20	7.70523741

LTRB Ponding Areas.inp

LTRB20	5/10/2018	1:25	6.756398281
LTRB20	5/10/2018	1:30	5.850173962
LTRB20	5/10/2018	1:35	5.038969654
LTRB20	5/10/2018	1:40	4.443204438
LTRB20	5/10/2018	1:45	3.960794693
LTRB20	5/10/2018	1:50	3.537255601
LTRB20	5/10/2018	1:55	3.155243987
LTRB20	5/10/2018	2:00	2.802593189
LTRB20	5/10/2018	2:05	2.460030057
LTRB20	5/10/2018	2:10	2.139816343
LTRB20	5/10/2018	2:15	1.839869353
LTRB20	5/10/2018	2:20	1.545813978
LTRB20	5/10/2018	2:25	1.256702833
LTRB20	5/10/2018	2:30	0.968694735
LTRB20	5/10/2018	2:35	0.689006529
LTRB20	5/10/2018	2:40	0.458238218
LTRB20	5/10/2018	2:45	0.314451034
LTRB20	5/10/2018	2:50	0.21695709
LTRB20	5/10/2018	2:55	0.145782043
LTRB20	5/10/2018	3:00	0.094048739
LTRB20	5/10/2018	3:05	0.056856902
LTRB20	5/10/2018	3:10	0.031278266
LTRB20	5/10/2018	3:15	0.017037977
LTRB20	5/10/2018	3:20	0.011176747
LTRB20	5/10/2018	3:25	0.007827804
LTRB20	5/10/2018	3:30	0.006212427
LTRB20	5/10/2018	3:35	0.004783276
LTRB20	5/10/2018	3:40	0.003540485
LTRB20	5/10/2018	3:45	0.002484132
LTRB20	5/10/2018	3:50	0.001614261
LTRB20	5/10/2018	3:55	0.0009309
LTRB20	5/10/2018	4:00	0.000434064
LTRB20	5/10/2018	4:05	0.000123763
LTRB20	5/10/2018	4:10	0
LTRB20	5/10/2018	4:15	0
LTRB20	5/10/2018	4:20	0
LTRB20	5/10/2018	4:25	0
LTRB20	5/10/2018	4:30	0
LTRB20	5/10/2018	4:35	0
LTRB20	5/10/2018	4:40	0
LTRB20	5/10/2018	4:45	0
LTRB20	5/10/2018	4:50	0
LTRB20	5/10/2018	4:55	0
LTRB20	5/10/2018	5:00	0
LTRB20	5/10/2018	5:05	0
LTRB20	5/10/2018	5:10	0
LTRB20	5/10/2018	5:15	0
LTRB20	5/10/2018	5:20	0

LTRB Ponding Areas.inp

LTRB20	5/10/2018	5:25	0
LTRB20	5/10/2018	5:30	0
LTRB20	5/10/2018	5:35	0
LTRB20	5/10/2018	5:40	0
LTRB20	5/10/2018	5:45	0
LTRB20	5/10/2018	5:50	0
LTRB20	5/10/2018	5:55	0
LTRB20	5/10/2018	6:00	0
LTRB20	5/10/2018	6:05	0
LTRB20	5/10/2018	6:10	0
LTRB20	5/10/2018	6:15	0
LTRB20	5/10/2018	6:20	0
LTRB20	5/10/2018	6:25	0
LTRB20	5/10/2018	6:30	0
LTRB20	5/10/2018	6:35	0
LTRB20	5/10/2018	6:40	0
LTRB20	5/10/2018	6:45	0
LTRB20	5/10/2018	6:50	0
LTRB20	5/10/2018	6:55	0
LTRB20	5/10/2018	7:00	0
LTRB20	5/10/2018	7:05	0
LTRB20	5/10/2018	7:10	0
LTRB20	5/10/2018	7:15	0
LTRB20	5/10/2018	7:20	0

[REPORT]

```
;;Reporting Options
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
;;-----
LTRB23      -1600.000    9155.556
LTRB17      -1499.423    8512.111
LTRB11_0    4775.087    6274.510
LTRB7_0     5063.437    5121.107
LTRB8_0     5098.039    4106.113
LTRB8_ON    5063.437    3656.286
```

LTRB Ponding Areas.inp

LTRB5_0	4763.552	7012.687
LTRB9_0	4682.814	7762.399
LTRB18_0	4498.270	8996.540
LTRB25_0	4348.328	9342.561
LTRB21_0	-178.571	6292.017
LTRB23_0	-266.667	8903.704
LTRB3_o	207.612	4209.919
LTRB14_0	-519.031	7450.980
LTRB17_0	-576.701	8362.168
LTRB20_0	4521.338	8269.896
LTRB11	3737.024	6228.374
LTRB12	3425.606	2502.884
LTRB13	3575.548	3010.381
LTRB18	3460.208	8915.802
LTRB19	3725.490	5617.070
LTRB25	3437.140	9273.356
LTRB5	3610.150	6966.551
LTRB7	3898.501	4982.699
LTRB8	3760.092	4106.113
LTRB8_N	3748.558	3702.422
LTRB9	3598.616	7739.331
LTRB4	-530.565	3575.548
LTRB3	-495.963	4279.123
LTRB14	-1211.073	7635.525
LTRB20	3460.208	8292.964
LTRB21	-945.378	6418.067

[VERTICES]

;;Link	X-Coord	Y-Coord
;;-----	-----	-----

LTRB Ponding Areas.rpt

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

WARNING 10: crest elevation raised to downstream invert for regulator Link
LTRB11_W

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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Flow Routing Method DYNWAVE
Starting Date 05/10/2018 00:00:00
Ending Date 05/11/2018 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:00:05
Routing Time Step 5.00 sec
Variable Time Step YES
Maximum Trials 8
Number of Threads 1
Head Tolerance 0.005000 ft

*****	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	862.840	281.169
External Outflow	266.838	86.953
Flooding Loss	501.144	163.305
Evaporation Loss	0.000	0.000

LTRB Ponding Areas.rpt

Exfiltration Loss 0.000 0.000
 Initial Stored Volume 0.000 0.000
 Final Stored Volume 94.905 30.926
 Continuity Error (%) -0.006

Time-Step Critical Elements

Link LTRB17 (17.12%)
 Link LTRB21 (11.87%)
 Link LTRB8_N (4.54%)
 Link LTRB18_pipe (1.73%)
 Link LTRB23 (1.68%)

Highest Flow Instability Indexes

Link LTRB21 (2)

Routing Time Step Summary

Minimum Time Step : 0.50 sec
 Average Time Step : 3.79 sec
 Maximum Time Step : 5.00 sec
 Percent in Steady State : 0.00
 Average Iterations per Step : 2.00
 Percent Not Converging : 0.00

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
LTRB23	JUNCTION	0.29	1.20	1.95	0 00:24	1.20
LTRB17	JUNCTION	1.26	3.00	4998.65	0 00:28	3.00
LTRB11_0	OUTFALL	0.00	0.00	73.99	0 00:00	0.00
LTRB7_0	OUTFALL	0.00	0.00	83.00	0 00:00	0.00
LTRB8_0	OUTFALL	0.75	2.50	19.06	0 00:39	2.50
LTRB8_ON	OUTFALL	0.92	4.00	20.56	0 01:30	4.00

LTRB Ponding Areas.rpt

Node	Type	0.00	0.00	11.00	0	00:00	0.00
LTRB5_0	OUTFALL	0.00	0.00	11.00	0	00:00	0.00
LTRB9_0	OUTFALL	0.00	0.00	97.80	0	00:00	0.00
LTRB18_0	OUTFALL	0.29	1.42	92.22	0	00:34	1.42
LTRB25_0	OUTFALL	0.61	3.00	28.66	0	00:37	3.00
LTRB21_0	OUTFALL	0.31	3.00	4950.57	0	00:39	3.00
LTRB23_0	OUTFALL	0.27	1.10	1.10	0	03:02	1.10
LTRB3_o	OUTFALL	0.41	2.44	76.44	0	01:40	2.44
LTRB14_0	OUTFALL	0.60	2.42	5063.50	0	01:20	2.41
LTRB17_0	OUTFALL	0.80	2.06	4997.86	0	00:30	2.06
LTRB20_0	OUTFALL	0.14	1.14	5004.74	0	00:46	1.14
LTRB11	STORAGE	3.10	3.24	70.24	0	03:45	3.24
LTRB12	STORAGE	1.87	2.00	73.00	0	01:18	2.00
LTRB13	STORAGE	3.80	4.30	67.30	0	05:15	4.30
LTRB18	STORAGE	0.48	2.50	95.84	0	00:33	2.50
LTRB19	STORAGE	3.77	4.00	86.00	0	01:19	4.00
LTRB25	STORAGE	1.37	8.00	34.16	0	00:45	8.00
LTRB5	STORAGE	2.05	2.50	11.50	0	01:20	2.50
LTRB7	STORAGE	2.01	2.18	83.18	0	00:34	2.18
LTRB8	STORAGE	1.90	8.00	24.79	0	01:32	8.00
LTRB8_N	STORAGE	1.09	5.66	22.45	0	01:51	5.66
LTRB9	STORAGE	1.03	1.20	98.20	0	01:11	1.20
LTRB4	STORAGE	7.64	8.00	8.00	0	01:06	8.00
LTRB3	STORAGE	0.41	2.44	76.66	0	01:40	2.44
LTRB14	STORAGE	0.72	3.00	5064.90	0	01:20	3.00
LTRB20	STORAGE	0.14	1.14	5007.79	0	00:46	1.14
LTRB21	STORAGE	0.31	3.00	4951.39	0	00:41	3.00

Node Inflow Summary

Total Flow		Maximum Lateral	Maximum Total	Time of Max Occurrence	Lateral Inflow Volume
Node	Balance Error	Inflow CFS	Inflow CFS	days hr:min	10^6 gal
LTRB23	-0.001	61.61	61.61	0 00:50	2.46

LTRB Ponding Areas.rpt

LTRB17	JUNCTION	320.30	320.30	0	04:30	27.7
27.7	-0.002					
LTRB11_0	OUTFALL	0.00	0.00	0	00:00	0
0	0.000 gal					
LTRB7_0	OUTFALL	0.00	15.26	0	00:34	0
1.34	0.000					
LTRB8_0	OUTFALL	0.00	120.86	0	01:36	0
11	0.000					
LTRB8_ON	OUTFALL	0.00	243.30	0	01:52	0
13.4	0.000					
LTRB5_0	OUTFALL	0.00	47.09	0	01:20	0
5.66	0.000					
LTRB9_0	OUTFALL	0.00	71.48	0	01:11	0
9.93	0.000					
LTRB18_0	OUTFALL	0.00	15.91	0	00:41	0
1.04	0.000					
LTRB25_0	OUTFALL	0.00	110.52	0	00:48	0
6.18	0.000					
LTRB21_0	OUTFALL	0.00	195.10	0	00:53	0
5.44	0.000					
LTRB23_0	OUTFALL	0.00	8.41	0	03:02	0
0.701	0.000					
LTRB3_o	OUTFALL	0.00	449.41	0	01:40	0
20.7	0.000					
LTRB14_0	OUTFALL	0.00	55.47	0	01:20	0
5	0.000					
LTRB17_0	OUTFALL	0.00	39.93	0	00:30	0
6.17	0.000					
LTRB20_0	OUTFALL	0.00	12.33	0	00:46	0
0.369	0.000					
LTRB11	STORAGE	242.41	242.41	0	00:40	6.4
6.39	0.000					
LTRB12	STORAGE	290.36	290.36	0	01:25	9.25
9.25	-0.031					
LTRB13	STORAGE	318.43	318.43	0	02:00	15
15	0.000					
LTRB18	STORAGE	153.05	153.05	0	00:45	4.04
4.04	-0.016					
LTRB19	STORAGE	408.95	408.95	0	01:35	33.7
33.7	-0.013					
LTRB25	STORAGE	227.24	227.24	0	00:45	7.71
7.71	-0.004					
LTRB5	STORAGE	640.54	640.54	0	02:25	32.3
32.3	-0.010					
LTRB7	STORAGE	170.25	170.25	0	00:50	6.8
6.8	-0.010					
LTRB8	STORAGE	263.43	263.43	0	01:40	13.4
13.4	-0.010					

LTRB Ponding Areas.rpt

Node	Value	Type	Area 1	Area 2	Depth	Time	Area 3
LTRB8_N	13.4	STORAGE	263.43	263.43	0	01:40	13.4
LTRB9	42.9	STORAGE	640.73	640.73	0	03:10	42.9
LTRB4	24.4	STORAGE	472.75	472.75	0	02:35	24.4
LTRB3	20.7	STORAGE	449.35	449.35	0	01:40	20.7
LTRB14	15.3	STORAGE	319.60	319.60	0	02:50	15.3
LTRB20	0.369	STORAGE	12.44	12.44	0	00:45	0.369
LTRB21	5.47	STORAGE	207.55	207.55	0	00:40	5.47

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
LTRB23	JUNCTION	2.62	0.030	0.000
LTRB17	JUNCTION	5.41	0.000	0.000

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 Poned Depth Feet
LTRB23	2.61	53.20	0 00:50	1.755	0.000
LTRB17	5.41	280.34	0 04:30	21.492	0.000
LTRB12	3.28	290.36	0 01:25	6.362	0.000
LTRB18	1.65	137.14	0 00:45	3.008	0.000
LTRB19	6.93	408.94	0 01:35	31.722	0.000
LTRB25	0.85	116.54	0 00:45	1.529	0.000
LTRB5	3.48	593.43	0 02:25	24.195	0.000

LTRB Ponding Areas.rpt

LTRB7	2.83	154.99	0	00:50	5.148	0.000
LTRB8	1.10	142.57	0	01:40	2.408	0.000
LTRB9	4.53	569.21	0	03:10	32.179	0.000
LTRB4	5.73	472.73	0	02:35	23.190	0.000
LTRB14	2.70	264.26	0	02:50	10.263	0.000
LTRB21	0.16	13.74	0	00:41	0.035	0.000

 Storage Volume Summary

of Max Occurrence		Maximum Outflow	Average Volume	Avg Pcnt Full	Evap Loss	Exfil Loss	Maximum Volume	Max Pcnt Full	Time days
hr:min	Unit	CFS	1000 ft3				1000 ft3		
LTRB11	03:45	0.00	793.253	27	0	0	854.914	29	0
LTRB12	01:18	0.00	360.998	93	0	0	386.263	100	0
LTRB13	05:15	0.00	1735.242	25	0	0	2000.046	29	0
LTRB18	00:33	15.91	4.474	18	0	0	24.890	100	0
LTRB19	01:19	0.00	241.620	93	0	0	259.658	100	0
LTRB25	00:45	110.52	13.114	13	0	0	101.636	100	0
LTRB5	01:20	47.09	337.557	79	0	0	429.235	100	0
LTRB7	00:34	15.26	43.376	91	0	0	47.739	100	0
LTRB8	01:32	120.86	60.513	19	0	0	324.073	100	0
LTRB8_N	01:51	243.30	16.092	5	0	0	127.388	39	0
LTRB9	01:11	71.48	105.895	84	0	0	126.796	100	0
LTRB4	01:06	0.00	155.773	95	0	0	164.192	100	0

LTRB Ponding Areas.rpt

LTRB3		0.057	0	0	0	0.472	3	0
01:40	449.41							
LTRB14		3.512	19	0	0	18.043	100	0
01:20	55.47							
LTRB20		0.103	5	0	0	1.144	51	0
00:46	12.33							
LTRB21		0.216	4	0	0	5.305	100	0
00:41	195.10							

 Outfall Loading Summary

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
LTRB11_0	0.00	0.00	0.00	0.000
LTRB7_0	42.85	8.64	15.26	1.336
LTRB8_0	45.05	64.79	120.86	11.013
LTRB8_ON	45.35	84.51	243.30	13.420
LTRB5_0	90.81	14.08	47.09	5.663
LTRB9_0	55.79	41.22	71.48	9.931
LTRB18_0	37.90	8.33	15.91	1.035
LTRB25_0	30.84	62.11	110.52	6.177
LTRB21_0	26.19	72.12	195.10	5.437
LTRB23_0	33.78	5.91	8.41	0.701
LTRB3_o	38.69	159.02	449.41	20.696
LTRB14_0	38.94	31.57	55.47	4.996
LTRB17_0	43.18	35.33	39.93	6.171
LTRB20_0	27.02	4.67	12.33	0.369
System	39.74	592.30	1229.98	86.947

 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
LTRB8	CONDUIT	120.86	0 01:36	24.62	4.99	1.00
LTRB8_N	CONDUIT	243.30	0 01:52	19.36	2.87	1.00

LTRB Ponding Areas.rpt

Structure	Type	Length	Flow	Time	Flow	Time	Flow
LTRB18_pipe	CONDUIT	15.91	0	00:41	9.07	1.21	0.97
LTRB25	CONDUIT	110.52	0	00:48	15.63	3.32	1.00
LTRB21	CONDUIT	195.10	0	00:53	15.40	1.02	1.00
LTRB23	CONDUIT	8.41	0	03:02	8.31	1.07	0.97
LTRB3	CONDUIT	449.41	0	01:40	11.51	0.35	0.40
LTRB14	CONDUIT	55.47	0	01:20	8.33	1.27	0.90
LTRB17	CONDUIT	39.93	0	00:30	6.28	1.93	0.84
LTRB20	CONDUIT	12.33	0	00:46	8.60	0.92	0.76
LTRB11_W	WEIR	0.00	0	00:00			0.00
LTRB7	WEIR	15.26	0	00:34			1.00
LTRB5	WEIR	47.09	0	01:20			1.00
LTRB9	WEIR	71.48	0	01:11			0.20

 Flow Classification Summary

Inlet	Adjusted /Actual Length	----- Fraction of Time in Flow Class							
		Up Dry	Down Dry	Sub Dry	Sup Crit	Up Crit	Down Crit	Norm Ltd	
Conduit Ctrl									
LTRB8 0.00	1.00	0.00	0.00	0.00	0.96	0.03	0.00	0.00	0.00
LTRB8_N 0.00	1.00	0.00	0.00	0.00	0.91	0.09	0.00	0.00	0.00
LTRB18_pipe 0.00	1.00	0.00	0.00	0.00	0.66	0.34	0.00	0.00	0.02
LTRB25 0.00	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.00
LTRB21 0.00	1.00	0.00	0.00	0.00	0.76	0.24	0.00	0.00	0.07
LTRB23 0.00	1.00	0.00	0.00	0.00	0.86	0.13	0.00	0.00	0.05
LTRB3 0.00	1.00	0.59	0.00	0.00	0.15	0.27	0.00	0.00	0.09
LTRB14 0.00	1.00	0.00	0.00	0.00	0.86	0.14	0.00	0.00	0.02
LTRB17 0.00	1.00	0.00	0.57	0.00	0.43	0.00	0.00	0.00	0.00

LTRB Ponding Areas.rpt

LTRB20 1.00 0.00 0.00 0.00 0.71 0.28 0.00 0.00 0.05
 0.00

 Conduit Surcharge Summary

Conduit	----- Both Ends	Hours Full Upstream	----- Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
LTRB8	3.54	3.84	3.54	4.02	3.54
LTRB8_N	0.82	1.87	0.82	2.44	0.82
LTRB18_pipe	0.01	2.22	0.01	2.30	0.01
LTRB25	1.55	2.07	1.55	2.19	1.55
LTRB21	0.09	0.16	0.19	0.31	0.01
LTRB23	0.01	2.62	0.01	2.67	0.01
LTRB14	0.01	2.70	0.01	3.08	0.01
LTRB17	0.01	0.01	5.41	5.68	0.01

Analysis begun on: Wed Oct 31 17:53:22 2018
 Analysis ended on: Wed Oct 31 17:53:23 2018
 Total elapsed time: 00:00:01

HIGHWAY 66 BASIN CALCULATIONS



JVA Incorporated
 213 Linden Street Suite 200
 Fort Collins, CO 80524
 Ph: (970) 225 9099

Job Name: Town of Mead - Drainage Master Plan Update
 Job Number: 1970.76c
 Date: 11/9/18
 By: LAT

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_A = 0.84i^{1.302}$	$C_A = 0.86i^{1.276}$	$C_A = 0.87i^{1.232}$	$C_A = 0.84i^{1.124}$	$C_A = 0.85i+0.025$	$C_A = 0.78i+0.110$	$C_A = 0.65i+0.254$
B	$C_B = 0.84i^{1.169}$	$C_B = 0.86i^{1.093}$	$C_B = 0.81i+0.057$	$C_B = 0.63i+0.249$	$C_B = 0.56i+0.328$	$C_B = 0.47i+0.426$	$C_B = 0.37i+0.536$
C/D	$C_{C/D} = 0.83i^{1.122}$	$C_{C/D} = 0.82i+0.035$	$C_{C/D} = 0.74i+0.132$	$C_{C/D} = 0.56i+0.319$	$C_{C/D} = 0.49i+0.393$	$C_{C/D} = 0.41i+0.484$	$C_{C/D} = 0.32i+0.588$

Town of Mead - Drainage Master Plan Update
Composite Runoff Coefficient Calculations HWY 66 Basin

Location: Mead
 Minor Design Storm: 10
 Major Design Storm: 100
 Soil Type: C/D

Basin Design Data																				Runoff Coeff's					
Basin Name	Design Point	A _{Paved} (sf)	A _{Drive/Walks Concrete} (sf)	A _{Gravel} (sf)	A _{Roof} (sf)	A _{Business Commercial} (sf)	A _{Business Neighborhood} (sf)	A _{Industrial Heavy} (sf)	A _{Railroad yard} (sf)	A _{School} (sf)	A _{Ag Bldg/Residential} (sf)	A _{Single family (<.25 acre lot only)} (sf)	A _{Single family (.25-.75 acre lot only)} (sf)	A _{Single family (>.75 acre lot only)} (sf)	A _{Parks/Cemetery} (sf)	A _{Lawns} (sf)	A _{Ag/Green Belt} (sf)	A _{WATER} (sf)	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	C2	C5	C10	C100
H66B1	75	203,334		348,472							53,885		21,979	946,626			8,493,525		10,067,821	231.13	7.3%	0.04	0.09	0.19	0.51
H66B2	76	53,741		54,467													10,299,324		10,407,532	238.92	2.7%	0.01	0.06	0.15	0.50
H66B3	77	3,057		1,082,486										294,448			14,870,028	219,821	16,469,840	378.10	6.1%	0.04	0.09	0.18	0.51
H66B4	78			362,716	3,230						425,197						5,613,255		6,404,398	147.02	7.4%	0.04	0.10	0.19	0.51
H66B5	79			59,472	5,024						240,770						1,295,859		1,601,125	36.76	10.9%	0.07	0.12	0.21	0.53
H66B6	80	34,369		157,250	93,481			2,784,908	91,827		49,163						5,611,877	20,671	8,843,546	203.02	32.7%	0.24	0.30	0.37	0.62
H66B7	81	61,477		264,800							994,838						14,001,362		15,322,477	351.76	6.2%	0.04	0.09	0.18	0.51
H66B8	176			49,842							250,306						281,689		581,837	13.36	25.9%	0.18	0.25	0.32	0.59
H66B9	82	87,694		108,260							138,544		35,132				6,698,597		7,068,227	162.26	4.8%	0.03	0.07	0.17	0.50
H66B10	83	102,054		19,603							5,949		30,191				529,081		886,878	15.77	19.3%	0.13	0.19	0.27	0.56
H66B11	84	28,309									139,517						5,655,943		5,823,769	133.70	4.9%	0.03	0.08	0.17	0.50
H66B12	85	170,921		254,941	2,775				96,111		93,938		88,792				9,762,119		10,469,597	240.35	5.6%	0.03	0.08	0.17	0.51
TOTAL SITE		744,956	0	2,762,309	104,510	0	0	2,784,908	187,938	0	2,392,107	0	52,170	1,364,998	0	0	83,112,659	240,492	93,747,047	2152.14	8.5%	0.05	0.10	0.19	0.52

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
H66B1	75	100yr	0.3611334	0.541856061	1.1333333	0.014505348	7.305003734	0.35	0.1	3	0.0018	0.5	0
H66B2	76	100yr	0.3733188	0.473674242	1.1460227	0.019448025	2.704909099	0.4	0.1	3	0.0018	0.5	0
H66B3	77	100yr	0.5907742	0.522916667	1.2083333	0.018261755	6.145551869	0.4	0.1	3	0.0018	0.5	0
H66B4	78	100yr	0.2297262	0.273674242	0.71875	0.021488801	7.383316902	0.4	0.1	3	0.0018	0.5	0
H66B5	79	100yr	0.0574325	0.172916667	0.3545455	0.013071581	10.90561824	0.4	0.1	3	0.0018	0.5	0
H66B6	80	100yr	0.3172186	0.824431818	1.3420455	0.01290573	32.69302427	0.35	0.1	3	0.0018	0.5	0
H66B7	81	100yr	0.5496182	0.389204545	1.1121212	0.017823569	6.166387067	0.4	0.1	3	0.0018	0.5	0
H66B8	176	100yr	0.0208705	0.07405303	0.2117424	0.01431127	25.90477745	0.4	0.1	3	0.0018	0.5	0
H66B9	83	100yr	0.2535378	0.80625	1.2895833	0.017036276	4.828202886	0.4	0.1	3	0.0018	0.5	0
H66B10	84	100yr	0.0246384	0.185416667	0.4183712	0.027632413	19.29143458	0.4	0.1	3	0.0018	0.5	0
H66B11	82	100yr	0.208899	0.331818182	0.9623106	0.022042905	4.89255944	0.4	0.1	3	0.0018	0.5	0
H66B12	85	100yr	0.3755451	0.75530303	1.4515152	0.01368737	5.572518025	0.4	0.1	3	0.0018	0.5	0

HIGHWAY 66 BASIN

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in./hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
H66B1	75	100YR	0.361	0.542	1.133	0.015	7.3	0.35	0.10	3.00	0.50	0.0018	0.00	0.15	0.07	6.68
H66B2	76	100YR	0.373	0.474	1.146	0.019	2.7	0.40	0.10	3.00	0.50	0.0018	0.00	0.05	0.03	2.45
H66B3	77	100YR	0.591	0.523	1.208	0.018	6.1	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.61
H66B4	78	100YR	0.230	0.274	0.719	0.021	7.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.15	0.07	6.75
H66B5	79	100YR	0.057	0.173	0.355	0.013	10.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.22	0.10	10.05
H66B6	80	100YR	0.317	0.824	1.342	0.013	32.7	0.35	0.10	3.00	0.50	0.0018	0.00	0.65	0.18	31.57
H66B7	81	100YR	0.550	0.389	1.112	0.018	6.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.63
H66B8	176	100YR	0.021	0.074	0.212	0.014	25.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.52	0.15	24.74
H66B9	83	100YR	0.254	0.806	1.290	0.017	4.8	0.40	0.10	3.00	0.50	0.0018	0.00	0.10	0.05	4.40
H66B10	84	100YR	0.025	0.185	0.418	0.028	19.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.39	0.13	18.21
H66B11	82	100YR	0.209	0.332	0.962	0.022	4.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.10	0.05	4.46
H66B12	85	100YR	0.376	0.755	1.452	0.014	5.6	0.40	0.10	3.00	0.50	0.0018	0.00	0.11	0.06	5.08

HIGHWAY 66 BASIN

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
H66B1		0.138	0.237	59.8	12.38	31.1	8.75	20.6	181	838,985	1.86	1,558,064	60.0	276	1,558,211	1.19
H66B2		0.154	0.264	52.5	12.14	27.3	8.58	20.2	213	867,294	1.76	1,524,336	55.0	302	1,524,038	1.26
H66B3		0.142	0.282	49.6	12.23	25.8	8.64	20.4	357	1,372,487	1.80	2,466,767	55.0	508	2,467,309	1.34
H66B4		0.138	0.207	36.1	7.22	18.8	5.10	12.0	191	533,700	1.81	966,873	45.0	246	966,358	1.67
H66B5		0.126	0.107	41.0	4.86	21.3	3.43	8.1	42	133,427	1.85	247,247	45.0	56	246,713	1.51
H66B6		0.098	0.229	60.0	12.04	31.2	8.51	20.1	159	736,962	2.15	1,586,380	60.0	265	1,586,535	1.31
H66B7		0.142	0.275	42.5	10.50	22.1	7.42	17.5	388	1,276,873	1.80	2,295,229	50.0	527	2,294,498	1.50
H66B8		0.105	0.064	29.1	2.92	15.1	2.06	4.9	22	48,486	2.04	98,702	40.0	27	97,570	2.01
H66B9		0.147	0.225	82.9	15.80	43.1	11.16	26.3	92	589,019	1.78	1,049,668	70.0	146	1,049,606	0.90
H66B10		0.113	0.069	53.0	4.32	27.6	3.05	7.2	14	57,240	1.96	111,909	50.0	20	111,724	1.29
H66B11		0.146	0.212	46.8	9.12	24.4	6.44	15.2	134	485,314	1.78	865,221	50.0	183	864,940	1.37
H66B12		0.144	0.249	79.5	16.69	41.3	11.79	27.8	142	872,466	1.79	1,562,296	70.0	225	1,562,223	0.94

Printouts for Unit Hydrographs

flow in cfs

time in minutes	H6681	H6682	H6683	H6684	H6685	H6686	H6687	H6688	H6689	H66810	H66811	H66812
5	43.24	52.63	87.22	100.48	33.50	39.49	119.76	21.53	14.74	12.14	50.88	20.92
10	114.89	138.08	229.14	183.55	41.94	103.68	288.82	20.70	42.78	13.90	112.06	61.21
15	162.51	193.47	322.41	188.87	40.49	144.64	376.60	18.29	68.22	13.60	133.76	100.30
20	181.03	213.26	356.91	174.84	37.39	158.72	384.77	15.30	84.40	13.00	131.38	126.15
25	179.53	209.83	350.64	147.99	32.65	156.85	362.35	13.24	91.46	12.11	123.77	139.70
30	173.28	198.78	329.09	129.76	29.22	151.11	317.52	11.19	91.48	10.93	110.94	141.53
35	162.50	180.12	292.39	114.03	26.34	141.51	275.04	9.80	90.09	9.99	97.15	139.62
40	147.17	157.40	257.02	98.30	23.45	128.05	247.10	8.58	87.58	9.26	88.71	135.69
45	132.26	145.08	234.96	88.15	20.76	115.49	219.17	7.35	83.94	8.54	80.27	129.74
50	123.22	132.76	212.90	79.16	19.06	107.63	192.35	6.13	79.17	7.82	71.82	121.75
55	114.18	120.44	190.84	70.18	17.36	99.77	176.70	4.91	73.28	7.10	64.88	111.73
60	105.13	108.12	173.08	61.20	15.66	91.91	161.05	4.10	67.70	6.62	60.05	103.48
65	96.09	100.53	160.72	52.21	13.96	84.05	145.40	3.70	64.44	6.19	55.22	98.15
70	88.59	93.59	148.36	43.23	12.26	77.55	129.75	3.29	61.17	5.75	50.38	92.83
75	83.44	86.64	136.00	36.90	10.56	73.07	114.10	2.88	57.91	5.32	45.55	87.50
80	78.29	79.69	123.64	33.90	8.85	68.58	98.45	2.47	54.64	4.89	40.72	82.18
85	73.14	72.75	111.28	30.91	7.99	64.09	82.80	2.07	51.38	4.46	35.88	76.85
90	67.99	65.80	98.93	27.92	7.43	59.60	74.06	1.66	48.11	4.03	31.05	71.53
95	62.84	58.85	86.57	24.92	6.86	55.11	68.84	1.25	45.29	3.60	26.58	68.21
100	57.69	51.91	74.21	21.93	6.29	50.63	63.63	0.85	43.42	3.16	24.97	65.18
105	52.54	44.96	68.23	18.93	5.72	46.14	58.41	0.44	41.55	2.77	23.36	62.15
110	47.39	41.11	64.11	15.94	5.16	41.65	53.19	0.03	39.68	2.63	21.74	59.12
115	42.24	38.80	59.99	12.94	4.59	37.16	47.98	0.00	37.81	2.48	20.13	56.09
120	37.09	36.48	55.87	9.95	4.02	32.68	42.76		35.93	2.34	18.52	53.06
125	34.82	34.16	51.75	6.95	3.46	30.56	37.54		34.06	2.20	16.91	50.03
130	33.10	31.85	47.63	3.96	2.89	29.06	32.33		32.19	2.05	15.30	47.00
135	31.38	29.53	43.51	0.97	2.32	27.57	27.11		30.32	1.91	13.69	43.97
140	29.66	27.22	39.39	0.00	1.76	26.07	21.89		28.45	1.76	12.08	40.94
145	27.95	24.90	35.27		1.19	24.58	16.68		26.57	1.62	10.47	37.91
150	26.23	22.59	31.15		0.62	23.08	11.46		24.70	1.48	8.86	34.88
155	24.51	20.27	27.03		0.06	21.58	6.24		22.83	1.33	7.24	31.85
160	22.80	17.96	22.91		0.00	20.09	1.02		20.96	1.19	5.63	28.82
165	21.08	15.64	18.80			18.59	0.00		19.09	1.04	4.02	27.49
170	19.36	13.32	14.68			17.10			17.98	0.90	2.41	26.48
175	17.65	11.01	10.56			15.60			17.35	0.76	0.80	25.47
180	15.93	8.69	6.44			14.10			16.73	0.61	0.00	24.46
185	14.21	6.38	2.32			12.61			16.10	0.47		23.45
190	12.50	4.06	0.00			11.11			15.48	0.32		22.44
195	10.78	1.75				9.62			14.86	0.18		21.43
200	9.06	0.00				8.12			14.23	0.04		20.42
205	7.35					6.62			13.61	0.00		19.41
210	5.63					5.13			12.98			18.40
215	3.91					3.63			12.36			17.39
220	2.20					2.14			11.74			16.38
225	0.48					0.64			11.11			15.37
230	0.00					0.00			10.49			14.36
235									9.86			13.35
240									9.24			12.34
245									8.62			11.33
250									7.99			10.32
255									7.37			9.31
260									6.74			8.30
265									6.12			7.29
270									5.50			6.28
275									4.87			5.27
280									4.25			4.26
285									3.62			3.25
290									3.00			2.24
295									2.38			1.23
300									1.75			0.22
305									1.13			0.00
310									0.50			
315									0.00			

HWY66 ROUTING CALCULATIONS

HIGHWAY 66 BASIN

END Basin H66B12

End Node	Upstream Nodes				
H66B12	H66B10				
H66B12	H66B9	H66B8			
H66B12	H66B11	H66B7	H66B6		
H66B12	H66B11	H66B7	H66B5		
H66B12	H66B11	H66B7	H66B4		
H66B12	H66B11	H66B7	H66B3	H66B2	H66B1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
H66B12	70	0
H66B11	50	70
H66B10	50	70
H66B9	70	70
H66B8	40	140
H66B7	50	120
H66B6	60	170
H66B5	45	170
H66B4	45	170
H66B3	55	170
H66B2	55	225
H66B1	60	280

END Basin H66B2

End Node	Upstream Nodes
H66B2	H66B1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
H66B2	55	0
H66B1	60	55

END Basin H66B3

End Node	Upstream Nodes	
H66B3	H66B2	H66B1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
H66B3	55	0
H66B2	55	55
H66B1	60	110

END Basin H66B7

End Node	Upstream Nodes		
H66B7	H66B3	H66B2	H66B1
H66B7	H66B6		
H66B7	H66B5		
H66B7	H66B4		

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
H66B7	50	0
H66B6	60	50
H66B5	45	50
H66B4	45	50
H66B3	55	50
H66B2	55	105
H66B1	60	160

END Basin H66B11

End Node	Upstream Nodes			
H66B11	H66B7	H66B3	H66B2	H66B1
H66B11	H66B7	H66B6		
H66B11	H66B7	H66B5		
H66B11	H66B7	H66B4		

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
H66B11	50	0
H66B7	50	50
H66B6	60	100
H66B5	45	100
H66B4	45	100
H66B3	55	100
H66B2	55	155
H66B1	60	210

HIGHWAY 66 BASIN

END Basin H66B9

End Node	Upstream Nodes
H66B9	H66B8

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for
H66B9	70	0
H66B8	40	70

flow in cfs

time in minutes	H66B2	H66B1	Total to H66B2	max
0	0.00		0.00	424
5	0.00		0.00	
10	0.00		0.00	
15	0.01		0.01	
20	0.18		0.18	
25	6.76		6.76	
30	50.99		50.99	
35	130.60		130.60	
40	207.13		207.13	
45	260.35		260.35	
50	289.55		289.55	
55	301.63	0.00	301.63	
60	300.07	0.00	300.07	
65	290.64	0.00	290.64	
70	280.40	0.07	280.47	
75	266.32	0.66	266.98	
80	248.26	9.50	257.75	
85	228.10	51.08	279.17	
90	209.87	121.00	330.87	
95	193.13	187.37	380.50	
100	177.67	233.80	411.47	
105	163.48	260.10	423.58	
110	149.92	273.11	423.03	
115	136.90	276.11	413.00	
120	124.24	271.85	396.08	
125	111.92	262.93	374.85	
130	100.04	251.99	352.03	
135	90.37	238.39	328.75	
140	82.73	222.59	305.32	
145	76.17	206.20	282.36	
150	70.28	190.80	261.08	
155	64.90	177.41	242.31	
160	59.89	165.39	225.28	
165	55.22	154.33	209.55	
170	50.87	143.81	194.68	
175	46.68	133.70	180.38	
180	42.56	123.78	166.33	
185	38.46	114.00	152.46	
190	34.37	104.31	138.68	
195	30.28	94.68	124.96	
200	26.20	85.61	111.81	
205	22.11	78.49	100.61	
210	18.03	72.74	90.77	
215	13.96	67.70	81.66	
220	9.96	63.16	73.13	
225	6.54	58.99	65.53	
230	4.44	55.08	59.52	
235	3.04	51.43	54.46	
240	2.02	48.03	50.04	
245	1.28	44.72	45.99	
250	0.75	41.47	42.21	
255	0.38	38.23	38.61	
260	0.18	35.00	35.17	
265	0.10	31.77	31.87	
270	0.06	28.55	28.62	
275	0.05	25.34	25.39	
280	0.04	22.13	22.17	
285	0.03	18.93	18.96	
290	0.02	15.74	15.76	
295	0.01	12.55	12.56	
300	0.01	9.38	9.38	
305	0.00	6.44	6.44	
310	0.00	4.38	4.39	
315	0.00	3.06	3.06	
320	0.00	2.13	2.13	
325	0.00	1.44	1.44	
330	0.00	0.94	0.94	
335	0.00	0.58	0.58	
340	0.00	0.33	0.33	
345	0.00	0.21	0.21	
350	0.00	0.15	0.15	
355	0.00	0.12	0.12	
360	0.00	0.09	0.09	
365	0.00	0.07	0.07	
370	0.00	0.05	0.05	
375	0.00	0.03	0.03	
380	0.00	0.02	0.02	
385	0.00	0.01	0.01	
390	0.00	0.00	0.00	
395	0.00	0.00	0.00	

flow in cfs

time in minutes	H6683	H6682	H6681	Total to H6683	max
0	0.00			0.00	553
5	0.00			0.00	
10	0.01			0.01	
15	0.10			0.10	
20	0.82			0.82	
25	13.71			13.71	
30	89.76			89.76	
35	223.86			223.86	
40	352.76			352.76	
45	442.71			442.71	
50	491.12			491.12	
55	508.37	0.00		508.37	
60	501.25	0.00		501.25	
65	484.45	0.00		484.45	
70	465.63	0.01		465.64	
75	439.90	0.18		440.08	
80	407.89	6.76		414.65	
85	374.63	50.99		425.62	
90	344.07	130.60		474.67	
95	315.24	207.13		522.37	
100	288.47	260.35		548.82	
105	263.53	289.55		553.09	
110	239.61	301.63	0.00	541.24	
115	216.56	300.07	0.00	516.63	
120	194.20	290.64	0.00	484.84	
125	173.02	280.40	0.07	453.49	
130	156.12	266.32	0.66	423.10	
135	142.52	248.26	9.50	400.27	
140	130.63	228.10	51.08	409.80	
145	119.90	209.87	121.00	450.77	
150	110.06	193.13	187.37	490.56	
155	100.88	177.67	233.80	512.35	
160	92.33	163.48	260.10	515.92	
165	84.38	149.92	273.11	507.42	
170	76.68	136.90	276.11	489.69	
175	69.13	124.24	271.85	465.22	
180	61.63	111.92	262.93	436.48	
185	54.14	100.04	251.99	406.17	
190	46.66	90.37	238.39	375.41	
195	39.19	82.73	222.59	344.52	
200	31.74	76.17	206.20	314.10	
205	24.31	70.28	190.80	285.39	
210	17.16	64.90	177.41	259.47	
215	11.49	59.89	165.39	236.77	
220	7.94	55.22	154.33	217.49	
225	5.52	50.87	143.81	200.19	
230	3.74	46.68	133.70	184.11	
235	2.44	42.56	123.78	168.78	
240	1.50	38.46	114.00	153.96	
245	0.85	34.37	104.31	139.54	
250	0.50	30.28	94.68	125.46	
255	0.34	26.20	85.61	112.15	
260	0.25	22.11	78.49	100.86	
265	0.20	18.03	72.74	90.97	
270	0.15	13.96	67.70	81.81	
275	0.11	9.96	63.16	73.24	
280	0.08	6.54	58.99	65.61	
285	0.05	4.44	55.08	59.57	
290	0.03	3.04	51.43	54.49	
295	0.01	2.02	48.03	50.05	
300	0.00	1.28	44.72	46.00	
305	0.00	0.75	41.47	42.21	
310	0.00	0.38	38.23	38.61	
315	0.00	0.18	35.00	35.17	
320	0.00	0.10	31.77	31.87	
325	0.00	0.06	28.55	28.62	
330	0.00	0.05	25.34	25.39	
335	0.00	0.04	22.13	22.17	
340	0.00	0.03	18.93	18.96	
345	0.00	0.02	15.74	15.76	
350	0.00	0.01	12.55	12.56	
355	0.00	0.01	9.38	9.38	
360	0.00	0.00	6.44	6.44	
365	0.00	0.00	4.38	4.39	
370	0.00	0.00	3.06	3.06	
375	0.00	0.00	2.13	2.13	
380	0.00	0.00	1.44	1.44	
385	0.00	0.00	0.94	0.94	
390	0.00	0.00	0.58	0.58	
395	0.00	0.00	0.33	0.33	
400	0.00	0.00	0.21	0.21	
405	0.00	0.00	0.15	0.15	
410	0.00	0.00	0.12	0.12	
415	0.00	0.00	0.09	0.09	
420	0.00	0.00	0.07	0.07	
425	0.00	0.00	0.05	0.05	
430	0.00	0.00	0.03	0.03	
435		0.00	0.02	0.02	
440		0.00	0.01	0.01	
445		0.00	0.00	0.00	
450		0.00	0.00	0.00	

flow in cfs

time in minutes	H6687	H6686	H6685	H6684	H6683	H6682	H6681	Total to LTR87	max
0	0.00							0.00	1297
5	0.00							0.00	
10	0.01							0.01	
15	0.13							0.13	
20	1.11							1.11	
25	18.61							18.61	
30	119.23							119.23	
35	281.02							281.02	
40	417.81							417.81	
45	495.70							495.70	
50	527.25	0.00	0.00	0.00	0.00			527.25	
55	522.79	0.00	0.00	0.00	0.00			522.79	
60	502.32	0.09	0.01	0.01	0.01			502.43	
65	482.50	1.26	0.11	0.15	0.10			484.12	
70	456.38	5.48	0.57	1.08	0.82			464.34	
75	422.30	20.33	5.90	15.96	13.71			478.20	
80	388.10	64.69	28.76	92.40	89.76			663.72	
85	353.39	131.07	45.45	180.94	223.86			934.70	
90	318.75	190.73	52.92	228.69	352.76			1143.85	
95	286.05	230.72	55.59	245.60	442.71			1260.67	
100	255.21	253.00	55.09	242.55	491.12			1296.96	
105	225.50	263.57	53.28	232.80	508.37	0.00		1283.52	
110	197.80	265.44	51.41	221.12	501.25	0.00		1237.02	
115	175.80	261.43	49.52	209.48	484.45	0.00		1180.68	
120	158.60	253.82	45.94	195.35	465.63	0.01		1119.36	
125	143.81	244.25	42.46	178.56	439.90	0.18		1049.17	
130	130.28	232.20	38.72	160.32	407.89	6.76		976.17	
135	117.74	218.23	35.02	141.42	374.63	50.99		938.03	
140	106.00	203.78	31.54	123.52	344.07	130.60		939.51	
145	95.01	190.27	28.20	106.63	315.24	207.13		942.48	
150	84.81	178.46	24.98	92.53	288.47	260.35		929.61	
155	75.02	167.80	21.99	81.99	263.53	289.55		899.88	
160	65.41	157.93	19.64	73.22	239.61	301.63	0.00	857.44	
165	55.89	148.51	17.79	65.48	216.56	300.07	0.00	804.29	
170	46.40	139.42	16.20	58.44	194.20	290.64	0.00	745.30	
175	36.93	130.16	14.69	51.73	173.02	280.40	0.07	686.99	
180	27.50	120.50	13.27	45.28	156.12	266.32	0.66	629.64	
185	18.67	110.65	11.93	39.23	142.52	248.26	9.50	580.76	
190	12.68	100.85	10.69	33.48	130.63	228.10	51.08	567.51	
195	8.81	91.68	9.53	27.87	119.90	209.87	121.00	588.66	
200	6.06	84.22	8.42	22.33	110.06	193.13	187.37	611.59	
205	4.05	78.03	7.33	16.83	100.88	177.67	233.80	618.60	
210	2.60	72.59	6.25	11.65	92.33	163.48	260.10	609.01	
215	1.54	67.68	5.18	7.92	84.38	149.92	273.11	589.74	
220	0.86	63.14	4.11	5.52	76.68	136.90	276.11	563.32	
225	0.55	58.89	3.05	3.83	69.13	124.24	271.85	531.54	
230	0.38	54.92	2.08	2.59	61.63	111.92	262.93	496.44	
235	0.29	51.22	1.45	1.69	54.14	100.04	251.99	460.81	
240	0.23	47.65	1.03	1.03	46.66	90.37	238.39	425.35	
245	0.17	44.16	0.72	0.60	39.19	82.73	222.59	390.17	
250	0.12	40.71	0.50	0.38	31.74	76.17	206.20	355.82	
255	0.08	37.29	0.34	0.27	24.31	70.28	190.80	323.37	
260	0.05	33.89	0.21	0.21	17.16	64.90	177.41	293.83	
265	0.03	30.53	0.13	0.16	11.49	59.89	165.39	267.63	
270	0.01	27.19	0.10	0.12	7.94	55.22	154.33	244.91	
275	0.00	23.88	0.07	0.09	5.52	50.87	143.81	224.23	
280	0.00	20.60	0.06	0.06	3.74	46.68	133.70	204.83	
285	0.00	17.35	0.04	0.04	2.44	42.56	123.78	186.20	
290	0.00	14.15	0.03	0.02	1.50	38.46	114.00	168.16	
295	0.00	11.02	0.02	0.01	0.85	34.37	104.31	150.59	
300	0.00	8.15	0.02	0.00	0.50	30.28	94.68	133.62	
305	0.00	5.99	0.01	0.00	0.34	26.20	85.61	118.14	
310	0.00	4.54	0.01	0.00	0.25	22.11	78.49	105.40	
315	0.00	3.48	0.00	0.00	0.20	18.03	72.74	94.45	
320	0.00	2.66	0.00	0.00	0.15	13.96	67.70	84.47	
325	0.00	2.02	0.00	0.00	0.11	9.96	63.16	75.26	
330	0.00	1.52	0.00	0.00	0.08	6.54	58.99	67.13	
335	0.00	1.14	0.00	0.00	0.05	4.44	55.08	60.71	
340	0.00	0.88	0.00	0.00	0.03	3.04	51.43	55.37	
345	0.00	0.70	0.00	0.00	0.01	2.02	48.03	50.76	
350	0.00	0.56	0.00	0.00	0.00	1.28	44.72	46.56	
355	0.00	0.44	0.00	0.00	0.00	0.75	41.47	42.65	
360	0.00	0.34	0.00	0.00	0.00	0.38	38.23	38.95	
365	0.00	0.25	0.00	0.00	0.00	0.18	35.00	35.42	
370	0.00	0.17	0.00	0.00	0.00	0.10	31.77	32.04	
375	0.00	0.11	0.00	0.00	0.00	0.06	28.55	28.72	
380	0.00	0.06	0.00	0.00	0.00	0.05	25.34	25.45	
385	0.00	0.03	0.00	0.00	0.00	0.04	22.13	22.20	
390	0.00	0.01	0.00	0.00	0.00	0.03	18.93	18.97	
395	0.00	0.00	0.00	0.00	0.00	0.02	15.74	15.76	
400	0.00	0.00	0.00	0.00	0.00	0.01	12.55	12.56	
405	0.00	0.00	0.00	0.00	0.00	0.01	9.38	9.38	
410	0.00	0.00	0.00	0.00	0.00	0.00	6.44	6.44	
415	0.00	0.00	0.00	0.00	0.00	0.00	4.38	4.39	
420	0.00	0.00	0.00	0.00	0.00	0.00	3.06	3.06	
425	0.00	0.00	0.00	0.00	0.00	0.00	2.13	2.13	
430	0.00	0.00	0.00	0.00	0.00	0.00	1.44	1.44	
435	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.94	
440	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.58	
445	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	
450	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21	
455	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.15	
460	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	
465	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	
470	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07	
475	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	
480	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	
485						0.00	0.02	0.02	
490						0.00	0.01	0.01	
495						0.00	0.00	0.00	
500						0.00	0.00	0.00	

flow in cfs

time in minutes	H6689	H6688	Total to H6689	rmax
0	0.00		0.00	146
5	0.00		0.00	
10	0.00		0.00	
15	0.01		0.01	
20	0.11		0.11	
25	2.18		2.18	
30	15.44		15.44	
35	41.91		41.91	
40	72.65		72.65	
45	99.61		99.61	
50	119.32		119.32	
55	131.54		131.54	
60	139.18		139.18	
65	143.92		143.92	
70	145.68	0.00	145.68	
75	144.07	0.00	144.07	
80	139.30	0.03	139.33	
85	132.79	0.38	133.17	
90	126.48	1.33	127.80	
95	120.26	5.56	125.82	
100	114.03	19.16	133.18	
105	107.84	25.47	133.32	
110	101.72	26.90	128.62	
115	95.72	26.40	122.12	
120	90.28	25.24	115.52	
125	85.73	23.55	109.28	
130	81.58	22.20	103.78	
135	77.67	21.06	98.73	
140	73.89	18.80	92.69	
145	70.23	16.57	86.81	
150	66.67	14.15	80.82	
155	63.20	12.16	75.36	
160	59.81	10.63	70.43	
165	56.43	9.38	65.81	
170	53.08	8.28	61.35	
175	49.73	7.28	57.01	
180	46.38	6.35	52.73	
185	43.04	5.48	48.52	
190	39.80	4.66	44.46	
195	37.12	3.72	40.84	
200	35.01	2.82	37.83	
205	33.21	2.02	35.22	
210	31.59	1.48	33.07	
215	30.12	1.10	31.22	
220	28.74	0.82	29.56	
225	27.45	0.61	28.06	
230	26.26	0.44	26.70	
235	25.10	0.31	25.42	
240	23.97	0.22	24.20	
245	22.85	0.17	23.02	
250	21.72	0.14	21.86	
255	20.60	0.11	20.71	
260	19.48	0.08	19.57	
265	18.36	0.06	18.43	
270	17.25	0.05	17.29	
275	16.13	0.03	16.16	
280	15.02	0.02	15.04	
285	13.91	0.01	13.92	
290	12.79	0.00	12.80	
295	11.68	0.00	11.68	
300	10.57	0.00	10.57	
305	9.46	0.00	9.46	
310	8.35	0.00	8.35	
315	7.23	0.00	7.23	
320	6.12	0.00	6.12	
325	5.01	0.00	5.01	
330	3.90	0.00	3.90	
335	2.81	0.00	2.81	
340	1.86	0.00	1.86	
345	1.27	0.00	1.27	
350	0.88	0.00	0.88	
355	0.60	0.00	0.60	
360	0.39	0.00	0.39	
365	0.24	0.00	0.24	
370	0.13	0.00	0.13	
375	0.07	0.00	0.07	
380	0.05	0.00	0.05	
385	0.03	0.00	0.03	
390	0.02	0.00	0.02	
395	0.02	0.00	0.02	
400	0.01	0.00	0.01	
405	0.01	0.00	0.01	
410	0.01	0.00	0.01	
415	0.00	0.00	0.00	
420	0.00	0.00	0.00	

time in minutes	flow in cfs									Total to H66B11	max
	H66B11	H66B7	H66B6	H66B5	H66B4	H66B3	H66B2	H66B1			
0	0.00									0.00	
5	0.00									0.00	
10	0.00									0.00	
15	0.04									0.04	
20	0.35									0.35	
25	7.30									7.30	
30	48.09									48.09	
35	107.67									107.67	
40	151.31									151.31	
45	173.70									173.70	
50	183.07	0.00								183.07	
55	182.34	0.00								182.34	
60	176.31	0.01								176.32	
65	170.98	0.13								171.11	
70	163.16	1.11								164.26	
75	151.94	18.61								170.55	
80	139.72	119.23								258.96	
85	128.16	281.02								409.17	
90	117.09	417.81								534.90	
95	106.73	495.70								602.43	
100	97.07	527.25	0.00	0.00	0.00	0.00				624.31	
105	87.77	522.79	0.00	0.00	0.00	0.00				610.56	
110	78.80	502.32	0.09	0.01	0.01	0.01				581.23	
115	70.14	482.50	1.26	0.11	0.15	0.10				554.26	
120	62.25	456.38	5.48	0.57	1.08	0.82				526.59	
125	56.31	422.30	20.33	5.90	15.96	13.71				534.51	
130	51.37	388.10	64.69	28.76	92.40	89.76				715.09	
135	46.95	353.39	131.07	45.45	180.94	223.86				981.66	
140	42.94	318.75	190.73	52.92	228.69	352.76				1186.79	
145	39.24	286.05	230.72	55.59	245.60	442.71				1299.91	
150	35.78	255.21	253.00	55.09	242.55	491.12				1332.74	
155	32.55	225.50	263.57	53.28	232.80	508.37	0.00			1316.07	
160	29.54	197.80	265.44	51.41	221.12	501.25	0.00			1266.55	
165	26.58	175.80	261.43	49.52	209.48	484.45	0.00			1207.26	
170	23.67	158.60	253.82	45.94	195.35	465.63	0.01			1143.03	
175	20.77	143.81	244.25	42.46	178.56	439.90	0.18			1069.94	
180	17.87	130.28	232.20	38.72	160.32	407.89	6.76			994.04	
185	14.98	117.74	218.23	35.02	141.42	374.63	50.99			953.01	
190	12.09	106.00	203.78	31.54	123.52	344.07	130.60			951.60	
195	9.21	95.01	190.27	28.20	106.63	315.24	207.13			951.69	
200	6.44	84.81	178.46	24.98	92.53	288.47	260.35			936.05	
205	4.30	75.02	167.80	21.99	81.99	263.53	289.55			904.18	
210	2.96	65.41	157.93	19.64	73.22	239.61	301.63	0.00		860.40	
215	2.04	55.89	148.51	17.79	65.48	216.56	300.07	0.00		806.33	
220	1.36	46.40	139.42	16.20	58.44	194.20	290.64	0.00		746.67	
225	0.88	36.93	130.16	14.69	51.73	173.02	280.40	0.07		687.87	
230	0.52	27.50	120.50	13.27	45.28	156.12	266.32	0.66		630.17	
235	0.28	18.67	110.65	11.93	39.23	142.52	248.26	9.50		581.04	
240	0.16	12.68	100.85	10.69	33.48	130.63	228.10	51.08		567.67	
245	0.11	8.81	91.68	9.53	27.87	119.90	209.87	121.00		588.77	
250	0.08	6.06	84.22	8.42	22.33	110.06	193.13	187.37		611.66	
255	0.06	4.05	78.03	7.33	16.83	100.88	177.67	233.80		618.66	
260	0.05	2.60	72.59	6.25	11.65	92.33	163.48	260.10		609.05	
265	0.03	1.54	67.68	5.18	7.92	84.38	149.92	273.11		589.78	
270	0.02	0.86	63.14	4.11	5.52	76.68	136.90	276.11		563.34	
275	0.01	0.55	58.89	3.05	3.83	69.13	124.24	271.85		531.56	
280	0.01	0.38	54.92	2.08	2.59	61.63	111.92	262.93		496.45	
285	0.00	0.29	51.22	1.45	1.69	54.14	100.04	251.99		460.81	
290	0.00	0.23	47.65	1.03	1.03	46.66	90.37	238.39		425.35	
295	0.00	0.17	44.16	0.72	0.60	39.19	82.73	222.59		390.17	
300	0.00	0.12	40.71	0.50	0.38	31.74	76.17	206.20		355.82	
305	0.00	0.08	37.29	0.34	0.27	24.31	70.28	190.80		323.37	
310	0.00	0.05	33.89	0.21	0.21	17.16	64.90	177.41		293.83	
315	0.00	0.03	30.53	0.13	0.15	11.49	59.89	165.39		267.63	
320	0.00	0.01	27.19	0.10	0.12	7.94	55.22	154.33		244.91	
325	0.00	0.00	23.88	0.07	0.09	5.52	50.87	143.81		224.23	
330	0.00	0.00	20.60	0.06	0.06	3.74	46.68	133.70		204.83	
335	0.00	0.00	17.35	0.04	0.04	2.44	42.56	123.78		186.20	
340	0.00	0.00	14.15	0.03	0.02	1.50	38.46	114.00		168.16	
345	0.00	0.00	11.02	0.02	0.01	0.85	34.37	104.31		150.59	
350	0.00	0.00	8.15	0.02	0.00	0.50	30.28	94.68		133.62	
355	0.00	0.00	5.99	0.01	0.00	0.34	26.20	85.61		118.14	
360	0.00	0.00	4.54	0.01	0.00	0.25	22.11	78.49		105.40	
365	0.00	0.00	3.48	0.00	0.00	0.20	18.03	72.74		94.45	
370	0.00	0.00	2.66	0.00	0.00	0.15	13.96	67.70		84.47	
375	0.00	0.00	2.02	0.00	0.00	0.11	9.96	63.16		75.26	
380	0.00	0.00	1.52	0.00	0.00	0.08	6.54	58.99		67.13	
385	0.00	0.00	1.14	0.00	0.00	0.05	4.44	55.08		60.71	
390	0.00	0.00	0.88	0.00	0.00	0.03	3.04	51.43		55.37	
395	0.00	0.00	0.70	0.00	0.00	0.01	2.02	48.03		50.76	
400	0.00	0.00	0.56	0.00	0.00	0.00	1.28	44.72		46.56	
405	0.00	0.00	0.44	0.00	0.00	0.00	0.75	41.47		42.65	
410	0.00	0.00	0.34	0.00	0.00	0.00	0.38	38.23		38.95	
415	0.00	0.00	0.25	0.00	0.00	0.00	0.18	35.00		35.42	
420	0.00	0.00	0.17	0.00	0.00	0.00	0.10	31.77		32.04	
425	0.00	0.00	0.11	0.00	0.00	0.00	0.06	28.55		28.72	
430	0.00	0.00	0.06	0.00	0.00	0.00	0.05	25.34		25.45	
435	0.00	0.00	0.03	0.00	0.00	0.00	0.04	22.13		22.20	
440	0.00	0.00	0.01	0.00	0.00	0.00	0.03	18.93		18.97	
445	0.00	0.00	0.00	0.00	0.00	0.00	0.02	15.74		15.76	
450	0.00	0.00	0.00	0.00	0.00	0.00	0.01	12.55		12.56	
455	0.00	0.00	0.00	0.00	0.00	0.00	0.01	9.38		9.38	
460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44		6.44	
465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.38		4.39	
470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.06		3.06	
475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13		2.13	
480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44		1.44	
485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94		0.94	
490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58		0.58	
495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33		0.33	
500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21		0.21	
505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15		0.15	
510	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12		0.12	
515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09		0.09	
520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07		0.07	
525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05		0.05	
530	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03		0.03	
535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02		0.02	
540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01		0.01	
545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	
550	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	

flow in cfs											total to H66B12	1460	
time in minutes	H66B12	H66B11	H66B10	H66B9	H66B8	H66B7	H66B6	H66B5	H66B4	H66B3			H66B2
0	0.00												0.00
5	0.00												0.00
10	0.00												0.00
15	0.02												0.02
20	0.18												0.18
25	3.25												3.25
30	22.34												22.34
35	60.79												60.79
40	107.01												107.01
45	148.78												148.78
50	180.88												180.88
55	201.57												201.57
60	214.38												214.38
65	222.11												222.11
70	224.84	0.00	0.00	0.00									224.84
75	222.07	0.00	0.00	0.00									222.07
80	214.22	0.00	0.01	0.00									214.23
85	204.22	0.04	0.12	0.01									204.39
90	194.28	0.35	0.53	0.11									195.26
95	184.30	7.30	2.77	2.18									196.56
100	174.20	48.98	18.80	15.44									248.66
105	164.14	107.67	16.18	41.91									329.91
110	154.15	151.31	18.67	72.65									396.78
115	144.55	173.70	19.94	99.61									437.80
120	136.53	183.07	20.34	119.32		0.00							459.26
125	129.56	182.34	20.02	131.54		0.00							463.46
130	123.05	176.31	19.62	139.18		0.01							458.18
135	116.84	170.98	19.31	143.92		0.13							451.19
140	110.82	163.16	19.33	145.68	0.00	1.11							439.10
145	104.95	151.94	17.25	144.07	0.00	18.61							436.82
150	99.23	139.72	15.99	139.30	0.03	119.23							513.51
155	93.67	128.16	14.85	132.79	0.38	281.02							650.87
160	88.17	117.09	13.83	126.48	1.33	417.81							764.69
165	82.69	106.73	12.89	120.26	5.56	495.70							823.82
170	77.23	97.07	12.00	114.03	19.16	527.25	0.00	0.00	0.00	0.00			846.73
175	71.78	87.77	11.14	107.84	25.47	522.99	0.00	0.00	0.00	0.00			829.80
180	66.35	78.80	10.31	101.72	26.90	502.32	0.09	0.01	0.01	0.01			796.51
185	61.15	70.14	9.50	95.72	26.40	482.50	1.26	0.11	0.15	0.10			747.03
190	57.09	62.25	8.71	90.28	25.24	456.38	5.48	0.57	1.08	0.82			707.90
195	53.82	56.31	7.87	85.73	23.55	422.30	20.33	5.90	15.96	13.71			705.49
200	50.97	51.37	7.10	81.58	22.20	388.10	64.69	28.76	92.40	89.76			876.94
205	48.40	46.95	6.50	77.67	21.06	353.39	131.07	45.45	180.94	223.86			1135.29
210	46.04	44.94	6.00	74.00	20.00	318.75	190.73	52.92	228.69	352.76			1319.52
215	43.83	39.24	5.55	70.23	16.57	286.05	230.72	55.59	245.60	442.71			1436.10
220	41.77	35.78	5.14	66.67	14.15	255.21	253.00	55.09	242.55	491.12			1460.47
225	39.85	32.55	4.77	63.20	12.16	225.50	263.57	53.28	232.80	508.37	0.00		1436.04
230	37.98	29.54	4.41	59.81	10.63	197.80	265.44	51.41	221.12	501.25	0.00		1379.38
235	36.14	26.58	4.09	56.43	9.38	175.80	261.43	49.52	209.48	484.45	0.00		1313.29
240	34.31	23.67	3.78	53.08	8.28	158.60	253.82	45.94	195.35	465.63	0.01		1242.47
245	32.48	20.77	3.48	49.73	7.28	143.81	244.25	42.86	178.56	439.90	0.18		1182.07
250	30.66	17.87	3.18	46.38	6.35	130.28	232.20	38.72	160.32	407.89	6.76		1080.61
255	28.83	14.98	2.89	43.04	5.48	117.74	218.23	35.02	141.42	374.63	50.99		1033.25
260	27.02	12.09	2.60	39.80	4.66	106.00	203.78	31.54	123.52	344.07	130.60		1025.67
265	25.20	9.21	2.31	37.12	3.72	95.01	190.27	28.20	106.63	315.24	207.13		1020.04
270	23.38	6.44	2.02	35.01	2.82	84.81	178.46	24.98	92.53	288.47	260.35		999.29
275	21.57	4.30	1.73	33.21	2.02	75.02	167.80	21.99	81.99	263.53	289.55		962.71
280	19.76	2.96	1.44	31.50	1.48	65.41	157.89	19.64	73.62	239.61	311.92	0.00	924.68
285	17.95	2.04	1.16	30.12	1.10	55.89	148.51	17.79	65.48	216.56	300.07	0.00	856.67
290	16.15	1.36	0.88	28.74	0.82	46.40	139.42	16.20	58.44	194.20	290.64	0.00	793.26
295	14.34	0.88	0.63	27.45	0.61	36.93	130.16	14.69	51.73	173.02	280.40	0.07	730.90
300	12.53	0.52	0.45	26.26	0.44	27.50	120.50	13.27	45.28	156.12	266.32	0.66	669.84
305	10.72	0.28	0.33	25.10	0.31	18.67	110.65	11.93	39.23	142.52	248.26	9.50	617.51
310	8.91	0.16	0.24	23.97	0.22	12.68	100.85	10.69	33.48	130.63	228.10	51.08	601.02
315	7.10	0.11	0.18	22.85	0.17	8.81	91.68	9.53	27.87	119.90	209.87	121.00	619.07
320	5.30	0.08	0.13	21.72	0.14	6.06	84.22	8.42	22.33	110.06	193.13	187.37	638.95
325	3.61	0.06	0.09	20.60	0.11	4.05	78.03	7.33	16.83	100.88	177.67	233.80	643.06
330	2.44	0.05	0.06	19.48	0.08	2.60	72.59	6.25	11.65	92.33	163.48	260.10	631.13
335	1.70	0.03	0.05	18.36	0.06	1.54	67.68	5.18	7.92	84.38	149.92	273.11	609.95
340	1.17	0.02	0.04	17.25	0.05	0.86	63.14	4.11	5.52	76.68	136.90	276.11	581.84
345	0.78	0.01	0.03	16.13	0.03	0.55	58.89	3.05	3.83	69.13	124.24	271.85	548.53
350	0.50	0.01	0.02	15.02	0.02	0.38	54.97	2.08	2.59	61.63	111.92	263.93	512.01
355	0.29	0.00	0.02	13.91	0.01	0.29	51.22	1.45	1.69	54.14	100.04	251.99	475.04
360	0.16	0.00	0.01	12.79	0.00	0.23	47.65	1.03	1.03	46.66	90.37	238.39	438.32
365	0.10	0.00	0.01	11.68	0.00	0.17	44.16	0.72	0.60	39.19	82.73	222.59	401.96
370	0.07	0.00	0.01	10.57	0.00	0.12	40.71	0.50	0.38	31.74	76.17	206.20	366.46
375	0.05	0.00	0.00	9.46	0.00	0.08	37.29	0.34	0.27	24.31	70.28	190.80	332.88
380	0.04	0.00	0.00	8.35	0.00	0.05	33.89	0.21	0.21	17.16	64.90	177.41	302.22
385	0.03	0.00	0.00	7.23	0.00	0.03	30.53	0.13	0.16	11.49	59.89	165.39	274.89
390	0.02	0.00	0.00	6.12	0.00	0.01	27.19	0.10	0.12	7.94	55.22	154.31	251.05
395	0.01	0.00	0.00	5.01	0.00	0.00	23.88	0.07	0.09	5.52	50.87	143.81	229.26
400	0.01	0.00	0.00	3.90	0.00	0.00	20.60	0.06	0.06	3.74	46.68	133.70	208.74
405	0.00	0.00	0.00	2.81	0.00	0.00	17.35	0.04	0.04	2.44	42.56	123.78	189.02
410	0.00	0.00	0.00	1.86	0.00	0.00	14.15	0.03	0.02	1.50	38.46	114.00	170.02
415	0.00	0.00	0.00	1.27	0.00	0.00	11.02	0.02	0.01	0.85	34.37	104.31	151.86
420	0.00	0.00	0.00	0.88	0.00	0.00	8.15	0.02	0.00	0.50	30.28	94.68	134.51
425	0.00	0.00	0.00	0.60	0.00	0.00	5.99	0.01	0.00	0.34	26.20	85.41	118.74
430	0.00	0.00	0.00	0.39	0.00	0.00	4.54	0.01	0.00	0.25	22.11	78.49	105.79
435	0.00	0.00	0.00	0.24	0.00	0.00	3.48	0.00	0.00	0.20	18.03	72.74	94.69
440	0.00	0.00	0.13	0.00	0.00	2.66	2.66	0.00	0.00	0.15	13.96	67.70	84.60
445	0.00	0.00	0.07	0.00	0.00	2.02	2.02	0.00	0.00	0.11	9.96	63.16	75.33
450	0.00	0.00	0.05	0.00	0.00	1.52	1.52	0.00	0.00	0.08	6.54	58.99	67.17
455	0.00	0.00	0.03	0.00	0.00	1.14	1.14	0.00	0.00	0.05	4.44	55.08	60.74
460	0.00	0.00	0.02	0.00	0.00	0.88	0.88	0.00	0.00	0.03	3.04	51.43	55.40
465	0.00	0.00	0.02	0.00	0.00	0.70	0.70	0.00	0.00	0.01	2.02	48.03	50.77
470	0.00	0.00	0.01	0.00	0.00	0.56	0.56	0.00	0.00	0.00	1.28	44.72	46.57
475	0.00	0.00	0.01	0.00	0.00	0.44	0.44	0.00	0.00	0.00	0.75	41.47	42.66
480	0.00	0.00	0.01	0.00	0.00	0.34	0.34	0.00	0.00	0.00	0.38	38.23	38.95
485	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.00	0.18	35.00	35.42
490	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.00	0.00	0.00	0.10	31.77	32.05
495	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.06	28.55	28.73
500	0.00	0.00	0.00	0.00	0								

HWY66 SWMM INPUT

H66B Ponding Areas

[TITLE]

;;Project Title/Notes

[OPTIONS]

```

;;Option      Value
FLOW_UNITS    CFS
INFILTRATION  HORTON
FLOW_ROUTING  DYNWAVE
LINK_OFFSETS  DEPTH
MIN_SLOPE     0
ALLOW_PONDING NO
SKIP_STEADY_STATE NO

START_DATE    05/10/2018
START_TIME    00:00:00
REPORT_START_DATE 05/10/2018
REPORT_START_TIME 00:00:00
END_DATE      05/12/2018
END_TIME      06:00:00
SWEEP_START   01/01
SWEEP_END     12/31
DRY_DAYS      0
REPORT_STEP   00:00:05
WET_STEP      00:00:05
DRY_STEP      00:00:05
ROUTING_STEP  0:00:05
    
```

```

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP     0.75
LENGTHENING_STEP  0
MIN_SURFAREA      12.557
MAX_TRIALS         8
HEAD_TOLERANCE    0.005
SYS_FLOW_TOL      5
LAT_FLOW_TOL      5
MINIMUM_STEP      0.5
THREADS           1
    
```

[EVAPORATION]

```

;;Data Source Parameters
-----
CONSTANT 0.0
DRY_ONLY NO
    
```

[JUNCTIONS]

```

;;Name      Elevation  MaxDepth  InitDepth  SurDepth  Aponded
-----
H66B6      4934       3         0          0         0
    
```

[OUTFALLS]

```

;;Name      Elevation  Type      Stage Data      Gated  Route To
-----
H66B5_0    4985.76   FREE
H66B11_0   75.56    FREE
H66B9_0    4974.24   FREE
H66B12_0   4952.82   FREE
H66B3_0    31        FREE
H66B4_0    5000     FREE
H66B8_0    4986     FREE
H66B6_0    4933.5   FREE
    
```

H66B Ponding Areas

[STORAGE]

;;Name N/A	Fevap	Elev. Psi	MaxDepth Ksat	InitDepth IMD	Shape	Curve Name/Params
H66B11 0	0	76.56	4	0	TABULAR	H66B11
H66B12 0	0	4954.9	11	0	TABULAR	H66B12
H66B2_DET 0	0	5096	7	0	TABULAR	H66B2
H66B2_RET 0	0	5100	6	0	TABULAR	H66B2_RET
H66B3 0	0	32	4	0	TABULAR	H66B3
H66B5 0	0	4986	2	0	TABULAR	H66B5
H66B9 0	0	4974.81	3	0	TABULAR	H66B9
H66B1 0	0	4937	2	0	TABULAR	H66B1
H66B4 0	0	5000.56	3	0	TABULAR	H66B4
H66B8 0	0	4987	2	0	TABULAR	H66B8

[CONDUITS]

;;Name OutOffset	InitFlow	From Node MaxFlow	To Node	Length	Roughness	InOffset
H66B5 0	0	H66B5 0	H66B5_0	45	0.023	0
H66B11 0	0	H66B11 0	H66B11_0	60	0.023	0
H66B9 0	0	H66B9 0	H66B9_0	51	0.023	0
H66B12 0	0	H66B12 0	H66B12_0	125	0.013	0
H66B4 0	0	H66B4 0	H66B4_0	35	0.023	0
H66B8 0	0	H66B8 0	H66B8_0	35	0.023	0
H66B3 0	0	H66B3 0	H66B3_0	100	0.013	0
H66B6 0	0	H66B6 0	H66B6_0	60	0.023	0

[WEIRS]

;;Name Gated	EndCon	From Node EndCoeff	To Node Surcharge	Roadwidth	Type RoadSurf	CrestHt	Qcoeff
H66B2 NO	0	H66B2_RET 0	H66B2_DET YES		TRAPEZOIDAL	5	3.33

[XSECTIONS]

;;Link Barrels	Culvert	Shape	Geom1	Geom2	Geom3	Geom4
H66B5		CIRCULAR	2	0	0	0

H66B Ponding Areas

H66B11	CIRCULAR	3	0	0	0	1
H66B9	CIRCULAR	1.5	0	0	0	1
H66B12	CIRCULAR	5	0	0	0	1
H66B4	CIRCULAR	3	0	0	0	1
H66B8	CIRCULAR	2	0	0	0	1
H66B3	RECT_CLOSED	4.33	17	0	0	1
H66B6	CIRCULAR	2.17	0	0	0	1
H66B2	TRAPEZOIDAL	1	150	10	10	

[INFLOWS]

;;Node Baseline Pattern	Constituent	Time Series	Type	Mfactor	Sfactor
H66B6	FLOW	H66B6	FLOW	1.0	1.0
H66B11	FLOW	H66B11	FLOW	1.0	1.0
H66B12	FLOW	H66B12	FLOW	1.0	1.0
H66B2_RET	FLOW	H66B2	FLOW	1.0	1.0
H66B3	FLOW	H66B3	FLOW	1.0	1.0
H66B5	FLOW	H66B5	FLOW	1.0	1.0
H66B9	FLOW	H66B9	FLOW	1.0	1.0
H66B1	FLOW	H66B1	FLOW	1.0	1.0
H66B4	FLOW	H66B4	FLOW	1.0	1.0
H66B8	FLOW	H66B8	FLOW	1.0	1.0

[CURVES]

;;Name	Type	X-Value	Y-Value
H66B1	Storage	0	0
H66B1		1	8944
H66B1		2	40225
H66B11	Storage	0	3000
H66B11		1	9400
H66B11		2	21069
H66B11		3	44731
H66B11		4	95778
H66B12	Storage	0	0
H66B12		2	3718
H66B12		3	22286
H66B12		4	41732
H66B12		5	96053
H66B12		6	127662
H66B12		7	165807
H66B12		8	202863

H66B Ponding Areas

H66B12		9	245356
H66B12		10	287408
H66B12		11	325907
;			
H66B12_RES	Storage	0	110460
H66B12_RES		0.5	110460
H66B12_RES		1.5	129030
H66B12_RES		2.5	147158
;			
H66B2	Storage	0	1017
H66B2		1	7063
H66B2		2	21144
H66B2		3	35030
H66B2		4	50150
H66B2		5	58455
H66B2		6	65550
H66B2		7	73024
;			
H66B2_RET	Storage	0	44248
H66B2_RET		1	52837
H66B2_RET		2	55956
H66B2_RET		3	66837
H66B2_RET		4	75327
H66B2_RET		5	94228
H66B2_RET		6	117687
;			
H66B3	Storage	0	145
H66B3		1	760
H66B3		2	2689
H66B3		3	10850
H66B3		4	21549
;			
H66B3_R1	Storage	0	111886
H66B3_R1		1	117732
;			
H66B3_R2	Storage	0	9025
H66B3_R2		1	15250
H66B3_R2		2	17165
H66B3_R2		3	18690
H66B3_R2		4	20230
;			
H66B3_R3	Storage	0	49188
H66B3_R3		1	68832
;			
H66B3_R4	Storage	0	31016
H66B3_R4		1	38427
H66B3_R4		2	41178
H66B3_R4		3	43527
H66B3_R4		4	45818
H66B3_R4		5	48427
H66B3_R4		6	64213
;			
H66B4	Storage	0	40
H66B4		1	390
H66B4		2	13935
H66B4		3	74324
;			
H66B5	Storage	0	3000
H66B5		1	25954
H66B5		2	107528
;			
H66B9	Storage	0	120
H66B9		1	2087

H66B Ponding Areas

H66B9		2	15797
H66B9		3	20815
H66B8	Storage	0	0
H66B8		1	745
H66B8		2	28331

[TIMESERIES]

;;Name	Date	Time	Value
H66B1	5/10/2018	0:00	0.00
H66B1	5/10/2018	0:05	0.00
H66B1	5/10/2018	0:10	0.07
H66B1	5/10/2018	0:15	0.66
H66B1	5/10/2018	0:20	9.50
H66B1	5/10/2018	0:25	51.08
H66B1	5/10/2018	0:30	121.00
H66B1	5/10/2018	0:35	187.37
H66B1	5/10/2018	0:40	233.80
H66B1	5/10/2018	0:45	260.10
H66B1	5/10/2018	0:50	273.11
H66B1	5/10/2018	0:55	276.11
H66B1	5/10/2018	1:00	271.85
H66B1	5/10/2018	1:05	262.93
H66B1	5/10/2018	1:10	251.99
H66B1	5/10/2018	1:15	238.39
H66B1	5/10/2018	1:20	222.59
H66B1	5/10/2018	1:25	206.20
H66B1	5/10/2018	1:30	190.80
H66B1	5/10/2018	1:35	177.41
H66B1	5/10/2018	1:40	165.39
H66B1	5/10/2018	1:45	154.33
H66B1	5/10/2018	1:50	143.81
H66B1	5/10/2018	1:55	133.70
H66B1	5/10/2018	2:00	123.78
H66B1	5/10/2018	2:05	114.00
H66B1	5/10/2018	2:10	104.31
H66B1	5/10/2018	2:15	94.68
H66B1	5/10/2018	2:20	85.61
H66B1	5/10/2018	2:25	78.49
H66B1	5/10/2018	2:30	72.74
H66B1	5/10/2018	2:35	67.70
H66B1	5/10/2018	2:40	63.16
H66B1	5/10/2018	2:45	58.99
H66B1	5/10/2018	2:50	55.08
H66B1	5/10/2018	2:55	51.43
H66B1	5/10/2018	3:00	48.03
H66B1	5/10/2018	3:05	44.72
H66B1	5/10/2018	3:10	41.47
H66B1	5/10/2018	3:15	38.23
H66B1	5/10/2018	3:20	35.00
H66B1	5/10/2018	3:25	31.77
H66B1	5/10/2018	3:30	28.55
H66B1	5/10/2018	3:35	25.34
H66B1	5/10/2018	3:40	22.13
H66B1	5/10/2018	3:45	18.93
H66B1	5/10/2018	3:50	15.74
H66B1	5/10/2018	3:55	12.55
H66B1	5/10/2018	4:00	9.38
H66B1	5/10/2018	4:05	6.44
H66B1	5/10/2018	4:10	4.38
H66B1	5/10/2018	4:15	3.06
H66B1	5/10/2018	4:20	2.13

H66B Ponding Areas

H66B1	5/10/2018	4:25	1.44
H66B1	5/10/2018	4:30	0.94
H66B1	5/10/2018	4:35	0.58
H66B1	5/10/2018	4:40	0.33
H66B1	5/10/2018	4:45	0.21
H66B1	5/10/2018	4:50	0.15
H66B1	5/10/2018	4:55	0.12
H66B1	5/10/2018	5:00	0.09
H66B1	5/10/2018	5:05	0.07
H66B1	5/10/2018	5:10	0.05
H66B1	5/10/2018	5:15	0.03
H66B1	5/10/2018	5:20	0.02
H66B1	5/10/2018	5:25	0.01
H66B1	5/10/2018	5:30	0.00
H66B1	5/10/2018	5:35	0.00
H66B1	5/10/2018	5:40	0.00
H66B1	5/10/2018	5:45	0.00
H66B1	5/10/2018	5:50	0.00
H66B1	5/10/2018	5:55	0.00
H66B1	5/10/2018	6:00	0.00
H66B1	5/10/2018	6:05	0.00
H66B1	5/10/2018	6:10	0.00
H66B1	5/10/2018	6:15	0.00
H66B1	5/10/2018	6:20	0.00
H66B1	5/10/2018	6:25	0.00
H66B1	5/10/2018	6:30	0.00
H66B1	5/10/2018	6:35	0.00
H66B1	5/10/2018	6:40	0.00
H66B1	5/10/2018	6:45	0.00
H66B1	5/10/2018	6:50	0.00
H66B1	5/10/2018	6:55	0.00
H66B1	5/10/2018	7:00	0.00
H66B1	5/10/2018	7:05	0.00
H66B1	5/10/2018	7:10	0.00
H66B1	5/10/2018	7:15	0.00
H66B1	5/10/2018	7:20	0.00
H66B1	5/10/2018	7:25	0.00
H66B1	5/10/2018	7:30	0.00
H66B1	5/10/2018	7:35	0.00
H66B1	5/10/2018	7:40	0.00
H66B1	5/10/2018	7:45	0.00
H66B1	5/10/2018	7:50	0.00
H66B1	5/10/2018	7:55	0.00
H66B1	5/10/2018	8:00	0.00
H66B1	5/10/2018	8:05	0.00
H66B1	5/10/2018	8:10	0.00
H66B1	5/10/2018	8:15	0.00
H66B1	5/10/2018	8:20	0.00
H66B1	5/10/2018	8:25	0.00
H66B1	5/10/2018	8:30	0
H66B11	5/10/2018	0:00	0.00
H66B11	5/10/2018	0:05	0.00
H66B11	5/10/2018	0:10	0.00
H66B11	5/10/2018	0:15	0.04
H66B11	5/10/2018	0:20	0.35
H66B11	5/10/2018	0:25	7.30
H66B11	5/10/2018	0:30	48.09
H66B11	5/10/2018	0:35	107.67
H66B11	5/10/2018	0:40	151.31
H66B11	5/10/2018	0:45	173.70
H66B11	5/10/2018	0:50	183.07
H66B11	5/10/2018	0:55	182.34

H66B Ponding Areas

H66B11	5/10/2018	1:00	176.32
H66B11	5/10/2018	1:05	171.11
H66B11	5/10/2018	1:10	164.26
H66B11	5/10/2018	1:15	170.55
H66B11	5/10/2018	1:20	258.96
H66B11	5/10/2018	1:25	409.17
H66B11	5/10/2018	1:30	534.90
H66B11	5/10/2018	1:35	602.43
H66B11	5/10/2018	1:40	624.31
H66B11	5/10/2018	1:45	610.56
H66B11	5/10/2018	1:50	581.23
H66B11	5/10/2018	1:55	554.26
H66B11	5/10/2018	2:00	526.59
H66B11	5/10/2018	2:05	534.51
H66B11	5/10/2018	2:10	715.09
H66B11	5/10/2018	2:15	981.66
H66B11	5/10/2018	2:20	1186.79
H66B11	5/10/2018	2:25	1299.91
H66B11	5/10/2018	2:30	1332.74
H66B11	5/10/2018	2:35	1316.07
H66B11	5/10/2018	2:40	1266.55
H66B11	5/10/2018	2:45	1207.26
H66B11	5/10/2018	2:50	1143.03
H66B11	5/10/2018	2:55	1069.94
H66B11	5/10/2018	3:00	994.04
H66B11	5/10/2018	3:05	953.01
H66B11	5/10/2018	3:10	951.60
H66B11	5/10/2018	3:15	951.69
H66B11	5/10/2018	3:20	936.05
H66B11	5/10/2018	3:25	904.18
H66B11	5/10/2018	3:30	860.40
H66B11	5/10/2018	3:35	806.33
H66B11	5/10/2018	3:40	746.67
H66B11	5/10/2018	3:45	687.87
H66B11	5/10/2018	3:50	630.17
H66B11	5/10/2018	3:55	581.04
H66B11	5/10/2018	4:00	567.67
H66B11	5/10/2018	4:05	588.77
H66B11	5/10/2018	4:10	611.66
H66B11	5/10/2018	4:15	618.66
H66B11	5/10/2018	4:20	609.05
H66B11	5/10/2018	4:25	589.78
H66B11	5/10/2018	4:30	563.34
H66B11	5/10/2018	4:35	531.56
H66B11	5/10/2018	4:40	496.45
H66B11	5/10/2018	4:45	460.81
H66B11	5/10/2018	4:50	425.35
H66B11	5/10/2018	4:55	390.17
H66B11	5/10/2018	5:00	355.82
H66B11	5/10/2018	5:05	323.37
H66B11	5/10/2018	5:10	293.83
H66B11	5/10/2018	5:15	267.63
H66B11	5/10/2018	5:20	244.91
H66B11	5/10/2018	5:25	224.23
H66B11	5/10/2018	5:30	204.83
H66B11	5/10/2018	5:35	186.20
H66B11	5/10/2018	5:40	168.16
H66B11	5/10/2018	5:45	150.59
H66B11	5/10/2018	5:50	133.62
H66B11	5/10/2018	5:55	118.14
H66B11	5/10/2018	6:00	105.40
H66B11	5/10/2018	6:05	94.45
H66B11	5/10/2018	6:10	84.47

H66B Ponding Areas

H66B11	5/10/2018	6:15	75.26
H66B11	5/10/2018	6:20	67.13
H66B11	5/10/2018	6:25	60.71
H66B11	5/10/2018	6:30	55.37
H66B11	5/10/2018	6:35	50.76
H66B11	5/10/2018	6:40	46.56
H66B11	5/10/2018	6:45	42.65
H66B11	5/10/2018	6:50	38.95
H66B11	5/10/2018	6:55	35.42
H66B11	5/10/2018	7:00	32.04
H66B11	5/10/2018	7:05	28.72
H66B11	5/10/2018	7:10	25.45
H66B11	5/10/2018	7:15	22.20
H66B11	5/10/2018	7:20	18.97
H66B11	5/10/2018	7:25	15.76
H66B11	5/10/2018	7:30	12.56
H66B11	5/10/2018	7:35	9.38
H66B11	5/10/2018	7:40	6.44
H66B11	5/10/2018	7:45	4.39
H66B11	5/10/2018	7:50	3.06
H66B11	5/10/2018	7:55	2.13
H66B11	5/10/2018	8:00	1.44
H66B11	5/10/2018	8:05	0.94
H66B11	5/10/2018	8:10	0.58
H66B11	5/10/2018	8:15	0.33
H66B11	5/10/2018	8:20	0.21
H66B11	5/10/2018	8:25	0.15
H66B11	5/10/2018	8:30	0.12
H66B11	5/10/2018	8:35	0.09
H66B11	5/10/2018	8:40	0.07
H66B11	5/10/2018	8:45	0.05
H66B11	5/10/2018	8:50	0.03
H66B11	5/10/2018	8:55	0.02
H66B11	5/10/2018	9:00	0.01
H66B11	5/10/2018	9:05	0.00
H66B11	5/10/2018	9:10	0.00
H66B11	5/10/2018	9:15	0.00
H66B11	5/10/2018	9:20	0.00
H66B11	5/10/2018	9:25	0.00
H66B11	5/10/2018	9:30	0.00
H66B11	5/10/2018	9:35	0.00
H66B11	5/10/2018	9:40	0.00
H66B11	5/10/2018	9:45	0.00
H66B11	5/10/2018	9:50	0.00
H66B11	5/10/2018	9:55	0.00
H66B11	5/10/2018	10:00	0.00
H66B11	5/10/2018	10:05	0.00
H66B11	5/10/2018	10:10	0.00
H66B11	5/10/2018	10:15	0.00
H66B11	5/10/2018	10:20	0.00
H66B11	5/10/2018	10:25	0.00
H66B11	5/10/2018	10:30	0.00
H66B11	5/10/2018	10:35	0.00
H66B11	5/10/2018	10:40	0.00
H66B11	5/10/2018	10:45	0.00
H66B11	5/10/2018	10:50	0.00
H66B11	5/10/2018	10:55	0.00
H66B11	5/10/2018	11:00	0.00
H66B11	5/10/2018	11:05	0.00
H66B11	5/10/2018	11:10	0.00
H66B11	5/10/2018	11:15	0.00
H66B11	5/10/2018	11:20	0.00
H66B11	5/10/2018	11:25	0.00

H66B Ponding Areas

H66B11	5/10/2018	11:30	0.00
H66B11	5/10/2018	11:35	0.00
;			
H66B12	5/10/2018	0:00	0
H66B12	5/10/2018	0:05	0
H66B12	5/10/2018	0:10	0.001382678
H66B12	5/10/2018	0:15	0.019831971
H66B12	5/10/2018	0:20	0.180964085
H66B12	5/10/2018	0:25	3.245230712
H66B12	5/10/2018	0:30	22.32911435
H66B12	5/10/2018	0:35	60.78694158
H66B12	5/10/2018	0:40	107.0062349
H66B12	5/10/2018	0:45	148.7808951
H66B12	5/10/2018	0:50	180.8809087
H66B12	5/10/2018	0:55	201.5737254
H66B12	5/10/2018	1:00	214.3827819
H66B12	5/10/2018	1:05	222.1093165
H66B12	5/10/2018	1:10	224.8429411
H66B12	5/10/2018	1:15	222.0653665
H66B12	5/10/2018	1:20	214.2292314
H66B12	5/10/2018	1:25	204.3869439
H66B12	5/10/2018	1:30	195.2635921
H66B12	5/10/2018	1:35	196.5553039
H66B12	5/10/2018	1:40	248.6564566
H66B12	5/10/2018	1:45	329.9066282
H66B12	5/10/2018	1:50	396.7830422
H66B12	5/10/2018	1:55	437.7975145
H66B12	5/10/2018	2:00	459.256013
H66B12	5/10/2018	2:05	463.4599146
H66B12	5/10/2018	2:10	458.1767469
H66B12	5/10/2018	2:15	451.1850495
H66B12	5/10/2018	2:20	439.1041683
H66B12	5/10/2018	2:25	436.8211392
H66B12	5/10/2018	2:30	513.5129574
H66B12	5/10/2018	2:35	650.8711376
H66B12	5/10/2018	2:40	764.6940109
H66B12	5/10/2018	2:45	823.8236799
H66B12	5/10/2018	2:50	846.730297
H66B12	5/10/2018	2:55	826.8010156
H66B12	5/10/2018	3:00	786.513525
H66B12	5/10/2018	3:05	747.0321581
H66B12	5/10/2018	3:10	707.9048468
H66B12	5/10/2018	3:15	705.4855172
H66B12	5/10/2018	3:20	876.9363983
H66B12	5/10/2018	3:25	1135.285913
H66B12	5/10/2018	3:30	1331.521574
H66B12	5/10/2018	3:35	1436.101541
H66B12	5/10/2018	3:40	1460.469689
H66B12	5/10/2018	3:45	1436.042564
H66B12	5/10/2018	3:50	1379.377708
H66B12	5/10/2018	3:55	1313.292865
H66B12	5/10/2018	4:00	1242.469086
H66B12	5/10/2018	4:05	1162.901506
H66B12	5/10/2018	4:10	1080.609802
H66B12	5/10/2018	4:15	1033.24685
H66B12	5/10/2018	4:20	1025.674332
H66B12	5/10/2018	4:25	1020.035405
H66B12	5/10/2018	4:30	999.2853494
H66B12	5/10/2018	4:35	962.710169
H66B12	5/10/2018	4:40	914.6768049
H66B12	5/10/2018	4:45	856.6656152
H66B12	5/10/2018	4:50	793.2627309
H66B12	5/10/2018	4:55	730.8954697

H66B Ponding Areas

H66B12	5/10/2018	5:00	669.8414985
H66B12	5/10/2018	5:05	617.5107361
H66B12	5/10/2018	5:10	601.0200581
H66B12	5/10/2018	5:15	619.0698002
H66B12	5/10/2018	5:20	638.9511111
H66B12	5/10/2018	5:25	643.063582
H66B12	5/10/2018	5:30	631.1281623
H66B12	5/10/2018	5:35	609.94786
H66B12	5/10/2018	5:40	581.8397183
H66B12	5/10/2018	5:45	548.5268639
H66B12	5/10/2018	5:50	512.0074864
H66B12	5/10/2018	5:55	475.0376983
H66B12	5/10/2018	6:00	438.3178178
H66B12	5/10/2018	6:05	401.9619375
H66B12	5/10/2018	6:10	366.4624932
H66B12	5/10/2018	6:15	332.8813069
H66B12	5/10/2018	6:20	302.2201652
H66B12	5/10/2018	6:25	274.8914595
H66B12	5/10/2018	6:30	251.053799
H66B12	5/10/2018	6:35	229.258568
H66B12	5/10/2018	6:40	208.7384487
H66B12	5/10/2018	6:45	189.0163249
H66B12	5/10/2018	6:50	170.0161241
H66B12	5/10/2018	6:55	151.8603544
H66B12	5/10/2018	7:00	134.5050049
H66B12	5/10/2018	7:05	118.7368916
H66B12	5/10/2018	7:10	105.7892298
H66B12	5/10/2018	7:15	94.6855835
H66B12	5/10/2018	7:20	84.60432901
H66B12	5/10/2018	7:25	75.3273338
H66B12	5/10/2018	7:30	67.17412605
H66B12	5/10/2018	7:35	60.74332133
H66B12	5/10/2018	7:40	55.39931052
H66B12	5/10/2018	7:45	50.77487184
H66B12	5/10/2018	7:50	46.5703628
H66B12	5/10/2018	7:55	42.66412368
H66B12	5/10/2018	8:00	38.95211903
H66B12	5/10/2018	8:05	35.42323792
H66B12	5/10/2018	8:10	32.04625224
H66B12	5/10/2018	8:15	28.72440753
H66B12	5/10/2018	8:20	25.44969213
H66B12	5/10/2018	8:25	22.19705765
H66B12	5/10/2018	8:30	18.96592711
H66B12	5/10/2018	8:35	15.75644186
H66B12	5/10/2018	8:40	12.5621136
H66B12	5/10/2018	8:45	9.384942933
H66B12	5/10/2018	8:50	6.442222119
H66B12	5/10/2018	8:55	4.385006112
H66B12	5/10/2018	9:00	3.062742149
H66B12	5/10/2018	9:05	2.128362318
H66B12	5/10/2018	9:10	1.442260597
H66B12	5/10/2018	9:15	0.94113815
H66B12	5/10/2018	9:20	0.57580072
H66B12	5/10/2018	9:25	0.333532737
H66B12	5/10/2018	9:30	0.214680075
H66B12	5/10/2018	9:35	0.150960617
H66B12	5/10/2018	9:40	0.115873643
H66B12	5/10/2018	9:45	0.090970787
H66B12	5/10/2018	9:50	0.069072658
H66B12	5/10/2018	9:55	0.050180952
H66B12	5/10/2018	10:00	0.03429666
H66B12	5/10/2018	10:05	0.021420359
H66B12	5/10/2018	10:10	0.011552384

H66B Ponding Areas

H66B12	5/10/2018	10:15	0.004692931
H66B12	5/10/2018	10:20	0.000842114
H66B12	5/10/2018	10:25	0
H66B12	5/10/2018	10:30	0
H66B12	5/10/2018	10:35	0
H66B12	5/10/2018	10:40	0
H66B12	5/10/2018	10:45	0
H66B12	5/10/2018	10:50	0
H66B12	5/10/2018	10:55	0
H66B12	5/10/2018	11:00	0
H66B12	5/10/2018	11:05	0
H66B12	5/10/2018	11:10	0
H66B12	5/10/2018	11:15	0
H66B12	5/10/2018	11:20	0
H66B12	5/10/2018	11:25	0
H66B12	5/10/2018	11:30	0
H66B12	5/10/2018	11:35	0
H66B12	5/10/2018	11:40	0
H66B12	5/10/2018	11:45	0
H66B12	5/10/2018	11:50	0
;			
H66B2	5/10/2018	0:00	0.00
H66B2	5/10/2018	0:05	0.00
H66B2	5/10/2018	0:10	0.00
H66B2	5/10/2018	0:15	0.01
H66B2	5/10/2018	0:20	0.18
H66B2	5/10/2018	0:25	6.76
H66B2	5/10/2018	0:30	50.99
H66B2	5/10/2018	0:35	130.60
H66B2	5/10/2018	0:40	207.13
H66B2	5/10/2018	0:45	260.35
H66B2	5/10/2018	0:50	289.55
H66B2	5/10/2018	0:55	301.63
H66B2	5/10/2018	1:00	300.07
H66B2	5/10/2018	1:05	290.64
H66B2	5/10/2018	1:10	280.47
H66B2	5/10/2018	1:15	266.98
H66B2	5/10/2018	1:20	257.75
H66B2	5/10/2018	1:25	279.17
H66B2	5/10/2018	1:30	330.87
H66B2	5/10/2018	1:35	380.50
H66B2	5/10/2018	1:40	411.47
H66B2	5/10/2018	1:45	423.58
H66B2	5/10/2018	1:50	423.03
H66B2	5/10/2018	1:55	413.00
H66B2	5/10/2018	2:00	396.08
H66B2	5/10/2018	2:05	374.85
H66B2	5/10/2018	2:10	352.03
H66B2	5/10/2018	2:15	328.75
H66B2	5/10/2018	2:20	305.32
H66B2	5/10/2018	2:25	282.36
H66B2	5/10/2018	2:30	261.08
H66B2	5/10/2018	2:35	242.31
H66B2	5/10/2018	2:40	225.28
H66B2	5/10/2018	2:45	209.55
H66B2	5/10/2018	2:50	194.68
H66B2	5/10/2018	2:55	180.38
H66B2	5/10/2018	3:00	166.33
H66B2	5/10/2018	3:05	152.46
H66B2	5/10/2018	3:10	138.68
H66B2	5/10/2018	3:15	124.96
H66B2	5/10/2018	3:20	111.81
H66B2	5/10/2018	3:25	100.61

H66B Ponding Areas

H66B2	5/10/2018	3:30	90.77
H66B2	5/10/2018	3:35	81.66
H66B2	5/10/2018	3:40	73.13
H66B2	5/10/2018	3:45	65.53
H66B2	5/10/2018	3:50	59.52
H66B2	5/10/2018	3:55	54.46
H66B2	5/10/2018	4:00	50.04
H66B2	5/10/2018	4:05	45.99
H66B2	5/10/2018	4:10	42.21
H66B2	5/10/2018	4:15	38.61
H66B2	5/10/2018	4:20	35.17
H66B2	5/10/2018	4:25	31.87
H66B2	5/10/2018	4:30	28.62
H66B2	5/10/2018	4:35	25.39
H66B2	5/10/2018	4:40	22.17
H66B2	5/10/2018	4:45	18.96
H66B2	5/10/2018	4:50	15.76
H66B2	5/10/2018	4:55	12.56
H66B2	5/10/2018	5:00	9.38
H66B2	5/10/2018	5:05	6.44
H66B2	5/10/2018	5:10	4.39
H66B2	5/10/2018	5:15	3.06
H66B2	5/10/2018	5:20	2.13
H66B2	5/10/2018	5:25	1.44
H66B2	5/10/2018	5:30	0.94
H66B2	5/10/2018	5:35	0.58
H66B2	5/10/2018	5:40	0.33
H66B2	5/10/2018	5:45	0.21
H66B2	5/10/2018	5:50	0.15
H66B2	5/10/2018	5:55	0.12
H66B2	5/10/2018	6:00	0.09
H66B2	5/10/2018	6:05	0.07
H66B2	5/10/2018	6:10	0.05
H66B2	5/10/2018	6:15	0.03
H66B2	5/10/2018	6:20	0.02
H66B2	5/10/2018	6:25	0.01
H66B2	5/10/2018	6:30	0.00
H66B2	5/10/2018	6:35	0.00
H66B2	5/10/2018	6:40	0.00
H66B2	5/10/2018	6:45	0.00
H66B2	5/10/2018	6:50	0.00
H66B2	5/10/2018	6:55	0.00
H66B2	5/10/2018	7:00	0.00
H66B2	5/10/2018	7:05	0.00
H66B2	5/10/2018	7:10	0.00
H66B2	5/10/2018	7:15	0.00
H66B2	5/10/2018	7:20	0.00
H66B2	5/10/2018	7:25	0.00
H66B2	5/10/2018	7:30	0.00
H66B2	5/10/2018	7:35	0.00
H66B2	5/10/2018	7:40	0.00
H66B2	5/10/2018	7:45	0.00
H66B2	5/10/2018	7:50	0.00
H66B2	5/10/2018	7:55	0.00
H66B2	5/10/2018	8:00	0.00
H66B2	5/10/2018	8:05	0.00
H66B2	5/10/2018	8:10	0.00
H66B2	5/10/2018	8:15	0.00
H66B2	5/10/2018	8:20	0.00
H66B2	5/10/2018	8:25	0.00
H66B2	5/10/2018	8:30	0
;			
H66B3	5/10/2018	0:00	0.00

H66B Ponding Areas

H66B3	5/10/2018	0:05	0.00
H66B3	5/10/2018	0:10	0.01
H66B3	5/10/2018	0:15	0.10
H66B3	5/10/2018	0:20	0.82
H66B3	5/10/2018	0:25	13.71
H66B3	5/10/2018	0:30	89.76
H66B3	5/10/2018	0:35	223.86
H66B3	5/10/2018	0:40	352.76
H66B3	5/10/2018	0:45	442.71
H66B3	5/10/2018	0:50	491.12
H66B3	5/10/2018	0:55	508.37
H66B3	5/10/2018	1:00	501.25
H66B3	5/10/2018	1:05	484.45
H66B3	5/10/2018	1:10	465.64
H66B3	5/10/2018	1:15	440.08
H66B3	5/10/2018	1:20	414.65
H66B3	5/10/2018	1:25	425.62
H66B3	5/10/2018	1:30	474.67
H66B3	5/10/2018	1:35	522.37
H66B3	5/10/2018	1:40	548.82
H66B3	5/10/2018	1:45	553.09
H66B3	5/10/2018	1:50	541.24
H66B3	5/10/2018	1:55	516.63
H66B3	5/10/2018	2:00	484.84
H66B3	5/10/2018	2:05	453.49
H66B3	5/10/2018	2:10	423.10
H66B3	5/10/2018	2:15	400.27
H66B3	5/10/2018	2:20	409.80
H66B3	5/10/2018	2:25	450.77
H66B3	5/10/2018	2:30	490.56
H66B3	5/10/2018	2:35	512.35
H66B3	5/10/2018	2:40	515.92
H66B3	5/10/2018	2:45	507.42
H66B3	5/10/2018	2:50	489.69
H66B3	5/10/2018	2:55	465.22
H66B3	5/10/2018	3:00	436.48
H66B3	5/10/2018	3:05	406.17
H66B3	5/10/2018	3:10	375.41
H66B3	5/10/2018	3:15	344.52
H66B3	5/10/2018	3:20	314.10
H66B3	5/10/2018	3:25	285.39
H66B3	5/10/2018	3:30	259.47
H66B3	5/10/2018	3:35	236.77
H66B3	5/10/2018	3:40	217.49
H66B3	5/10/2018	3:45	200.19
H66B3	5/10/2018	3:50	184.11
H66B3	5/10/2018	3:55	168.78
H66B3	5/10/2018	4:00	153.96
H66B3	5/10/2018	4:05	139.54
H66B3	5/10/2018	4:10	125.46
H66B3	5/10/2018	4:15	112.15
H66B3	5/10/2018	4:20	100.86
H66B3	5/10/2018	4:25	90.97
H66B3	5/10/2018	4:30	81.81
H66B3	5/10/2018	4:35	73.24
H66B3	5/10/2018	4:40	65.61
H66B3	5/10/2018	4:45	59.57
H66B3	5/10/2018	4:50	54.49
H66B3	5/10/2018	4:55	50.05
H66B3	5/10/2018	5:00	46.00
H66B3	5/10/2018	5:05	42.21
H66B3	5/10/2018	5:10	38.61
H66B3	5/10/2018	5:15	35.17

H66B Ponding Areas

H66B3	5/10/2018	5:20	31.87
H66B3	5/10/2018	5:25	28.62
H66B3	5/10/2018	5:30	25.39
H66B3	5/10/2018	5:35	22.17
H66B3	5/10/2018	5:40	18.96
H66B3	5/10/2018	5:45	15.76
H66B3	5/10/2018	5:50	12.56
H66B3	5/10/2018	5:55	9.38
H66B3	5/10/2018	6:00	6.44
H66B3	5/10/2018	6:05	4.39
H66B3	5/10/2018	6:10	3.06
H66B3	5/10/2018	6:15	2.13
H66B3	5/10/2018	6:20	1.44
H66B3	5/10/2018	6:25	0.94
H66B3	5/10/2018	6:30	0.58
H66B3	5/10/2018	6:35	0.33
H66B3	5/10/2018	6:40	0.21
H66B3	5/10/2018	6:45	0.15
H66B3	5/10/2018	6:50	0.12
H66B3	5/10/2018	6:55	0.09
H66B3	5/10/2018	7:00	0.07
H66B3	5/10/2018	7:05	0.05
H66B3	5/10/2018	7:10	0.03
H66B3	5/10/2018	7:15	0.02
H66B3	5/10/2018	7:20	0.01
H66B3	5/10/2018	7:25	0.00
H66B3	5/10/2018	7:30	0.00
H66B3	5/10/2018	7:35	0.00
H66B3	5/10/2018	7:40	0.00
H66B3	5/10/2018	7:45	0.00
H66B3	5/10/2018	7:50	0.00
H66B3	5/10/2018	7:55	0.00
H66B3	5/10/2018	8:00	0.00
H66B3	5/10/2018	8:05	0.00
H66B3	5/10/2018	8:10	0.00
H66B3	5/10/2018	8:15	0.00
H66B3	5/10/2018	8:20	0.00
H66B3	5/10/2018	8:25	0.00
H66B3	5/10/2018	8:30	0.00
H66B3	5/10/2018	8:35	0.00
H66B3	5/10/2018	8:40	0.00
H66B3	5/10/2018	8:45	0.00
H66B3	5/10/2018	8:50	0.00
H66B3	5/10/2018	8:55	0.00
H66B3	5/10/2018	9:00	0.00
H66B3	5/10/2018	9:05	0.00
H66B3	5/10/2018	9:10	0.00
H66B3	5/10/2018	9:15	0.00
H66B3	5/10/2018	9:20	0.00
H66B3	5/10/2018	9:25	0.00
H66B3	5/10/2018	9:30	0.00
H66B3	5/10/2018	9:35	0.00
H66B3	5/10/2018	9:40	0.00
H66B3	5/10/2018	9:45	0.00
H66B3	5/10/2018	9:50	0.00
H66B3	5/10/2018	9:55	0.00
;			
H66B4	5/10/2018	0:00	0.00
H66B4	5/10/2018	0:05	0.00
H66B4	5/10/2018	0:10	0.01
H66B4	5/10/2018	0:15	0.15
H66B4	5/10/2018	0:20	1.08
H66B4	5/10/2018	0:25	15.96

H66B Ponding Areas

H66B4	5/10/2018	0:30	92.40
H66B4	5/10/2018	0:35	180.94
H66B4	5/10/2018	0:40	228.69
H66B4	5/10/2018	0:45	245.60
H66B4	5/10/2018	0:50	242.55
H66B4	5/10/2018	0:55	232.80
H66B4	5/10/2018	1:00	221.12
H66B4	5/10/2018	1:05	209.48
H66B4	5/10/2018	1:10	195.35
H66B4	5/10/2018	1:15	178.56
H66B4	5/10/2018	1:20	160.32
H66B4	5/10/2018	1:25	141.42
H66B4	5/10/2018	1:30	123.52
H66B4	5/10/2018	1:35	106.63
H66B4	5/10/2018	1:40	92.53
H66B4	5/10/2018	1:45	81.99
H66B4	5/10/2018	1:50	73.22
H66B4	5/10/2018	1:55	65.48
H66B4	5/10/2018	2:00	58.44
H66B4	5/10/2018	2:05	51.73
H66B4	5/10/2018	2:10	45.28
H66B4	5/10/2018	2:15	39.23
H66B4	5/10/2018	2:20	33.48
H66B4	5/10/2018	2:25	27.87
H66B4	5/10/2018	2:30	22.33
H66B4	5/10/2018	2:35	16.83
H66B4	5/10/2018	2:40	11.65
H66B4	5/10/2018	2:45	7.92
H66B4	5/10/2018	2:50	5.52
H66B4	5/10/2018	2:55	3.83
H66B4	5/10/2018	3:00	2.59
H66B4	5/10/2018	3:05	1.69
H66B4	5/10/2018	3:10	1.03
H66B4	5/10/2018	3:15	0.60
H66B4	5/10/2018	3:20	0.38
H66B4	5/10/2018	3:25	0.27
H66B4	5/10/2018	3:30	0.21
H66B4	5/10/2018	3:35	0.16
H66B4	5/10/2018	3:40	0.12
H66B4	5/10/2018	3:45	0.09
H66B4	5/10/2018	3:50	0.06
H66B4	5/10/2018	3:55	0.04
H66B4	5/10/2018	4:00	0.02
H66B4	5/10/2018	4:05	0.01
H66B4	5/10/2018	4:10	0.00
H66B4	5/10/2018	4:15	0.00
H66B4	5/10/2018	4:20	0.00
H66B4	5/10/2018	4:25	0.00
H66B4	5/10/2018	4:30	0.00
H66B4	5/10/2018	4:35	0.00
H66B4	5/10/2018	4:40	0.00
H66B4	5/10/2018	4:45	0.00
H66B4	5/10/2018	4:50	0.00
H66B4	5/10/2018	4:55	0.00
H66B4	5/10/2018	5:00	0.00
H66B4	5/10/2018	5:05	0.00
H66B4	5/10/2018	5:10	0.00
H66B4	5/10/2018	5:15	0.00
H66B4	5/10/2018	5:20	0.00
H66B4	5/10/2018	5:25	0.00
H66B4	5/10/2018	5:30	0.00
H66B4	5/10/2018	5:35	0.00
H66B4	5/10/2018	5:40	0.00

H66B Ponding Areas

H66B4	5/10/2018	5:45	0.00
H66B4	5/10/2018	5:50	0.00
H66B4	5/10/2018	5:55	0.00
H66B4	5/10/2018	6:00	0.00
H66B4	5/10/2018	6:05	0.00
H66B4	5/10/2018	6:10	0.00
H66B4	5/10/2018	6:15	0.00
H66B4	5/10/2018	6:20	0.00
H66B4	5/10/2018	6:25	0.00
H66B4	5/10/2018	6:30	0.00
H66B4	5/10/2018	6:35	0.00
H66B4	5/10/2018	6:40	0.00
H66B4	5/10/2018	6:45	0.00
H66B4	5/10/2018	6:50	0.00
H66B4	5/10/2018	6:55	0.00
H66B4	5/10/2018	7:00	0.00
H66B4	5/10/2018	7:05	0.00
H66B4	5/10/2018	7:10	0.00
;			
H66B5	5/10/2018	0:00	0.00
H66B5	5/10/2018	0:05	0.00
H66B5	5/10/2018	0:10	0.01
H66B5	5/10/2018	0:15	0.11
H66B5	5/10/2018	0:20	0.57
H66B5	5/10/2018	0:25	5.90
H66B5	5/10/2018	0:30	28.76
H66B5	5/10/2018	0:35	45.45
H66B5	5/10/2018	0:40	52.92
H66B5	5/10/2018	0:45	55.59
H66B5	5/10/2018	0:50	55.09
H66B5	5/10/2018	0:55	53.28
H66B5	5/10/2018	1:00	51.41
H66B5	5/10/2018	1:05	49.52
H66B5	5/10/2018	1:10	45.94
H66B5	5/10/2018	1:15	42.46
H66B5	5/10/2018	1:20	38.72
H66B5	5/10/2018	1:25	35.02
H66B5	5/10/2018	1:30	31.54
H66B5	5/10/2018	1:35	28.20
H66B5	5/10/2018	1:40	24.98
H66B5	5/10/2018	1:45	21.99
H66B5	5/10/2018	1:50	19.64
H66B5	5/10/2018	1:55	17.79
H66B5	5/10/2018	2:00	16.20
H66B5	5/10/2018	2:05	14.69
H66B5	5/10/2018	2:10	13.27
H66B5	5/10/2018	2:15	11.93
H66B5	5/10/2018	2:20	10.69
H66B5	5/10/2018	2:25	9.53
H66B5	5/10/2018	2:30	8.42
H66B5	5/10/2018	2:35	7.33
H66B5	5/10/2018	2:40	6.25
H66B5	5/10/2018	2:45	5.18
H66B5	5/10/2018	2:50	4.11
H66B5	5/10/2018	2:55	3.05
H66B5	5/10/2018	3:00	2.08
H66B5	5/10/2018	3:05	1.45
H66B5	5/10/2018	3:10	1.03
H66B5	5/10/2018	3:15	0.72
H66B5	5/10/2018	3:20	0.50
H66B5	5/10/2018	3:25	0.34
H66B5	5/10/2018	3:30	0.21
H66B5	5/10/2018	3:35	0.13

H66B Ponding Areas

H66B5	5/10/2018	3:40	0.10
H66B5	5/10/2018	3:45	0.07
H66B5	5/10/2018	3:50	0.06
H66B5	5/10/2018	3:55	0.04
H66B5	5/10/2018	4:00	0.03
H66B5	5/10/2018	4:05	0.02
H66B5	5/10/2018	4:10	0.02
H66B5	5/10/2018	4:15	0.01
H66B5	5/10/2018	4:20	0.01
H66B5	5/10/2018	4:25	0.00
H66B5	5/10/2018	4:30	0.00
H66B5	5/10/2018	4:35	0.00
H66B5	5/10/2018	4:40	0.00
H66B5	5/10/2018	4:45	0.00
H66B5	5/10/2018	4:50	0.00
H66B5	5/10/2018	4:55	0.00
H66B5	5/10/2018	5:00	0.00
H66B5	5/10/2018	5:05	0.00
H66B5	5/10/2018	5:10	0.00
H66B5	5/10/2018	5:15	0.00
H66B5	5/10/2018	5:20	0.00
H66B5	5/10/2018	5:25	0.00
H66B5	5/10/2018	5:30	0.00
H66B5	5/10/2018	5:35	0.00
H66B5	5/10/2018	5:40	0.00
H66B5	5/10/2018	5:45	0.00
H66B5	5/10/2018	5:50	0.00
H66B5	5/10/2018	5:55	0.00
H66B5	5/10/2018	6:00	0.00
H66B5	5/10/2018	6:05	0.00
H66B5	5/10/2018	6:10	0.00
H66B5	5/10/2018	6:15	0.00
H66B5	5/10/2018	6:20	0.00
H66B5	5/10/2018	6:25	0.00
H66B5	5/10/2018	6:30	0.00
H66B5	5/10/2018	6:35	0.00
H66B5	5/10/2018	6:40	0.00
H66B5	5/10/2018	6:45	0.00
H66B5	5/10/2018	6:50	0.00
H66B5	5/10/2018	6:55	0.00
H66B5	5/10/2018	7:00	0.00
H66B5	5/10/2018	7:05	0.00
;			
H66B6	5/10/2018	0:00	0.00
H66B6	5/10/2018	0:05	0.00
H66B6	5/10/2018	0:10	0.09
H66B6	5/10/2018	0:15	1.26
H66B6	5/10/2018	0:20	5.48
H66B6	5/10/2018	0:25	20.33
H66B6	5/10/2018	0:30	64.69
H66B6	5/10/2018	0:35	131.07
H66B6	5/10/2018	0:40	190.73
H66B6	5/10/2018	0:45	230.72
H66B6	5/10/2018	0:50	253.00
H66B6	5/10/2018	0:55	263.57
H66B6	5/10/2018	1:00	265.44
H66B6	5/10/2018	1:05	261.43
H66B6	5/10/2018	1:10	253.82
H66B6	5/10/2018	1:15	244.25
H66B6	5/10/2018	1:20	232.20
H66B6	5/10/2018	1:25	218.23
H66B6	5/10/2018	1:30	203.78
H66B6	5/10/2018	1:35	190.27

H66B Ponding Areas

H66B6	5/10/2018	1:40	178.46
H66B6	5/10/2018	1:45	167.80
H66B6	5/10/2018	1:50	157.93
H66B6	5/10/2018	1:55	148.51
H66B6	5/10/2018	2:00	139.42
H66B6	5/10/2018	2:05	130.16
H66B6	5/10/2018	2:10	120.50
H66B6	5/10/2018	2:15	110.65
H66B6	5/10/2018	2:20	100.85
H66B6	5/10/2018	2:25	91.68
H66B6	5/10/2018	2:30	84.22
H66B6	5/10/2018	2:35	78.03
H66B6	5/10/2018	2:40	72.59
H66B6	5/10/2018	2:45	67.68
H66B6	5/10/2018	2:50	63.14
H66B6	5/10/2018	2:55	58.89
H66B6	5/10/2018	3:00	54.92
H66B6	5/10/2018	3:05	51.22
H66B6	5/10/2018	3:10	47.65
H66B6	5/10/2018	3:15	44.16
H66B6	5/10/2018	3:20	40.71
H66B6	5/10/2018	3:25	37.29
H66B6	5/10/2018	3:30	33.89
H66B6	5/10/2018	3:35	30.53
H66B6	5/10/2018	3:40	27.19
H66B6	5/10/2018	3:45	23.88
H66B6	5/10/2018	3:50	20.60
H66B6	5/10/2018	3:55	17.35
H66B6	5/10/2018	4:00	14.15
H66B6	5/10/2018	4:05	11.02
H66B6	5/10/2018	4:10	8.15
H66B6	5/10/2018	4:15	5.99
H66B6	5/10/2018	4:20	4.54
H66B6	5/10/2018	4:25	3.48
H66B6	5/10/2018	4:30	2.66
H66B6	5/10/2018	4:35	2.02
H66B6	5/10/2018	4:40	1.52
H66B6	5/10/2018	4:45	1.14
H66B6	5/10/2018	4:50	0.88
H66B6	5/10/2018	4:55	0.70
H66B6	5/10/2018	5:00	0.56
H66B6	5/10/2018	5:05	0.44
H66B6	5/10/2018	5:10	0.34
H66B6	5/10/2018	5:15	0.25
H66B6	5/10/2018	5:20	0.17
H66B6	5/10/2018	5:25	0.11
H66B6	5/10/2018	5:30	0.06
H66B6	5/10/2018	5:35	0.03
H66B6	5/10/2018	5:40	0.01
H66B6	5/10/2018	5:45	0.00
H66B6	5/10/2018	5:50	0.00
H66B6	5/10/2018	5:55	0.00
H66B6	5/10/2018	6:00	0.00
H66B6	5/10/2018	6:05	0.00
H66B6	5/10/2018	6:10	0.00
H66B6	5/10/2018	6:15	0.00
H66B6	5/10/2018	6:20	0.00
H66B6	5/10/2018	6:25	0.00
H66B6	5/10/2018	6:30	0.00
H66B6	5/10/2018	6:35	0.00
H66B6	5/10/2018	6:40	0.00
H66B6	5/10/2018	6:45	0.00
H66B6	5/10/2018	6:50	0.00

H66B Ponding Areas

H66B6	5/10/2018	6:55	0.00
H66B6	5/10/2018	7:00	0.00
H66B6	5/10/2018	7:05	0.00
;			
H66B8	5/10/2018	0:00	0.00
H66B8	5/10/2018	0:05	0.00
H66B8	5/10/2018	0:10	0.03
H66B8	5/10/2018	0:15	0.38
H66B8	5/10/2018	0:20	1.33
H66B8	5/10/2018	0:25	5.56
H66B8	5/10/2018	0:30	19.16
H66B8	5/10/2018	0:35	25.47
H66B8	5/10/2018	0:40	26.90
H66B8	5/10/2018	0:45	26.40
H66B8	5/10/2018	0:50	25.24
H66B8	5/10/2018	0:55	23.55
H66B8	5/10/2018	1:00	22.20
H66B8	5/10/2018	1:05	21.06
H66B8	5/10/2018	1:10	18.80
H66B8	5/10/2018	1:15	16.57
H66B8	5/10/2018	1:20	14.15
H66B8	5/10/2018	1:25	12.16
H66B8	5/10/2018	1:30	10.63
H66B8	5/10/2018	1:35	9.38
H66B8	5/10/2018	1:40	8.28
H66B8	5/10/2018	1:45	7.28
H66B8	5/10/2018	1:50	6.35
H66B8	5/10/2018	1:55	5.48
H66B8	5/10/2018	2:00	4.66
H66B8	5/10/2018	2:05	3.72
H66B8	5/10/2018	2:10	2.82
H66B8	5/10/2018	2:15	2.02
H66B8	5/10/2018	2:20	1.48
H66B8	5/10/2018	2:25	1.10
H66B8	5/10/2018	2:30	0.82
H66B8	5/10/2018	2:35	0.61
H66B8	5/10/2018	2:40	0.44
H66B8	5/10/2018	2:45	0.31
H66B8	5/10/2018	2:50	0.22
H66B8	5/10/2018	2:55	0.17
H66B8	5/10/2018	3:00	0.14
H66B8	5/10/2018	3:05	0.11
H66B8	5/10/2018	3:10	0.08
H66B8	5/10/2018	3:15	0.06
H66B8	5/10/2018	3:20	0.05
H66B8	5/10/2018	3:25	0.03
H66B8	5/10/2018	3:30	0.02
H66B8	5/10/2018	3:35	0.01
H66B8	5/10/2018	3:40	0.00
H66B8	5/10/2018	3:45	0.00
H66B8	5/10/2018	3:50	0.00
H66B8	5/10/2018	3:55	0.00
H66B8	5/10/2018	4:00	0.00
H66B8	5/10/2018	4:05	0.00
H66B8	5/10/2018	4:10	0.00
H66B8	5/10/2018	4:15	0.00
H66B8	5/10/2018	4:20	0.00
H66B8	5/10/2018	4:25	0.00
H66B8	5/10/2018	4:30	0.00
H66B8	5/10/2018	4:35	0.00
H66B8	5/10/2018	4:40	0.00
H66B8	5/10/2018	4:45	0.00
H66B8	5/10/2018	4:50	0.00

H66B Ponding Areas

H66B8	5/10/2018	4:55	0.00
H66B8	5/10/2018	5:00	0.00
H66B8	5/10/2018	5:05	0.00
H66B8	5/10/2018	5:10	0.00
H66B8	5/10/2018	5:15	0.00
H66B8	5/10/2018	5:20	0.00
H66B8	5/10/2018	5:25	0.00
H66B8	5/10/2018	5:30	0.00
H66B8	5/10/2018	5:35	0.00
H66B8	5/10/2018	5:40	0.00
H66B8	5/10/2018	5:45	0.00
H66B8	5/10/2018	5:50	0.00
H66B8	5/10/2018	5:55	0.00
H66B8	5/10/2018	6:00	0.00
H66B8	5/10/2018	6:05	0.00
H66B8	5/10/2018	6:10	0.00
H66B8	5/10/2018	6:15	0.00
H66B8	5/10/2018	6:20	0.00
H66B8	5/10/2018	6:25	0.00
H66B8	5/10/2018	6:30	0.00
H66B8	5/10/2018	6:35	0.00
H66B8	5/10/2018	6:40	0.00
H66B8	5/10/2018	6:45	0.00
H66B8	5/10/2018	6:50	0.00
H66B8	5/10/2018	6:55	0.00
H66B8	5/10/2018	7:00	0.00
H66B8	5/10/2018	7:05	0.00
H66B8	5/10/2018	7:10	0.00
;			
H66B9	5/10/2018	0:00	0
H66B9	5/10/2018	0:05	0
H66B9	5/10/2018	0:10	0.000731156
H66B9	5/10/2018	0:15	0.01047036
H66B9	5/10/2018	0:20	0.105941458
H66B9	5/10/2018	0:25	2.182233416
H66B9	5/10/2018	0:30	15.44347838
H66B9	5/10/2018	0:35	41.91427845
H66B9	5/10/2018	0:40	72.64725504
H66B9	5/10/2018	0:45	99.609683
H66B9	5/10/2018	0:50	119.3184112
H66B9	5/10/2018	0:55	131.5383433
H66B9	5/10/2018	1:00	139.1829777
H66B9	5/10/2018	1:05	143.9241591
H66B9	5/10/2018	1:10	145.6825031
H66B9	5/10/2018	1:15	144.0716873
H66B9	5/10/2018	1:20	139.3338309
H66B9	5/10/2018	1:25	133.1703251
H66B9	5/10/2018	1:30	127.8018808
H66B9	5/10/2018	1:35	125.8159252
H66B9	5/10/2018	1:40	133.1845455
H66B9	5/10/2018	1:45	133.3162102
H66B9	5/10/2018	1:50	128.6152357
H66B9	5/10/2018	1:55	122.1222535
H66B9	5/10/2018	2:00	115.5190785
H66B9	5/10/2018	2:05	109.2792956
H66B9	5/10/2018	2:10	103.7767317
H66B9	5/10/2018	2:15	98.72610203
H66B9	5/10/2018	2:20	92.69385095
H66B9	5/10/2018	2:25	86.80630052
H66B9	5/10/2018	2:30	80.81773044
H66B9	5/10/2018	2:35	75.3576669
H66B9	5/10/2018	2:40	70.43184082
H66B9	5/10/2018	2:45	65.81170625

H66B Ponding Areas

H66B9	5/10/2018	2:50	61.35459808
H66B9	5/10/2018	2:55	57.00597909
H66B9	5/10/2018	3:00	52.73074148
H66B9	5/10/2018	3:05	48.51639694
H66B9	5/10/2018	3:10	44.46068219
H66B9	5/10/2018	3:15	40.84189447
H66B9	5/10/2018	3:20	37.83221574
H66B9	5/10/2018	3:25	35.22434794
H66B9	5/10/2018	3:30	33.07132744
H66B9	5/10/2018	3:35	31.22086279
H66B9	5/10/2018	3:40	29.56469103
H66B9	5/10/2018	3:45	28.06156062
H66B9	5/10/2018	3:50	26.69685462
H66B9	5/10/2018	3:55	25.4173184
H66B9	5/10/2018	4:00	24.19525367
H66B9	5/10/2018	4:05	23.01964144
H66B9	5/10/2018	4:10	21.85993833
H66B9	5/10/2018	4:15	20.71140777
H66B9	5/10/2018	4:20	19.56781613
H66B9	5/10/2018	4:25	18.42861157
H66B9	5/10/2018	4:30	17.29379487
H66B9	5/10/2018	4:35	16.16336647
H66B9	5/10/2018	4:40	15.03732665
H66B9	5/10/2018	4:45	13.91567554
H66B9	5/10/2018	4:50	12.79753869
H66B9	5/10/2018	4:55	11.68235747
H66B9	5/10/2018	5:00	10.57013191
H66B9	5/10/2018	5:05	9.458147122
H66B9	5/10/2018	5:10	8.346162338
H66B9	5/10/2018	5:15	7.234177553
H66B9	5/10/2018	5:20	6.122198726
H66B9	5/10/2018	5:25	5.010312908
H66B9	5/10/2018	5:30	3.899350634
H66B9	5/10/2018	5:35	2.806643762
H66B9	5/10/2018	5:40	1.856532911
H66B9	5/10/2018	5:45	1.271619695
H66B9	5/10/2018	5:50	0.880724864
H66B9	5/10/2018	5:55	0.595476402
H66B9	5/10/2018	6:00	0.387580908
H66B9	5/10/2018	6:05	0.237438134
H66B9	5/10/2018	6:10	0.131364396
H66B9	5/10/2018	6:15	0.069529395
H66B9	5/10/2018	6:20	0.04537184
H66B9	5/10/2018	6:25	0.030999582
H66B9	5/10/2018	6:30	0.024691022
H66B9	5/10/2018	6:35	0.019097766
H66B9	5/10/2018	6:40	0.014220362
H66B9	5/10/2018	6:45	0.010059132
H66B9	5/10/2018	6:50	0.006614263
H66B9	5/10/2018	6:55	0.003885864
H66B9	5/10/2018	7:00	0.001873998
H66B9	5/10/2018	7:05	0.000578703
H66B9	5/10/2018	7:10	0
H66B9	5/10/2018	7:15	0
H66B9	5/10/2018	7:20	0
H66B9	5/10/2018	7:25	0
H66B9	5/10/2018	7:30	0
H66B9	5/10/2018	7:35	0
H66B9	5/10/2018	7:40	0
H66B9	5/10/2018	7:45	0
H66B9	5/10/2018	7:50	0
H66B9	5/10/2018	7:55	0
H66B9	5/10/2018	8:00	0

H66B Ponding Areas

H66B9	5/10/2018	8:05	0
H66B9	5/10/2018	8:10	0
H66B9	5/10/2018	8:15	0
H66B9	5/10/2018	8:20	0
H66B9	5/10/2018	8:25	0
H66B9	5/10/2018	8:30	0
H66B9	5/10/2018	8:35	0
H66B9	5/10/2018	8:40	0

[REPORT]

```
;;Reporting Options
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
H66B6	968.858	5478.662
H66B5_O	2110.727	6885.813
H66B11_O	1049.596	3794.694
H66B9_O	6635.945	8141.321
H66B12_O	952.381	937.020
H66B3_O	-461.361	8454.441
H66B4_O	-2133.333	6859.259
H66B8_O	-2548.148	5437.037
H66B6_O	1937.716	5374.856
H66B11	311.419	3979.239
H66B12	-430.108	1382.488
H66B2_DET	1937.716	8304.498
H66B2_RET	1545.559	8316.032
H66B3	-1257.209	8627.451
H66B5	1326.413	6989.619
H66B9	6129.032	8218.126
H66B1	1668.496	9231.614
H66B4	-2888.889	7244.444
H66B8	-3407.407	5822.222

[VERTICES]

;;Link	X-Coord	Y-Coord
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H66B Ponding Areas

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Flow Routing Method DYNWAVE
Starting Date 05/10/2018 00:00:00
Ending Date 05/12/2018 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:00:05
Routing Time Step 5.00 sec
Variable Time Step YES
Maximum Trials 8
Number of Threads 1
Head Tolerance 0.005000 ft

	Volume acre-feet	Volume 10 ⁶ gal
Flow Routing Continuity		
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	919.937	299.775
External Outflow	478.208	155.831
Flooding Loss	427.438	139.287
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	14.318	4.666
Continuity Error (%)	-0.003	

Time-Step Critical Elements

Link H66B11 (19.07%)
Link H66B4 (12.62%)

Highest Flow Instability Indexes

All links are stable.

H66B Ponding Areas

Routing Time Step Summary

```

Minimum Time Step      :      0.50 sec
Average Time Step      :      3.96 sec
Maximum Time Step      :      5.00 sec
Percent in Steady State :      0.00
Average Iterations per Step :      2.00
Percent Not Converging :      0.00
    
```

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
H66B6	JUNCTION	0.56	3.00	4937.00	0 00:25	3.00
H66B5_O	OUTFALL	0.29	1.43	4987.19	0 01:59	1.43
H66B11_O	OUTFALL	0.83	2.71	78.27	0 02:09	2.71
H66B9_O	OUTFALL	0.35	1.34	4975.58	0 00:42	1.34
H66B12_O	OUTFALL	1.34	5.00	4957.82	0 01:57	5.00
H66B3_O	OUTFALL	0.33	2.04	33.04	0 01:45	2.04
H66B4_O	OUTFALL	0.33	2.54	5002.54	0 00:36	2.54
H66B8_O	OUTFALL	0.14	1.70	4987.70	0 00:57	1.70
H66B6_O	OUTFALL	0.35	1.81	4935.31	0 00:28	1.81
H66B11	STORAGE	1.20	4.00	80.56	0 00:52	4.00
H66B12	STORAGE	2.20	11.00	4965.90	0 03:33	11.00
H66B2_DET	STORAGE	6.71	7.00	5103.00	0 01:14	7.00
H66B2_RET	STORAGE	4.99	5.89	5105.89	0 01:50	5.89
H66B3	STORAGE	0.33	2.04	34.04	0 01:45	2.04
H66B5	STORAGE	0.40	2.00	4988.00	0 01:01	2.00
H66B9	STORAGE	0.74	3.00	4977.81	0 00:41	3.00
H66B1	STORAGE	1.99	2.00	4939.00	0 00:28	2.00
H66B4	STORAGE	0.38	3.00	5003.56	0 00:37	3.00
H66B8	STORAGE	0.14	1.73	4988.73	0 00:57	1.73

Node Inflow Summary

Total Inflow Volume Node gal	Flow Balance Error Percent	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow volume 10^6 gal	10^6
11.9	-0.000	JUNCTION	265.44	265.44	0 01:00	11.9	

		H66B Ponding Areas					
H66B5_O		OUTFALL	0.00	15.66	0	02:01	0
1.42	0.000						
H66B11_O		OUTFALL	0.00	74.26	0	02:09	0
13.6	0.000						
H66B9_O		OUTFALL	0.00	12.61	0	02:05	0
1.85	0.000						
H66B12_O		OUTFALL	0.00	662.16	0	03:37	0
90.4	0.000						
H66B3_O		OUTFALL	0.00	553.05	0	01:45	0
41.5	0.000						
H66B4_O		OUTFALL	0.00	62.27	0	00:36	0
3.62	0.000						
H66B8_O		OUTFALL	0.00	22.79	0	00:57	0
0.73	0.000						
H66B6_O		OUTFALL	0.00	26.60	0	02:07	0
2.66	0.000						
H66B11		STORAGE	1332.71	1332.71	0	02:30	86.1
86.1	-0.003						
H66B12		STORAGE	1460.44	1460.44	0	03:40	107
107	-0.005						
H66B2_DET		STORAGE	0.00	422.04	0	01:50	0
20.7	-0.005						
H66B2_RET		STORAGE	423.58	423.58	0	01:45	23.1
23.1	0.001						
H66B3		STORAGE	553.09	553.09	0	01:45	41.5
41.5	0.003						
H66B5		STORAGE	55.59	55.59	0	00:45	1.85
1.85	-0.007						
H66B9		STORAGE	145.68	145.68	0	01:10	8.58
8.58	-0.004						
H66B1		STORAGE	276.11	276.11	0	00:55	11.7
11.7	-0.004						
H66B4		STORAGE	245.59	245.59	0	00:45	7.23
7.23	-0.004						
H66B8		STORAGE	26.90	26.90	0	00:40	0.73
0.73	0.001						

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
H66B6	JUNCTION	3.43	0.830	0.000

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 Poned Depth Feet
H66B6	3.25	238.83	0 01:00	9.202	0.000

H66B Ponding Areas						
H66B11	5.39	1258.43	0	02:30	72.456	0.000
H66B12	1.46	798.23	0	03:40	16.805	0.000
H66B2_DET	14.30	422.04	0	01:50	18.608	0.000
H66B5	1.00	35.12	0	01:01	0.426	0.000
H66B9	4.15	133.07	0	01:10	6.732	0.000
H66B1	5.02	276.10	0	00:55	11.438	0.000
H66B4	1.34	183.39	0	00:45	3.606	0.000

Storage Volume Summary

of Max Occurrence Storage Unit hr:min	Maximum Outflow Unit CFS	Average Volume 1000 ft3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft3	Max Pcnt Full	Time days
H66B11 00:52	74.26	35.094	28	0	0	124.589	100	0
H66B12 03:33	662.16	189.198	14	0	0	1357.698	100	0
H66B2_DET 01:14	0.00	262.196	96	0	0	274.413	100	0
H66B2_RET 01:50	422.04	323.133	76	0	0	413.779	97	0
H66B3 01:45	553.05	0.279	1	0	0	2.297	9	0
H66B5 01:01	15.66	11.823	15	0	0	81.218	100	0
H66B9 00:41	12.61	6.616	23	0	0	28.352	100	0
H66B1 00:28	0.00	28.842	99	0	0	29.057	100	0
H66B4 00:37	62.27	5.506	11	0	0	51.507	100	0
H66B8 00:57	22.79	0.345	2	0	0	8.270	55	0

Outfall Loading Summary

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
H66B5_O	66.45	3.92	15.66	1.419
H66B11_O	47.07	46.88	74.26	13.634
H66B9_O	30.84	10.24	12.61	1.850
H66B12_O	35.70	388.69	662.16	90.391
H66B3_O	31.54	246.15	553.05	41.511
H66B4_O	19.24	39.24	62.27	3.622
H66B8_O	17.10	9.07	22.79	0.730

H66B6_0	25.41	H66B Ponding Areas		2.665
		19.08	26.60	
System	34.17	763.27	1146.92	155.820

 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
H66B5	CONDUIT	15.66	0 02:01	5.47	1.68	0.86
H66B11	CONDUIT	74.26	0 02:09	10.70	1.53	0.95
H66B9	CONDUIT	12.61	0 02:05	7.29	2.01	0.95
H66B12	CONDUIT	662.16	0 03:37	33.72	1.97	1.00
H66B4	CONDUIT	62.27	0 00:36	9.20	1.31	0.92
H66B8	CONDUIT	22.79	0 00:57	7.95	1.05	0.86
H66B3	CONDUIT	553.05	0 01:45	15.94	0.46	0.47
H66B6	CONDUIT	26.60	0 02:07	7.49	1.83	0.92
H66B2	WEIR	422.04	0 01:50			0.89

 Flow Classification Summary

Inlet Conduit Ctrl	Adjusted /Actual Length	Fraction of Time in Flow Class							
		Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd
H66B5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
H66B11	1.00	0.00	0.00	0.00	0.90	0.10	0.00	0.00	0.02
H66B9	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.00
H66B12	1.00	0.00	0.00	0.00	0.85	0.15	0.00	0.00	0.05
H66B4	1.00	0.00	0.00	0.00	0.94	0.06	0.00	0.00	0.01
H66B8	1.00	0.00	0.00	0.00	0.85	0.15	0.00	0.00	0.03
H66B3	1.00	0.67	0.00	0.00	0.05	0.29	0.00	0.00	0.09
H66B6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00

 Conduit Surcharge Summary

CALKINS LAKE BASIN CALCULATIONS



JVA Incorporated
 213 Linden Street Suite 200
 Fort Collins, CO 80524
 Ph: (970) 225 9099

Job Name: Town of Mead - Drainage Master Plan Update
 Job Number: 1970.76c
 Date: 11/9/18
 By: LAT

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_A = 0.84i^{1.202}$	$C_A = 0.86i^{1.276}$	$C_A = 0.87i^{1.232}$	$C_A = 0.84i^{1.124}$	$C_A = 0.85i+0.025$	$C_A = 0.78i+0.110$	$C_A = 0.65i+0.254$
B	$C_B = 0.84i^{1.169}$	$C_B = 0.86i^{1.088}$	$C_B = 0.81i+0.057$	$C_B = 0.63i+0.249$	$C_B = 0.56i+0.328$	$C_B = 0.47i+0.426$	$C_B = 0.37i+0.536$
C/D	$C_{CD} = 0.83i^{1.122}$	$C_{CD} = 0.82i+0.035$	$C_{CD} = 0.74i+0.132$	$C_{CD} = 0.56i+0.319$	$C_{CD} = 0.49i+0.393$	$C_{CD} = 0.41i+0.484$	$C_{CD} = 0.32i+0.588$

Town of Mead - Drainage Master Plan Update
Composite Runoff Coefficient Calculations Calkins Lake Basin

Location: Mead
 Minor Design Storm: 10
 Major Design Storm: 100
 Soil Type: C/D

Basin Design Data																				Runoff Coeff's					
Basin Name	Design Point	A _{Paved} (sf)	A _{Drive/Walks Concrete} (sf)	A _{Gravel} (sf)	A _{Roof} (sf)	A _{Business Commercial} (sf)	A _{Business Neighborhood} (sf)	A _{Industrial Heavy} (sf)	A _{Railroad yard} (sf)	A _{School} (sf)	A _{Ag Bldg/Residential} (sf)	A _{single family (<.25 acre lot only)} (sf)	A _{single family (.25-.75 acre lot only)} (sf)	A _{single family (>.75 acre lot only)} (sf)	A _{parks/Cemetery} (sf)	A _{lawns} (sf)	A _{Ag/Green Belt} (sf)	A _{WATER} (sf)	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	C2	C5	C10	C100
CLB1	177	9,068		36,787							29,657						533,249		608,761	13.98	8.1%	0.05	0.10	0.19	0.52
CLB2	178	100,057		33,857							761,485						10,594,984	40,542	11,530,925	264.71	6.5%	0.04	0.09	0.18	0.51
TOTAL SITE		109,125	0	70,644	0	0	0	0	0	0	791,142	0	0	0	0	0	11,128,233	40,542	12,139,686	278.69	6.6%	0.04	0.09	0.18	0.51

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
CLB1	177	100yr	0.0218363	0.160606061	0.311553	0.024316109	8.094519853	0.4	0.1	3	0.0018	0.5	0
CLB2	178	100yr	0.413615	0.529545455	1.0666667	0.022718395	6.476357968	0.4	0.1	3	0.0018	0.5	0

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in.hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
CLB1	177	100YR	0.022	0.161	0.312	0.024	8.1	0.40	0.10	3.00	0.50	0.0018	0.00	0.16	0.08	7.41
CLB2	178	100YR	0.414	0.530	1.067	0.023	6.5	0.40	0.10	3.00	0.50	0.0018	0.00	0.13	0.06	5.91

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
CLB1		0.136	0.074	50.1	4.33	26.0	3.06	7.2	13	50,730	1.82	92,324	50.0	18	92,133	1.28
CLB2		0.141	0.251	49.6	11.07	25.8	7.83	18.5	250	960,910	1.80	1,730,723	55.0	354	1,730,394	1.34

Printouts for Unit Hydrographs

flow in cfs

time in minutes	CLB1	CLB2
5	11.37	71.07
10	13.04	177.74
15	12.71	237.85
20	12.07	249.59
25	11.12	241.77
30	9.87	224.28
35	9.12	197.12
40	8.40	176.71
45	7.68	161.51
50	6.97	146.32
55	6.37	131.12
60	5.94	119.88
65	5.51	111.28
70	5.08	102.68
75	4.65	94.09
80	4.22	85.49
85	3.79	76.89
90	3.36	68.30
95	2.93	59.70
100	2.58	51.10
105	2.44	47.51
110	2.29	44.64
115	2.15	41.78
120	2.01	38.91
125	1.86	36.05
130	1.72	33.18
135	1.58	30.31
140	1.43	27.45
145	1.29	24.58
150	1.15	21.72
155	1.01	18.85
160	0.86	15.99
165	0.72	13.12
170	0.58	10.25
175	0.43	7.39
180	0.29	4.52
185	0.15	1.66
190	0.00	0.00
195	0.00	

CLB SWMM INPUT

CLB Ponding Areas

[TITLE]

;;Project Title/Notes

[OPTIONS]

```

;;Option      Value
FLOW_UNITS    CFS
INFILTRATION  HORTON
FLOW_ROUTING  DYNWAVE
LINK_OFFSETS  DEPTH
MIN_SLOPE     0
ALLOW_PONDING YES
SKIP_STEADY_STATE NO

START_DATE    05/10/2018
START_TIME    00:00:00
REPORT_START_DATE 05/10/2018
REPORT_START_TIME 00:00:00
END_DATE      05/10/2018
END_TIME      10:00:00
SWEEP_START   01/01
SWEEP_END     12/31
DRY_DAYS      0
REPORT_STEP   00:00:05
WET_STEP      00:05:00
DRY_STEP      01:00:00
ROUTING_STEP  0:00:05
    
```

```

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP     0.75
LENGTHENING_STEP  0
MIN_SURFAREA      12.557
MAX_TRIALS        8
HEAD_TOLERANCE    0.005
SYS_FLOW_TOL      5
LAT_FLOW_TOL      5
MINIMUM_STEP      0.5
THREADS           1
    
```

[EVAPORATION]

```

;;Data Source Parameters
;;-----
CONSTANT      0.0
DRY_ONLY      NO
    
```

[OUTFALLS]

;;Name	Elevation	Type	Stage Data	Gated	Route To
CLB1-0	5054.8	FREE		NO	
CLB2-0	93.31	FREE		NO	
CLB2b-0	93.31	FREE		NO	
CLB-CG-0	93.31	FREE		NO	

[STORAGE]

;;Name	Fevap	Elev. Psi	MaxDepth Ksat	InitDepth IMD	Shape	Curve Name/Params
CLB1 0	0	5055	5	0	TABULAR	CLB1
CLB2 0	0	93.88	3	0	TABULAR	CLB2

CLB Ponding Areas

[CONDUITS]							
;;Name	From Node	To Node	Length	Roughness	InOffset	OutOffset	InitFlow
;;	MaxFlow	;;	;;	;;	;;	;;	;;
2	CLB1	CLB1-0	85	0.012	0	0	0
CLB2	CLB2	CLB2-0	65	.024	0	0	0
CLB2b	CLB2	CLB2b-0	65	0.024	0	0	0
CattleGuard	CLB2	CLB-CG-0	65	0.01	0	0	0

[XSECTIONS]							
;;Link	Shape	Geom1	Geom2	Geom3	Geom4	Barrels	Culvert
;;	;;	;;	;;	;;	;;	;;	;;
2	RECT_CLOSED	3	8	0	0	0	1
CLB2	CIRCULAR	2	0	0	0	0	1
CLB2b	CIRCULAR	24	0	0	0	0	1
CattleGuard	RECT_OPEN	2	6.67	0	0	0	1

[INFLOWS]						
;;Node	Constituent	Time Series	Type	Mfactor	Sfactor	Baseline Pattern
;;	;;	;;	;;	;;	;;	;;
CLB1	FLOW	CLB1	FLOW	1.0	1.0	
CLB2	FLOW	CLB2	FLOW	1.0	1.0	

[CURVES]			
;;Name	Type	X-Value	Y-Value
;;	;;	;;	;;
CLB1	Storage	0	9
CLB1		1	370
CLB1		2	1120
CLB1		3	3550
CLB1		4	18250
CLB2	Storage	0	584
CLB2		1	2432
CLB2		2	22985

[TIMESERIES]			
;;Name	Date	Time	Value
;;	;;	;;	;;
CLB1	5/10/2018	0:00	0.00
CLB1	5/10/2018	0:05	0.00
CLB1	5/10/2018	0:10	0.02
CLB1	5/10/2018	0:15	0.12
CLB1	5/10/2018	0:20	1.78
CLB1	5/10/2018	0:25	9.34
CLB1	5/10/2018	0:30	14.26
CLB1	5/10/2018	0:35	16.56

CLB Ponding Areas

CLB1	5/10/2018	0:40	17.68
CLB1	5/10/2018	0:45	17.95
CLB1	5/10/2018	0:50	17.52
CLB1	5/10/2018	0:55	17.15
CLB1	5/10/2018	1:00	16.83
CLB1	5/10/2018	1:05	15.86
CLB1	5/10/2018	1:10	14.79
CLB1	5/10/2018	1:15	13.64
CLB1	5/10/2018	1:20	12.59
CLB1	5/10/2018	1:25	11.63
CLB1	5/10/2018	1:30	10.74
CLB1	5/10/2018	1:35	9.89
CLB1	5/10/2018	1:40	9.07
CLB1	5/10/2018	1:45	8.27
CLB1	5/10/2018	1:50	7.49
CLB1	5/10/2018	1:55	6.74
CLB1	5/10/2018	2:00	6.05
CLB1	5/10/2018	2:05	5.52
CLB1	5/10/2018	2:10	5.07
CLB1	5/10/2018	2:15	4.67
CLB1	5/10/2018	2:20	4.31
CLB1	5/10/2018	2:25	3.97
CLB1	5/10/2018	2:30	3.66
CLB1	5/10/2018	2:35	3.37
CLB1	5/10/2018	2:40	3.10
CLB1	5/10/2018	2:45	2.83
CLB1	5/10/2018	2:50	2.56
CLB1	5/10/2018	2:55	2.30
CLB1	5/10/2018	3:00	2.03
CLB1	5/10/2018	3:05	1.77
CLB1	5/10/2018	3:10	1.51
CLB1	5/10/2018	3:15	1.24
CLB1	5/10/2018	3:20	0.98
CLB1	5/10/2018	3:25	0.72
CLB1	5/10/2018	3:30	0.48
CLB1	5/10/2018	3:35	0.33
CLB1	5/10/2018	3:40	0.24
CLB1	5/10/2018	3:45	0.16
CLB1	5/10/2018	3:50	0.11
CLB1	5/10/2018	3:55	0.07
CLB1	5/10/2018	4:00	0.04
CLB1	5/10/2018	4:05	0.03
CLB1	5/10/2018	4:10	0.02
CLB1	5/10/2018	4:15	0.01
CLB1	5/10/2018	4:20	0.01
CLB1	5/10/2018	4:25	0.01
CLB1	5/10/2018	4:30	0.01
CLB1	5/10/2018	4:35	0.00
;			
CLB2	5/10/2018	0:00	0.00
CLB2	5/10/2018	0:05	0.01
CLB2	5/10/2018	0:10	0.09
CLB2	5/10/2018	0:15	0.71
CLB2	5/10/2018	0:20	11.29
CLB2	5/10/2018	0:25	72.10
CLB2	5/10/2018	0:30	173.43
CLB2	5/10/2018	0:35	262.96
CLB2	5/10/2018	0:40	318.31
CLB2	5/10/2018	0:45	346.40
CLB2	5/10/2018	0:50	354.10
CLB2	5/10/2018	0:55	346.42
CLB2	5/10/2018	1:00	335.75
CLB2	5/10/2018	1:05	322.77

CLB Ponding Areas

CLB2	5/10/2018	1:10	304.17
CLB2	5/10/2018	1:15	281.38
CLB2	5/10/2018	1:20	258.67
CLB2	5/10/2018	1:25	237.61
CLB2	5/10/2018	1:30	217.87
CLB2	5/10/2018	1:35	199.65
CLB2	5/10/2018	1:40	182.46
CLB2	5/10/2018	1:45	165.97
CLB2	5/10/2018	1:50	150.00
CLB2	5/10/2018	1:55	134.53
CLB2	5/10/2018	2:00	119.86
CLB2	5/10/2018	2:05	108.44
CLB2	5/10/2018	2:10	99.13
CLB2	5/10/2018	2:15	90.93
CLB2	5/10/2018	2:20	83.52
CLB2	5/10/2018	2:25	76.71
CLB2	5/10/2018	2:30	70.35
CLB2	5/10/2018	2:35	64.43
CLB2	5/10/2018	2:40	58.92
CLB2	5/10/2018	2:45	53.56
CLB2	5/10/2018	2:50	48.30
CLB2	5/10/2018	2:55	43.07
CLB2	5/10/2018	3:00	37.85
CLB2	5/10/2018	3:05	32.63
CLB2	5/10/2018	3:10	27.42
CLB2	5/10/2018	3:15	22.23
CLB2	5/10/2018	3:20	17.05
CLB2	5/10/2018	3:25	12.06
CLB2	5/10/2018	3:30	8.08
CLB2	5/10/2018	3:35	5.59
CLB2	5/10/2018	3:40	3.89
CLB2	5/10/2018	3:45	2.65
CLB2	5/10/2018	3:50	1.74
CLB2	5/10/2018	3:55	1.07
CLB2	5/10/2018	4:00	0.62
CLB2	5/10/2018	4:05	0.36
CLB2	5/10/2018	4:10	0.25
CLB2	5/10/2018	4:15	0.18
CLB2	5/10/2018	4:20	0.14
CLB2	5/10/2018	4:25	0.11
CLB2	5/10/2018	4:30	0.08
CLB2	5/10/2018	4:35	0.06
CLB2	5/10/2018	4:40	0.04
CLB2	5/10/2018	4:45	0.02
CLB2	5/10/2018	4:50	0.01
CLB2	5/10/2018	4:55	0.00

[REPORT]
 ;;Reporting Options
 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
 Page 4

CLB Ponding Areas

```
;;-----  
CLB1-0      -615.650      7617.952  
CLB2-0      -627.158      6754.891  
CLB2b-0     -650.173      6524.741  
CLB-CG-0    -592.635      6191.024  
CLB1        -1881.473     7675.489  
CLB2        -1881.473     6720.368  
  
[VERTICES]  
;;Link      X-Coord      Y-Coord  
;;-----
```

CLB Ponding Areas

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed YES
 Water Quality NO
Flow Routing Method DYNWAVE
Starting Date 05/10/2018 00:00:00
Ending Date 05/10/2018 10:00:00
Antecedent Dry Days 0.0
Report Time Step 00:00:05
Routing Time Step 5.00 sec
Variable Time Step YES
Maximum Trials 8
Number of Threads 1
Head Tolerance 0.005000 ft

	Volume acre-feet	Volume 10 ⁶ gal
Flow Routing Continuity		
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	41.837	13.633
External Outflow	41.835	13.633
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	0.000	0.000
Continuity Error (%)	0.004	

Time-Step Critical Elements

Link CattleGuard (43.86%)

Highest Flow Instability Indexes

All links are stable.

CLB Ponding Areas

Routing Time Step Summary

Minimum Time Step : 2.02 sec
 Average Time Step : 3.99 sec
 Maximum Time Step : 5.00 sec
 Percent in Steady State : 0.00
 Average Iterations per Step : 2.00
 Percent Not Converging : 0.00

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
CLB1-0	OUTFALL	0.15	0.54	5055.34	0 00:45	0.54
CLB2-0	OUTFALL	0.45	1.41	94.72	0 00:50	1.41
CLB2b-0	OUTFALL	0.53	2.00	95.31	0 00:51	2.00
CLB-CG-0	OUTFALL	0.57	2.00	95.31	0 00:51	2.00
CLB1	STORAGE	0.17	0.57	5055.57	0 00:45	0.57
CLB2	STORAGE	0.58	2.00	95.88	0 00:50	2.00

Node Inflow Summary

Total Inflow Volume gal	Flow Balance Error Percent	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal
0.689	0.000	OUTFALL	0.00	17.95	0 00:45	0
0.622	0.000	OUTFALL	0.00	15.34	0 00:50	0
3.93	0.000	OUTFALL	0.00	122.66	0 00:51	0
8.39	0.000	OUTFALL	0.00	214.82	0 00:51	0
0.689	-0.001	STORAGE	17.95	17.95	0 00:45	0.689
12.9	0.004	STORAGE	354.08	354.08	0 00:50	12.9

Node Surge Summary

CLB Ponding Areas

No nodes were surcharged.

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

of Max Occurrence hr:min	Maximum Storage Unit Outflow CFS	Average Volume 1000 ft3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft3	Max Pcnt Full	Time days
CLB1 00:45	17.95	0.014	0	0	0	0.063	0	0
CLB2 00:50	352.81	2.350	5	0	0	14.126	30	0

Outfall Loading Summary

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
CLB1-0	56.96	7.57	17.95	0.689
CLB2-0	52.26	7.51	15.34	0.622
CLB2b-0	59.72	42.71	122.66	3.929
CLB-CG-0	59.36	88.34	214.82	8.392
System	57.08	146.12	370.27	13.632

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
2	CONDUIT	17.95	0 00:45	4.06	0.12	0.18
CLB2	CONDUIT	15.34	0 00:50	5.41	1.34	0.85
CLB2b	CONDUIT	122.66	0 00:51	6.82	0.01	0.08

CattleGuard CONDUIT CLB Ponding Areas
 214.82 0 00:51 16.14 1.00 1.00

 Flow Classification Summary

		Adjusted	----- Fraction of Time in Flow Class							
		/Actual	Up	Down	Sub	Sup	Up	Down	Norm	
-----		Length	Dry	Dry	Dry	Crit	Crit	Crit	Crit	Ltd

-										
Inlet										
Conduit										
Ctrl										

2		1.00	0.26	0.00	0.00	0.74	0.00	0.00	0.00	0.00
0.00										
CLB2		1.00	0.38	0.00	0.00	0.61	0.01	0.00	0.00	0.00
0.00										
CLB2b		1.00	0.38	0.00	0.00	0.17	0.44	0.00	0.00	0.02
0.00										
CattleGuard		1.00	0.38	0.00	0.00	0.04	0.58	0.00	0.00	0.38
0.00										

 Conduit Surcharge Summary

Conduit	----- Both Ends	Hours Full Upstream	----- Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
CLB2	0.01	0.01	0.01	0.92	0.01

Analysis begun on: Tue Nov 13 13:59:51 2018
 Analysis ended on: Tue Nov 13 13:59:51 2018
 Total elapsed time: < 1 sec

WEST ST VRAIN CREEK BASIN CALCULATIONS



JVA Incorporated
 213 Linden Street Suite 200
 Fort Collins, CO 80524
 Ph: (970) 225 9099

Job Name: Town of Mead - Drainage Master Plan Update
 Job Number: 1970.76c
 Date: 11/9/18
 By: LAT

Town of Mead - Drainage Master Plan Update

Composite Runoff Coefficient Calculations West St Vrain Creek Basin

Location:	Mead
Minor Design Storm:	10
Major Design Storm:	100
Soil Type:	C/D

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_{ra} = 0.84i^{.302}$	$C_{ra} = 0.86i^{.276}$	$C_{ra} = 0.87i^{.252}$	$C_{ra} = 0.84i^{.124}$	$C_{ra} = 0.85i+0.025$	$C_{ra} = 0.78i+0.110$	$C_{ra} = 0.65i+0.254$
B	$C_{rb} = 0.84i^{.309}$	$C_{rb} = 0.86i^{.288}$	$C_{rb} = 0.81i+0.057$	$C_{rb} = 0.63i+0.249$	$C_{rb} = 0.56i+0.328$	$C_{rb} = 0.47i+0.426$	$C_{rb} = 0.37i+0.536$
C/D	$C_{rcd} = 0.83i^{.122}$	$C_{rcd} = 0.82i+0.035$	$C_{rcd} = 0.74i+0.132$	$C_{rcd} = 0.56i+0.319$	$C_{rcd} = 0.49i+0.393$	$C_{rcd} = 0.41i+0.484$	$C_{rcd} = 0.32i+0.588$

Basin Design Data																				Runoff Coeff's					
Basin Name	Design Point	A _{Paved} (sf)	A _{Drive/Walks Concrete} (sf)	A _{Gravel} (sf)	A _{Roof} (sf)	A _{Business Commercial} (sf)	A _{Business Neighborhood} (sf)	A _{Industrial Heavy} (sf)	A _{Railroad yard} (sf)	A _{School} (sf)	A _{Ag Bldg/Residential} (sf)	A _{single family (<.25 acre lot only)} (sf)	A _{single family (.25-.75 acre lot only)} (sf)	A _{single family (>.75 acre lot only)} (sf)	A _{banks/Cemetery} (sf)	A _{Lawns} (sf)	A _{Ag/Green Belt} (sf)	A _{WATER} (sf)	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	C2	C5	C10	C100
WSVCB1	86	117,591		24,092					466,665					729,778			3,136,088		4,474,214	102.71	12.7%	0.08	0.14	0.23	0.54
WSVCB2	87	66,342		387,744					532,590					249,044			10,684,043		11,919,763	273.64	6.3%	0.04	0.09	0.18	0.51
WSVCB3	88	45,252		80,826					351,080					200,415			4,549,682		5,227,255	120.00	7.3%	0.04	0.10	0.19	0.51
WSVCB4	89	28,455		24,958				126,772	35,390		57,116			42,611			3,390,432		3,705,734	85.07	7.4%	0.04	0.10	0.19	0.51
WSVCB5	90			346,435								605,028					572,017		1,523,480	34.97	27.7%	0.20	0.26	0.34	0.60
WSVCB6	91	114,831		171,273					160,573		62,794			1,444,125			8,962,130		10,915,726	250.59	7.0%	0.04	0.09	0.18	0.51
WSVCB7	92	521,170		201,912				184,349			27,744	1,366,572		324,633	201,294		4,796,745	1,632,205	9,256,624	212.50	34.7%	0.25	0.32	0.39	0.63
WSVCB8	93	41,290		65,755													2,762,427	51,903	2,921,375	67.07	6.0%	0.04	0.08	0.18	0.51
WSVCB9	94			89,450							183,585						2,335,351	42,328	2,650,714	60.85	8.2%	0.05	0.10	0.19	0.52
WSVCB10	95			119,974							736,042						1,159,229		2,015,245	46.26	21.8%	0.15	0.21	0.29	0.57
WSVCB11	96	600,324		160,999						839,549				99,615			6,852,691	84,671	8,637,849	198.30	8.9%	0.05	0.11	0.20	0.52
WSVCB12	97			173,950							171,488			48,002	2,521,253		11,994,757	319,564	15,229,014	349.61	6.4%	0.04	0.09	0.18	0.51
WSVCB13	98			225,722													4,752,464	143,846	5,122,032	117.59	6.4%	0.04	0.09	0.18	0.51
WSVCB14	99			70,406													2,965,505	129,796	3,165,707	72.67	6.9%	0.04	0.09	0.18	0.51
WSVCB15	100	710,554		152,736									30,476				5,129,576	74,808	6,098,150	139.99	15.7%	0.10	0.16	0.25	0.55
																			0	0.00					
																			0	0.00					
																			0	0.00					
TOTAL SITE		2,245,809	0	2,296,232	0	0	0	311,121	1,546,298	839,549	1,238,769	1,971,600	30,476	3,138,223	2,722,547	0	74,043,137	2,479,121	92,862,882	2131.84	11.9%	0.08	0.13	0.22	0.53

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
WSVCB1	86	100yr	0.1604903	0.183333333	0.5954545	0.015725191	12.72262927	0.35	0.1	3	0.0018	0.5	0
WSVCB2	87	100yr	0.4275627	0.713825758	1.3280303	0.00741158	6.302342253	0.4	0.1	3	0.0018	0.5	0
WSVCB3	88	100yr	0.187502	0.559090909	1.2030303	0.011657746	7.349919604	0.4	0.1	3	0.0018	0.5	0
WSVCB4	89	100yr	0.1329249	0.467424242	0.9829545	0.013183044	7.424084945	0.4	0.1	3	0.0018	0.5	0
WSVCB5	90	100yr	0.0546473	0.257575758	0.524053	0.019515721	27.71791819	0.35	0.1	3	0.0018	0.5	0
WSVCB6	91	100yr	0.3915478	0.595265152	1.0486742	0.009040997	6.990751692	0.4	0.1	3	0.0018	0.5	0
WSVCB7	92	100yr	0.3320357	0.358143939	1.0530303	0.01205036	34.67651057	0.35	0.1	3	0.0018	0.5	0
WSVCB8	93	100yr	0.1047899	0.121590909	0.7397727	0.017665131	5.981551153	0.4	0.1	3	0.0018	0.5	0
WSVCB9	94	100yr	0.0950813	0.54375	1.0852273	0.015935428	8.171666955	0.4	0.1	3	0.0018	0.5	0
WSVCB10	95	100yr	0.072287	0.449621212	0.8287879	0.012577697	21.793637	0.4	0.1	3	0.0018	0.5	0
WSVCB11	96	100yr	0.3098402	0.581628788	1.1051136	0.016476435	8.888779718	0.4	0.1	3	0.0018	0.5	0
WSVCB12	97	100yr	0.5462657	0.55	1.4424242	0.01707458	6.41216063	0.4	0.1	3	0.0018	0.5	0
WSVCB13	98	100yr	0.1837276	0.435037879	0.9346591	0.017138804	6.426825916	0.4	0.1	3	0.0018	0.5	0
WSVCB14	99	100yr	0.1135541	0.255492424	0.5787879	0.030104712	6.863190434	0.4	0.1	3	0.0018	0.5	0
WSVCB15	100	100yr	0.218741	0.578977273	1.1541667	0.022645225	15.71280995	0.4	0.1	3	0.0018	0.5	0

WEST ST VRAIN CREEK BASIN

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in./hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
WSVCB1	86	100YR	0.160	0.183	0.595	0.016	12.7	0.35	0.10	3.00	0.50	0.0018	0.00	0.25	0.11	11.80
WSVCB2	87	100YR	0.428	0.714	1.328	0.007	6.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.13	0.06	5.75
WSVCB3	88	100YR	0.188	0.559	1.203	0.012	7.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.15	0.07	6.72
WSVCB4	89	100YR	0.133	0.467	0.983	0.013	7.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.15	0.07	6.79
WSVCB5	90	100YR	0.055	0.258	0.524	0.020	27.7	0.35	0.10	3.00	0.50	0.0018	0.00	0.55	0.16	26.55
WSVCB6	91	100YR	0.392	0.595	1.049	0.009	7.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.14	0.07	6.39
WSVCB7	92	100YR	0.332	0.358	1.053	0.012	34.7	0.35	0.10	3.00	0.50	0.0018	0.00	0.69	0.18	33.59
WSVCB8	93	100YR	0.105	0.122	0.740	0.018	6.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.46
WSVCB9	94	100YR	0.095	0.544	1.085	0.016	8.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.16	0.08	7.48
WSVCB10	95	100YR	0.072	0.450	0.829	0.013	21.8	0.40	0.10	3.00	0.50	0.0018	0.00	0.44	0.14	20.67
WSVCB11	96	100YR	0.310	0.582	1.105	0.016	8.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.18	0.09	8.15
WSVCB12	97	100YR	0.546	0.550	1.442	0.017	6.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.13	0.06	5.85
WSVCB13	98	100YR	0.184	0.435	0.935	0.017	6.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.13	0.06	5.87
WSVCB14	99	100YR	0.114	0.255	0.579	0.030	6.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.14	0.07	6.27
WSVCB15	100	100YR	0.219	0.579	1.154	0.023	15.7	0.40	0.10	3.00	0.50	0.0018	0.00	0.31	0.12	14.71

WEST ST VRAIN CREEK BASIN

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
WSVCB1		0.123	0.167	32.2	5.63	16.8	3.98	9.4	149	372,851	1.92	715,407	45.0	193	714,692	1.88
WSVCB2		0.142	0.255	82.5	17.63	42.9	12.46	29.4	156	993,314	1.80	1,787,083	70.0	249	1,786,697	0.91
WSVCB3		0.138	0.194	80.1	13.46	41.6	9.51	22.4	70	435,605	1.81	788,991	70.0	111	788,802	0.93
WSVCB4		0.138	0.168	74.7	11.15	38.9	7.88	18.6	53	308,811	1.81	559,602	65.0	83	559,447	0.97
WSVCB5		0.103	0.102	46.3	5.14	24.1	3.63	8.6	35	126,957	2.09	265,844	50.0	53	265,366	1.51
WSVCB6		0.139	0.244	65.9	13.87	34.3	9.80	23.1	178	909,644	1.81	1,643,808	65.0	272	1,643,502	1.08
WSVCB7		0.097	0.241	34.0	7.80	17.7	5.51	13.0	293	771,385	2.18	1,678,592	45.0	421	1,675,308	1.98
WSVCB8		0.143	0.156	35.6	5.76	18.5	4.07	9.6	88	243,448	1.80	437,086	45.0	112	436,539	1.66
WSVCB9		0.135	0.142	93.4	11.71	48.6	8.27	19.5	31	220,893	1.82	402,201	70.0	50	402,124	0.82
WSVCB10		0.110	0.112	81.9	8.52	42.6	6.02	14.2	26	167,937	1.99	333,448	65.0	44	333,322	0.95
WSVCB11		0.133	0.219	61.7	11.86	32.1	8.38	19.8	151	719,821	1.83	1,316,646	60.0	226	1,316,418	1.14
WSVCB12		0.141	0.273	57.6	13.59	29.9	9.60	22.6	285	1,269,085	1.80	2,284,841	60.0	421	2,284,898	1.20
WSVCB13		0.141	0.199	57.4	10.26	29.8	7.25	17.1	96	426,836	1.80	768,542	55.0	139	767,984	1.18
WSVCB14		0.140	0.159	38.3	6.16	19.9	4.35	10.3	89	263,809	1.81	476,336	45.0	115	476,288	1.58
WSVCB15		0.118	0.182	62.3	10.19	32.4	7.20	17.0	105	508,179	1.91	971,369	60.0	162	971,062	1.15

Printouts for Unit Hydrographs

flow in cfs

Time in minutes	WSV/CB1	WSV/CB2	WSV/CB3	WSV/CB4	WSV/CB5	WSV/CB6	WSV/CB7	WSV/CB8	WSV/CB9	WSV/CB10	WSV/CB11	WSV/CB12	WSV/CB13	WSV/CB14	WSV/CB15
5	104.45	21.03	14.55	14.88	26.88	35.46	138.94	60.45	7.86	11.08	38.37	58.86	30.57	56.79	33.85
10	149.25	62.15	40.36	37.71	35.36	98.55	271.08	88.30	20.58	23.27	100.09	161.57	73.03	88.97	80.62
15	142.15	104.24	59.51	50.59	34.53	147.59	290.69	85.23	28.27	26.49	138.51	239.58	94.04	86.99	103.41
20	123.62	133.49	69.09	53.33	32.64	173.65	268.49	76.87	30.54	26.32	150.67	279.31	95.66	80.32	105.03
25	104.37	150.73	70.12	52.79	29.69	177.92	221.67	64.86	30.40	25.91	148.83	283.77	93.12	69.04	102.74
30	90.87	155.53	69.26	51.55	26.13	174.66	194.41	57.69	30.03	25.25	143.64	275.41	88.22	61.15	98.36
35	77.36	154.22	67.55	49.61	24.00	167.69	168.38	50.52	29.41	24.34	135.10	258.44	80.98	54.42	91.91
40	68.43	150.81	64.99	46.99	21.86	157.00	144.08	43.69	28.57	23.19	123.20	232.85	71.74	47.70	83.38
45	60.64	145.30	61.58	43.66	19.72	142.60	129.38	39.53	27.49	21.79	110.79	207.44	66.84	42.47	76.27
50	52.84	137.69	57.31	39.84	17.63	129.76	114.69	35.37	26.17	20.13	103.58	192.39	61.95	38.56	71.37
55	45.05	127.97	52.46	37.80	16.37	121.68	99.99	31.21	24.62	19.10	96.37	177.34	57.05	34.66	66.47
60	37.25	116.44	49.91	35.75	15.11	113.60	85.29	27.05	22.87	18.20	89.17	162.28	52.16	30.76	61.57
65	29.73	110.79	47.37	33.70	13.84	105.53	70.60	22.89	21.95	17.30	81.96	147.23	47.59	26.86	56.67
70	27.13	105.14	44.82	31.66	12.58	97.45	57.66	18.73	21.03	16.40	75.00	136.63	44.77	22.96	52.16
75	24.54	99.49	42.28	29.61	11.31	89.37	52.76	16.63	20.10	15.50	70.87	128.16	41.95	19.05	49.32
80	21.94	93.84	39.73	27.57	10.05	84.66	47.86	15.25	19.18	14.60	66.74	119.69	39.13	16.92	46.48
85	19.34	88.19	37.19	26.00	8.79	80.06	42.96	13.86	18.26	13.70	62.61	111.21	36.31	15.62	43.64
90	16.74	82.54	34.84	24.81	7.52	75.47	38.06	12.47	17.34	12.98	58.48	102.74	33.49	14.32	40.80
95	14.14	77.27	33.37	23.62	6.81	70.87	33.16	11.09	16.41	12.45	54.35	94.27	30.67	13.02	37.96
100	11.55	74.06	31.90	22.43	6.39	66.28	28.26	9.70	15.49	11.91	50.22	85.80	27.85	11.72	35.12
105	8.95	70.85	30.42	21.23	5.96	61.68	23.37	8.31	14.86	11.38	46.09	77.33	25.03	10.42	32.28
110	6.35	67.64	28.95	20.04	5.54	57.09	18.47	6.93	14.32	10.85	41.96	68.86	22.21	9.12	29.44
115	3.75	64.43	27.48	18.85	5.12	52.50	13.57	5.54	13.77	10.31	37.83	60.39	19.39	7.82	26.60
120	1.15	61.22	26.00	17.65	4.70	47.90	8.67	4.15	13.23	9.78	33.70	55.27	18.33	6.52	23.76
125	0.00	58.01	24.53	16.46	4.28	43.31	3.77	2.77	12.69	9.25	29.95	52.44	17.39	5.22	21.03
130		54.80	23.06	15.27	3.86	38.71	0.00	1.38	12.14	8.71	28.57	49.62	16.45	3.92	20.08
135		51.60	21.59	14.08	3.44	35.13		0.00	11.60	8.18	27.19	46.80	15.51	2.62	19.14
140		48.39	20.11	12.88	3.01	33.60			11.06	7.64	25.82	43.97	14.57	1.32	18.19
145		45.18	18.64	11.69	2.59	32.07			10.52	7.11	24.44	41.15	13.63	0.02	17.24
150		41.97	17.17	10.61	2.17	30.54			9.97	6.58	23.06	38.33	12.69	0.00	16.30
155		38.76	15.69	10.22	1.75	29.00			9.43	6.04	21.69	35.50	11.75		15.35
160		35.55	14.22	9.82	1.33	27.47			8.89	5.51	20.31	32.68	10.81		14.40
165		32.34	13.61	9.42	0.91	25.94			8.35	5.19	18.93	29.85	9.87		13.45
170		30.45	13.12	9.02	0.49	24.41			7.80	5.01	17.56	27.03	8.93		12.51
175		29.38	12.63	8.63	0.07	22.88			7.26	4.83	16.18	24.21	7.99		11.56
180		28.31	12.14	8.23	0.00	21.35			6.72	4.66	14.80	21.38	7.05		10.61
185		27.24	11.65	7.83		19.82			6.17	4.48	13.43	18.56	6.11		9.67
190		26.17	11.16	7.43		18.28			5.65	4.30	12.05	15.73	5.17		8.72
195		25.10	10.67	7.04		16.75			5.11	4.12	10.67	12.91	4.23		7.77
200		24.03	10.18	6.64		15.22			4.59	3.94	9.30	10.09	3.29		6.83
205		22.96	9.69	6.24		13.69			4.11	3.77	7.92	7.26	2.35		5.88
210		21.89	9.20	5.84		12.16			3.63	3.59	6.54	4.44	1.41		4.93
215		20.82	8.70	5.45		10.63			3.15	3.41	5.17	1.62	0.47		3.99
220		19.75	8.21	5.05		9.10			2.67	3.23	3.79	0.00	0.00		3.04
225		18.68	7.72	4.65		7.56			2.19	3.05	2.41				2.09
230		17.61	7.23	4.25		6.03			1.71	2.88	1.04				1.15
235		16.54	6.74	3.86		4.50			1.23	2.70	0.00				0.20
240		15.47	6.25	3.46		2.97			0.75	2.52					0.00
245		14.40	5.76	3.06		1.44			0.27	2.34					
250		13.33	5.27	2.66		0.00			-0.21	2.17					
255		12.26	4.78	2.26					-0.69	1.99					
260		11.19	4.29	1.87					-1.17	1.81					
265		10.12	3.79	1.47					-1.65	1.63					
270		9.05	3.30	1.07					-2.13	1.45					
275		7.98	2.81	0.67					-2.61	1.28					
280		6.91	2.32	0.28					-3.09	1.10					
285		5.84	1.83	0.00					-3.57	0.92					
290		4.77	1.34						-4.05	0.74					
295		3.70	0.85						-4.53	0.56					
300		2.63	0.36						-5.01	0.39					
305		1.56	0.00						-5.49	0.21					
310		0.50							-5.97	0.03					
315		0.00							-6.45	0.00					
320									-6.93						
325									-7.41						
330									-7.89						
335									-8.37						
340									-8.85						
345									-9.33						
350									-9.81						
355									-10.29						

WSVCB ROUTING CALCULATIONS

WEST ST VRRAIN CREEK BASIN

END Basin WSVCB2

End Node	Upstream Nodes
WSVCB2	WSVCB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
WSVCB2	70	0
WSVCB1	45	70

END Basin WSVCB3

End Node	Upstream Nodes	
WSVCB3	WSVCB2	WSVCB1
	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
WSVCB3	70.0	0
WSVCB2	70.0	70.0
WSVCB1	45.0	140.0

END Basin WSVCB4

End Node	Upstream Nodes		
WSVCB4	WSVCB3	WSVCB2	WSVCB1
WSVCB4	WSVCB5		

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
WSVCB4	65.0	0
WSVCB5	50.0	65.0
WSVCB3	70.0	65.0
WSVCB2	70.0	135.0
WSVCB1	45.0	205.0

END Basin WSVCB7

End Node	Upstream Nodes
WSVCB7	WSVCB6

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
WSVCB7	45.0	0
WSVCB6	65.0	45.0

END Basin WSVCB8

End Node	Upstream Nodes			
WSVCB8	WSVCB7	WSVCB6		
WSVCB8	WSVCB4	WSVCB5		
WSVCB8	WSVCB4	WSVCB3	WSVCB2	WSVCB1

WEST ST VRRAIN CREEK BASIN

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
WSVCB8	45.0	0
WSVCB7	45.0	45.0
WSVCB6	65.0	90.0
WSVCB4	65.0	45.0
WSVCB5	50.0	110.0
WSVCB3	70.0	110.0
WSVCB2	70.0	180.0
WSCVB1	45.0	250.0

END Basin WSVCB9

End Node	Upstream Nodes				
WSVCB9	WSVCB8	WSVCB7	WSVCB6		
WSVCB9	WSVCB8	WSVCB4	WSVCB5		
WSVCB9	WSVCB8	WSVCB4	WSVCB3	WSVCB2	WSVCB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
WSVCB9	70.0	0
WSVCB8	45.0	70.0
WSVCB7	45.0	115.0
WSVCB6	65.0	160.0
WSVCB4	65.0	115.0
WSVCB5	50.0	180.0
WSVCB3	70.0	180.0
WSVCB2	70.0	250.0
WSCVB1	45.0	320.0

END Basin WSVCB11

End Node	Upstream Nodes					
WSVCB11	WSVCB10					
WSVCB11	WSVCB9	WSVCB8	WSVCB7	WSVCB6		
WSVCB11	WSVCB9	WSVCB8	WSVCB4	WSVCB5		
WSVCB11	WSVCB9	WSVCB8	WSVCB4	WSVCB3	WSVCB2	WSVCB1

WEST ST VRAIN CREEK BASIN

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
WSVCB11	60.0	0
WSVCB10	65.0	60.0
WSVCB9	70.0	60.0
WSVCB8	45.0	130.0
WSVCB7	45.0	175.0
WSVCB6	65.0	220.0
WSVCB4	65.0	175.0
WSVCB5	50.0	240.0
WSVCB3	70.0	240.0
WSVCB2	70.0	310.0
WSCVB1	45.0	380.0

END Basin WSVCB14

End Node	Upstream Nodes
WSVCB14	WSVCB13

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
WSVCB14	45.0	0
WSVCB13	55.0	45.0

time in minutes	WSVCB2	WSVCB1	Total to WSVCB2	max
0	0.00		0.00	377
5	0.00		0.00	
10	0.00		0.00	
15	0.03		0.03	
20	0.21		0.21	
25	3.41		3.41	
30	22.88		22.88	
35	62.51		62.51	
40	111.57		111.57	
45	157.32		157.32	
50	194.07		194.07	
55	219.14		219.14	
60	234.91		234.91	
65	244.87		244.87	
70	249.50	0.00	249.50	
75	248.33	0.04	248.36	
80	241.34	0.46	241.80	
85	230.09	2.95	233.04	
90	219.33	24.82	244.15	
95	208.69	100.87	309.56	
100	197.93	163.84	361.77	
105	187.18	189.45	376.64	
110	176.52	192.87	369.39	
115	165.99	186.22	352.21	
120	156.20	175.82	332.02	
125	148.18	164.79	312.97	
130	140.92	156.24	297.16	
135	134.10	143.57	277.67	
140	127.53	128.83	256.36	
145	121.16	112.68	233.84	
150	114.94	96.64	211.58	
155	108.89	82.39	191.28	
160	102.99	71.85	174.85	
165	97.13	63.53	160.67	
170	91.31	56.27	147.58	
175	85.50	49.75	135.25	
180	79.70	43.74	123.44	
185	73.92	38.09	112.01	
190	68.33	32.45	100.78	
195	63.70	27.01	90.71	
200	60.05	21.68	81.73	
205	56.92	16.51	73.43	
210	54.12	11.71	65.83	
215	51.56	8.10	59.66	
220	49.17	5.77	54.95	
225	46.94	4.13	51.06	
230	44.86	2.90	47.75	
235	42.85	1.98	44.84	
240	40.89	1.31	42.19	
245	38.93	0.84	39.77	
250	36.99	0.58	37.57	
255	35.04	0.44	35.48	
260	33.10	0.34	33.44	
265	31.16	0.27	31.43	
270	29.22	0.20	29.43	
275	27.29	0.15	27.44	
280	25.36	0.10	25.47	
285	23.44	0.07	23.50	
290	21.51	0.04	21.55	
295	19.59	0.02	19.60	
300	17.66	0.00	17.67	
305	15.74	0.00	15.74	
310	13.81	0.00	13.81	
315	11.89	0.00	11.89	
320	9.96	0.00	9.96	
325	8.04	0.00	8.04	
330	6.12	0.00	6.12	
335	4.28	0.00	4.28	
340	2.88	0.00	2.88	
345	2.00	0.00	2.00	
350	1.39	0.00	1.39	
355	0.94	0.00	0.94	
360	0.61	0.00	0.61	
365	0.37	0.00	0.37	
370	0.21	0.00	0.21	
375	0.13	0.00	0.13	
380	0.09	0.00	0.09	
385	0.06	0.00	0.06	
390	0.05	0.00	0.05	
395	0.04	0.00	0.04	
400	0.03	0.00	0.03	
405	0.02	0.00	0.02	
410	0.01	0.00	0.01	
415	0.01	0.00	0.01	
420	0.00	0.00	0.00	

time in minutes	WSVCB3	WSVCB2	WSVCB1	Total to WSV/CB1	max
0	0.00			0.00	412
5	0.00			0.00	
10	0.00			0.00	
15	0.02			0.02	
20	0.18			0.18	
25	2.47			2.47	
30	15.65			15.65	
35	40.03			40.03	
40	65.19			65.19	
45	84.60			84.60	
50	96.67			96.67	
55	104.02			104.02	
60	108.45			108.45	
65	110.89			110.89	
70	111.01	0.00		111.01	
75	108.43	0.00		108.43	
80	103.81	0.00		103.81	
85	99.10	0.03		99.13	
90	94.35	0.21		94.57	
95	89.52	3.41		92.93	
100	84.70	22.88		107.58	
105	79.92	62.51		142.42	
110	75.20	111.57		186.77	
115	70.83	157.32		228.15	
120	67.22	194.07		261.29	
125	63.94	219.14		283.08	
130	60.83	234.91		295.74	
135	57.82	244.87		302.69	
140	54.88	249.50	0.00	304.38	
145	52.02	248.33	0.04	300.38	
150	49.23	241.34	0.46	291.03	
155	46.50	230.09	2.95	279.55	
160	43.79	219.33	24.82	287.94	
165	41.10	208.69	100.87	350.66	
170	38.42	197.93	163.84	400.18	
175	35.74	187.18	189.45	412.37	
180	33.07	176.52	192.87	402.46	
185	30.52	165.99	186.22	382.73	
190	28.55	156.20	175.82	360.57	
195	26.96	148.18	164.79	339.93	
200	25.56	140.92	156.24	322.72	
205	24.29	134.10	143.57	301.97	
210	23.13	127.53	128.83	279.49	
215	22.05	121.16	112.68	255.89	
220	21.03	114.94	96.64	232.61	
225	20.08	108.89	82.39	211.36	
230	19.16	102.99	71.85	194.01	
235	18.25	97.13	63.53	178.92	
240	17.35	91.31	56.27	164.93	
245	16.45	85.50	49.75	151.70	
250	15.55	79.70	43.74	138.99	
255	14.65	73.92	38.09	126.66	
260	13.76	68.33	32.45	114.53	
265	12.86	63.70	27.01	103.57	
270	11.97	60.05	21.68	93.70	
275	11.08	56.92	16.51	84.51	
280	10.19	54.12	11.71	76.01	
285	9.30	51.56	8.10	68.96	
290	8.41	49.17	5.77	63.35	
295	7.52	46.94	4.13	58.58	
300	6.63	44.86	2.90	54.38	
305	5.74	42.85	1.98	50.58	
310	4.85	40.89	1.31	47.04	
315	3.96	38.93	0.84	43.74	
320	3.07	36.99	0.58	40.64	
325	2.21	35.04	0.44	37.68	
330	1.48	33.10	0.34	34.92	
335	1.03	31.16	0.27	32.45	
340	0.72	29.22	0.20	30.15	
345	0.49	27.29	0.15	27.93	
350	0.33	25.36	0.10	25.79	
355	0.21	23.44	0.07	23.71	
360	0.12	21.51	0.04	21.67	
365	0.07	19.59	0.02	19.68	
370	0.05	17.66	0.00	17.72	
375	0.04	15.74	0.00	15.78	
380	0.03	13.81	0.00	13.84	
385	0.02	11.89	0.00	11.91	
390	0.02	9.96	0.00	9.98	
395	0.01	8.04	0.00	8.05	
400	0.01	6.12	0.00	6.13	
405	0.00	4.28	0.00	4.29	
410	0.00	2.88	0.00	2.88	
415	0.00	2.00	0.00	2.00	
420	0.00	1.39	0.00	1.39	
425	0.00	0.94	0.00	0.94	
430	0.00	0.61	0.00	0.61	
435	0.00	0.37	0.00	0.37	
440	0.00	0.21	0.00	0.21	
445	0.00	0.13	0.00	0.13	
450	0.00	0.09	0.00	0.09	
455	0.00	0.06	0.00	0.06	
460	0.00	0.05	0.00	0.05	
465	0.00	0.04	0.00	0.04	
470	0.00	0.03	0.00	0.03	
475		0.02	0.00	0.02	
480		0.01	0.00	0.01	
485		0.01	0.00	0.01	
490		0.00	0.00	0.00	

Time in minutes	WSVCB7	WSVCB6	Total to	max
0	0.00		0.00	423
5	0.36		0.36	
10	4.75		4.75	
15	17.77		17.77	
20	61.86		61.86	
25	185.69		185.69	
30	322.19		322.19	
35	398.02		398.02	
40	420.64		420.64	
45	410.56	0.00	410.56	
50	392.09	0.00	392.09	
55	370.40	0.05	370.45	
60	350.02	0.40	350.42	
65	327.41	5.90	333.31	
70	299.77	37.94	337.71	
75	268.68	97.75	366.44	
80	236.27	160.99	397.25	
85	206.09	211.10	417.19	
90	179.73	242.82	422.55	
95	160.23	260.96	421.19	
100	144.48	269.79	414.27	
105	130.55	271.51	402.06	
110	117.96	265.95	383.90	
115	106.23	255.71	361.95	
120	93.78	244.10	337.88	
125	80.65	230.67	311.32	
130	67.90	216.21	284.11	
135	55.53	201.31	256.84	
140	43.90	186.75	230.65	
145	33.02	174.43	207.45	
150	24.04	163.66	187.70	
155	18.09	153.82	171.91	
160	13.77	144.53	158.30	
165	10.43	135.58	146.00	
170	7.83	126.76	134.59	
175	5.84	118.09	123.93	
180	4.34	109.62	113.96	
185	3.32	101.20	104.52	
190	2.64	92.83	95.48	
195	2.10	84.63	86.73	
200	1.67	77.37	79.04	
205	1.29	71.80	73.09	
210	0.96	67.13	68.09	
215	0.68	62.96	63.64	
220	0.44	59.17	59.61	
225	0.26	55.65	55.91	
230	0.12	52.37	52.49	
235	0.04	49.30	49.34	
240	0.00	46.41	46.41	
245	0.00	43.56	43.56	
250	0.00	40.75	40.75	
255	0.00	37.94	37.94	
260	0.00	35.14	35.14	
265	0.00	32.34	32.34	
270	0.00	29.55	29.55	
275	0.00	26.76	26.76	
280	0.00	23.98	23.98	
285	0.00	21.21	21.21	
290	0.00	18.44	18.44	
295	0.00	15.67	15.67	
300	0.00	12.90	12.90	
305	0.00	10.14	10.14	
310	0.00	7.40	7.40	
315	0.00	4.92	4.92	
320	0.00	3.39	3.39	
325	0.00	2.38	2.38	
330	0.00	1.64	1.64	
335	0.00	1.09	1.09	
340	0.00	0.70	0.70	
345	0.00	0.41	0.41	
350	0.00	0.23	0.23	
355	0.00	0.16	0.16	
360	0.00	0.11	0.11	
365	0.00	0.09	0.09	
370	0.00	0.07	0.07	
375	0.00	0.05	0.05	
380	0.00	0.04	0.04	
385	0.00	0.03	0.03	
390	0.00	0.01	0.01	
395	0.00	0.01	0.01	
400	0.00	0.00	0.00	

Time in minutes	WVPC11	WVPC10	WVPC09	WVPC08	WVPC07	WVPC06	WVPC05	WVPC04	WVPC03	WVPC02	WVPC01	Total to	Time
0	0.00											0.00	
5	0.00											0.00	
10	0.01											0.01	
15	0.09											0.09	
20	0.59											0.59	
25	6.95											6.95	
30	41.20											41.20	
35	99.92											99.92	
40	154.55											154.55	
45	191.40											191.40	
50	212.37											212.37	
55	223.12											223.12	
60	226.25	0.00	0.00									226.25	
65	223.78	0.00	0.00									223.78	
70	216.93	0.01	0.00									216.94	
75	208.35	0.15	0.02									208.52	
80	197.63	0.71	0.11									198.44	
85	185.22	3.28	1.37									189.87	
90	172.17	12.85	8.35									193.37	
95	159.42	25.17	20.37									204.96	
100	148.55	33.47	31.43									213.45	
105	138.90	38.17	33.83									215.86	
110	130.10	41.03	43.29									214.42	
115	121.74	42.76	46.14									210.64	
120	113.75	43.68	48.00									205.43	
125	105.88	44.13	49.25									199.26	
130	98.09	43.58	49.65	0.00								191.32	
135	90.41	42.11	48.98	0.00								181.49	
140	83.74	40.86	47.39	0.00								170.59	
145	75.20	38.74	45.25	0.04								159.24	
150	68.25	37.01	43.32	0.14								148.72	
155	62.97	35.29	41.48	2.23								141.98	
160	58.59	33.69	39.69	35.98								167.85	
165	54.71	31.90	37.93	68.36								192.90	
170	51.18	30.28	36.19	83.29								200.94	
175	47.93	28.84	34.47	87.95	0.00	0.00						199.19	
180	44.88	27.60	32.78	86.00	0.36	0.00						191.62	
185	42.03	26.40	31.18	82.36	4.75	0.00						186.72	
190	39.37	25.18	29.75	78.15	17.77	0.02						190.24	
195	36.76	23.98	28.48	73.97	61.86	0.07						225.12	
200	34.19	22.80	27.28	68.26	185.68	0.78						338.97	
205	31.63	21.66	26.15	61.76	322.19	9.78						473.15	
210	29.07	20.54	25.04	54.99	398.02	26.98						554.64	
215	26.52	19.43	23.97	48.34	420.64	42.86						581.74	
220	23.97	18.34	22.97	42.09	430.56	0.00	53.00					570.89	
225	21.43	17.26	21.91	36.09	392.09	0.00	58.95					547.73	
230	18.89	16.18	20.90	31.42	370.40	0.05	62.45					520.30	
235	16.36	15.11	19.90	27.88	350.02	0.40	64.25					493.93	
240	13.84	14.05	18.91	24.87	327.41	5.90	64.93	0.00	0.00			469.91	
245	11.32	13.04	17.91	22.20	299.77	37.94	64.03	0.00	0.00			466.21	
250	8.81	12.19	16.92	19.76	268.68	97.75	61.39	0.00	0.00			485.52	
255	6.36	11.52	15.93	17.43	236.27	160.99	58.95	0.41	0.00			507.48	
260	4.28	10.93	14.94	15.23	206.09	219.10	55.61	1.29	0.18			518.87	
265	2.99	10.41	13.95	13.18	179.73	242.82	52.60	5.81	2.47			523.94	
270	2.11	9.92	13.01	11.19	160.23	260.96	49.59	21.66	15.65			544.31	
275	1.46	9.47	12.08	9.23	144.48	269.79	46.61	33.90	40.03			567.25	
280	0.99	9.04	11.69	7.28	130.55	273.51	43.66	39.64	65.19			579.54	
285	0.64	8.64	11.18	5.34	117.96	269.95	41.05	42.13	84.60			577.47	
290	0.39	8.26	10.71	3.45	106.23	255.71	38.86	42.50	96.67			562.78	
295	0.24	7.88	10.28	2.22	93.78	240.10	36.86	41.32	104.02			540.79	
300	0.17	7.51	9.87	1.58	80.65	230.67	34.96	40.19	108.45			514.07	
305	0.13	7.14	9.50	1.05	67.90	216.21	33.11	39.15	110.89			485.07	
310	0.10	6.77	9.15	0.68	55.53	201.31	31.20	36.83	111.01	0.00		452.67	
315	0.08	6.41	8.80	0.41	43.80	186.75	29.23	34.16	108.43	0.00		418.47	
320	0.06	6.05	8.47	0.22	33.02	174.43	27.81	31.62	103.81	0.00		385.49	
325	0.04	5.68	8.13	0.11	24.04	163.66	26.12	29.19	99.10	0.03		356.10	
330	0.03	5.33	7.80	0.08	18.09	153.82	24.43	26.91	94.35	0.21		331.04	
335	0.02	4.97	7.46	0.05	13.77	144.53	22.74	24.77	89.52	3.41		311.25	
340	0.01	4.62	7.13	0.04	10.43	135.58	21.06	22.71	84.70	22.88		309.14	
345	0.00	4.26	6.80	0.03	7.83	126.76	19.39	20.71	79.92	62.51		328.20	
350	0.00	3.91	6.47	0.03	5.84	118.09	17.80	18.77	75.20	111.57		357.67	
355	0.00	3.56	6.13	0.02	4.34	109.62	16.62	16.96	70.83	157.32		385.40	
360	0.00	3.20	5.80	0.01	3.32	101.20	15.66	15.45	67.22	194.07		405.93	
365	0.00	2.85	5.48	0.01	2.64	92.83	14.81	14.12	63.94	219.14		415.82	
370	0.00	2.50	5.15	0.00	2.10	84.63	14.04	13.29	60.83	234.93		417.07	
375	0.00	2.14	4.82	0.00	1.67	77.37	13.33	11.83	57.82	244.87		413.85	
380	0.00	1.79	4.49	0.00	1.29	71.80	12.67	10.82	54.88	249.50	0.00	407.24	
385	0.00	1.44	4.16	0.00	0.96	67.13	12.05	9.89	52.02	248.33	0.04	396.00	
390	0.00	1.09	3.83	0.00	0.68	63.96	11.47	9.02	49.23	241.34	0.46	380.08	
395	0.00	0.78	3.50	0.00	0.44	59.17	10.90	8.21	46.50	230.09	2.95	362.54	
400	0.00	0.56	3.17	0.00	0.26	55.65	10.33	7.44	43.79	219.33	24.82	365.36	
405	0.00	0.42	2.84	0.00	0.12	52.37	9.77	6.68	41.10	208.69	100.87	422.86	
410	0.00	0.31	2.51	0.00	0.00	49.30	9.21	5.94	38.43	197.93	163.84	467.49	
415	0.00	0.23	2.18	0.00	0.00	46.41	8.64	5.21	35.74	187.18	189.45	475.04	
420	0.00	0.17	1.85	0.00	0.00	43.56	8.08	4.48	33.07	176.52	192.87	460.59	
425	0.00	0.12	1.52	0.00	0.00	40.75	7.52	3.75	30.52	165.99	186.22	436.39	
430	0.00	0.08	1.19	0.00	0.00	37.94	6.96	3.04	28.65	156.20	175.82	409.79	
435	0.00	0.06	0.87	0.00	0.00	35.14	6.40	2.34	26.96	148.18	164.79	384.74	
440	0.00	0.05	0.58	0.00	0.00	32.34	5.84	1.69	25.56	140.92	156.24	363.22	
445	0.00	0.04	0.40	0.00	0.00	29.55	5.28	1.21	24.29	134.10	143.57	338.45	
450	0.00	0.03	0.28	0.00	0.00	26.76	4.72	0.90	23.13	127.53	128.93	312.19	
455	0.00	0.02	0.20	0.00	0.00	23.98	4.17	0.67	22.05	121.16	112.68	284.93	
460	0.00	0.02	0.13	0.00	0.00	21.21	3.61	0.50	21.03	114.94	96.64	258.08	
465	0.00	0.01	0.09	0.00	0.00	18.44	3.05	0.37	20.08	108.89	82.39	233.12	
470	0.00	0.01	0.05	0.00	0.00	15.67	2.49	0.28	19.16	102.96	71.85	212.50	
475	0.00	0.03	0.03	0.00	0.00	12.90	1.94	0.20	18.25	97.13	63.53	194.00	
480	0.00	0.02	0.02	0.00	0.00	10.14	1.38	0.16	17.35	91.31	56.27	176.63	
485	0.00	0.02	0.00	0.00	0.00	7.40	0.91	0.12	16.45	85.50	49.75	160.14	
490	0.00	0.01	0.01	0.00	0.00	4.92	0.63	0.10	15.55	79.70	43.74	144.63	
495	0.00	0.01	0.01	0.00	0.00	3.39	0.42	0.08	14.65	73.92	38.09	130.56	
500	0.00	0.01	0.01	0.00	0.00	2.38	0.28	0.06	13.76	68.33	32.45	117.26	
505	0.00	0.01	0.01	0.00	0.00	1.64	0.18	0.04	12.89	63.70	27.01	105.44	
510	0.00	0.00	0.00	0.00	0.00	1.09	0.11	0.03	11.97	60.05	21.68	94.93	
515	0.00	0.00	0.00	0.00	0.00	0.70	0.06	0.02	11.08	56.92	16.51	85.29	
520	0.00	0.00	0.00	0.00	0.00	0.41	0.04	0.01	10.19	54.12	11.71	76.47	
525	0.00	0.00	0.00	0.00	0.00	0.23	0.03	0.00	9.30	51.56	8.10	69.12	
530	0.00	0.00	0.00	0.00	0.00	0.16	0.02	0.00	8.41	49.17	5.77	63.53	
535	0.00	0.00	0.00	0.00	0.00	0.11	0.01	0.00	7.52	46.94	4.13	58.71	

time in minutes	WSVCB14	WSVCB13	Total to	max
0	0.00		0.00	189
5	0.00		0.00	
10	0.01		0.01	
15	0.07		0.07	
20	0.54		0.54	
25	8.67		8.67	
30	49.67		49.67	
35	89.52		89.52	
40	108.44		108.44	
45	115.04	0.00	115.04	
50	113.79	0.00	113.79	
55	109.62	0.00	109.62	
60	104.87	0.04	104.91	
65	100.17	0.30	100.47	
70	93.20	4.81	98.00	
75	85.49	30.45	115.94	
80	77.33	71.14	148.47	
85	69.00	104.90	173.90	
90	61.17	124.36	185.53	
95	53.65	134.87	188.52	
100	46.63	139.17	185.81	
105	41.08	138.55	179.63	
110	36.78	135.08	171.86	
115	33.12	131.02	164.14	
120	29.85	125.03	154.88	
125	26.77	117.37	144.13	
130	23.83	108.90	132.73	
135	21.08	100.47	121.55	
140	18.51	93.18	111.69	
145	16.05	86.64	102.69	
150	13.64	80.68	94.32	
155	11.25	75.01	86.26	
160	8.87	69.59	78.46	
165	6.50	64.31	70.82	
170	4.32	59.13	63.45	
175	2.97	54.01	56.98	
180	2.08	48.89	50.97	
185	1.43	44.03	45.46	
190	0.95	40.33	41.28	
195	0.61	37.30	37.91	
200	0.36	34.64	35.00	
205	0.20	32.25	32.45	
210	0.14	30.04	30.18	
215	0.10	27.97	28.07	
220	0.08	26.04	26.12	
225	0.06	24.25	24.31	
230	0.05	22.50	22.55	
235	0.03	20.78	20.81	
240	0.02	19.07	19.09	
245	0.01	17.35	17.37	
250	0.01	15.64	15.65	
255	0.00	13.94	13.94	
260	0.00	12.23	12.23	
265	0.00	10.53	10.53	
270	0.00	8.83	8.83	
275	0.00	7.14	7.14	
280	0.00	5.45	5.45	
285	0.00	3.83	3.83	
290	0.00	2.57	2.57	
295	0.00	1.78	1.78	
300	0.00	1.24	1.24	
305	0.00	0.84	0.84	
310	0.00	0.55	0.55	
315	0.00	0.34	0.34	
320	0.00	0.19	0.19	
325	0.00	0.12	0.12	
330	0.00	0.08	0.08	
335	0.00	0.06	0.06	
340	0.00	0.05	0.05	
345	0.00	0.04	0.04	
350	0.00	0.03	0.03	
355	0.00	0.02	0.02	
360	0.00	0.01	0.01	
365	0.00	0.01	0.01	
370	0.00	0.00	0.00	

WSVCB SWMM INPUT

WSVCB SWMM calcs

[TITLE]

;;Project Title/Notes

[OPTIONS]

```

;;Option      value
FLOW_UNITS    CFS
INFILTRATION  HORTON
FLOW_ROUTING  DYNWAVE
LINK_OFFSETS  DEPTH
MIN_SLOPE     0
ALLOW_PONDING NO
SKIP_STEADY_STATE NO

START_DATE    05/10/2018
START_TIME    00:00:00
REPORT_START_DATE 05/10/2018
REPORT_START_TIME 00:00:00
END_DATE      05/10/2018
END_TIME      10:00:00
SWEEP_START   01/01
SWEEP_END     12/31
DRY_DAYS      0
REPORT_STEP   00:00:05
WET_STEP      00:00:05
DRY_STEP      00:00:05
ROUTING_STEP  0:00:05
    
```

```

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP     0.75
LENGTHENING_STEP  0
MIN_SURFAREA      12.557
MAX_TRIALS         8
HEAD_TOLERANCE    0.005
SYS_FLOW_TOL      5
LAT_FLOW_TOL      5
MINIMUM_STEP      0.5
THREADS           1
    
```

[EVAPORATION]

```

;;Data Source Parameters
;;-----
CONSTANT      0.0
DRY_ONLY      NO
    
```

[JUNCTIONS]

;;Name	Elevation	MaxDepth	InitDepth	SurDepth	Aponded
WSVCB2	5035.71	2	0	0	0
WSVCB9	5001	16	0	0	0
WSVCB10_1	4944.57	0	0	0	0

[OUTFALLS]

;;Name	Elevation	Type	Stage Data	Gated	Route To
WSVCB3_0	4969	FREE		NO	
WSVCB5_0	4926	FREE		NO	
WSVCB10_0	4942.15	FREE		NO	
WSVCB2_0	5035.37	FREE		NO	
WSVCB6_0	4985.23	FREE		NO	
WSVCB8_0	4900.5	FREE		NO	
WSVCB9_0	4953	FREE		NO	

WSVCB11_0 4948.5 FREE WSVCB SWMM calcs NO

[STORAGE]
 ;;Name Elev. MaxDepth InitDepth Shape Curve Name/Params
 N/A Fevap Psi Ksat IMD
 ;;-----

WSVCB1 0	0	82	1	0	TABULAR	WSVB1
WSVCB4 0	0	0	3	0	TABULAR	WSVCB4
WSVCB3 0	0	4970	8	0	TABULAR	WSVCB3
WSVCB5 0	0	4938	10	0	TABULAR	WSVCB5
WSVCB6 0	0	4985.93	6	0	TABULAR	WSVB6
WSVCB10 0	0	4945	2	0	TABULAR	WSVCB10
WSVCB13 0	0	77	4	0	TABULAR	WSVCB13
WSVCB7 0	0	4947	9	0	TABULAR	WSVCB7
WSVCB8 0	0	4901	10	0	TABULAR	WSVCB8
WSVCB11 0	0	4948	10	0	TABULAR	WSVCB11

[CONDUITS]
 ;;Name From Node To Node Length Roughness InOffset
 OutOffset InitFlow MaxFlow
 ;;-----

WSVCB3 0	0	WSVCB3 0	WSVCB3_0	70	0.023	0
WSVCB5 0	0	WSVCB5 0	WSVCB5_0	1052	0.013	0
WSVCB10_1 0	0	WSVCB10 0	WSVCB10_1	60	0.013	0
WSVCB2 0	0	WSVCB2 0	WSVCB2_0	33	0.23	0
WSVCB6 0	0	WSVCB6 0	WSVCB6_0	100	0.013	0
WSVCB8 0	0	WSVCB8 0	WSVCB8_0	110	0.013	0
WSVCB9 0	0	WSVCB9 0	WSVCB9_0	5150	0.02	0
WSVCB10_2 0	0	WSVCB10_1 0	WSVCB10_0	81	0.013	0
WSVCB11 0	0	WSVCB11 0	WSVCB11_0	70	0.013	0

[XSECTIONS]
 ;;Link Shape Geom1 Geom2 Geom3 Geom4
 Barrels Culvert
 ;;-----

WSVCB3	CIRCULAR	3.33	0	0	0	1
WSVCB5	CIRCULAR	2.07	0	0	0	1
WSVCB10_1	CIRCULAR	1.5	0	0	0	1

		WSVCB	SWMM	calcs			
WSVCB2	CIRCULAR	1.5		0	0	0	1
WSVCB6	CIRCULAR	2		0	0	0	1
WSVCB8	CIRCULAR	4		0	0	0	1
WSVCB9	IRREGULAR	WSVCB9		0	0	0	1
WSVCB10_2	CIRCULAR	1.5		0	0	0	1
WSVCB11	CIRCULAR	8		0	0	0	1

[TRANSECTS]

;;Transect Data in HEC-2 format

```

;
NC 0.02      0.02      0.02
X1 WSVCB9   7         0.0      0.0      0.0      0.0      0.0      0.0
0.0
GR 15.67    0         11.95   42.3     7        57.71   0        75.87   0
83.84
GR 7.39     103.04  16      116.52

```

[INFLOWS]

```

;;Node
Baseline Pattern
-----

```

Node	Constituent	Time Series	Type	Mfactor	Sfactor
WSVCB2	FLOW	WSVCB2	FLOW	1.0	1.0
WSVCB9	FLOW	WSVCB9	FLOW	1.0	1.0
WSVCB1	FLOW	WSVCB1	FLOW	1.0	1.0
WSVCB4	FLOW	WSVCB4	FLOW	1.0	1.0
WSVCB3	FLOW	WSVCB3	FLOW	1.0	1.0
WSVCB5	FLOW	WSVCB5	FLOW	1.0	1.0
WSVCB6	FLOW	WSVCB6	FLOW	1.0	1.0
WSVCB10	FLOW	WSVCB10	FLOW	1.0	1.0
WSVCB13	FLOW	WSVCB13	FLOW	1.0	1.0
WSVCB7	FLOW	WSVCB7	FLOW	1.0	1.0
WSVCB8	FLOW	WSVCB8	FLOW	1.0	1.0
WSVCB11	FLOW	WSVCB11	FLOW	1.0	1.0

[CURVES]

```

;;Name
-----
WSVB1      Storage    0         84872
WSVB1      Storage    1         390797
WSVB1      Storage    2         603506
;
WSVB6      Storage    0         0
WSVB6      Storage    1         6743
WSVB6      Storage    2         139516

```

WSVCB SWMM calcs

WSVB6		3	259303
WSVB6		4	396296
WSVB6		5	536174
WSVB6		6	675934
;			
WSVCB10	Storage	0	4557
WSVCB10		1	1374
;			
WSVCB11	Storage	0	0
WSVCB11		1	160
WSVCB11		2	4494
WSVCB11		3	10757
WSVCB11		4	20440
WSVCB11		5	29977
WSVCB11		6	42486
WSVCB11		7	54507
WSVCB11		8	63169
WSVCB11		9	74014
WSVCB11		10	86123
;			
WSVCB13	Storage	0	4492
WSVCB13		1	78933
WSVCB13		2	83461
WSVCB13		3	88368
WSVCB13		4	95656
;			
WSVCB3	Storage	0	830
WSVCB3		1	2675
WSVCB3		2	16258
WSVCB3		3	31024
WSVCB3		4	49473
WSVCB3		5	71128
WSVCB3		6	92113
WSVCB3		7	108341
WSVCB3		8	129791
;			
WSVCB4	Storage	0	3272.2
WSVCB4		1	25518.6
WSVCB4		2	37678.9
;			
WSVCB5	Storage	0	6421
WSVCB5		1	8537
WSVCB5		2	10364
WSVCB5		3	12067
WSVCB5		4	13905
WSVCB5		5	15988
WSVCB5		6	18341
WSVCB5		7	20829
WSVCB5		8	23440
WSVCB5		9	25974
WSVCB5		10	28582
;			
WSVCB7	Storage	0	348840
WSVCB7		1	710540
WSVCB7		2	845320
WSVCB7		3	949182
WSVCB7		4	1064514
WSVCB7		5	1152570
WSVCB7		6	1232896
WSVCB7		7	1309568
WSVCB7		8	1389997
WSVCB7		9	1446777
;			

WSVCB SWMM calcs

WSVCB8	Storage	0	0
WSVCB8		1	962
WSVCB8		2	3074
WSVCB8		3	5764
WSVCB8		4	8495
WSVCB8		5	10590
WSVCB8		6	12332
WSVCB8		7	14130
WSVCB8		8	16261
WSVCB8		9	19132
WSVCB8		10	26824

[TIMESERIES]

;;Name	Date	Time	Value
WSVCB1	5/10/2018	0:00	0.00
WSVCB1	5/10/2018	0:05	0.04
WSVCB1	5/10/2018	0:10	0.46
WSVCB1	5/10/2018	0:15	2.95
WSVCB1	5/10/2018	0:20	24.82
WSVCB1	5/10/2018	0:25	100.87
WSVCB1	5/10/2018	0:30	163.84
WSVCB1	5/10/2018	0:35	189.45
WSVCB1	5/10/2018	0:40	192.87
WSVCB1	5/10/2018	0:45	186.22
WSVCB1	5/10/2018	0:50	175.82
WSVCB1	5/10/2018	0:55	164.79
WSVCB1	5/10/2018	1:00	156.24
WSVCB1	5/10/2018	1:05	143.57
WSVCB1	5/10/2018	1:10	128.83
WSVCB1	5/10/2018	1:15	112.68
WSVCB1	5/10/2018	1:20	96.64
WSVCB1	5/10/2018	1:25	82.39
WSVCB1	5/10/2018	1:30	71.85
WSVCB1	5/10/2018	1:35	63.53
WSVCB1	5/10/2018	1:40	56.27
WSVCB1	5/10/2018	1:45	49.75
WSVCB1	5/10/2018	1:50	43.74
WSVCB1	5/10/2018	1:55	38.09
WSVCB1	5/10/2018	2:00	32.45
WSVCB1	5/10/2018	2:05	27.01
WSVCB1	5/10/2018	2:10	21.68
WSVCB1	5/10/2018	2:15	16.51
WSVCB1	5/10/2018	2:20	11.71
WSVCB1	5/10/2018	2:25	8.10
WSVCB1	5/10/2018	2:30	5.77
WSVCB1	5/10/2018	2:35	4.13
WSVCB1	5/10/2018	2:40	2.90
WSVCB1	5/10/2018	2:45	1.98
WSVCB1	5/10/2018	2:50	1.31
WSVCB1	5/10/2018	2:55	0.84
WSVCB1	5/10/2018	3:00	0.58
WSVCB1	5/10/2018	3:05	0.44
WSVCB1	5/10/2018	3:10	0.34
WSVCB1	5/10/2018	3:15	0.27
WSVCB1	5/10/2018	3:20	0.20
WSVCB1	5/10/2018	3:25	0.15
WSVCB1	5/10/2018	3:30	0.10
WSVCB1	5/10/2018	3:35	0.07
WSVCB1	5/10/2018	3:40	0.04
WSVCB1	5/10/2018	3:45	0.02
WSVCB1	5/10/2018	3:50	0.00
WSVCB1	5/10/2018	3:55	0.00

WSVCB SWMM calcs

WSVCB1	5/10/2018	4:00	0.00
WSVCB1	5/10/2018	4:05	0.00
WSVCB1	5/10/2018	4:10	0.00
WSVCB1	5/10/2018	4:15	0.00
WSVCB1	5/10/2018	4:20	0.00
WSVCB1	5/10/2018	4:25	0.00
WSVCB1	5/10/2018	4:30	0.00
WSVCB1	5/10/2018	4:35	0.00
WSVCB1	5/10/2018	4:40	0.00
WSVCB1	5/10/2018	4:45	0.00
WSVCB1	5/10/2018	4:50	0.00
WSVCB1	5/10/2018	4:55	0.00
WSVCB1	5/10/2018	5:00	0.00
WSVCB1	5/10/2018	5:05	0.00
WSVCB1	5/10/2018	5:10	0.00
WSVCB1	5/10/2018	5:15	0.00
WSVCB1	5/10/2018	5:20	0.00
WSVCB1	5/10/2018	5:25	0.00
WSVCB1	5/10/2018	5:30	0.00
WSVCB1	5/10/2018	5:35	0.00
WSVCB1	5/10/2018	5:40	0.00
WSVCB1	5/10/2018	5:45	0.00
WSVCB1	5/10/2018	5:50	0.00
WSVCB1	5/10/2018	5:55	0.00
WSVCB1	5/10/2018	6:00	0.00
WSVCB1	5/10/2018	6:05	0.00
WSVCB1	5/10/2018	6:10	0.00
WSVCB1	5/10/2018	6:15	0.00
WSVCB1	5/10/2018	6:20	0.00
WSVCB1	5/10/2018	6:25	0.00
WSVCB1	5/10/2018	6:30	0.00
WSVCB1	5/10/2018	6:35	0.00
WSVCB1	5/10/2018	6:40	0.00
WSVCB1	5/10/2018	6:45	0.00
WSVCB1	5/10/2018	6:50	0.00
WSVCB1	5/10/2018	6:55	0.00
WSVCB1	5/10/2018	7:00	0.00
WSVCB1	5/10/2018	7:05	0.00
WSVCB1	5/10/2018	7:10	0.00
WSVCB1	5/10/2018	7:15	0.00
WSVCB1	5/10/2018	7:20	0.00
WSVCB1	5/10/2018	7:25	0.00
WSVCB1	5/10/2018	7:30	0.00
WSVCB1	5/10/2018	7:35	0.00
WSVCB1	5/10/2018	7:40	0.00
WSVCB1	5/10/2018	7:45	0.00

;			
WSVCB4	5/10/2018	0:00	0
WSVCB4	5/10/2018	0:05	0.001745052
WSVCB4	5/10/2018	0:10	0.024347408
WSVCB4	5/10/2018	0:15	0.177398049
WSVCB4	5/10/2018	0:20	2.487375919
WSVCB4	5/10/2018	0:25	15.40385601
WSVCB4	5/10/2018	0:30	37.04869377
WSVCB4	5/10/2018	0:35	56.2289548
WSVCB4	5/10/2018	0:40	68.37207692
WSVCB4	5/10/2018	0:45	75.54199008
WSVCB4	5/10/2018	0:50	79.75719421
WSVCB4	5/10/2018	0:55	81.91801327
WSVCB4	5/10/2018	1:00	82.66691275
WSVCB4	5/10/2018	1:05	81.51490097
WSVCB4	5/10/2018	1:10	78.5174673
WSVCB4	5/10/2018	1:15	75.65843001

WSVCB SWMM calcs

WSVCB4	5/10/2018	1:20	73.63133223
WSVCB4	5/10/2018	1:25	76.74606005
WSVCB4	5/10/2018	1:30	94.50935342
WSVCB4	5/10/2018	1:35	118.3815286
WSVCB4	5/10/2018	1:40	145.7949144
WSVCB4	5/10/2018	1:45	170.4975338
WSVCB4	5/10/2018	1:50	187.4125079
WSVCB4	5/10/2018	1:55	195.4775666
WSVCB4	5/10/2018	2:00	199.002627
WSVCB4	5/10/2018	2:05	199.7384808
WSVCB4	5/10/2018	2:10	197.0300154
WSVCB4	5/10/2018	2:15	191.7190977
WSVCB4	5/10/2018	2:20	183.7773886
WSVCB4	5/10/2018	2:25	173.9277396
WSVCB4	5/10/2018	2:30	164.1794814
WSVCB4	5/10/2018	2:35	154.7447302
WSVCB4	5/10/2018	2:40	148.3272991
WSVCB4	5/10/2018	2:45	158.307557
WSVCB4	5/10/2018	2:50	188.7470279
WSVCB4	5/10/2018	2:55	229.3611494
WSVCB4	5/10/2018	3:00	267.6896724
WSVCB4	5/10/2018	3:05	298.0958205
WSVCB4	5/10/2018	3:10	317.3856802
WSVCB4	5/10/2018	3:15	327.7433665
WSVCB4	5/10/2018	3:20	332.5562373
WSVCB4	5/10/2018	3:25	332.2527226
WSVCB4	5/10/2018	3:30	326.395646
WSVCB4	5/10/2018	3:35	315.2718089
WSVCB4	5/10/2018	3:40	302.0738674
WSVCB4	5/10/2018	3:45	308.7821672
WSVCB4	5/10/2018	3:50	369.8333931
WSVCB4	5/10/2018	3:55	417.6966555
WSVCB4	5/10/2018	4:00	428.2352458
WSVCB4	5/10/2018	4:05	416.6774241
WSVCB4	5/10/2018	4:10	395.319212
WSVCB4	5/10/2018	4:15	371.5634491
WSVCB4	5/10/2018	4:20	349.4142957
WSVCB4	5/10/2018	4:25	330.9566861
WSVCB4	5/10/2018	4:30	309.126903
WSVCB4	5/10/2018	4:35	285.6619808
WSVCB4	5/10/2018	4:40	261.1349435
WSVCB4	5/10/2018	4:45	236.9835716
WSVCB4	5/10/2018	4:50	214.8902689
WSVCB4	5/10/2018	4:55	196.7272687
WSVCB4	5/10/2018	5:00	180.8873229
WSVCB4	5/10/2018	5:05	166.2739727
WSVCB4	5/10/2018	5:10	152.647944
WSVCB4	5/10/2018	5:15	139.6665429
WSVCB4	5/10/2018	5:20	127.1258111
WSVCB4	5/10/2018	5:25	114.8464717
WSVCB4	5/10/2018	5:30	103.771504
WSVCB4	5/10/2018	5:35	93.81500711
WSVCB4	5/10/2018	5:40	84.57824358
WSVCB4	5/10/2018	5:45	76.06005601
WSVCB4	5/10/2018	5:50	68.98876059
WSVCB4	5/10/2018	5:55	63.37722911
WSVCB4	5/10/2018	6:00	58.59976774
WSVCB4	5/10/2018	6:05	54.39418873
WSVCB4	5/10/2018	6:10	50.58510693
WSVCB4	5/10/2018	6:15	47.05070188
WSVCB4	5/10/2018	6:20	43.74072451
WSVCB4	5/10/2018	6:25	40.644027
WSVCB4	5/10/2018	6:30	37.68531339

WSVCB SWMM calcs

WSVCB4	5/10/2018	6:35	34.91542419
WSVCB4	5/10/2018	6:40	32.45170887
WSVCB4	5/10/2018	6:45	30.14638764
WSVCB4	5/10/2018	6:50	27.93441612
WSVCB4	5/10/2018	6:55	25.79416061
WSVCB4	5/10/2018	7:00	23.71040921
WSVCB4	5/10/2018	7:05	21.67147098
WSVCB4	5/10/2018	7:10	19.67623623
WSVCB4	5/10/2018	7:15	17.71741778
WSVCB4	5/10/2018	7:20	15.7752213
WSVCB4	5/10/2018	7:25	13.84299335
WSVCB4	5/10/2018	7:30	11.91162983
WSVCB4	5/10/2018	7:35	9.981179937
WSVCB4	5/10/2018	7:40	8.052191993
WSVCB4	5/10/2018	7:45	6.128523155
WSVCB4	5/10/2018	7:50	4.28760583
WSVCB4	5/10/2018	7:55	2.884931985
WSVCB4	5/10/2018	8:00	1.998690077
WSVCB4	5/10/2018	8:05	1.38600685
WSVCB4	5/10/2018	8:10	0.937763996
WSVCB4	5/10/2018	8:15	0.610744384
WSVCB4	5/10/2018	8:20	0.373269475
WSVCB4	5/10/2018	8:25	0.212035912
WSVCB4	5/10/2018	8:30	0.127285317
WSVCB4	5/10/2018	8:35	0.087301581
WSVCB4	5/10/2018	8:40	0.064730793
WSVCB4	5/10/2018	8:45	0.051094896
WSVCB4	5/10/2018	8:50	0.039068525
WSVCB4	5/10/2018	8:55	0.028652702
WSVCB4	5/10/2018	9:00	0.019848024
WSVCB4	5/10/2018	9:05	0.012654838
WSVCB4	5/10/2018	9:10	0.007073347
WSVCB4	5/10/2018	9:15	0.00310367
WSVCB4	5/10/2018	9:20	0.000745874
WSVCB4	5/10/2018	9:25	0
WSVCB4	5/10/2018	9:30	0
WSVCB4	5/10/2018	9:35	0
;			
WSVCB5	5/10/2018	0:00	0.00
WSVCB5	5/10/2018	0:05	0.04
WSVCB5	5/10/2018	0:10	0.56
WSVCB5	5/10/2018	0:15	2.16
WSVCB5	5/10/2018	0:20	8.93
WSVCB5	5/10/2018	0:25	28.25
WSVCB5	5/10/2018	0:30	42.76
WSVCB5	5/10/2018	0:35	49.52
WSVCB5	5/10/2018	0:40	52.37
WSVCB5	5/10/2018	0:45	52.67
WSVCB5	5/10/2018	0:50	51.24
WSVCB5	5/10/2018	0:55	49.85
WSVCB5	5/10/2018	1:00	48.55
WSVCB5	5/10/2018	1:05	45.75
WSVCB5	5/10/2018	1:10	42.62
WSVCB5	5/10/2018	1:15	39.49
WSVCB5	5/10/2018	1:20	36.45
WSVCB5	5/10/2018	1:25	33.58
WSVCB5	5/10/2018	1:30	30.89
WSVCB5	5/10/2018	1:35	28.28
WSVCB5	5/10/2018	1:40	25.76
WSVCB5	5/10/2018	1:45	23.33
WSVCB5	5/10/2018	1:50	21.09
WSVCB5	5/10/2018	1:55	19.28
WSVCB5	5/10/2018	2:00	17.65

WSVCB SWMM calcs

WSVCB5	5/10/2018	2:05	16.15
WSVCB5	5/10/2018	2:10	14.77
WSVCB5	5/10/2018	2:15	13.50
WSVCB5	5/10/2018	2:20	12.31
WSVCB5	5/10/2018	2:25	11.21
WSVCB5	5/10/2018	2:30	10.19
WSVCB5	5/10/2018	2:35	9.21
WSVCB5	5/10/2018	2:40	8.25
WSVCB5	5/10/2018	2:45	7.31
WSVCB5	5/10/2018	2:50	6.38
WSVCB5	5/10/2018	2:55	5.46
WSVCB5	5/10/2018	3:00	4.54
WSVCB5	5/10/2018	3:05	3.64
WSVCB5	5/10/2018	3:10	2.76
WSVCB5	5/10/2018	3:15	1.98
WSVCB5	5/10/2018	3:20	1.45
WSVCB5	5/10/2018	3:25	1.09
WSVCB5	5/10/2018	3:30	0.82
WSVCB5	5/10/2018	3:35	0.62
WSVCB5	5/10/2018	3:40	0.46
WSVCB5	5/10/2018	3:45	0.34
WSVCB5	5/10/2018	3:50	0.25
WSVCB5	5/10/2018	3:55	0.20
WSVCB5	5/10/2018	4:00	0.15
WSVCB5	5/10/2018	4:05	0.12
WSVCB5	5/10/2018	4:10	0.10
WSVCB5	5/10/2018	4:15	0.07
WSVCB5	5/10/2018	4:20	0.05
WSVCB5	5/10/2018	4:25	0.04
WSVCB5	5/10/2018	4:30	0.02
WSVCB5	5/10/2018	4:35	0.01
WSVCB5	5/10/2018	4:40	0.00
WSVCB5	5/10/2018	4:45	0.00
WSVCB5	5/10/2018	4:50	0.00
WSVCB5	5/10/2018	4:55	0.00
WSVCB5	5/10/2018	5:00	0.00
WSVCB5	5/10/2018	5:05	0.00
WSVCB5	5/10/2018	5:10	0.00
WSVCB5	5/10/2018	5:15	0.00
WSVCB5	5/10/2018	5:20	0.00
WSVCB5	5/10/2018	5:25	0.00
WSVCB5	5/10/2018	5:30	0.00
WSVCB5	5/10/2018	5:35	0.00
WSVCB5	5/10/2018	5:40	0.00
WSVCB5	5/10/2018	5:45	0.00
WSVCB5	5/10/2018	5:50	0.00
WSVCB5	5/10/2018	5:55	0.00
WSVCB5	5/10/2018	6:00	0.00
WSVCB5	5/10/2018	6:05	0.00
WSVCB5	5/10/2018	6:10	0.00
WSVCB5	5/10/2018	6:15	0.00
WSVCB5	5/10/2018	6:20	0.00
WSVCB5	5/10/2018	6:25	0.00
WSVCB5	5/10/2018	6:30	0.00
WSVCB5	5/10/2018	6:35	0.00
WSVCB5	5/10/2018	6:40	0.00
WSVCB5	5/10/2018	6:45	0.00
WSVCB5	5/10/2018	6:50	0.00
WSVCB5	5/10/2018	6:55	0.00
WSVCB5	5/10/2018	7:00	0.00
WSVCB5	5/10/2018	7:05	0.00
WSVCB5	5/10/2018	7:10	0.00
WSVCB5	5/10/2018	7:15	0.00

WSVCB SWMM calcs

WSVCB5	5/10/2018	7:20	0.00
WSVCB5	5/10/2018	7:25	0.00
WSVCB5	5/10/2018	7:30	0.00
WSVCB5	5/10/2018	7:35	0.00
WSVCB5	5/10/2018	7:40	0.00
WSVCB5	5/10/2018	7:45	0.00
;			
WSVCB6	5/10/2018	0:00	0.00
WSVCB6	5/10/2018	0:05	0.00
WSVCB6	5/10/2018	0:10	0.05
WSVCB6	5/10/2018	0:15	0.40
WSVCB6	5/10/2018	0:20	5.90
WSVCB6	5/10/2018	0:25	37.94
WSVCB6	5/10/2018	0:30	97.75
WSVCB6	5/10/2018	0:35	160.99
WSVCB6	5/10/2018	0:40	211.10
WSVCB6	5/10/2018	0:45	242.82
WSVCB6	5/10/2018	0:50	260.96
WSVCB6	5/10/2018	0:55	269.79
WSVCB6	5/10/2018	1:00	271.51
WSVCB6	5/10/2018	1:05	265.95
WSVCB6	5/10/2018	1:10	255.71
WSVCB6	5/10/2018	1:15	244.10
WSVCB6	5/10/2018	1:20	230.67
WSVCB6	5/10/2018	1:25	216.21
WSVCB6	5/10/2018	1:30	201.31
WSVCB6	5/10/2018	1:35	186.75
WSVCB6	5/10/2018	1:40	174.43
WSVCB6	5/10/2018	1:45	163.66
WSVCB6	5/10/2018	1:50	153.82
WSVCB6	5/10/2018	1:55	144.53
WSVCB6	5/10/2018	2:00	135.58
WSVCB6	5/10/2018	2:05	126.76
WSVCB6	5/10/2018	2:10	118.09
WSVCB6	5/10/2018	2:15	109.62
WSVCB6	5/10/2018	2:20	101.20
WSVCB6	5/10/2018	2:25	92.83
WSVCB6	5/10/2018	2:30	84.63
WSVCB6	5/10/2018	2:35	77.37
WSVCB6	5/10/2018	2:40	71.80
WSVCB6	5/10/2018	2:45	67.13
WSVCB6	5/10/2018	2:50	62.96
WSVCB6	5/10/2018	2:55	59.17
WSVCB6	5/10/2018	3:00	55.65
WSVCB6	5/10/2018	3:05	52.37
WSVCB6	5/10/2018	3:10	49.30
WSVCB6	5/10/2018	3:15	46.41
WSVCB6	5/10/2018	3:20	43.56
WSVCB6	5/10/2018	3:25	40.75
WSVCB6	5/10/2018	3:30	37.94
WSVCB6	5/10/2018	3:35	35.14
WSVCB6	5/10/2018	3:40	32.34
WSVCB6	5/10/2018	3:45	29.55
WSVCB6	5/10/2018	3:50	26.76
WSVCB6	5/10/2018	3:55	23.98
WSVCB6	5/10/2018	4:00	21.21
WSVCB6	5/10/2018	4:05	18.44
WSVCB6	5/10/2018	4:10	15.67
WSVCB6	5/10/2018	4:15	12.90
WSVCB6	5/10/2018	4:20	10.14
WSVCB6	5/10/2018	4:25	7.40
WSVCB6	5/10/2018	4:30	4.92
WSVCB6	5/10/2018	4:35	3.39

WSVCB SWMM calcs

WSVCB6	5/10/2018	4:40	2.38
WSVCB6	5/10/2018	4:45	1.64
WSVCB6	5/10/2018	4:50	1.09
WSVCB6	5/10/2018	4:55	0.70
WSVCB6	5/10/2018	5:00	0.41
WSVCB6	5/10/2018	5:05	0.23
WSVCB6	5/10/2018	5:10	0.16
WSVCB6	5/10/2018	5:15	0.11
WSVCB6	5/10/2018	5:20	0.09
WSVCB6	5/10/2018	5:25	0.07
WSVCB6	5/10/2018	5:30	0.05
WSVCB6	5/10/2018	5:35	0.04
WSVCB6	5/10/2018	5:40	0.03
WSVCB6	5/10/2018	5:45	0.01
WSVCB6	5/10/2018	5:50	0.01
WSVCB6	5/10/2018	5:55	0.00
WSVCB6	5/10/2018	6:00	0.00
WSVCB6	5/10/2018	6:05	0.00
WSVCB6	5/10/2018	6:10	0.00
WSVCB6	5/10/2018	6:15	0.00
WSVCB6	5/10/2018	6:20	0.00
WSVCB6	5/10/2018	6:25	0.00
WSVCB6	5/10/2018	6:30	0.00
WSVCB6	5/10/2018	6:35	0.00
WSVCB6	5/10/2018	6:40	0.00
WSVCB6	5/10/2018	6:45	0.00
WSVCB6	5/10/2018	6:50	0.00
WSVCB6	5/10/2018	6:55	0.00
WSVCB6	5/10/2018	7:00	0.00
WSVCB6	5/10/2018	7:05	0.00
WSVCB6	5/10/2018	7:10	0.00
WSVCB6	5/10/2018	7:15	0.00
WSVCB6	5/10/2018	7:20	0.00
WSVCB6	5/10/2018	7:25	0.00
WSVCB6	5/10/2018	7:30	0.00
WSVCB6	5/10/2018	7:35	0.00
WSVCB6	5/10/2018	7:40	0.00
WSVCB6	5/10/2018	7:45	0.00
;			
WSVCB10	5/10/2018	0:00	0.00
WSVCB10	5/10/2018	0:05	0.01
WSVCB10	5/10/2018	0:10	0.15
WSVCB10	5/10/2018	0:15	0.71
WSVCB10	5/10/2018	0:20	3.28
WSVCB10	5/10/2018	0:25	12.85
WSVCB10	5/10/2018	0:30	25.17
WSVCB10	5/10/2018	0:35	33.47
WSVCB10	5/10/2018	0:40	38.12
WSVCB10	5/10/2018	0:45	41.03
WSVCB10	5/10/2018	0:50	42.76
WSVCB10	5/10/2018	0:55	43.68
WSVCB10	5/10/2018	1:00	44.13
WSVCB10	5/10/2018	1:05	43.58
WSVCB10	5/10/2018	1:10	42.11
WSVCB10	5/10/2018	1:15	40.46
WSVCB10	5/10/2018	1:20	38.74
WSVCB10	5/10/2018	1:25	37.01
WSVCB10	5/10/2018	1:30	35.29
WSVCB10	5/10/2018	1:35	33.59
WSVCB10	5/10/2018	1:40	31.90
WSVCB10	5/10/2018	1:45	30.28
WSVCB10	5/10/2018	1:50	28.84
WSVCB10	5/10/2018	1:55	27.60

			WSVCB SWMM calcs
WSVCB10	5/10/2018	2:00	26.40
WSVCB10	5/10/2018	2:05	25.18
WSVCB10	5/10/2018	2:10	23.98
WSVCB10	5/10/2018	2:15	22.80
WSVCB10	5/10/2018	2:20	21.66
WSVCB10	5/10/2018	2:25	20.54
WSVCB10	5/10/2018	2:30	19.43
WSVCB10	5/10/2018	2:35	18.34
WSVCB10	5/10/2018	2:40	17.26
WSVCB10	5/10/2018	2:45	16.18
WSVCB10	5/10/2018	2:50	15.11
WSVCB10	5/10/2018	2:55	14.05
WSVCB10	5/10/2018	3:00	13.04
WSVCB10	5/10/2018	3:05	12.19
WSVCB10	5/10/2018	3:10	11.52
WSVCB10	5/10/2018	3:15	10.93
WSVCB10	5/10/2018	3:20	10.41
WSVCB10	5/10/2018	3:25	9.92
WSVCB10	5/10/2018	3:30	9.47
WSVCB10	5/10/2018	3:35	9.04
WSVCB10	5/10/2018	3:40	8.64
WSVCB10	5/10/2018	3:45	8.26
WSVCB10	5/10/2018	3:50	7.88
WSVCB10	5/10/2018	3:55	7.51
WSVCB10	5/10/2018	4:00	7.14
WSVCB10	5/10/2018	4:05	6.77
WSVCB10	5/10/2018	4:10	6.41
WSVCB10	5/10/2018	4:15	6.05
WSVCB10	5/10/2018	4:20	5.68
WSVCB10	5/10/2018	4:25	5.33
WSVCB10	5/10/2018	4:30	4.97
WSVCB10	5/10/2018	4:35	4.62
WSVCB10	5/10/2018	4:40	4.26
WSVCB10	5/10/2018	4:45	3.91
WSVCB10	5/10/2018	4:50	3.56
WSVCB10	5/10/2018	4:55	3.20
WSVCB10	5/10/2018	5:00	2.85
WSVCB10	5/10/2018	5:05	2.50
WSVCB10	5/10/2018	5:10	2.14
WSVCB10	5/10/2018	5:15	1.79
WSVCB10	5/10/2018	5:20	1.44
WSVCB10	5/10/2018	5:25	1.09
WSVCB10	5/10/2018	5:30	0.78
WSVCB10	5/10/2018	5:35	0.56
WSVCB10	5/10/2018	5:40	0.42
WSVCB10	5/10/2018	5:45	0.31
WSVCB10	5/10/2018	5:50	0.23
WSVCB10	5/10/2018	5:55	0.17
WSVCB10	5/10/2018	6:00	0.12
WSVCB10	5/10/2018	6:05	0.08
WSVCB10	5/10/2018	6:10	0.06
WSVCB10	5/10/2018	6:15	0.05
WSVCB10	5/10/2018	6:20	0.04
WSVCB10	5/10/2018	6:25	0.03
WSVCB10	5/10/2018	6:30	0.02
WSVCB10	5/10/2018	6:35	0.02
WSVCB10	5/10/2018	6:40	0.01
WSVCB10	5/10/2018	6:45	0.01
WSVCB10	5/10/2018	6:50	0.00
WSVCB10	5/10/2018	6:55	0.00
WSVCB10	5/10/2018	7:00	0.00
WSVCB10	5/10/2018	7:05	0.00
WSVCB10	5/10/2018	7:10	0.00

			WSVCB SWMM calcs
WSVCB10	5/10/2018	7:15	0.00
WSVCB10	5/10/2018	7:20	0.00
;			
WSVCB13	5/10/2018	0:00	0
WSVCB13	5/10/2018	0:05	0.002687166
WSVCB13	5/10/2018	0:10	0.037100847
WSVCB13	5/10/2018	0:15	0.297155138
WSVCB13	5/10/2018	0:20	4.80855975
WSVCB13	5/10/2018	0:25	30.44895805
WSVCB13	5/10/2018	0:30	71.14062543
WSVCB13	5/10/2018	0:35	104.8967626
WSVCB13	5/10/2018	0:40	124.3576724
WSVCB13	5/10/2018	0:45	134.8695008
WSVCB13	5/10/2018	0:50	139.1734947
WSVCB13	5/10/2018	0:55	138.5530556
WSVCB13	5/10/2018	1:00	135.0802176
WSVCB13	5/10/2018	1:05	131.0186824
WSVCB13	5/10/2018	1:10	125.0274997
WSVCB13	5/10/2018	1:15	117.3651814
WSVCB13	5/10/2018	1:20	108.8968657
WSVCB13	5/10/2018	1:25	100.4732425
WSVCB13	5/10/2018	1:30	93.1815602
WSVCB13	5/10/2018	1:35	86.63538651
WSVCB13	5/10/2018	1:40	80.67792541
WSVCB13	5/10/2018	1:45	75.00835968
WSVCB13	5/10/2018	1:50	69.59088598
WSVCB13	5/10/2018	1:55	64.31358231
WSVCB13	5/10/2018	2:00	59.13017078
WSVCB13	5/10/2018	2:05	54.00638867
WSVCB13	5/10/2018	2:10	48.88914589
WSVCB13	5/10/2018	2:15	44.03343292
WSVCB13	5/10/2018	2:20	40.32738429
WSVCB13	5/10/2018	2:25	37.30457601
WSVCB13	5/10/2018	2:30	34.64469539
WSVCB13	5/10/2018	2:35	32.24622193
WSVCB13	5/10/2018	2:40	30.03968689
WSVCB13	5/10/2018	2:45	27.97332078
WSVCB13	5/10/2018	2:50	26.04443552
WSVCB13	5/10/2018	2:55	24.25336399
WSVCB13	5/10/2018	3:00	22.50212544
WSVCB13	5/10/2018	3:05	20.78162326
WSVCB13	5/10/2018	3:10	19.06574844
WSVCB13	5/10/2018	3:15	17.35276029
WSVCB13	5/10/2018	3:20	15.64266025
WSVCB13	5/10/2018	3:25	13.93544917
WSVCB13	5/10/2018	3:30	12.23112753
WSVCB13	5/10/2018	3:35	10.52969561
WSVCB13	5/10/2018	3:40	8.831194905
WSVCB13	5/10/2018	3:45	7.136097351
WSVCB13	5/10/2018	3:50	5.447677084
WSVCB13	5/10/2018	3:55	3.827201805
WSVCB13	5/10/2018	4:00	2.573651868
WSVCB13	5/10/2018	4:05	1.783642783
WSVCB13	5/10/2018	4:10	1.238999439
WSVCB13	5/10/2018	4:15	0.840025506
WSVCB13	5/10/2018	4:20	0.548743126
WSVCB13	5/10/2018	4:25	0.337136204
WSVCB13	5/10/2018	4:30	0.192555976
WSVCB13	5/10/2018	4:35	0.115218705
WSVCB13	5/10/2018	4:40	0.079192278
WSVCB13	5/10/2018	4:45	0.058510387
WSVCB13	5/10/2018	4:50	0.046232936
WSVCB13	5/10/2018	4:55	0.035398308

Station	Date	Time	WSVCB SWMM calcs
WSVCB13	5/10/2018	5:00	0.026007437
WSVCB13	5/10/2018	5:05	0.018060866
WSVCB13	5/10/2018	5:10	0.011558913
WSVCB13	5/10/2018	5:15	0.006501763
WSVCB13	5/10/2018	5:20	0.002889523
WSVCB13	5/10/2018	5:25	0.000722257
WSVCB13	5/10/2018	5:30	0
WSVCB13	5/10/2018	5:35	0
WSVCB13	5/10/2018	5:40	0
WSVCB13	5/10/2018	5:45	0
WSVCB13	5/10/2018	5:50	0
WSVCB13	5/10/2018	5:55	0
WSVCB13	5/10/2018	6:00	0
WSVCB13	5/10/2018	6:05	0
WSVCB13	5/10/2018	6:10	0
WSVCB13	5/10/2018	6:15	0
WSVCB13	5/10/2018	6:20	0
WSVCB13	5/10/2018	6:25	0
WSVCB13	5/10/2018	6:30	0
WSVCB13	5/10/2018	6:35	0
WSVCB13	5/10/2018	6:40	0
WSVCB13	5/10/2018	6:45	0
WSVCB13	5/10/2018	6:50	0
WSVCB13	5/10/2018	6:55	0
WSVCB13	5/10/2018	7:00	0
WSVCB13	5/10/2018	7:05	0
WSVCB13	5/10/2018	7:10	0
WSVCB13	5/10/2018	7:15	0
WSVCB13	5/10/2018	7:20	0
WSVCB13	5/10/2018	7:25	0
WSVCB13	5/10/2018	7:30	0
WSVCB13	5/10/2018	7:35	0
WSVCB13	5/10/2018	7:40	0
WSVCB13	5/10/2018	7:45	0
;			
WSVCB14	5/10/2018	0:00	0.00
WSVCB14	5/10/2018	0:05	0.00
WSVCB14	5/10/2018	0:10	0.00
WSVCB14	5/10/2018	0:15	0.05
WSVCB14	5/10/2018	0:20	0.18
WSVCB14	5/10/2018	0:25	2.43
WSVCB14	5/10/2018	0:30	34.47
WSVCB14	5/10/2018	0:35	68.20
WSVCB14	5/10/2018	0:40	84.48
WSVCB14	5/10/2018	0:45	90.62
WSVCB14	5/10/2018	0:50	89.86
WSVCB14	5/10/2018	0:55	86.53
WSVCB14	5/10/2018	1:00	82.78
WSVCB14	5/10/2018	1:05	79.02
WSVCB14	5/10/2018	1:10	74.36
WSVCB14	5/10/2018	1:15	86.05
WSVCB14	5/10/2018	1:20	112.09
WSVCB14	5/10/2018	1:25	133.78
WSVCB14	5/10/2018	1:30	144.07
WSVCB14	5/10/2018	1:35	147.16
WSVCB14	5/10/2018	1:40	145.44
WSVCB14	5/10/2018	1:45	140.83
WSVCB14	5/10/2018	1:50	134.52
WSVCB14	5/10/2018	1:55	128.26
WSVCB14	5/10/2018	2:00	120.69
WSVCB14	5/10/2018	2:05	112.05
WSVCB14	5/10/2018	2:10	103.05
WSVCB14	5/10/2018	2:15	94.22

WSVCB SWMM calcs

WSVCB14	5/10/2018	2:20	86.53
WSVCB14	5/10/2018	2:25	79.55
WSVCB14	5/10/2018	2:30	73.09
WSVCB14	5/10/2018	2:35	66.87
WSVCB14	5/10/2018	2:40	60.84
WSVCB14	5/10/2018	2:45	54.92
WSVCB14	5/10/2018	2:50	49.14
WSVCB14	5/10/2018	2:55	44.10
WSVCB14	5/10/2018	3:00	39.45
WSVCB14	5/10/2018	3:05	35.07
WSVCB14	5/10/2018	3:10	31.78
WSVCB14	5/10/2018	3:15	29.18
WSVCB14	5/10/2018	3:20	26.95
WSVCB14	5/10/2018	3:25	25.00
WSVCB14	5/10/2018	3:30	23.28
WSVCB14	5/10/2018	3:35	21.68
WSVCB14	5/10/2018	3:40	20.19
WSVCB14	5/10/2018	3:45	18.82
WSVCB14	5/10/2018	3:50	17.46
WSVCB14	5/10/2018	3:55	16.13
WSVCB14	5/10/2018	4:00	14.80
WSVCB14	5/10/2018	4:05	13.47
WSVCB14	5/10/2018	4:10	12.15
WSVCB14	5/10/2018	4:15	10.83
WSVCB14	5/10/2018	4:20	9.51
WSVCB14	5/10/2018	4:25	8.20
WSVCB14	5/10/2018	4:30	6.88
WSVCB14	5/10/2018	4:35	5.57
WSVCB14	5/10/2018	4:40	4.27
WSVCB14	5/10/2018	4:45	2.98
WSVCB14	5/10/2018	4:50	1.95
WSVCB14	5/10/2018	4:55	1.32
WSVCB14	5/10/2018	5:00	0.90
WSVCB14	5/10/2018	5:05	0.59
WSVCB14	5/10/2018	5:10	0.38
WSVCB14	5/10/2018	5:15	0.22
WSVCB14	5/10/2018	5:20	0.12
WSVCB14	5/10/2018	5:25	0.07
WSVCB14	5/10/2018	5:30	0.05
WSVCB14	5/10/2018	5:35	0.04
WSVCB14	5/10/2018	5:40	0.03
WSVCB14	5/10/2018	5:45	0.02
WSVCB14	5/10/2018	5:50	0.02
WSVCB14	5/10/2018	5:55	0.01
WSVCB14	5/10/2018	6:00	0.01
WSVCB14	5/10/2018	6:05	0.00
WSVCB14	5/10/2018	6:10	0.00
WSVCB14	5/10/2018	6:15	0.00
WSVCB14	5/10/2018	6:20	0.00

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WSVCB2	5/10/2018	0:00	0
WSVCB2	5/10/2018	0:05	0
WSVCB2	5/10/2018	0:10	0.001777745
WSVCB2	5/10/2018	0:15	0.025550743
WSVCB2	5/10/2018	0:20	0.214269249
WSVCB2	5/10/2018	0:25	3.412869257
WSVCB2	5/10/2018	0:30	22.87806251
WSVCB2	5/10/2018	0:35	62.50677462
WSVCB2	5/10/2018	0:40	111.5708437
WSVCB2	5/10/2018	0:45	157.321394
WSVCB2	5/10/2018	0:50	194.0694825
WSVCB2	5/10/2018	0:55	219.1401194
WSVCB2	5/10/2018	1:00	234.9070924

			WSVCB SWMM calcs
WSVCB2	5/10/2018	1:05	244.8721686
WSVCB2	5/10/2018	1:10	249.497047
WSVCB2	5/10/2018	1:15	248.3624868
WSVCB2	5/10/2018	1:20	241.8001912
WSVCB2	5/10/2018	1:25	233.044019
WSVCB2	5/10/2018	1:30	244.1471932
WSVCB2	5/10/2018	1:35	309.5574625
WSVCB2	5/10/2018	1:40	361.7667507
WSVCB2	5/10/2018	1:45	376.6362475
WSVCB2	5/10/2018	1:50	369.3917303
WSVCB2	5/10/2018	1:55	352.2068671
WSVCB2	5/10/2018	2:00	332.0203991
WSVCB2	5/10/2018	2:05	312.9714552
WSVCB2	5/10/2018	2:10	297.1633414
WSVCB2	5/10/2018	2:15	277.6737093
WSVCB2	5/10/2018	2:20	256.3552476
WSVCB2	5/10/2018	2:25	233.839909
WSVCB2	5/10/2018	2:30	211.5829832
WSVCB2	5/10/2018	2:35	191.2782447
WSVCB2	5/10/2018	2:40	174.8463383
WSVCB2	5/10/2018	2:45	160.6683095
WSVCB2	5/10/2018	2:50	147.5825808
WSVCB2	5/10/2018	2:55	135.2524432
WSVCB2	5/10/2018	3:00	123.4441187
WSVCB2	5/10/2018	3:05	112.0059098
WSVCB2	5/10/2018	3:10	100.775849
WSVCB2	5/10/2018	3:15	90.70916624
WSVCB2	5/10/2018	3:20	81.72745731
WSVCB2	5/10/2018	3:25	73.43188462
WSVCB2	5/10/2018	3:30	65.82791908
WSVCB2	5/10/2018	3:35	59.66070741
WSVCB2	5/10/2018	3:40	54.94511573
WSVCB2	5/10/2018	3:45	51.06237612
WSVCB2	5/10/2018	3:50	47.7508111
WSVCB2	5/10/2018	3:55	44.83503526
WSVCB2	5/10/2018	4:00	42.19321267
WSVCB2	5/10/2018	4:05	39.77489386
WSVCB2	5/10/2018	4:10	37.56760685
WSVCB2	5/10/2018	4:15	35.4759421
WSVCB2	5/10/2018	4:20	33.43629296
WSVCB2	5/10/2018	4:25	31.42626195
WSVCB2	5/10/2018	4:30	29.42788247
WSVCB2	5/10/2018	4:35	27.44115868
WSVCB2	5/10/2018	4:40	25.46609301
WSVCB2	5/10/2018	4:45	23.50268686
WSVCB2	5/10/2018	4:50	21.54895268
WSVCB2	5/10/2018	4:55	19.60365541
WSVCB2	5/10/2018	5:00	17.66679532
WSVCB2	5/10/2018	5:05	15.73837255
WSVCB2	5/10/2018	5:10	13.81369994
WSVCB2	5/10/2018	5:15	11.88902732
WSVCB2	5/10/2018	5:20	9.964403289
WSVCB2	5/10/2018	5:25	8.040375798
WSVCB2	5/10/2018	5:30	6.120801794
WSVCB2	5/10/2018	5:35	4.283113564
WSVCB2	5/10/2018	5:40	2.882803002
WSVCB2	5/10/2018	5:45	1.998058524
WSVCB2	5/10/2018	5:50	1.38600685
WSVCB2	5/10/2018	5:55	0.937763996
WSVCB2	5/10/2018	6:00	0.610744384
WSVCB2	5/10/2018	6:05	0.373269475
WSVCB2	5/10/2018	6:10	0.212035912
WSVCB2	5/10/2018	6:15	0.127285317

Station	Date	Time	WSVCB SWMM calcs
WSVCB2	5/10/2018	6:20	0.087301581
WSVCB2	5/10/2018	6:25	0.064730793
WSVCB2	5/10/2018	6:30	0.051094896
WSVCB2	5/10/2018	6:35	0.039068525
WSVCB2	5/10/2018	6:40	0.028652702
WSVCB2	5/10/2018	6:45	0.019848024
WSVCB2	5/10/2018	6:50	0.012654838
WSVCB2	5/10/2018	6:55	0.007073347
WSVCB2	5/10/2018	7:00	0.00310367
WSVCB2	5/10/2018	7:05	0.000745874
WSVCB2	5/10/2018	7:10	0
WSVCB2	5/10/2018	7:15	0
WSVCB2	5/10/2018	7:20	0
WSVCB2	5/10/2018	7:25	0
;			
WSVCB3	5/10/2018	0:00	0
WSVCB3	5/10/2018	0:05	0
WSVCB3	5/10/2018	0:10	0.001673128
WSVCB3	5/10/2018	0:15	0.023743277
WSVCB3	5/10/2018	0:20	0.176985706
WSVCB3	5/10/2018	0:25	2.467026633
WSVCB3	5/10/2018	0:30	15.6462919
WSVCB3	5/10/2018	0:35	40.03339024
WSVCB3	5/10/2018	0:40	65.18811084
WSVCB3	5/10/2018	0:45	84.59996898
WSVCB3	5/10/2018	0:50	96.67112479
WSVCB3	5/10/2018	0:55	104.0220133
WSVCB3	5/10/2018	1:00	108.4504844
WSVCB3	5/10/2018	1:05	110.8863335
WSVCB3	5/10/2018	1:10	111.0067009
WSVCB3	5/10/2018	1:15	108.4251786
WSVCB3	5/10/2018	1:20	103.8148943
WSVCB3	5/10/2018	1:25	99.12570584
WSVCB3	5/10/2018	1:30	94.56577347
WSVCB3	5/10/2018	1:35	92.92844641
WSVCB3	5/10/2018	1:40	107.5754333
WSVCB3	5/10/2018	1:45	142.4223037
WSVCB3	5/10/2018	1:50	186.7700955
WSVCB3	5/10/2018	1:55	228.1474461
WSVCB3	5/10/2018	2:00	261.2881492
WSVCB3	5/10/2018	2:05	283.0818205
WSVCB3	5/10/2018	2:10	295.7391144
WSVCB3	5/10/2018	2:15	302.6902903
WSVCB3	5/10/2018	2:20	304.3802531
WSVCB3	5/10/2018	2:25	300.3811894
WSVCB3	5/10/2018	2:30	291.0284358
WSVCB3	5/10/2018	2:35	279.5463486
WSVCB3	5/10/2018	2:40	287.9415096
WSVCB3	5/10/2018	2:45	350.6602022
WSVCB3	5/10/2018	2:50	400.1829301
WSVCB3	5/10/2018	2:55	412.372983
WSVCB3	5/10/2018	3:00	402.4580378
WSVCB3	5/10/2018	3:05	382.7279448
WSVCB3	5/10/2018	3:10	360.5719912
WSVCB3	5/10/2018	3:15	339.927182
WSVCB3	5/10/2018	3:20	322.7202778
WSVCB3	5/10/2018	3:25	301.9680679
WSVCB3	5/10/2018	3:30	279.4892289
WSVCB3	5/10/2018	3:35	255.8868653
WSVCB3	5/10/2018	3:40	232.6133699
WSVCB3	5/10/2018	3:45	211.3626955
WSVCB3	5/10/2018	3:50	194.0076034
WSVCB3	5/10/2018	3:55	178.9227923

			WSVCB SWMM calcs
WSVCB3	5/10/2018	4:00	164.9337392
WSVCB3	5/10/2018	4:05	151.7020069
WSVCB3	5/10/2018	4:10	138.9938183
WSVCB3	5/10/2018	4:15	126.6574764
WSVCB3	5/10/2018	4:20	114.531014
WSVCB3	5/10/2018	4:25	103.5696612
WSVCB3	5/10/2018	4:30	93.69501391
WSVCB3	5/10/2018	4:35	84.50823461
WSVCB3	5/10/2018	4:40	76.01479423
WSVCB3	5/10/2018	4:45	68.95831171
WSVCB3	5/10/2018	4:50	63.35344918
WSVCB3	5/10/2018	4:55	58.58143872
WSVCB3	5/10/2018	5:00	54.38060287
WSVCB3	5/10/2018	5:05	50.57555617
WSVCB3	5/10/2018	5:10	47.04447801
WSVCB3	5/10/2018	5:15	43.7371192
WSVCB3	5/10/2018	5:20	40.64233188
WSVCB3	5/10/2018	5:25	37.68482004
WSVCB3	5/10/2018	5:30	34.91542419
WSVCB3	5/10/2018	5:35	32.45170887
WSVCB3	5/10/2018	5:40	30.14638764
WSVCB3	5/10/2018	5:45	27.93441612
WSVCB3	5/10/2018	5:50	25.79416061
WSVCB3	5/10/2018	5:55	23.71040921
WSVCB3	5/10/2018	6:00	21.67147098
WSVCB3	5/10/2018	6:05	19.67623623
WSVCB3	5/10/2018	6:10	17.71741778
WSVCB3	5/10/2018	6:15	15.7752213
WSVCB3	5/10/2018	6:20	13.84299335
WSVCB3	5/10/2018	6:25	11.91162983
WSVCB3	5/10/2018	6:30	9.981179937
WSVCB3	5/10/2018	6:35	8.052191993
WSVCB3	5/10/2018	6:40	6.128523155
WSVCB3	5/10/2018	6:45	4.28760583
WSVCB3	5/10/2018	6:50	2.884931985
WSVCB3	5/10/2018	6:55	1.998690077
WSVCB3	5/10/2018	7:00	1.38600685
WSVCB3	5/10/2018	7:05	0.937763996
WSVCB3	5/10/2018	7:10	0.610744384
WSVCB3	5/10/2018	7:15	0.373269475
WSVCB3	5/10/2018	7:20	0.212035912
WSVCB3	5/10/2018	7:25	0.127285317
WSVCB3	5/10/2018	7:30	0.087301581
WSVCB3	5/10/2018	7:35	0.064730793
WSVCB3	5/10/2018	7:40	0.051094896
WSVCB3	5/10/2018	7:45	0.039068525
WSVCB3	5/10/2018	7:50	0.028652702
WSVCB3	5/10/2018	7:55	0.019848024
WSVCB3	5/10/2018	8:00	0.012654838
WSVCB3	5/10/2018	8:05	0.007073347
WSVCB3	5/10/2018	8:10	0.00310367
WSVCB3	5/10/2018	8:15	0.000745874
WSVCB3	5/10/2018	8:20	0
WSVCB3	5/10/2018	8:25	0
WSVCB3	5/10/2018	8:30	0
WSVCB3	5/10/2018	8:35	0
WSVCB3	5/10/2018	8:40	0
WSVCB3	5/10/2018	8:45	0
WSVCB3	5/10/2018	8:50	0
WSVCB3	5/10/2018	8:55	0
WSVCB3	5/10/2018	9:00	0
WSVCB3	5/10/2018	9:05	0
WSVCB3	5/10/2018	9:10	0

			WSVCB SWMM calcs
WSVCB3	5/10/2018	9:15	0
WSVCB3	5/10/2018	9:20	0
WSVCB3	5/10/2018	9:25	0
WSVCB3	5/10/2018	9:30	0
WSVCB3	5/10/2018	9:35	0
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WSVCB7	5/10/2018	0:00	0
WSVCB7	5/10/2018	0:05	0.355518943
WSVCB7	5/10/2018	0:10	4.752910401
WSVCB7	5/10/2018	0:15	17.76947938
WSVCB7	5/10/2018	0:20	61.86230629
WSVCB7	5/10/2018	0:25	185.6878021
WSVCB7	5/10/2018	0:30	322.1854713
WSVCB7	5/10/2018	0:35	398.0169016
WSVCB7	5/10/2018	0:40	420.6389748
WSVCB7	5/10/2018	0:45	410.5597278
WSVCB7	5/10/2018	0:50	392.0910366
WSVCB7	5/10/2018	0:55	370.4511627
WSVCB7	5/10/2018	1:00	350.4197985
WSVCB7	5/10/2018	1:05	333.3082196
WSVCB7	5/10/2018	1:10	337.7089047
WSVCB7	5/10/2018	1:15	366.4382566
WSVCB7	5/10/2018	1:20	397.2546157
WSVCB7	5/10/2018	1:25	417.1889698
WSVCB7	5/10/2018	1:30	422.5458893
WSVCB7	5/10/2018	1:35	421.1888006
WSVCB7	5/10/2018	1:40	414.2735187
WSVCB7	5/10/2018	1:45	402.0607829
WSVCB7	5/10/2018	1:50	383.9014655
WSVCB7	5/10/2018	1:55	361.9475334
WSVCB7	5/10/2018	2:00	337.8761649
WSVCB7	5/10/2018	2:05	311.3247374
WSVCB7	5/10/2018	2:10	284.1067422
WSVCB7	5/10/2018	2:15	256.8377122
WSVCB7	5/10/2018	2:20	230.6506803
WSVCB7	5/10/2018	2:25	207.4540157
WSVCB7	5/10/2018	2:30	187.6983342
WSVCB7	5/10/2018	2:35	171.9108663
WSVCB7	5/10/2018	2:40	158.3004854
WSVCB7	5/10/2018	2:45	146.0041764
WSVCB7	5/10/2018	2:50	134.5914495
WSVCB7	5/10/2018	2:55	123.931704
WSVCB7	5/10/2018	3:00	113.962685
WSVCB7	5/10/2018	3:05	104.5197373
WSVCB7	5/10/2018	3:10	95.47620625
WSVCB7	5/10/2018	3:15	86.72922432
WSVCB7	5/10/2018	3:20	79.0438897
WSVCB7	5/10/2018	3:25	73.09117588
WSVCB7	5/10/2018	3:30	68.08650726
WSVCB7	5/10/2018	3:35	63.63705072
WSVCB7	5/10/2018	3:40	59.6107417
WSVCB7	5/10/2018	3:45	55.91361276
WSVCB7	5/10/2018	3:50	52.49012894
WSVCB7	5/10/2018	3:55	49.34105431
WSVCB7	5/10/2018	4:00	46.40519965
WSVCB7	5/10/2018	4:05	43.55765901
WSVCB7	5/10/2018	4:10	40.74581415
WSVCB7	5/10/2018	4:15	37.93909213
WSVCB7	5/10/2018	4:20	35.13749653
WSVCB7	5/10/2018	4:25	32.34102943
WSVCB7	5/10/2018	4:30	29.54969207
WSVCB7	5/10/2018	4:35	26.76348515
WSVCB7	5/10/2018	4:40	23.98240908

WSVCB SWMM calcs

WSVCB7	5/10/2018	4:45	21.2064641
WSVCB7	5/10/2018	4:50	18.43565036
WSVCB7	5/10/2018	4:55	15.66828405
WSVCB7	5/10/2018	5:00	12.90117694
WSVCB7	5/10/2018	5:05	10.13648551
WSVCB7	5/10/2018	5:10	7.395702398
WSVCB7	5/10/2018	5:15	4.915244217
WSVCB7	5/10/2018	5:20	3.392545813
WSVCB7	5/10/2018	5:25	2.380138811
WSVCB7	5/10/2018	5:30	1.637952381
WSVCB7	5/10/2018	5:35	1.093336456
WSVCB7	5/10/2018	5:40	0.697163632
WSVCB7	5/10/2018	5:45	0.410305564
WSVCB7	5/10/2018	5:50	0.233193682
WSVCB7	5/10/2018	5:55	0.160968578
WSVCB7	5/10/2018	6:00	0.114039409
WSVCB7	5/10/2018	6:05	0.09111407
WSVCB7	5/10/2018	6:10	0.070749588
WSVCB7	5/10/2018	6:15	0.05294799
WSVCB7	5/10/2018	6:20	0.037710457
WSVCB7	5/10/2018	6:25	0.025037678
WSVCB7	5/10/2018	6:30	0.014930054
WSVCB7	5/10/2018	6:35	0.007387818
WSVCB7	5/10/2018	6:40	0.002411107
WSVCB7	5/10/2018	6:45	0
WSVCB7	5/10/2018	6:50	0
WSVCB7	5/10/2018	6:55	0
WSVCB7	5/10/2018	7:00	0
WSVCB7	5/10/2018	7:05	0
WSVCB7	5/10/2018	7:10	0
WSVCB7	5/10/2018	7:15	0
WSVCB7	5/10/2018	7:20	0
WSVCB7	5/10/2018	7:25	0
WSVCB7	5/10/2018	7:30	0
WSVCB7	5/10/2018	7:35	0
WSVCB7	5/10/2018	7:40	0
WSVCB7	5/10/2018	7:45	0
WSVCB7	5/10/2018	7:50	0
WSVCB7	5/10/2018	7:55	0
WSVCB7	5/10/2018	8:00	0
WSVCB7	5/10/2018	8:05	0
WSVCB7	5/10/2018	8:10	0
WSVCB7	5/10/2018	8:15	0
WSVCB7	5/10/2018	8:20	0
WSVCB7	5/10/2018	8:25	0
WSVCB7	5/10/2018	8:30	0
WSVCB7	5/10/2018	8:35	0
WSVCB7	5/10/2018	8:40	0
WSVCB7	5/10/2018	8:45	0
WSVCB7	5/10/2018	8:50	0
WSVCB7	5/10/2018	8:55	0
WSVCB7	5/10/2018	9:00	0
WSVCB7	5/10/2018	9:05	0
WSVCB7	5/10/2018	9:10	0
WSVCB7	5/10/2018	9:15	0
WSVCB7	5/10/2018	9:20	0
WSVCB7	5/10/2018	9:25	0
WSVCB7	5/10/2018	9:30	0
WSVCB7	5/10/2018	9:35	0
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WSVCB8	5/10/2018	0:00	0
WSVCB8	5/10/2018	0:05	0
WSVCB8	5/10/2018	0:10	0.004602868

			WSVCB SWMM calcs
WSVCB8	5/10/2018	0:15	0.059278149
WSVCB8	5/10/2018	0:20	0.480384473
WSVCB8	5/10/2018	0:25	8.82387207
WSVCB8	5/10/2018	0:30	51.44856406
WSVCB8	5/10/2018	0:35	89.60768049
WSVCB8	5/10/2018	0:40	106.7863993
WSVCB8	5/10/2018	0:45	111.5582307
WSVCB8	5/10/2018	0:50	109.326108
WSVCB8	5/10/2018	0:55	109.1060171
WSVCB8	5/10/2018	1:00	116.85688
WSVCB8	5/10/2018	1:05	155.9723969
WSVCB8	5/10/2018	1:10	273.6160606
WSVCB8	5/10/2018	1:15	411.3513634
WSVCB8	5/10/2018	1:20	495.869361
WSVCB8	5/10/2018	1:25	525.7773768
WSVCB8	5/10/2018	1:30	517.7516817
WSVCB8	5/10/2018	1:35	497.6473127
WSVCB8	5/10/2018	1:40	473.611071
WSVCB8	5/10/2018	1:45	450.8492193
WSVCB8	5/10/2018	1:50	430.5250074
WSVCB8	5/10/2018	1:55	430.5700855
WSVCB8	5/10/2018	2:00	453.4929932
WSVCB8	5/10/2018	2:05	478.856459
WSVCB8	5/10/2018	2:10	494.2141611
WSVCB8	5/10/2018	2:15	500.4556515
WSVCB8	5/10/2018	2:20	522.5098004
WSVCB8	5/10/2018	2:25	546.6931297
WSVCB8	5/10/2018	2:30	559.8950397
WSVCB8	5/10/2018	2:35	558.5196233
WSVCB8	5/10/2018	2:40	544.5090443
WSVCB8	5/10/2018	2:45	523.1862348
WSVCB8	5/10/2018	2:50	497.098708
WSVCB8	5/10/2018	2:55	468.7344717
WSVCB8	5/10/2018	3:00	436.9519082
WSVCB8	5/10/2018	3:05	403.3884094
WSVCB8	5/10/2018	3:10	371.0548703
WSVCB8	5/10/2018	3:15	342.3231563
WSVCB8	5/10/2018	3:20	317.9388364
WSVCB8	5/10/2018	3:25	298.8315666
WSVCB8	5/10/2018	3:30	297.4184631
WSVCB8	5/10/2018	3:35	317.1637268
WSVCB8	5/10/2018	3:40	347.3158527
WSVCB8	5/10/2018	3:45	375.7192573
WSVCB8	5/10/2018	3:50	396.9322469
WSVCB8	5/10/2018	3:55	407.4986422
WSVCB8	5/10/2018	4:00	409.4343884
WSVCB8	5/10/2018	4:05	406.8967763
WSVCB8	5/10/2018	4:10	400.9632374
WSVCB8	5/10/2018	4:15	390.4064686
WSVCB8	5/10/2018	4:20	375.1572684
WSVCB8	5/10/2018	4:25	358.2667949
WSVCB8	5/10/2018	4:30	361.6261674
WSVCB8	5/10/2018	4:35	419.6026788
WSVCB8	5/10/2018	4:40	464.6728397
WSVCB8	5/10/2018	4:45	472.6294498
WSVCB8	5/10/2018	4:50	458.5752447
WSVCB8	5/10/2018	4:55	434.7474575
WSVCB8	5/10/2018	5:00	408.5087042
WSVCB8	5/10/2018	5:05	383.8038887
WSVCB8	5/10/2018	5:10	362.592153
WSVCB8	5/10/2018	5:15	338.0101377
WSVCB8	5/10/2018	5:20	311.8746819
WSVCB8	5/10/2018	5:25	284.7098726

			WSVCB SWMM calcs
WSVCB8	5/10/2018	5:30	257.9329867
WSVCB8	5/10/2018	5:35	233.2243569
WSVCB8	5/10/2018	5:40	212.4448756
WSVCB8	5/10/2018	5:45	193.9628184
WSVCB8	5/10/2018	5:50	176.6106101
WSVCB8	5/10/2018	5:55	160.1272417
WSVCB8	5/10/2018	6:00	144.6219301
WSVCB8	5/10/2018	6:05	130.5488936
WSVCB8	5/10/2018	6:10	117.2525344
WSVCB8	5/10/2018	6:15	105.4331664
WSVCB8	5/10/2018	6:20	94.92926149
WSVCB8	5/10/2018	6:25	85.28627799
WSVCB8	5/10/2018	6:30	76.47065945
WSVCB8	5/10/2018	6:35	69.22117216
WSVCB8	5/10/2018	6:40	63.53415349
WSVCB8	5/10/2018	6:45	58.71039785
WSVCB8	5/10/2018	6:50	54.48322441
WSVCB8	5/10/2018	6:55	50.6548427
WSVCB8	5/10/2018	7:00	47.10343442
WSVCB8	5/10/2018	7:05	43.77875174
WSVCB8	5/10/2018	7:10	40.66964758
WSVCB8	5/10/2018	7:15	37.7008264
WSVCB8	5/10/2018	7:20	34.92312897
WSVCB8	5/10/2018	7:25	32.45411998
WSVCB8	5/10/2018	7:30	30.14638764
WSVCB8	5/10/2018	7:35	27.93441612
WSVCB8	5/10/2018	7:40	25.79416061
WSVCB8	5/10/2018	7:45	23.71040921
WSVCB8	5/10/2018	7:50	21.67147098
WSVCB8	5/10/2018	7:55	19.67623623
WSVCB8	5/10/2018	8:00	17.71741778
WSVCB8	5/10/2018	8:05	15.7752213
WSVCB8	5/10/2018	8:10	13.84299335
WSVCB8	5/10/2018	8:15	11.91162983
WSVCB8	5/10/2018	8:20	9.981179937
WSVCB8	5/10/2018	8:25	8.052191993
WSVCB8	5/10/2018	8:30	6.128523155
WSVCB8	5/10/2018	8:35	4.28760583
WSVCB8	5/10/2018	8:40	2.884931985
WSVCB8	5/10/2018	8:45	1.998690077
WSVCB8	5/10/2018	8:50	1.38600685
WSVCB8	5/10/2018	8:55	0.937763996
WSVCB8	5/10/2018	9:00	0.610744384
WSVCB8	5/10/2018	9:05	0.373269475
WSVCB8	5/10/2018	9:10	0.212035912
WSVCB8	5/10/2018	9:15	0.127285317
WSVCB8	5/10/2018	9:20	0.087301581
WSVCB8	5/10/2018	9:25	0.064730793
WSVCB8	5/10/2018	9:30	0.051094896
WSVCB8	5/10/2018	9:35	0.039068525
WSVCB8	5/10/2018	9:40	0.028652702
WSVCB8	5/10/2018	9:45	0.019848024
WSVCB8	5/10/2018	9:50	0.012654838
WSVCB8	5/10/2018	9:55	0.007073347
WSVCB8	5/10/2018	10:00	0.00310367
WSVCB8	5/10/2018	10:05	0.000745874
WSVCB8	5/10/2018	10:10	0
WSVCB8	5/10/2018	10:15	0
WSVCB8	5/10/2018	10:20	0
WSVCB8	5/10/2018	10:25	0
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WSVCB9	5/10/2018	0:00	0
WSVCB9	5/10/2018	0:05	0

			WSVCB SWMM calcs
WSVCB9	5/10/2018	0:10	0.001117166
WSVCB9	5/10/2018	0:15	0.015680515
WSVCB9	5/10/2018	0:20	0.107668122
WSVCB9	5/10/2018	0:25	1.373850587
WSVCB9	5/10/2018	0:30	8.351263806
WSVCB9	5/10/2018	0:35	20.37496109
WSVCB9	5/10/2018	0:40	31.43398836
WSVCB9	5/10/2018	0:45	38.8304525
WSVCB9	5/10/2018	0:50	43.28977516
WSVCB9	5/10/2018	0:55	46.14355986
WSVCB9	5/10/2018	1:00	48.00072672
WSVCB9	5/10/2018	1:05	49.25069405
WSVCB9	5/10/2018	1:10	49.653024
WSVCB9	5/10/2018	1:15	48.9813038
WSVCB9	5/10/2018	1:20	47.39042614
WSVCB9	5/10/2018	1:25	45.29786691
WSVCB9	5/10/2018	1:30	43.45907907
WSVCB9	5/10/2018	1:35	43.71771823
WSVCB9	5/10/2018	1:40	75.66955767
WSVCB9	5/10/2018	1:45	106.2881983
WSVCB9	5/10/2018	1:50	119.4789548
WSVCB9	5/10/2018	1:55	122.418381
WSVCB9	5/10/2018	2:00	119.137677
WSVCB9	5/10/2018	2:05	118.2848703
WSVCB9	5/10/2018	2:10	125.6839566
WSVCB9	5/10/2018	2:15	164.3829079
WSVCB9	5/10/2018	2:20	281.9778341
WSVCB9	5/10/2018	2:25	419.8713625
WSVCB9	5/10/2018	2:30	505.0330124
WSVCB9	5/10/2018	2:35	535.7941053
WSVCB9	5/10/2018	2:40	528.5754045
WSVCB9	5/10/2018	2:45	509.040249
WSVCB9	5/10/2018	2:50	485.2217582
WSVCB9	5/10/2018	2:55	462.4608391
WSVCB9	5/10/2018	3:00	442.0170702
WSVCB9	5/10/2018	3:05	441.8524683
WSVCB9	5/10/2018	3:10	464.5102162
WSVCB9	5/10/2018	3:15	489.5976038
WSVCB9	5/10/2018	3:20	504.6534761
WSVCB9	5/10/2018	3:25	510.5530666
WSVCB9	5/10/2018	3:30	532.2829831
WSVCB9	5/10/2018	3:35	556.327381
WSVCB9	5/10/2018	3:40	569.519938
WSVCB9	5/10/2018	3:45	568.1961701
WSVCB9	5/10/2018	3:50	554.1401884
WSVCB9	5/10/2018	3:55	532.6706115
WSVCB9	5/10/2018	4:00	506.3859811
WSVCB9	5/10/2018	4:05	477.8054418
WSVCB9	5/10/2018	4:10	445.7971566
WSVCB9	5/10/2018	4:15	411.9875426
WSVCB9	5/10/2018	4:20	379.3904221
WSVCB9	5/10/2018	4:25	350.3739678
WSVCB9	5/10/2018	4:30	325.6838736
WSVCB9	5/10/2018	4:35	306.2605448
WSVCB9	5/10/2018	4:40	304.5211372
WSVCB9	5/10/2018	4:45	323.9400658
WSVCB9	5/10/2018	4:50	353.765815
WSVCB9	5/10/2018	4:55	381.8428013
WSVCB9	5/10/2018	5:00	402.7293311
WSVCB9	5/10/2018	5:05	412.969225
WSVCB9	5/10/2018	5:10	414.5778029
WSVCB9	5/10/2018	5:15	411.7122695
WSVCB9	5/10/2018	5:20	405.4500563

			WSVCB SWMM calcs
WSVCB9	5/10/2018	5:25	394.5638706
WSVCB9	5/10/2018	5:30	378.9852549
WSVCB9	5/10/2018	5:35	361.7653658
WSVCB9	5/10/2018	5:40	364.7953228
WSVCB9	5/10/2018	5:45	422.4424186
WSVCB9	5/10/2018	5:50	467.183164
WSVCB9	5/10/2018	5:55	474.8103585
WSVCB9	5/10/2018	6:00	460.4267407
WSVCB9	5/10/2018	6:05	436.2695972
WSVCB9	5/10/2018	6:10	409.7019325
WSVCB9	5/10/2018	6:15	384.6726362
WSVCB9	5/10/2018	6:20	363.1729643
WSVCB9	5/10/2018	6:25	338.4132622
WSVCB9	5/10/2018	6:30	312.1588651
WSVCB9	5/10/2018	6:35	284.9066379
WSVCB9	5/10/2018	6:40	258.0654334
WSVCB9	5/10/2018	6:45	233.3098327
WSVCB9	5/10/2018	6:50	212.4963765
WSVCB9	5/10/2018	6:55	193.9933893
WSVCB9	5/10/2018	7:00	176.6321793
WSVCB9	5/10/2018	7:05	160.1428815
WSVCB9	5/10/2018	7:10	144.6344102
WSVCB9	5/10/2018	7:15	130.5585691
WSVCB9	5/10/2018	7:20	117.2597607
WSVCB9	5/10/2018	7:25	105.4382992
WSVCB9	5/10/2018	7:30	94.93265626
WSVCB9	5/10/2018	7:35	85.28829047
WSVCB9	5/10/2018	7:40	76.47164536
WSVCB9	5/10/2018	7:45	69.22148724
WSVCB9	5/10/2018	7:50	63.53415349
WSVCB9	5/10/2018	7:55	58.71039785
WSVCB9	5/10/2018	8:00	54.48322441
WSVCB9	5/10/2018	8:05	50.6548427
WSVCB9	5/10/2018	8:10	47.10343442
WSVCB9	5/10/2018	8:15	43.77875174
WSVCB9	5/10/2018	8:20	40.66964758
WSVCB9	5/10/2018	8:25	37.7008264
WSVCB9	5/10/2018	8:30	34.92312897
WSVCB9	5/10/2018	8:35	32.45411998
WSVCB9	5/10/2018	8:40	30.14638764
WSVCB9	5/10/2018	8:45	27.93441612
WSVCB9	5/10/2018	8:50	25.79416061
WSVCB9	5/10/2018	8:55	23.71040921
WSVCB9	5/10/2018	9:00	21.67147098
WSVCB9	5/10/2018	9:05	19.67623623
WSVCB9	5/10/2018	9:10	17.71741778
WSVCB9	5/10/2018	9:15	15.7752213
WSVCB9	5/10/2018	9:20	13.84299335
WSVCB9	5/10/2018	9:25	11.91162983
WSVCB9	5/10/2018	9:30	9.981179937
WSVCB9	5/10/2018	9:35	8.052191993
WSVCB9	5/10/2018	9:40	6.128523155
WSVCB9	5/10/2018	9:45	4.28760583
WSVCB9	5/10/2018	9:50	2.884931985
WSVCB9	5/10/2018	9:55	1.998690077
WSVCB9	5/10/2018	10:00	1.38600685
WSVCB9	5/10/2018	10:05	0.937763996
WSVCB9	5/10/2018	10:10	0.610744384
WSVCB9	5/10/2018	10:15	0.373269475
WSVCB9	5/10/2018	10:20	0.212035912
WSVCB9	5/10/2018	10:25	0.127285317
WSVCB9	5/10/2018	10:30	0.087301581
WSVCB9	5/10/2018	10:35	0.064730793

			WSVCB SWMM calcs
WSVCB9	5/10/2018	10:40	0.051094896
WSVCB9	5/10/2018	10:45	0.039068525
WSVCB9	5/10/2018	10:50	0.028652702
WSVCB9	5/10/2018	10:55	0.019848024
WSVCB9	5/10/2018	11:00	0.012654838
WSVCB9	5/10/2018	11:05	0.007073347
WSVCB9	5/10/2018	11:10	0.00310367
WSVCB9	5/10/2018	11:15	0.000745874
WSVCB9	5/10/2018	11:20	0
WSVCB9	5/10/2018	11:25	0
WSVCB9	5/10/2018	11:30	0
WSVCB9	5/10/2018	11:35	0
WSVCB9	5/10/2018	11:40	0
;			
WSVCB11	5/10/2018	0:00	0
WSVCB11	5/10/2018	0:05	0
WSVCB11	5/10/2018	0:10	0.006451879
WSVCB11	5/10/2018	0:15	0.09049458
WSVCB11	5/10/2018	0:20	0.587909869
WSVCB11	5/10/2018	0:25	6.948538286
WSVCB11	5/10/2018	0:30	41.19538382
WSVCB11	5/10/2018	0:35	99.92240311
WSVCB11	5/10/2018	0:40	154.547818
WSVCB11	5/10/2018	0:45	191.398062
WSVCB11	5/10/2018	0:50	212.3651652
WSVCB11	5/10/2018	0:55	223.1233928
WSVCB11	5/10/2018	1:00	226.2489841
WSVCB11	5/10/2018	1:05	223.7772006
WSVCB11	5/10/2018	1:10	216.9444462
WSVCB11	5/10/2018	1:15	208.5214321
WSVCB11	5/10/2018	1:20	198.4407659
WSVCB11	5/10/2018	1:25	189.8724652
WSVCB11	5/10/2018	1:30	193.3690648
WSVCB11	5/10/2018	1:35	204.9590323
WSVCB11	5/10/2018	1:40	213.4472531
WSVCB11	5/10/2018	1:45	215.8563579
WSVCB11	5/10/2018	1:50	214.4172661
WSVCB11	5/10/2018	1:55	210.6409776
WSVCB11	5/10/2018	2:00	205.4269515
WSVCB11	5/10/2018	2:05	199.256078
WSVCB11	5/10/2018	2:10	191.3203134
WSVCB11	5/10/2018	2:15	181.4927468
WSVCB11	5/10/2018	2:20	170.5908367
WSVCB11	5/10/2018	2:25	159.2394947
WSVCB11	5/10/2018	2:30	148.7194209
WSVCB11	5/10/2018	2:35	141.9804945
WSVCB11	5/10/2018	2:40	167.8501206
WSVCB11	5/10/2018	2:45	192.8987505
WSVCB11	5/10/2018	2:50	200.9392703
WSVCB11	5/10/2018	2:55	199.1891619
WSVCB11	5/10/2018	3:00	191.6169618
WSVCB11	5/10/2018	3:05	186.7165403
WSVCB11	5/10/2018	3:10	190.235335
WSVCB11	5/10/2018	3:15	225.12082
WSVCB11	5/10/2018	3:20	338.9730016
WSVCB11	5/10/2018	3:25	473.1548982
WSVCB11	5/10/2018	3:30	554.637595
WSVCB11	5/10/2018	3:35	581.7440742
WSVCB11	5/10/2018	3:40	570.8863639
WSVCB11	5/10/2018	3:45	547.7263717
WSVCB11	5/10/2018	3:50	520.2958817
WSVCB11	5/10/2018	3:55	493.9344956
WSVCB11	5/10/2018	4:00	469.9080473

WSVCB SWMM calcs

WSVCB11	5/10/2018	4:05	466.2145501
WSVCB11	5/10/2018	4:10	485.516323
WSVCB11	5/10/2018	4:15	507.4758964
WSVCB11	5/10/2018	4:20	519.866643
WSVCB11	5/10/2018	4:25	523.9432021
WSVCB11	5/10/2018	4:30	544.3103457
WSVCB11	5/10/2018	4:35	567.2545509
WSVCB11	5/10/2018	4:40	579.5445471
WSVCB11	5/10/2018	4:45	577.4730996
WSVCB11	5/10/2018	4:50	562.7844058
WSVCB11	5/10/2018	4:55	540.7897125
WSVCB11	5/10/2018	5:00	514.0655061
WSVCB11	5/10/2018	5:05	485.071304
WSVCB11	5/10/2018	5:10	452.6701877
WSVCB11	5/10/2018	5:15	418.4728299
WSVCB11	5/10/2018	5:20	385.4930551
WSVCB11	5/10/2018	5:25	356.0990376
WSVCB11	5/10/2018	5:30	331.0364718
WSVCB11	5/10/2018	5:35	311.2457635
WSVCB11	5/10/2018	5:40	309.144069
WSVCB11	5/10/2018	5:45	328.2045093
WSVCB11	5/10/2018	5:50	357.6747222
WSVCB11	5/10/2018	5:55	385.3983974
WSVCB11	5/10/2018	6:00	405.9316161
WSVCB11	5/10/2018	6:05	415.818199
WSVCB11	5/10/2018	6:10	417.0734659
WSVCB11	5/10/2018	6:15	413.8546214
WSVCB11	5/10/2018	6:20	407.2392468
WSVCB11	5/10/2018	6:25	396.001638
WSVCB11	5/10/2018	6:30	380.0774508
WSVCB11	5/10/2018	6:35	362.5409189
WSVCB11	5/10/2018	6:40	365.3554997
WSVCB11	5/10/2018	6:45	422.8579663
WSVCB11	5/10/2018	6:50	467.4917776
WSVCB11	5/10/2018	6:55	475.0377148
WSVCB11	5/10/2018	7:00	460.5922938
WSVCB11	5/10/2018	7:05	436.3878269
WSVCB11	5/10/2018	7:10	409.7865442
WSVCB11	5/10/2018	7:15	384.7373635
WSVCB11	5/10/2018	7:20	363.2234173
WSVCB11	5/10/2018	7:25	338.4534149
WSVCB11	5/10/2018	7:30	312.1902758
WSVCB11	5/10/2018	7:35	284.9303763
WSVCB11	5/10/2018	7:40	258.0825697
WSVCB11	5/10/2018	7:45	233.321437
WSVCB11	5/10/2018	7:50	212.5035191
WSVCB11	5/10/2018	7:55	193.9971406
WSVCB11	5/10/2018	8:00	176.6336097
WSVCB11	5/10/2018	8:05	160.1430615
WSVCB11	5/10/2018	8:10	144.6344102
WSVCB11	5/10/2018	8:15	130.5585691
WSVCB11	5/10/2018	8:20	117.2597607
WSVCB11	5/10/2018	8:25	105.4382992
WSVCB11	5/10/2018	8:30	94.93265626
WSVCB11	5/10/2018	8:35	85.28829047
WSVCB11	5/10/2018	8:40	76.47164536
WSVCB11	5/10/2018	8:45	69.22148724
WSVCB11	5/10/2018	8:50	63.53415349
WSVCB11	5/10/2018	8:55	58.71039785
WSVCB11	5/10/2018	9:00	54.48322441
WSVCB11	5/10/2018	9:05	50.6548427
WSVCB11	5/10/2018	9:10	47.10343442
WSVCB11	5/10/2018	9:15	43.77875174

WSVCB SWMM calcs

WSVCB11	5/10/2018	9:20	40.66964758
WSVCB11	5/10/2018	9:25	37.7008264
WSVCB11	5/10/2018	9:30	34.92312897
WSVCB11	5/10/2018	9:35	32.45411998
WSVCB11	5/10/2018	9:40	30.14638764
WSVCB11	5/10/2018	9:45	27.93441612
WSVCB11	5/10/2018	9:50	25.79416061
WSVCB11	5/10/2018	9:55	23.71040921
WSVCB11	5/10/2018	10:00	21.67147098
WSVCB11	5/10/2018	10:05	19.67623623
WSVCB11	5/10/2018	10:10	17.71741778
WSVCB11	5/10/2018	10:15	15.7752213
WSVCB11	5/10/2018	10:20	13.84299335
WSVCB11	5/10/2018	10:25	11.91162983
WSVCB11	5/10/2018	10:30	9.981179937
WSVCB11	5/10/2018	10:35	8.052191993
WSVCB11	5/10/2018	10:40	6.128523155
WSVCB11	5/10/2018	10:45	4.28760583
WSVCB11	5/10/2018	10:50	2.884931985
WSVCB11	5/10/2018	10:55	1.998690077
WSVCB11	5/10/2018	11:00	1.38600685
WSVCB11	5/10/2018	11:05	0.937763996
WSVCB11	5/10/2018	11:10	0.610744384
WSVCB11	5/10/2018	11:15	0.373269475
WSVCB11	5/10/2018	11:20	0.212035912
WSVCB11	5/10/2018	11:25	0.127285317
WSVCB11	5/10/2018	11:30	0.087301581
WSVCB11	5/10/2018	11:35	0.064730793
WSVCB11	5/10/2018	11:40	0.051094896

[REPORT]

;;Reporting Options

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
WSVCB2	-911.188	7289.504
WSVCB9	2795.699	2949.309
WSVCB10_1	-1520.737	2565.284
WSVCB3_0	880.322	8193.326
WSVCB5_0	-1323.529	4989.496
WSVCB10_0	-834.267	2463.606
WSVCB2_0	-346.021	7185.698
WSVCB6_0	-1822.222	3807.407
WSVCB8_0	4725.926	7511.111
WSVCB9_0	4377.880	2150.538
WSVCB11_0	-1505.376	875.576
WSVCB1	-2203.682	8342.923
WSVCB4	-2767.549	6915.995
WSVCB3	325.630	8308.824
WSVCB5	-2531.513	5084.034
WSVCB6	-2594.538	3834.034

		WSVCB SWMM calcs
WSVCB10	-2446.809	2486.002
WSVCB13	8556.068	5837.174
WSVCB7	3010.753	5698.925
WSVCB8	3585.185	7614.815
WSVCB11	-2949.309	1397.849

[VERTICES]

;;Link	X-Coord	Y-Coord
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WSVCB SWMM calcs

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

 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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
 Flow Routing Method DYNWAVE
 Starting Date 05/10/2018 00:00:00
 Ending Date 05/10/2018 10:00:00
 Antecedent Dry Days 0.0
 Report Time Step 00:00:05
 Routing Time Step 5.00 sec
 Variable Time Step YES
 Maximum Trials 8
 Number of Threads 1
 Head Tolerance 0.005000 ft

*****	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	969.653	315.976
External Outflow	649.166	211.541
Flooding Loss	222.747	72.586
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored volume	97.843	31.883
Continuity Error (%)	-0.011	

 Time-Step Critical Elements

Link WSVCB11 (53.23%)
 Link WSVCB3 (23.37%)
 Link WSVCB10_1 (11.08%)
 Link WSVCB6 (10.14%)

 Highest Flow Instability Indexes

WSVCB SWMM calcs

Link WSVCB10_1 (6)
 Link WSVCB10_2 (3)
 Link WSVCB6 (3)
 Link WSVCB3 (2)

Routing Time Step Summary

Minimum Time Step : 1.64 sec
 Average Time Step : 2.37 sec
 Maximum Time Step : 5.00 sec
 Percent in Steady State : -0.00
 Average Iterations per Step : 2.00
 Percent Not Converging : 0.00

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
WSVCB2	JUNCTION	1.30	2.00	5037.71	0 00:21	2.00
WSVCB9	JUNCTION	1.81	3.13	5004.13	0 03:45	3.13
WSVCB10_1	JUNCTION	0.48	1.05	4945.62	0 00:29	1.05
WSVCB3_0	OUTFALL	2.06	3.33	4972.33	0 02:08	3.33
WSVCB5_0	OUTFALL	0.54	1.90	4927.90	0 01:30	1.90
WSVCB10_0	OUTFALL	0.48	1.05	4943.20	0 00:29	1.05
WSVCB2_0	OUTFALL	0.25	0.38	5035.75	0 00:21	0.38
WSVCB6_0	OUTFALL	1.94	2.00	4987.23	0 01:06	2.00
WSVCB8_0	OUTFALL	2.91	4.00	4904.50	0 01:09	4.00
WSVCB9_0	OUTFALL	1.81	3.13	4956.13	0 03:45	3.13
WSVCB11_0	OUTFALL	3.33	5.15	4953.65	0 04:46	5.15
WSVCB1	STORAGE	0.97	1.00	83.00	0 00:45	1.00
WSVCB4	STORAGE	2.89	3.00	3.00	0 00:50	3.00
WSVCB3	STORAGE	3.95	8.00	4978.00	0 02:24	8.00
WSVCB5	STORAGE	1.09	5.55	4943.55	0 01:30	5.55
WSVCB6	STORAGE	4.26	5.12	4991.05	0 03:18	5.12
WSVCB10	STORAGE	0.83	2.00	4947.00	0 00:29	2.00
WSVCB13	STORAGE	3.80	4.00	81.00	0 01:07	4.00
WSVCB7	STORAGE	3.55	4.10	4951.10	0 06:45	4.10
WSVCB8	STORAGE	5.92	10.00	4911.00	0 01:20	10.00
WSVCB11	STORAGE	4.15	6.05	4954.05	0 04:45	6.05

Node Inflow Summary

Total Inflow Volume	Flow Balance Error	Maximum Lateral Inflow	Maximum Total Inflow	Time of Max Occurrence	Lateral Inflow Volume
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Node gal	Percent	Type	WSVCB CFS	SWMM CFS	calcs CFS	days	hr:min	10^6 gal	10^6
WSVCB2		JUNCTION	376.61	376.61		0	01:45	18.7	
18.7	0.001								
WSVCB9		JUNCTION	569.52	569.52		0	03:40	59.8	
59.8	0.058								
WSVCB10_1		JUNCTION	0.00	15.17		0	00:30	0	
1.5	-0.000								
WSVCB3_0		OUTFALL	0.00	141.72		0	02:52	0	
17.8	0.000								
WSVCB5_0		OUTFALL	0.00	30.87		0	01:30	0	
1.98	0.000								
WSVCB10_0		OUTFALL	0.00	15.19		0	00:29	0	
1.5	0.000								
WSVCB2_0		OUTFALL	0.00	1.03		0	00:21	0	
0.159	0.000								
WSVCB6_0		OUTFALL	0.00	44.21		0	03:19	0	
10	0.000								
WSVCB8_0		OUTFALL	0.00	349.18		0	01:55	0	
48.5	0.000								
WSVCB9_0		OUTFALL	0.00	567.87		0	03:45	0	
59.8	0.000								
WSVCB11_0		OUTFALL	0.00	574.91		0	04:46	0	
71.8	0.000								
WSVCB1		STORAGE	192.86	192.86		0	00:40	5.34	
5.34	0.005								
WSVCB4		STORAGE	428.22	428.22		0	04:00	30.8	
30.8	0.002								
WSVCB3		STORAGE	412.36	412.36		0	02:55	24.6	
24.6	-0.010								
WSVCB5		STORAGE	52.67	52.67		0	00:45	1.98	
1.98	0.005								
WSVCB6		STORAGE	271.51	271.51		0	01:00	12.3	
12.3	0.012								
WSVCB10		STORAGE	44.13	44.13		0	01:00	2.49	
2.49	0.000								
WSVCB13		STORAGE	139.17	139.17		0	00:50	5.74	
5.74	-0.011								
WSVCB7		STORAGE	422.54	422.54		0	01:30	24.8	
24.8	0.000								
WSVCB8		STORAGE	559.89	559.89		0	02:30	57.5	
57.5	-0.005								
WSVCB11		STORAGE	581.70	581.70		0	03:35	71.9	
71.9	0.003								

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
WSVCB2	JUNCTION	5.58	0.500	0.000

WSVCB SWMM calcs

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 Poned Depth Feet
WSVCB2	5.54	375.58	0 01:45	18.551	0.000
WSVCB1	3.07	184.77	0 00:45	3.565	0.000
WSVCB4	8.57	428.20	0 04:00	30.107	0.000
WSVCB3	1.74	270.60	0 02:55	6.853	0.000
WSVCB10	3.98	28.96	0 01:00	0.990	0.000
WSVCB13	4.37	128.52	0 01:07	3.494	0.000
WSVCB8	3.28	210.70	0 02:30	9.021	0.000

Storage Volume Summary

of Max Occurrence hr:min	Maximum Outflow Unit CFS	Average Volume 1000 ft3	Avg Pcmt Full	Evap Pcmt Loss	Exfil Pcmt Loss	Maximum Volume 1000 ft3	Max Pcmt Full	Time days
WSVCB1 00:45	0.00	229.620	97	0	0	237.834	100	0
WSVCB4 00:50	0.00	86.037	96	0	0	89.753	100	0
WSVCB3 02:24	141.72	165.289	38	0	0	436.322	100	0
WSVCB5 01:30	30.87	11.371	7	0	0	65.149	39	0
WSVCB6 03:18	44.21	768.134	46	0	0	1134.796	68	0
WSVCB10 00:25	15.17	1.725	63	0	0	2.748	100	0
WSVCB13 01:07	0.00	284.491	95	0	0	300.836	100	0
WSVCB7 06:45	0.00	2806.133	29	0	0	3318.299	35	0
WSVCB8 01:20	349.18	52.588	50	0	0	104.152	100	0
WSVCB11 04:45	574.91	36.777	11	0	0	89.068	26	0

Outfall Loading Summary

Flow Avg Max Total

Outfall Node	Freq Pcnt	WSVCB Flow CFS	SWMM calcs Flow CFS	Volume 10 ⁶ gal
WSVCB3_0	98.64	74.58	141.72	17.760
WSVCB5_0	99.29	7.50	30.87	1.983
WSVCB10_0	98.91	5.87	15.19	1.501
WSVCB2_0	77.29	0.84	1.03	0.159
WSVCB6_0	99.47	38.74	44.21	10.012
WSVCB8_0	99.37	202.87	349.18	48.514
WSVCB9_0	98.27	251.37	567.87	59.756
WSVCB11_0	98.57	303.82	574.91	71.840
System	96.23	885.59	1660.30	211.525

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
WSVCB3	CONDUIT	141.72	0	02:52	16.27	2.38	1.00
WSVCB5	CONDUIT	30.87	0	01:30	9.31	1.17	0.96
WSVCB10_1	CONDUIT	15.17	0	00:30	9.48	1.71	0.85
WSVCB2	CONDUIT	1.03	0	00:21	0.88	1.71	0.63
WSVCB6	CONDUIT	44.21	0	03:19	14.07	2.34	1.00
WSVCB8	CONDUIT	349.18	0	01:55	27.79	3.61	1.00
WSVCB9	CHANNEL	567.87	0	03:45	11.29	0.03	0.20
WSVCB10_2	CONDUIT	15.19	0	00:29	11.50	0.84	0.70
WSVCB11	CONDUIT	574.91	0	04:46	15.30	0.75	0.70

Flow Classification Summary

Inlet Conduit Ctrl	Adjusted /Actual Length	----- Fraction of Time in Flow Class								
		Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	
WSVCB3 0.00	1.00	0.01	0.00	0.00	0.74	0.25	0.00	0.00	0.07	
WSVCB5 0.00	1.00	0.00	0.00	0.00	0.22	0.78	0.00	0.00	0.26	
WSVCB10_1 0.00	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.20	
WSVCB2 0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	
WSVCB6 0.00	1.00	0.00	0.00	0.00	0.97	0.02	0.00	0.00	0.00	
WSVCB8 0.00	1.00	0.00	0.00	0.00	0.68	0.31	0.00	0.00	0.22	

		WSVCB SWMM calcs								
WSVCB9	1.00	0.00	0.00	0.00	0.04	0.95	0.00	0.00	0.54	
0.00										
WSVCB10_2	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.45	
0.00										
WSVCB11	1.00	0.00	0.01	0.00	0.08	0.91	0.00	0.00	0.00	
0.00										

 Conduit Surcharge Summary

Conduit	----- Both Ends	Hours Full Upstream	----- Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
WSVCB3	0.01	5.00	0.01	5.33	0.01
WSVCB5	0.01	2.04	0.01	2.14	0.01
WSVCB10_1	0.01	2.65	0.01	3.19	0.01
WSVCB2	0.01	5.58	0.01	5.66	0.01
WSVCB6	7.52	9.38	7.52	9.46	7.52
WSVCB8	4.67	5.02	4.67	5.70	4.67

Analysis begun on: Tue Nov 13 13:48:03 2018
 Analysis ended on: Tue Nov 13 13:48:03 2018
 Total elapsed time: < 1 sec

H66B Ponding Areas

Conduit	----- Both Ends	Hours Full Upstream	----- Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
H66B5	0.01	1.00	0.01	3.05	0.01
H66B11	0.01	6.44	0.01	6.71	0.01
H66B9	0.01	5.47	0.01	5.60	0.01
H66B12	4.99	5.01	5.08	5.23	4.99
H66B4	0.01	1.34	0.01	1.99	0.01
H66B8	0.01	0.01	0.01	0.46	0.01
H66B6	0.01	3.43	0.01	3.61	0.01

Analysis begun on: Tue Nov 13 13:44:21 2018
 Analysis ended on: Tue Nov 13 13:44:22 2018
 Total elapsed time: 00:00:01

CR40 BASIN CALCULATIONS



JVA Incorporated
 213 Linden Street Suite 200
 Fort Collins, CO 80524
 Ph: (970) 225 9099

Job Name: Town of Mead - Drainage Master Plan Update
 Job Number: 1970.76c
 Date: 11/9/18
 By: LAT

Town of Mead - Drainage Master Plan Update
Composite Runoff Coefficient Calculations CR40 Basin

Location:	Mead
Minor Design Storm:	10
Major Design Storm:	100
Soil Type:	C/D

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_A = 0.84i^{0.302}$	$C_A = 0.86i^{0.276}$	$C_A = 0.87i^{0.252}$	$C_A = 0.84i^{0.128}$	$C_A = 0.85i+0.025$	$C_A = 0.78i+0.110$	$C_A = 0.65i+0.254$
B	$C_B = 0.84i^{-0.109}$	$C_B = 0.86i^{-0.083}$	$C_B = 0.81i+0.057$	$C_B = 0.63i+0.249$	$C_B = 0.56i+0.328$	$C_B = 0.47i+0.426$	$C_B = 0.37i+0.536$
C/D	$C_{CD} = 0.83i^{1.122}$	$C_{CD} = 0.82i+0.035$	$C_{CD} = 0.74i+0.132$	$C_{CD} = 0.56i+0.319$	$C_{CD} = 0.49i+0.393$	$C_{CD} = 0.41i+0.484$	$C_{CD} = 0.32i+0.588$

Basin Design Data																				Runoff Coeff's					
Basin Name	Design Point	A _{Paved} (sf)	A _{Drive/Walks Concrete} (sf)	A _{Gravel} (sf)	A _{Roof} (sf)	A _{Business Commercial} (sf)	A _{Business Neighborhood} (sf)	A _{Industrial Heavy} (sf)	A _{Railroad yard} (sf)	A _{school} (sf)	A _{Ag Bldg/Residential} (sf)	A _{single family (<25 acre lot only)} (sf)	A _{single family (25-75 acre lot only)} (sf)	A _{single family (>75 acre lot only)} (sf)	A _{parks/Cemetery} (sf)	A _{lawns} (sf)	A _{Ag/Green Belt} (sf)	A _{WATER} (sf)	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	C2	C5	C10	C100
CR40B1	73																1,724,422		1,724,422	39.59	2.0%	0.01	0.05	0.15	0.49
CR40B2	74	103,732		122,325													6,535,909		6,761,966	155.23	4.2%	0.02	0.07	0.16	0.50
CR40B3	101	46,802		68,930													6,950,016		7,065,748	162.21	3.0%	0.02	0.06	0.15	0.50
CR40B4	102			63,473													1,562,898		1,626,371	37.34	3.5%	0.02	0.06	0.16	0.50
CR40B5	103	25,578	20,019	301,444													5,279,410		5,626,451	129.17	4.8%	0.03	0.07	0.17	0.50
TOTAL SITE		176,112	20,019	556,172	0	0	0	0	0	0	0	0	0	0	0	0	22,052,655	0	22,804,958	523.53	3.8%	0.02	0.07	0.16	0.50

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
CR40B1	73	100yr	0.0618551	0.209090909	0.4221591	0.02534769	2	0.4	0.1	3	0.0018	0.5	0
CR40B2	74	100yr	0.2425522	0.280681818	0.5708333	0.03376576	4.190795695	0.4	0.1	3	0.0018	0.5	0
CR40B3	101	100yr	0.2534488	0.278598485	0.6981061	0.027164948	3.019840504	0.4	0.1	3	0.0018	0.5	0
CR40B4	102	100yr	0.058338	0.194507576	0.3882576	0.016926829	3.483040462	0.4	0.1	3	0.0018	0.5	0
CR40B5	103	100yr	0.2018212	0.465530303	1.1128788	0.013582369	4.794512562	0.4	0.1	3	0.0018	0.5	0

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in./hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
CR40B1	73	100YR	0.062	0.209	0.422	0.025	2.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.04	0.02	1.81
CR40B2	74	100YR	0.243	0.281	0.571	0.034	4.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.08	0.04	3.81
CR40B3	101	100YR	0.253	0.279	0.698	0.027	3.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.06	0.03	2.74
CR40B4	102	100YR	0.058	0.195	0.388	0.017	3.5	0.40	0.10	3.00	0.50	0.0018	0.00	0.07	0.03	3.16
CR40B5	103	100YR	0.202	0.466	1.113	0.014	4.8	0.40	0.10	3.00	0.50	0.0018	0.00	0.10	0.05	4.37

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
CR40B1		0.156	0.134	41.3	5.74	21.5	4.06	9.6	45	143,702	1.75	251,401	50.0	58	251,260	1.45
CR40B2		0.149	0.225	29.1	6.52	15.1	4.61	10.9	250	563,497	1.77	1,000,040	45.0	299	1,000,189	1.92
CR40B3		0.153	0.233	33.2	7.46	17.3	5.27	12.4	229	588,812	1.76	1,037,018	45.0	284	1,035,963	1.75
CR40B4		0.151	0.126	43.3	5.69	22.5	4.02	9.5	40	135,531	1.77	239,421	50.0	53	239,301	1.42
CR40B5		0.147	0.210	67.1	12.32	34.9	8.70	20.5	90	468,871	1.78	835,375	65.0	136	835,282	1.05

Printouts for Unit Hydrographs

flow in cfs

time in minutes	CR40B1	CR40B2	CR40B3	CR40B4	CR40B5
5	30.89	149.35	115.24	28.03	21.62
10	44.94	248.05	216.58	40.45	57.55
15	43.85	240.56	226.10	39.56	81.17
20	40.91	203.00	206.02	37.18	90.18
25	36.12	168.87	169.24	33.33	89.61
30	31.84	142.90	148.47	29.26	87.31
35	28.74	120.49	127.71	26.61	83.37
40	25.64	105.80	110.17	23.97	77.78
45	22.54	91.12	98.43	21.32	70.54
50	20.70	76.43	86.68	19.31	65.10
55	18.89	61.74	74.94	17.76	61.15
60	17.07	49.05	63.20	16.20	57.20
65	15.26	44.16	51.46	14.65	53.25
70	13.45	39.26	43.73	13.09	49.31
75	11.63	34.36	39.82	11.54	45.36
80	9.82	29.47	35.91	9.98	42.99
85	8.66	24.57	31.99	8.43	40.72
90	8.06	19.68	28.08	7.69	38.45
95	7.45	14.78	24.16	7.17	36.18
100	6.85	9.89	20.25	6.65	33.91
105	6.24	4.99	16.34	6.13	31.64
110	5.64	0.09	12.42	5.61	29.37
115	5.03	0.00	8.51	5.09	27.10
120	4.43		4.59	4.58	24.83
125	3.83		0.68	4.06	22.56
130	3.22		0.00	3.54	20.29
135	2.62			3.02	18.04
140	2.01			2.50	17.29
145	1.41			1.98	16.53
150	0.80			1.47	15.77
155	0.20			0.95	15.02
160	0.00			0.43	14.26
165				0.00	13.50
170					12.75
175					11.99
180					11.23
185					10.48
190					9.72
195					8.96
200					8.21
205					7.45
210					6.69
215					5.94
220					5.18
225					4.42
230					3.67
235					2.91
240					2.15
245					1.40
250					0.64
255					0.00

CR40 SWMM INPUT

CR40B Ponding Areas

[TITLE]

;;Project Title/Notes

[OPTIONS]

```

;;Option      Value
FLOW_UNITS    CFS
INFILTRATION  HORTON
FLOW_ROUTING  DYNWAVE
LINK_OFFSETS  DEPTH
MIN_SLOPE     0
ALLOW_PONDING NO
SKIP_STEADY_STATE NO

START_DATE    05/09/2018
START_TIME    00:00:00
REPORT_START_DATE 05/09/2018
REPORT_START_TIME 00:00:00
END_DATE      05/09/2018
END_TIME      10:00:00
SWEEP_START   01/01
SWEEP_END     12/31
DRY_DAYS      0
REPORT_STEP   00:00:30
WET_STEP      00:00:30
DRY_STEP      01:00:00
ROUTING_STEP  0:00:30
    
```

```

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP    0.75
LENGTHENING_STEP 0
MIN_SURFAREA     12.557
MAX_TRIALS       8
HEAD_TOLERANCE   0.005
SYS_FLOW_TOL     5
LAT_FLOW_TOL     5
MINIMUM_STEP     0.5
THREADS          1
    
```

[EVAPORATION]

```

;;Data Source Parameters
;;-----
CONSTANT 0.0
DRY_ONLY NO
    
```

[JUNCTIONS]

;;Name	Elevation	MaxDepth	InitDepth	SurDepth	Aponded
CR40B3_30in	5062.94	2.5	0	0	0
CR40B3	5036.69	2.1	0	0	0
CR40B3_03	5035.26	0	0	0	0

[OUTFALLS]

;;Name	Elevation	Type	Stage Data	Gated	Route To
CR40B5_0	93.48	FREE		NO	
CR40B3_30in_0	5061.42	FREE		NO	
CRB3_0	5035.26	FREE		NO	

[STORAGE]

;;Name	Elev.	MaxDepth	InitDepth	Shape	Curve Name/Params
N/A	Fevap	Psi	Ksat	IMD	

CR40B Ponding Areas

```

;;-----
CR40B5      93.96  3      0      TABULAR  CR40B5
  0          0
  
```

[CONDUITS]

```

;;Name      From Node      To Node      Length      Roughness  InOffset
OutOffset  InitFlow  MaxFlow
;;-----
CR40B5_E    CR40B5      CR40B5_0     53          0.013     0
0           0           0
CR40B3_1    CR40B3      CR40B3_03    35          0.023     0.13
0           0           0
CR40B3_3    CR40B3      CR40B3_03    35          0.023     0
0.06       0           0
CR40B3_4    CR40B3      CR40B3_03    35          0.023     0.12
0.22       0           0
CR40B3_5    CR40B3      CR40B3_03    35          0.023     0.02
0.22       0           0
CR40B3_30in CR40B3_30in CR40B3_30in_0 40          0.023     0
0           0           0
CR40B3_2    CR40B3      CR40B3_03    35          0.023     0.07
0.05       0           0
2           0           0
CR40B3_03   CRB3_0      400          0.01       0
0           0           0
  
```

[XSECTIONS]

```

;;Link      Shape      Geom1      Geom2      Geom3      Geom4
Barrels    Culvert
;;-----
CR40B5_E    CIRCULAR    3          0          0          0          1
CR40B3_1    CIRCULAR    2          0          0          0          1
CR40B3_3    CIRCULAR    2          0          0          0          1
CR40B3_4    CIRCULAR    2          0          0          0          1
CR40B3_5    CIRCULAR    2          0          0          0          1
CR40B3_30in CIRCULAR    2.5        0          0          0          1
CR40B3_2    CIRCULAR    2          0          0          0          1
2           DUMMY       0          0          0          0          1
  
```

[INFLOWS]

```

;;Node      Constituent  Time Series  Type      Mfactor  Sfactor
Baseline Pattern
;;-----
CR40B3_30in FLOW        CR40B3_30in FLOW      1.0      1.0
CR40B3       FLOW        CR40B3       FLOW      1.0      1.0
CR40B5       FLOW        CR40B5       FLOW      1.0      1.0
  
```

[CURVES]

```

;;Name      Type      X-Value  Y-Value
  
```

CR40B Ponding Areas

;;-----	-----	-----	-----
CR40B5	Storage	0	0
CR40B5		1	1000
CR40B5		2	38000
CR40B5		3	38000

[TIMESERIES]

;;Name	Date	Time	Value
CR40B5	5/9/2018	0:00	0.00
CR40B5	5/9/2018	0:05	0.00
CR40B5	5/9/2018	0:10	0.00
CR40B5	5/9/2018	0:15	0.01
CR40B5	5/9/2018	0:20	0.15
CR40B5	5/9/2018	0:25	3.16
CR40B5	5/9/2018	0:30	21.85
CR40B5	5/9/2018	0:35	55.46
CR40B5	5/9/2018	0:40	87.98
CR40B5	5/9/2018	0:45	111.01
CR40B5	5/9/2018	0:50	124.41
CR40B5	5/9/2018	0:55	131.92
CR40B5	5/9/2018	1:00	135.28
CR40B5	5/9/2018	1:05	135.51
CR40B5	5/9/2018	1:10	132.35
CR40B5	5/9/2018	1:15	127.28
CR40B5	5/9/2018	1:20	121.33
CR40B5	5/9/2018	1:25	114.54
CR40B5	5/9/2018	1:30	107.38
CR40B5	5/9/2018	1:35	100.09
CR40B5	5/9/2018	1:40	92.98
CR40B5	5/9/2018	1:45	86.97
CR40B5	5/9/2018	1:50	81.73
CR40B5	5/9/2018	1:55	76.92
CR40B5	5/9/2018	2:00	72.37
CR40B5	5/9/2018	2:05	67.98
CR40B5	5/9/2018	2:10	63.66
CR40B5	5/9/2018	2:15	59.44
CR40B5	5/9/2018	2:20	55.31
CR40B5	5/9/2018	2:25	51.22
CR40B5	5/9/2018	2:30	47.15
CR40B5	5/9/2018	2:35	43.09
CR40B5	5/9/2018	2:40	39.25
CR40B5	5/9/2018	2:45	36.38
CR40B5	5/9/2018	2:50	34.02
CR40B5	5/9/2018	2:55	31.94
CR40B5	5/9/2018	3:00	30.06
CR40B5	5/9/2018	3:05	28.32
CR40B5	5/9/2018	3:10	26.69
CR40B5	5/9/2018	3:15	25.18
CR40B5	5/9/2018	3:20	23.77
CR40B5	5/9/2018	3:25	22.38
CR40B5	5/9/2018	3:30	21.02
CR40B5	5/9/2018	3:35	19.65
CR40B5	5/9/2018	3:40	18.29
CR40B5	5/9/2018	3:45	16.93
CR40B5	5/9/2018	3:50	15.58
CR40B5	5/9/2018	3:55	14.22
CR40B5	5/9/2018	4:00	12.87
CR40B5	5/9/2018	4:05	11.52
CR40B5	5/9/2018	4:10	10.17
CR40B5	5/9/2018	4:15	8.82
CR40B5	5/9/2018	4:20	7.47
CR40B5	5/9/2018	4:25	6.12

CR40B Ponding Areas

CR40B5	5/9/2018	4:30	4.78
CR40B5	5/9/2018	4:35	3.45
CR40B5	5/9/2018	4:40	2.28
CR40B5	5/9/2018	4:45	1.56
CR40B5	5/9/2018	4:50	1.08
CR40B5	5/9/2018	4:55	0.73
CR40B5	5/9/2018	5:00	0.48
CR40B5	5/9/2018	5:05	0.29
CR40B5	5/9/2018	5:10	0.16
CR40B5	5/9/2018	5:15	0.09
CR40B5	5/9/2018	5:20	0.06
CR40B5	5/9/2018	5:25	0.04
CR40B5	5/9/2018	5:30	0.03
CR40B5	5/9/2018	5:35	0.02
CR40B5	5/9/2018	5:40	0.02
CR40B5	5/9/2018	5:45	0.01
CR40B5	5/9/2018	5:50	0.01
CR40B5	5/9/2018	5:55	0.00
CR40B5	5/9/2018	6:00	0.00
CR40B5	5/9/2018	6:05	0.00
CR40B5	5/9/2018	6:10	0.00

;			
CR40B3_30in	5/9/2018	0:00	0.00
CR40B3_30in	5/9/2018	0:05	0.00
CR40B3_30in	5/9/2018	0:10	0.00
CR40B3_30in	5/9/2018	0:15	0.00
CR40B3_30in	5/9/2018	0:20	0.02
CR40B3_30in	5/9/2018	0:25	0.74
CR40B3_30in	5/9/2018	0:30	5.06
CR40B3_30in	5/9/2018	0:35	10.34
CR40B3_30in	5/9/2018	0:40	70
CR40B3_30in	5/9/2018	0:45	90
CR40B3_30in	5/9/2018	0:50	13.86
CR40B3_30in	5/9/2018	0:55	13.21
CR40B3_30in	5/9/2018	1:00	12.43
CR40B3_30in	5/9/2018	1:05	11.71
CR40B3_30in	5/9/2018	1:10	10.87
CR40B3_30in	5/9/2018	1:15	9.82
CR40B3_30in	5/9/2018	1:20	8.67
CR40B3_30in	5/9/2018	1:25	7.48
CR40B3_30in	5/9/2018	1:30	6.37
CR40B3_30in	5/9/2018	1:35	5.45
CR40B3_30in	5/9/2018	1:40	4.76
CR40B3_30in	5/9/2018	1:45	4.19
CR40B3_30in	5/9/2018	1:50	3.69
CR40B3_30in	5/9/2018	1:55	3.24
CR40B3_30in	5/9/2018	2:00	2.82
CR40B3_30in	5/9/2018	2:05	2.42
CR40B3_30in	5/9/2018	2:10	2.05
CR40B3_30in	5/9/2018	2:15	1.69
CR40B3_30in	5/9/2018	2:20	1.34
CR40B3_30in	5/9/2018	2:25	0.99
CR40B3_30in	5/9/2018	2:30	0.67
CR40B3_30in	5/9/2018	2:35	0.45
CR40B3_30in	5/9/2018	2:40	0.31
CR40B3_30in	5/9/2018	2:45	0.21
CR40B3_30in	5/9/2018	2:50	0.13
CR40B3_30in	5/9/2018	2:55	0.08
CR40B3_30in	5/9/2018	3:00	0.04
CR40B3_30in	5/9/2018	3:05	0.02
CR40B3_30in	5/9/2018	3:10	0.01
CR40B3_30in	5/9/2018	3:15	0.01
CR40B3_30in	5/9/2018	3:20	0.01

CR40B Ponding Areas

CR40B3_30in	5/9/2018	3:25	0.00
CR40B3_30in	5/9/2018	3:30	0.00
CR40B3_30in	5/9/2018	3:35	0.00
CR40B3_30in	5/9/2018	3:40	0.00
CR40B3_30in	5/9/2018	3:45	0.00
CR40B3_30in	5/9/2018	3:50	0.00
CR40B3_30in	5/9/2018	3:55	0.00
CR40B3_30in	5/9/2018	4:00	0.00
CR40B3_30in	5/9/2018	4:05	0.00
CR40B3_30in	5/9/2018	4:10	0.00
CR40B3_30in	5/9/2018	4:15	0.00
CR40B3_30in	5/9/2018	4:20	0.00
CR40B3_30in	5/9/2018	4:25	0.00
CR40B3_30in	5/9/2018	4:30	0.00
CR40B3_30in	5/9/2018	4:35	0.00
CR40B3_30in	5/9/2018	4:40	0.00
CR40B3_30in	5/9/2018	4:45	0.00
CR40B3_30in	5/9/2018	4:50	0.00
CR40B3_30in	5/9/2018	4:55	0.00
CR40B3_30in	5/9/2018	5:00	0.00
CR40B3_30in	5/9/2018	5:05	0.00
CR40B3_30in	5/9/2018	5:10	0.00
CR40B3_30in	5/9/2018	5:15	0.00
CR40B3_30in	5/9/2018	5:20	0.00
CR40B3_30in	5/9/2018	5:25	0.00
CR40B3_30in	5/9/2018	5:30	0.00
CR40B3_30in	5/9/2018	5:35	0.00
CR40B3_30in	5/9/2018	5:40	0.00
CR40B3_30in	5/9/2018	5:45	0.00
CR40B3_30in	5/9/2018	5:50	0.00
CR40B3_30in	5/9/2018	5:55	0.00
CR40B3_30in	5/9/2018	6:00	0.00
CR40B3_30in	5/9/2018	6:05	0.00
CR40B3_30in	5/9/2018	6:10	0.00
;			
CR40B3	5/9/2018	0:00	0.00
CR40B3	5/9/2018	0:05	0.00
CR40B3	5/9/2018	0:10	0.03
CR40B3	5/9/2018	0:15	0.41
CR40B3	5/9/2018	0:20	14.01
CR40B3	5/9/2018	0:25	96.09
CR40B3	5/9/2018	0:30	196.43
CR40B3	5/9/2018	0:35	252.22
CR40B3	5/9/2018	0:40	270.06
CR40B3	5/9/2018	0:45	263.33
CR40B3	5/9/2018	0:50	251.04
CR40B3	5/9/2018	0:55	236.15
CR40B3	5/9/2018	1:00	222.51
CR40B3	5/9/2018	1:05	206.50
CR40B3	5/9/2018	1:10	186.62
CR40B3	5/9/2018	1:15	164.67
CR40B3	5/9/2018	1:20	142.03
CR40B3	5/9/2018	1:25	121.04
CR40B3	5/9/2018	1:30	103.51
CR40B3	5/9/2018	1:35	90.42
CR40B3	5/9/2018	1:40	79.66
CR40B3	5/9/2018	1:45	70.16
CR40B3	5/9/2018	1:50	61.57
CR40B3	5/9/2018	1:55	53.59
CR40B3	5/9/2018	2:00	46.05
CR40B3	5/9/2018	2:05	38.95
CR40B3	5/9/2018	2:10	32.15
CR40B3	5/9/2018	2:15	25.47

CR40B Ponding Areas

CR40B3	5/9/2018	2:20	18.87
CR40B3	5/9/2018	2:25	12.65
CR40B3	5/9/2018	2:30	8.51
CR40B3	5/9/2018	2:35	5.83
CR40B3	5/9/2018	2:40	3.93
CR40B3	5/9/2018	2:45	2.55
CR40B3	5/9/2018	2:50	1.56
CR40B3	5/9/2018	2:55	0.85
CR40B3	5/9/2018	3:00	0.40
CR40B3	5/9/2018	3:05	0.22
CR40B3	5/9/2018	3:10	0.13
CR40B3	5/9/2018	3:15	0.10
CR40B3	5/9/2018	3:20	0.08
CR40B3	5/9/2018	3:25	0.06
CR40B3	5/9/2018	3:30	0.04
CR40B3	5/9/2018	3:35	0.03
CR40B3	5/9/2018	3:40	0.02
CR40B3	5/9/2018	3:45	0.01
CR40B3	5/9/2018	3:50	0.00
CR40B3	5/9/2018	3:55	0.00
CR40B3	5/9/2018	4:00	0.00
CR40B3	5/9/2018	4:05	0.00
CR40B3	5/9/2018	4:10	0.00
CR40B3	5/9/2018	4:15	0.00
CR40B3	5/9/2018	4:20	0.00
CR40B3	5/9/2018	4:25	0.00
CR40B3	5/9/2018	4:30	0.00
CR40B3	5/9/2018	4:35	0.00
CR40B3	5/9/2018	4:40	0.00
CR40B3	5/9/2018	4:45	0.00
CR40B3	5/9/2018	4:50	0.00
CR40B3	5/9/2018	4:55	0.00
CR40B3	5/9/2018	5:00	0.00
CR40B3	5/9/2018	5:05	0.00
CR40B3	5/9/2018	5:10	0.00
CR40B3	5/9/2018	5:15	0.00
CR40B3	5/9/2018	5:20	0.00
CR40B3	5/9/2018	5:25	0.00
CR40B3	5/9/2018	5:30	0.00
CR40B3	5/9/2018	5:35	0.00
CR40B3	5/9/2018	5:40	0.00
CR40B3	5/9/2018	5:45	0.00
CR40B3	5/9/2018	5:50	0.00
CR40B3	5/9/2018	5:55	0.00
CR40B3	5/9/2018	6:00	0.00
CR40B3	5/9/2018	6:05	0.00
CR40B3	5/9/2018	6:10	0

[REPORT]

;;Reporting Options

INPUT NO

CONTROLS NO

SUBCATCHMENTS ALL

NODES ALL

LINKS ALL

[TAGS]

[MAP]

DIMENSIONS 0.000 0.000 10000.000 10000.000

Units None

[COORDINATES]

CR40B Ponding Areas		
;;Node	X-Coord	Y-Coord
CR40B3_30in	-2179.931	6216.840
CR40B3	-1453.287	6459.054
CR40B3_o3	-357.555	5559.400
CR40B5_0	7370.242	5374.856
CR40B3_30in_0	-2883.506	5663.206
CRB3_0	-92.272	5155.709
CR40B5	6782.007	5132.641

[VERTICES]		
;;Link	X-Coord	Y-Coord
CR40B3_1	-1245.675	5732.411
CR40B3_3	-720.877	5865.052
CR40B3_4	-784.314	6101.499
CR40B3_5	-611.303	6228.374
CR40B3_2	-1026.528	5893.887

CR40B Ponding Areas

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

WARNING 04: minimum elevation drop used for Conduit 2
WARNING 02: maximum depth increased for Node CR40B3

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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Flow Routing Method DYNWAVE
Starting Date 05/09/2018 00:00:00
Ending Date 05/09/2018 10:00:00
Antecedent Dry Days 0.0
Report Time Step 00:00:30
Routing Time Step 30.00 sec
Variable Time Step YES
Maximum Trials 8
Number of Threads 1
Head Tolerance 0.005000 ft

	Volume acre-feet	Volume 10 ⁶ gal
Flow Routing Continuity		
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	43.869	14.295
External Outflow	34.910	11.376
Flooding Loss	8.959	2.919
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	-0.000	

Time-Step Critical Elements

Link CR40B3_1 (47.04%)
Link CR40B5_E (44.78%)

Highest Flow Instability Indexes

CR40B Ponding Areas

All links are stable.

Routing Time Step Summary

```

Minimum Time Step      :      1.11 sec
Average Time Step      :      3.96 sec
Maximum Time Step      :     30.00 sec
Percent in Steady State :      0.00
Average Iterations per Step :    2.01
Percent Not Converging :      0.08
    
```

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
CR40B3_30in	JUNCTION	0.53	2.50	5065.44	0 00:38	2.50
CR40B3	JUNCTION	1.04	2.13	5038.82	0 00:27	2.13
CR40B3_03	JUNCTION	0.26	0.43	5035.69	0 01:20	0.43
CR40B5_0	OUTFALL	1.93	2.74	96.22	0 02:03	2.74
CR40B3_30in_0	OUTFALL	0.51	2.29	5063.71	0 00:38	2.28
CRB3_0	OUTFALL	0.00	0.00	5035.26	0 00:00	0.00
CR40B5	STORAGE	2.03	3.00	96.96	0 00:53	3.00

Node Inflow Summary

Total Inflow Volume gal	Flow Balance Error Percent	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	10^6
0.685	0.006	JUNCTION	89.95	89.95	0 00:45	0.685	
7.36	-0.000	JUNCTION	270.06	270.06	0 00:40	7.36	
5.5	0.000	JUNCTION	0.00	141.46	0 01:20	0	
5.29	0.000	OUTFALL	0.00	77.33	0 02:03	0	
0.581	0.000	OUTFALL	0.00	49.49	0 00:38	0	
5.5	0.000	OUTFALL	0.00	141.49	0 01:20	0	

CR40B5 STORAGE CR40B Ponding Areas 0 01:05 6.25
 6.25 -0.001 135.51 135.51

 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
CR40B3_30in	JUNCTION	0.16	0.000	0.000
CR40B3	JUNCTION	0.88	0.000	0.000

 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
CR40B3_30in	0.16	41.22	0 00:45	0.104	0.000
CR40B3	0.88	129.09	0 00:40	1.858	0.000
CR40B5	1.02	58.26	0 01:05	0.957	0.000

 Storage Volume Summary

of Max Occurrence Storage Unit hr:min	Maximum Outflow CFS	Average Volume 1000 ft3	Avg Pcmt Full	Evap Loss	Exfil Loss	Maximum Volume 1000 ft3	Max Pcmt Full	Time days
CR40B5 00:53	77.33	30.583	53	0	0	58.000	100	0

 Outfall Loading Summary

Outfall Node	Flow Freq Pcmt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
--------------	----------------	--------------	--------------	-----------------------

		CR40B Ponding Areas			
CR40B5_0	94.35	52.38	77.33	5.292	
CR40B3_30in_0	78.98	9.08	49.49	0.581	
CRB3_0	84.74	76.82	141.49	5.502	

System	86.02	138.29	253.39	11.375	

 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
CR40B5_E	CONDUIT	77.33	0 02:03	11.17	1.22	0.96
CR40B3_1	CONDUIT	31.77	0 01:20	17.11	1.18	0.61
CR40B3_3	CONDUIT	28.21	0 00:28	9.19	1.11	0.96
CR40B3_4	CONDUIT	27.41	0 00:27	9.05	1.10	0.95
CR40B3_5	CONDUIT	26.98	0 00:28	8.76	1.13	0.95
CR40B3_30in	CONDUIT	49.49	0 00:38	10.53	1.09	0.96
CR40B3_2	CONDUIT	28.45	0 01:20	9.45	1.09	0.96
2	DUMMY	141.49	0 01:20			

 Flow Classification Summary

Inlet Conduit Ctrl	Adjusted /Actual Length	Fraction of Time in Flow Class							
		Dry	Dry	Dry	Crit	Crit	Crit	Crit	Norm Ltd
CR40B5_E	1.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.21
CR40B3_1	1.00	0.00	0.27	0.00	0.02	0.70	0.00	0.00	0.73
CR40B3_3	1.00	0.00	0.13	0.00	0.03	0.02	0.00	0.82	0.62
CR40B3_4	1.00	0.27	0.00	0.00	0.00	0.00	0.00	0.73	0.00
CR40B3_5	1.00	0.16	0.00	0.00	0.00	0.00	0.00	0.84	0.00
CR40B3_30in	1.00	0.00	0.00	0.00	0.26	0.74	0.00	0.00	0.13
CR40B3_2	1.00	0.00	0.22	0.00	0.04	0.01	0.00	0.73	0.70

 Conduit Surcharge Summary

MIANTENOMA RESERVOIR BASIN CALCULATIONS



JVA Incorporated
 213 Linden Street Suite 200
 Fort Collins, CO 80524
 Ph: (970) 225 9099

Job Name: Town of Mead - Drainage Master Plan Update
 Job Number: 1970.76c
 Date: 11/9/18
 By: LAT

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_{A1} = 0.84i^{1.302}$	$C_{A2} = 0.86i^{1.276}$	$C_{A3} = 0.87i^{1.232}$	$C_{A4} = 0.84i^{1.124}$	$C_{A5} = 0.85i+0.025$	$C_{A6} = 0.78i+0.110$	$C_{A7} = 0.65i+0.254$
	$C_{B1} = 0.84i^{1.169}$	$C_{B2} = 0.86i^{1.088}$	$C_{B3} = 0.81i+0.057$	$C_{B4} = 0.63i+0.249$	$C_{B5} = 0.56i+0.328$	$C_{B6} = 0.47i+0.426$	$C_{B7} = 0.37i+0.536$
C/D	$C_{C1} = 0.83i^{1.122}$	$C_{C2} = 0.82i+0.035$	$C_{C3} = 0.74i+0.132$	$C_{C4} = 0.56i+0.319$	$C_{C5} = 0.49i+0.393$	$C_{C6} = 0.41i+0.484$	$C_{C7} = 0.32i+0.588$

Town of Mead - Drainage Master Plan Update

Composite Runoff Coefficient Calculations Maintenoma Reservoir Basin

Location: Mead

Minor Design Storm:	10
Major Design Storm:	100
Soil Type:	C/D

Basin Design Data																				Runoff Coeff's					
Basin Name	Design Point	A _{Paved} (sf)	A _{Drive/Walks Concrete} (sf)	A _{Gravel} (sf)	A _{Roof} (sf)	A _{Business Commercial} (sf)	A _{Business Neighborhood} (sf)	A _{Industrial Heavy} (sf)	A _{Railroad yard} (sf)	A _{School} (sf)	A _{Ag Bldg/Residential} (sf)	A _{Single family (<.25 acre lot only)} (sf)	A _{Single family (.25-.75 acre lot only)} (sf)	A _{Single family (>.75 acre lot only)} (sf)	A _{Parks/Cemetery} (sf)	A _{Lawns} (sf)	A _{Ag/Green Belt} (sf)	A _{WATER} (sf)	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	C2	C5	C10	C100
MRB1	104		44,641	131,060							63,953						5,727,527	718,171	6,685,352	153.47	14.3%	0.09	0.15	0.24	0.54
MRB2	105		26,334	60,005							173,448						3,456,548	493,579	4,209,914	96.65	16.6%	0.11	0.17	0.25	0.55
MRB3	106	30,296		119,334							216,867						4,121,378		4,487,875	103.03	6.0%	0.04	0.08	0.18	0.51
MRB4	107	6,768	154,661	296,776				235,614			335,285						14,153,589		15,182,693	348.55	6.1%	0.04	0.09	0.18	0.51
MRB5	108			177,509							409,889						4,019,390		4,606,788	105.76	7.7%	0.05	0.10	0.19	0.52
MRB6	109		15,822	183,699							1,299,660						3,073,374		4,572,555	104.97	17.5%	0.12	0.18	0.26	0.56
MRB7	110			61,042							28,564						1,855,946		1,945,552	44.66	3.9%	0.02	0.07	0.16	0.50
																			0	0.00					
TOTAL SITE		37,064	241,458	1,029,425	0	0	0	235,614	0	0	2,527,666	0	0	0	0	0	36,407,752	1,211,750	41,690,729	957.09	9.8%	0.06	0.12	0.20	0.52

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
MRB1	104	100yr	0.239804	0.249621212	0.5289773	0.018976011	14.31934983	0.4	0.1	3	0.0018	0.5	0
MRB2	105	100yr	0.1510099	0.440909091	0.7395833	0.024847631	16.55940145	0.4	0.1	3	0.0018	0.5	0
MRB3	106	100yr	0.1609804	0.265530303	0.7668561	0.019278834	5.991491742	0.4	0.1	3	0.0018	0.5	0
MRB4	107	100yr	0.5446042	0.742992424	1.2818182	0.024364657	6.108535423	0.4	0.1	3	0.0018	0.5	0
MRB5	108	100yr	0.1652458	0.487310606	0.8356061	0.024347235	7.735018412	0.4	0.1	3	0.0018	0.5	0
MRB6	109	100yr	0.1640178	0.162689394	0.7837121	0.022783954	17.4741885	0.4	0.1	3	0.0018	0.5	0
MRB7	110	100yr	0.0697871	0.153030303	0.5914773	0.023253282	3.89697731	0.4	0.1	3	0.0018	0.5	0

MIANTENOMA RESERVOIR BASIN

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in./hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
MRB1	104	100YR	0.240	0.250	0.529	0.019	14.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.29	0.11	13.35
MRB2	105	100YR	0.151	0.441	0.740	0.025	16.6	0.40	0.10	3.00	0.50	0.0018	0.00	0.33	0.12	15.53
MRB3	106	100YR	0.161	0.266	0.767	0.019	6.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.47
MRB4	107	100YR	0.545	0.743	1.282	0.024	6.1	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.57
MRB5	108	100YR	0.165	0.487	0.836	0.024	7.7	0.40	0.10	3.00	0.50	0.0018	0.00	0.15	0.08	7.08
MRB6	109	100YR	0.164	0.163	0.784	0.023	17.5	0.40	0.10	3.00	0.50	0.0018	0.00	0.35	0.12	16.43
MRB7	110	100YR	0.070	0.153	0.591	0.023	3.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.08	0.04	3.54

MIANTENOMA RESERVOIR BASIN

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
MRB1		0.120	0.188	29.3	5.74	15.2	4.06	9.6	246	557,113	1.89	1,055,458	45.0	301	1,054,014	1.96
MRB2		0.117	0.158	48.9	7.46	25.5	5.27	12.4	93	350,826	1.92	674,210	50.0	133	674,133	1.38
MRB3		0.143	0.189	42.5	7.67	22.1	5.42	12.8	114	373,990	1.80	671,504	50.0	152	670,886	1.47
MRB4		0.142	0.275	57.8	13.71	30.1	9.69	22.8	283	1,265,224	1.80	2,273,442	60.0	418	2,273,391	1.20
MRB5		0.137	0.184	55.1	9.30	28.7	6.57	15.5	90	383,899	1.82	697,055	55.0	130	696,870	1.23
MRB6		0.115	0.164	30.5	5.33	15.8	3.77	8.9	161	381,046	1.93	736,534	45.0	202	734,857	1.93
MRB7		0.150	0.136	40.3	5.70	21.0	4.03	9.5	52	162,129	1.77	287,182	45.0	67	286,949	1.49

Printouts for Unit Hydrographs

flow in cfs

time in minutes	MRB1	MRB2	MRB3	MRB4	MRB5	MRB6	MRB7
5	168.66	46.62	55.05	57.65	33.15	118.81	35.94
10	245.54	87.63	106.04	158.71	74.16	161.15	51.93
15	231.11	92.18	113.06	236.34	89.78	151.15	50.57
20	192.09	89.30	108.26	276.60	88.98	127.30	46.94
25	163.09	83.58	98.37	281.90	85.76	108.64	41.06
30	138.27	75.02	84.36	273.97	80.24	93.18	36.33
35	117.46	66.82	76.54	257.52	72.41	79.01	32.66
40	103.27	61.39	68.73	232.55	65.16	70.09	28.99
45	89.07	55.96	60.91	206.69	60.43	61.17	25.59
50	74.87	50.53	54.66	191.79	55.69	52.25	23.44
55	60.67	45.59	50.16	176.90	50.96	43.33	21.29
60	48.24	42.43	45.66	162.00	46.22	34.41	19.14
65	43.51	39.27	41.16	147.10	42.95	30.03	17.00
70	38.78	36.11	36.66	136.20	40.21	27.06	14.85
75	34.05	32.95	32.16	127.83	37.47	24.08	12.70
80	29.31	29.79	27.66	119.45	34.73	21.11	10.55
85	24.58	26.62	23.16	111.07	31.99	18.14	9.73
90	19.85	23.46	21.36	102.69	29.25	15.16	9.01
95	15.12	20.30	19.86	94.31	26.51	12.19	8.29
100	10.38	18.05	18.36	85.93	23.77	9.22	7.58
105	5.65	17.00	16.86	77.55	21.03	6.24	6.86
110	0.92	15.95	15.36	69.17	18.30	3.27	6.15
115	0.00	14.89	13.86	60.79	17.17	0.30	5.43
120		13.84	12.36	55.16	16.26	0.00	4.71
125		12.78	10.86	52.37	15.35		4.00
130		11.73	9.36	49.58	14.43		3.28
135		10.68	7.86	46.78	13.52		2.57
140		9.62	6.36	43.99	12.61		1.85
145		8.57	4.86	41.20	11.70		1.14
150		7.52	3.36	38.41	10.78		0.42
155		6.46	1.86	35.61	9.87		0.00
160		5.41	0.36	32.82	8.96		
165		4.35	0.00	30.03	8.04		
170		3.30		27.23	7.13		
175		2.25		24.44	6.22		
180		1.19		21.65	5.30		
185		0.14		18.85	4.39		
190		0.00		16.06	3.48		
195				13.27	2.56		
200				10.48	1.65		
205				7.68	0.74		
210				4.89	0.00		
215				2.10			
220				0.00			

MRB ROUTING CALCULATIONS

MIANTENOMA RESERVOIR BASIN

END Basin DS of MRB5

End Node	Upstream Nodes
MRB5	MRB4

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
MRB5	55	0
MRB4	60	55

END Basin DS of MRB2

End Node	Upstream Nodes
MRB2	MRB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
MRB2	50	0
MRB1	45	50

flow in cfs

time in minutes	MRB5	MRB4	Total to MRB5	max
0	0.00		0.00	480
5	0.00		0.00	
10	0.00		0.00	
15	0.06		0.06	
20	0.40		0.40	
25	5.51		5.51	
30	32.84		32.84	
35	72.84		72.84	
40	102.78		102.78	
45	118.82		118.82	
50	127.07		127.07	
55	129.56	0.00	129.56	
60	127.72	0.00	127.72	
65	124.61	0.00	124.61	
70	120.48	0.06	120.54	
75	114.29	0.55	114.84	
80	106.67	9.12	115.79	
85	98.51	60.48	158.98	
90	91.04	156.06	247.10	
95	84.38	256.46	340.84	
100	78.32	335.25	413.57	
105	72.68	384.02	456.70	
110	67.29	409.69	476.98	
115	62.09	417.94	480.03	
120	57.03	412.68	469.71	
125	52.04	398.45	450.49	
130	47.04	381.83	428.87	
135	42.27	361.17	403.45	
140	38.58	336.67	375.25	
145	35.58	310.85	346.43	
150	32.94	287.02	319.96	
155	30.57	265.94	296.51	
160	28.39	246.88	275.26	
165	26.35	229.39	255.74	
170	24.44	212.76	237.20	
175	22.67	196.79	219.46	
180	20.95	181.18	202.13	
185	19.26	165.88	185.13	
190	17.57	150.70	168.27	
195	15.89	135.94	151.83	
200	14.21	123.35	137.56	
205	12.53	113.53	126.06	
210	10.86	105.18	116.04	
215	9.19	97.73	106.92	
220	7.53	90.94	98.47	
225	5.87	84.64	90.51	
230	4.25	78.74	82.98	
235	2.84	73.25	76.09	
240	1.97	68.02	69.99	
245	1.38	62.88	64.26	
250	0.95	57.79	58.75	
255	0.64	52.71	53.35	
260	0.41	47.64	48.05	
265	0.24	42.58	42.82	
270	0.14	37.52	37.66	
275	0.10	32.47	32.57	
280	0.07	27.43	27.51	
285	0.06	22.40	22.46	
290	0.05	17.39	17.43	
295	0.03	12.49	12.52	
300	0.02	8.31	8.34	
305	0.02	5.73	5.75	
310	0.01	3.99	4.00	
315	0.00	2.72	2.72	
320	0.00	1.79	1.79	
325	0.00	1.11	1.11	
330	0.00	0.64	0.64	
335	0.00	0.36	0.36	
340		0.24	0.24	
345		0.17	0.17	
350		0.14	0.14	
355		0.11	0.11	
360		0.08	0.08	
365		0.06	0.06	
370		0.04	0.04	
375		0.02	0.02	
380		0.01	0.01	
385		0.00	0.00	
390		0.00	0.00	

flow in cfs

time in minutes	MRB2	MRB1	Total to MRB2	max
0	0.00		0.00	388
5	0.00		0.00	
10	0.03		0.03	
15	0.36		0.36	
20	1.86		1.86	
25	11.01		11.01	
30	48.27		48.27	
35	91.52		91.52	
40	116.44		116.44	
45	128.64		128.64	
50	133.31	0.00	133.31	
55	131.98	0.00	131.98	
60	128.22	0.07	128.29	
65	125.07	0.95	126.02	
70	119.53	4.90	124.43	
75	111.70	34.43	146.13	
80	103.27	155.44	258.71	
85	95.33	259.85	355.18	
90	87.92	300.54	388.46	
95	81.01	301.45	382.47	
100	74.53	289.36	363.89	
105	68.29	270.76	339.05	
110	62.25	252.33	314.57	
115	56.38	238.13	294.51	
120	50.82	216.35	267.18	
125	45.88	190.42	236.30	
130	41.85	162.53	204.39	
135	38.37	137.12	175.50	
140	35.23	118.05	153.29	
145	32.36	102.88	135.24	
150	29.70	89.88	119.58	
155	27.22	78.21	105.42	
160	24.90	67.49	92.40	
165	22.71	57.43	80.14	
170	20.57	48.02	68.59	
175	18.46	38.55	57.01	
180	16.37	29.01	45.38	
185	14.28	20.28	34.56	
190	12.20	14.29	26.49	
195	10.14	10.29	20.43	
200	8.09	7.39	15.47	
205	6.07	5.22	11.29	
210	4.22	3.59	7.82	
215	3.00	2.38	5.38	
220	2.19	1.55	3.74	
225	1.59	1.11	2.70	
230	1.14	0.84	1.99	
235	0.81	0.67	1.47	
240	0.55	0.52	1.08	
245	0.38	0.40	0.77	
250	0.28	0.29	0.57	
255	0.22	0.19	0.41	
260	0.17	0.12	0.29	
265	0.14	0.06	0.20	
270	0.10	0.02	0.13	
275	0.07	0.00	0.08	
280	0.05	0.00	0.05	
285	0.03	0.00	0.03	
290	0.02	0.00	0.02	
295	0.01	0.00	0.01	
300	0.00	0.00	0.00	
305	0.00	0.00	0.00	

MRB SWMM INPUT

MRB Ponding Areas

[TITLE]

;;Project Title/Notes

[OPTIONS]

```

;;Option      Value
FLOW_UNITS    CFS
INFILTRATION  HORTON
FLOW_ROUTING  KINWAVE
LINK_OFFSETS  DEPTH
MIN_SLOPE     0
ALLOW_PONDING NO
SKIP_STEADY_STATE NO

START_DATE    05/10/2018
START_TIME    00:00:00
REPORT_START_DATE 05/10/2018
REPORT_START_TIME 00:00:00
END_DATE      05/12/2018
END_TIME      06:00:00
SWEEP_START   01/01
SWEEP_END     12/31
DRY_DAYS      0
REPORT_STEP   00:00:05
WET_STEP      00:00:05
DRY_STEP      00:00:05
ROUTING_STEP  0:00:05
    
```

```

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP     0.75
LENGTHENING_STEP  0
MIN_SURFAREA      12.557
MAX_TRIALS        8
HEAD_TOLERANCE    0.005
SYS_FLOW_TOL      5
LAT_FLOW_TOL      5
MINIMUM_STEP      0.5
THREADS           1
    
```

[EVAPORATION]

```

;;Data Source Parameters
;;-----
CONSTANT      0.0
DRY_ONLY      NO
    
```

[JUNCTIONS]

```

;;Name      Elevation  MaxDepth  InitDepth  SurDepth  Aponded
;;-----
MRB6        64.88      0          0          0          0
    
```

[OUTFALLS]

```

;;Name      Elevation  Type      Stage Data      Gated  Route To
;;-----
MRB5_0      34          FREE
MRB4_0      4963.89    FREE
MRB6_0      64          FREE
    
```

[STORAGE]

```

;;Name      Elev.      MaxDepth  InitDepth  Shape      Curve Name/Params
;;  N/A      Fevap     Psi       Ksat       IMD
;;-----
    
```

MRB Ponding Areas						
MRB	Area	Length	Width	Flow	Type	MRB
MRB5 0	0	35	22	0	TABULAR	MRB5
MRB1 0	0	31	5	0	TABULAR	MRB1
MRB2 0	0	5001	5	0	TABULAR	MRB2
MRB2-2 0	0	4969	10	0	TABULAR	MRB2-2
MRB3 0	0	75	9	0	TABULAR	MRB3
MRB4 0	0	4964.79	4.21	0	TABULAR	MRB4
MRB7 0	0	65	3	0	TABULAR	MRB7

[CONDUITS]							
;;Name	From Node	To Node	Length	Roughness	InOffset		
OutOffset	InitFlow	MaxFlow					
;;	-----						
MRB5 0	MRB5 0	MRB5_O	60	0.013	0		
MRB4 0	MRB4 0	MRB4_O	145	0.022	0		
MRB6 0	MRB6 0	MRB6_O	60	0.022	0		

[WEIRS]							
;;Name	From Node	To Node	Type	CrestHt	Qcoeff		
Gated	EndCon	EndCoeff	Surcharge	RoadWidth	RoadSurf		
;;	-----						
MRB2 NO	MRB2 0	MRB2-2	TRANSVERSE	4.5	3.33		
		YES					

[XSECTIONS]							
;;Link	Shape	Geom1	Geom2	Geom3	Geom4		
Barrels	Culvert						
;;	-----						
MRB5	RECT_CLOSED	6	7	0	0	1	
MRB4	CIRCULAR	2	0	0	0	1	
MRB6	CIRCULAR	2.33	0	0	0	1	
MRB2	RECT_OPEN	.5	80	5	5		

[INFLOWS]						
;;Node	Constituent	Time Series	Type	Mfactor	Sfactor	
Baseline	Pattern					
;;	-----					
MRB6	FLOW	MRB6	FLOW	1.0	1.0	
MRB5	FLOW	MRB5	FLOW	1.0	1.0	
MRB1	FLOW	MRB1	FLOW	1.0	1.0	
MRB2	FLOW	MRB2	FLOW	1.0	1.0	
MRB2-2	FLOW	MRB2	FLOW	1.0	1.0	

MRB Ponding Areas					
MRB3	FLOW	MRB3	FLOW	1.0	1.0
MRB4	FLOW	MRB4	FLOW	1.0	1.0
MRB7	FLOW	MRB7	FLOW	1.0	1.0

[CURVES]

;;Name	Type	X-Value	Y-Value
MRB1	Storage	0	561839
MRB1		1	605009
MRB1		2	643382
MRB1		3	696347
MRB1		4	765386
MRB1		5	863615
;			
MRB2	Storage	0	262082
MRB2		1	277360
MRB2		2	288417
MRB2		3	299897
MRB2		4	329309
;			
MRB2-2	Storage	0	225476
MRB2-2		1	255181
MRB2-2		2	289342
MRB2-2		3	320831
MRB2-2		4	358881
MRB2-2		5	391789
MRB2-2		6	416587
MRB2-2		7	443945
MRB2-2		8	464637
MRB2-2		9	484657
MRB2-2		10	507053
;			
MRB3	Storage	0	2175
MRB3		1	4912
MRB3		2	9838
MRB3		3	16135
MRB3		4	23761
MRB3		5	32373
MRB3		6	46878
MRB3		7	59677
;			
MRB4	Storage	0	0
MRB4		0.21	68
MRB4		1.21	1594
MRB4		2.21	10631
MRB4		3.21	30902
MRB4		4.21	50723
;			
MRB5	Storage	0	0
MRB5		1	275
MRB5		2	811
MRB5		3	1166
MRB5		4	6555
MRB5		5	19332
MRB5		6	46074
MRB5		7	67994
MRB5		8	90959
MRB5		9	111657
MRB5		10	135012
MRB5		11	163174

MRB Ponding Areas

MRB5		12	189269
MRB5		13	215029
MRB5		14	243457
MRB5		15	271396
MRB5		16	298167
MRB5		17	326116
MRB5		18	355314
MRB5		19	387904
MRB5		20	427803
MRB5		21	467692
;			
MRB7	Storage	0	2868
MRB7		1	14152
MRB7		2	37413
MRB7		3	68769

[TIMESERIES]

;;Name	Date	Time	Value
MRB1	5/10/2018	0:00	0.00
MRB1	5/10/2018	0:05	0.00
MRB1	5/10/2018	0:10	0.00
MRB1	5/10/2018	0:15	0.69
MRB1	5/10/2018	0:20	2.64
MRB1	5/10/2018	0:25	15.45
MRB1	5/10/2018	0:30	112.47
MRB1	5/10/2018	0:35	201.70
MRB1	5/10/2018	0:40	238.28
MRB1	5/10/2018	0:45	240.42
MRB1	5/10/2018	0:50	231.19
MRB1	5/10/2018	0:55	216.24
MRB1	5/10/2018	1:00	201.03
MRB1	5/10/2018	1:05	189.54
MRB1	5/10/2018	1:10	171.65
MRB1	5/10/2018	1:15	150.26
MRB1	5/10/2018	1:20	127.84
MRB1	5/10/2018	1:25	107.34
MRB1	5/10/2018	1:30	92.24
MRB1	5/10/2018	1:35	80.33
MRB1	5/10/2018	1:40	70.17
MRB1	5/10/2018	1:45	61.06
MRB1	5/10/2018	1:50	52.70
MRB1	5/10/2018	1:55	44.85
MRB1	5/10/2018	2:00	37.52
MRB1	5/10/2018	2:05	30.20
MRB1	5/10/2018	2:10	22.79
MRB1	5/10/2018	2:15	15.75
MRB1	5/10/2018	2:20	10.89
MRB1	5/10/2018	2:25	7.72
MRB1	5/10/2018	2:30	5.46
MRB1	5/10/2018	2:35	3.80
MRB1	5/10/2018	2:40	2.57
MRB1	5/10/2018	2:45	1.67
MRB1	5/10/2018	2:50	1.07
MRB1	5/10/2018	2:55	0.77
MRB1	5/10/2018	3:00	0.59
MRB1	5/10/2018	3:05	0.47
MRB1	5/10/2018	3:10	0.37
MRB1	5/10/2018	3:15	0.28
MRB1	5/10/2018	3:20	0.20
MRB1	5/10/2018	3:25	0.14
MRB1	5/10/2018	3:30	0.08
MRB1	5/10/2018	3:35	0.05

MRB Ponding Areas

MRB1	5/10/2018	3:40	0.02
MRB1	5/10/2018	3:45	0.00
MRB1	5/10/2018	3:50	0.00
MRB1	5/10/2018	3:55	0.00
MRB1	5/10/2018	4:00	0.00
MRB1	5/10/2018	4:05	0.00
MRB1	5/10/2018	4:10	0.00
MRB1	5/10/2018	4:15	0.00
MRB1	5/10/2018	4:20	0.00
MRB1	5/10/2018	4:25	0.00
MRB1	5/10/2018	4:30	0.00
MRB1	5/10/2018	4:35	0.00
MRB1	5/10/2018	4:40	0.00
MRB1	5/10/2018	4:45	0.00
MRB1	5/10/2018	4:50	0.00
MRB1	5/10/2018	4:55	0.00
MRB1	5/10/2018	5:00	0.00
MRB1	5/10/2018	5:05	0.00
MRB1	5/10/2018	5:10	0.00
MRB1	5/10/2018	5:15	0.00
MRB1	5/10/2018	5:20	0.00
MRB1	5/10/2018	5:25	0.00
MRB1	5/10/2018	5:30	0.00
;			
MRB1-1	5/10/2018	0:00	0.00
MRB1-1	5/10/2018	0:05	0.00
MRB1-1	5/10/2018	0:10	0.00
MRB1-1	5/10/2018	0:15	0.69
MRB1-1	5/10/2018	0:20	2.64
MRB1-1	5/10/2018	0:25	15.45
MRB1-1	5/10/2018	0:30	112.47
MRB1-1	5/10/2018	0:35	201.70
MRB1-1	5/10/2018	0:40	238.28
MRB1-1	5/10/2018	0:45	240.42
MRB1-1	5/10/2018	0:50	231.19
MRB1-1	5/10/2018	0:55	216.24
MRB1-1	5/10/2018	1:00	201.03
MRB1-1	5/10/2018	1:05	189.54
MRB1-1	5/10/2018	1:10	171.65
MRB1-1	5/10/2018	1:15	150.26
MRB1-1	5/10/2018	1:20	127.84
MRB1-1	5/10/2018	1:25	107.34
MRB1-1	5/10/2018	1:30	92.24
MRB1-1	5/10/2018	1:35	80.33
MRB1-1	5/10/2018	1:40	70.17
MRB1-1	5/10/2018	1:45	61.06
MRB1-1	5/10/2018	1:50	52.70
MRB1-1	5/10/2018	1:55	44.85
MRB1-1	5/10/2018	2:00	37.52
MRB1-1	5/10/2018	2:05	30.20
MRB1-1	5/10/2018	2:10	22.79
MRB1-1	5/10/2018	2:15	15.75
MRB1-1	5/10/2018	2:20	10.89
MRB1-1	5/10/2018	2:25	7.72
MRB1-1	5/10/2018	2:30	5.46
MRB1-1	5/10/2018	2:35	3.80
MRB1-1	5/10/2018	2:40	2.57
MRB1-1	5/10/2018	2:45	1.67
MRB1-1	5/10/2018	2:50	1.07
MRB1-1	5/10/2018	2:55	0.77
MRB1-1	5/10/2018	3:00	0.59
MRB1-1	5/10/2018	3:05	0.47
MRB1-1	5/10/2018	3:10	0.37

MRB Ponding Areas

MRB1-1	5/10/2018	3:15	0.28
MRB1-1	5/10/2018	3:20	0.20
MRB1-1	5/10/2018	3:25	0.14
MRB1-1	5/10/2018	3:30	0.08
MRB1-1	5/10/2018	3:35	0.05
MRB1-1	5/10/2018	3:40	0.02
MRB1-1	5/10/2018	3:45	0.00
MRB1-1	5/10/2018	3:50	0.00
MRB1-1	5/10/2018	3:55	0.00
MRB1-1	5/10/2018	4:00	0.00
MRB1-1	5/10/2018	4:05	0.00
MRB1-1	5/10/2018	4:10	0.00
MRB1-1	5/10/2018	4:15	0.00
MRB1-1	5/10/2018	4:20	0.00
MRB1-1	5/10/2018	4:25	0.00
MRB1-1	5/10/2018	4:30	0.00
MRB1-1	5/10/2018	4:35	0.00
MRB1-1	5/10/2018	4:40	0.00
MRB1-1	5/10/2018	4:45	0.00
MRB1-1	5/10/2018	4:50	0.00
MRB1-1	5/10/2018	4:55	0.00
MRB1-1	5/10/2018	5:00	0.00
MRB1-1	5/10/2018	5:05	0.00
MRB1-1	5/10/2018	5:10	0.00
MRB1-1	5/10/2018	5:15	0.00
MRB1-1	5/10/2018	5:20	0.00
MRB1-1	5/10/2018	5:25	0.00
MRB1-1	5/10/2018	5:30	0.00
;			
MRB2	5/10/2018	0:00	0
MRB2	5/10/2018	0:05	0
MRB2	5/10/2018	0:10	0.027205072
MRB2	5/10/2018	0:15	0.361758497
MRB2	5/10/2018	0:20	1.864044554
MRB2	5/10/2018	0:25	11.01454739
MRB2	5/10/2018	0:30	48.26833904
MRB2	5/10/2018	0:35	91.51682811
MRB2	5/10/2018	0:40	116.4379054
MRB2	5/10/2018	0:45	128.6355107
MRB2	5/10/2018	0:50	133.3130669
MRB2	5/10/2018	0:55	131.9759779
MRB2	5/10/2018	1:00	128.2898561
MRB2	5/10/2018	1:05	126.01937
MRB2	5/10/2018	1:10	124.4315034
MRB2	5/10/2018	1:15	146.1323411
MRB2	5/10/2018	1:20	258.7052498
MRB2	5/10/2018	1:25	355.1769802
MRB2	5/10/2018	1:30	388.458312
MRB2	5/10/2018	1:35	382.4671828
MRB2	5/10/2018	1:40	363.8863927
MRB2	5/10/2018	1:45	339.0514372
MRB2	5/10/2018	1:50	314.5739963
MRB2	5/10/2018	1:55	294.5105973
MRB2	5/10/2018	2:00	267.1750085
MRB2	5/10/2018	2:05	236.2994986
MRB2	5/10/2018	2:10	204.3879636
MRB2	5/10/2018	2:15	175.4986836
MRB2	5/10/2018	2:20	153.2854032
MRB2	5/10/2018	2:25	135.2358275
MRB2	5/10/2018	2:30	119.5798967
MRB2	5/10/2018	2:35	105.4244744
MRB2	5/10/2018	2:40	92.3983826
MRB2	5/10/2018	2:45	80.13919047

MRB Ponding Areas

MRB2	5/10/2018	2:50	68.58519239
MRB2	5/10/2018	2:55	57.01156954
MRB2	5/10/2018	3:00	45.37611954
MRB2	5/10/2018	3:05	34.55925832
MRB2	5/10/2018	3:10	26.49101515
MRB2	5/10/2018	3:15	20.43224947
MRB2	5/10/2018	3:20	15.47481435
MRB2	5/10/2018	3:25	11.28815614
MRB2	5/10/2018	3:30	7.816406172
MRB2	5/10/2018	3:35	5.379296009
MRB2	5/10/2018	3:40	3.740212626
MRB2	5/10/2018	3:45	2.703901862
MRB2	5/10/2018	3:50	1.986954623
MRB2	5/10/2018	3:55	1.473881691
MRB2	5/10/2018	4:00	1.075567542
MRB2	5/10/2018	4:05	0.774069164
MRB2	5/10/2018	4:10	0.569567093
MRB2	5/10/2018	4:15	0.411692095
MRB2	5/10/2018	4:20	0.292872238
MRB2	5/10/2018	4:25	0.198572511
MRB2	5/10/2018	4:30	0.126596163
MRB2	5/10/2018	4:35	0.076945022
MRB2	5/10/2018	4:40	0.049620153
MRB2	5/10/2018	4:45	0.030383961
MRB2	5/10/2018	4:50	0.015803719
MRB2	5/10/2018	4:55	0.005879589
MRB2	5/10/2018	5:00	0.000611664
MRB2	5/10/2018	5:05	0
MRB2	5/10/2018	5:10	0
MRB2	5/10/2018	5:15	0
MRB2	5/10/2018	5:20	0
MRB2	5/10/2018	5:25	0
MRB2	5/10/2018	5:30	0
MRB2	5/10/2018	5:35	0
MRB2	5/10/2018	5:40	0
MRB2	5/10/2018	5:45	0
MRB2	5/10/2018	5:50	0
MRB2	5/10/2018	5:55	0
MRB2	5/10/2018	6:00	0
MRB2	5/10/2018	6:05	0
MRB2	5/10/2018	6:10	0
MRB2	5/10/2018	6:15	0
MRB2	5/10/2018	6:20	0
MRB2	5/10/2018	6:25	0
MRB2	5/10/2018	6:30	0
MRB2	5/10/2018	6:35	0
MRB2	5/10/2018	6:40	0
MRB2	5/10/2018	6:45	0
MRB2	5/10/2018	6:50	0
MRB2	5/10/2018	6:55	0
MRB2	5/10/2018	7:00	0
MRB2	5/10/2018	7:05	0
MRB2	5/10/2018	7:10	0
MRB2	5/10/2018	7:15	0
MRB2	5/10/2018	7:20	0
MRB2	5/10/2018	7:25	0
MRB2	5/10/2018	7:30	0
MRB2	5/10/2018	7:35	0
MRB2	5/10/2018	7:40	0
MRB2	5/10/2018	7:45	0
MRB2	5/10/2018	7:50	0
MRB2	5/10/2018	7:55	0
MRB2	5/10/2018	8:00	0

MRB Ponding Areas

MRB2	5/10/2018	8:05	0
MRB2	5/10/2018	8:10	0
MRB2	5/10/2018	8:15	0
MRB2	5/10/2018	8:20	0
MRB2	5/10/2018	8:25	0
MRB2	5/10/2018	8:30	0
;			
MRB3	5/10/2018	0:00	0.00
MRB3	5/10/2018	0:05	0.00
MRB3	5/10/2018	0:10	0.00
MRB3	5/10/2018	0:15	0.06
MRB3	5/10/2018	0:20	0.46
MRB3	5/10/2018	0:25	8.24
MRB3	5/10/2018	0:30	50.59
MRB3	5/10/2018	0:35	103.17
MRB3	5/10/2018	0:40	134.29
MRB3	5/10/2018	0:45	148.50
MRB3	5/10/2018	0:50	151.86
MRB3	5/10/2018	0:55	147.31
MRB3	5/10/2018	1:00	142.21
MRB3	5/10/2018	1:05	137.19
MRB3	5/10/2018	1:10	129.10
MRB3	5/10/2018	1:15	119.13
MRB3	5/10/2018	1:20	109.23
MRB3	5/10/2018	1:25	99.17
MRB3	5/10/2018	1:30	89.51
MRB3	5/10/2018	1:35	80.53
MRB3	5/10/2018	1:40	71.84
MRB3	5/10/2018	1:45	63.49
MRB3	5/10/2018	1:50	55.73
MRB3	5/10/2018	1:55	49.90
MRB3	5/10/2018	2:00	45.22
MRB3	5/10/2018	2:05	41.06
MRB3	5/10/2018	2:10	37.24
MRB3	5/10/2018	2:15	33.70
MRB3	5/10/2018	2:20	30.38
MRB3	5/10/2018	2:25	27.29
MRB3	5/10/2018	2:30	24.42
MRB3	5/10/2018	2:35	21.62
MRB3	5/10/2018	2:40	18.88
MRB3	5/10/2018	2:45	16.15
MRB3	5/10/2018	2:50	13.43
MRB3	5/10/2018	2:55	10.71
MRB3	5/10/2018	3:00	8.00
MRB3	5/10/2018	3:05	5.46
MRB3	5/10/2018	3:10	3.70
MRB3	5/10/2018	3:15	2.56
MRB3	5/10/2018	3:20	1.76
MRB3	5/10/2018	3:25	1.18
MRB3	5/10/2018	3:30	0.76
MRB3	5/10/2018	3:35	0.45
MRB3	5/10/2018	3:40	0.25
MRB3	5/10/2018	3:45	0.16
MRB3	5/10/2018	3:50	0.11
MRB3	5/10/2018	3:55	0.08
MRB3	5/10/2018	4:00	0.06
MRB3	5/10/2018	4:05	0.05
MRB3	5/10/2018	4:10	0.04
MRB3	5/10/2018	4:15	0.02
MRB3	5/10/2018	4:20	0.01
MRB3	5/10/2018	4:25	0.01
MRB3	5/10/2018	4:30	0.00
MRB3	5/10/2018	4:35	0.00

MRB Ponding Areas

MRB3	5/10/2018	4:40	0.00
MRB3	5/10/2018	4:45	0.00
MRB3	5/10/2018	4:50	0.00
MRB3	5/10/2018	4:55	0.00
MRB3	5/10/2018	5:00	0.00
MRB3	5/10/2018	5:05	0.00
MRB3	5/10/2018	5:10	0.00
MRB3	5/10/2018	5:15	0.00
MRB3	5/10/2018	5:20	0.00
MRB3	5/10/2018	5:25	0.00
MRB3	5/10/2018	5:30	0.00
MRB3	5/10/2018	5:35	0.00
;			
MRB4	5/10/2018	0:00	0.00
MRB4	5/10/2018	0:05	0.00
MRB4	5/10/2018	0:10	0.00
MRB4	5/10/2018	0:15	0.06
MRB4	5/10/2018	0:20	0.55
MRB4	5/10/2018	0:25	9.12
MRB4	5/10/2018	0:30	60.48
MRB4	5/10/2018	0:35	156.06
MRB4	5/10/2018	0:40	256.46
MRB4	5/10/2018	0:45	335.25
MRB4	5/10/2018	0:50	384.02
MRB4	5/10/2018	0:55	409.69
MRB4	5/10/2018	1:00	417.94
MRB4	5/10/2018	1:05	412.68
MRB4	5/10/2018	1:10	398.45
MRB4	5/10/2018	1:15	381.83
MRB4	5/10/2018	1:20	361.17
MRB4	5/10/2018	1:25	336.67
MRB4	5/10/2018	1:30	310.85
MRB4	5/10/2018	1:35	287.02
MRB4	5/10/2018	1:40	265.94
MRB4	5/10/2018	1:45	246.88
MRB4	5/10/2018	1:50	229.39
MRB4	5/10/2018	1:55	212.76
MRB4	5/10/2018	2:00	196.79
MRB4	5/10/2018	2:05	181.18
MRB4	5/10/2018	2:10	165.88
MRB4	5/10/2018	2:15	150.70
MRB4	5/10/2018	2:20	135.94
MRB4	5/10/2018	2:25	123.35
MRB4	5/10/2018	2:30	113.53
MRB4	5/10/2018	2:35	105.18
MRB4	5/10/2018	2:40	97.73
MRB4	5/10/2018	2:45	90.94
MRB4	5/10/2018	2:50	84.64
MRB4	5/10/2018	2:55	78.74
MRB4	5/10/2018	3:00	73.25
MRB4	5/10/2018	3:05	68.02
MRB4	5/10/2018	3:10	62.88
MRB4	5/10/2018	3:15	57.79
MRB4	5/10/2018	3:20	52.71
MRB4	5/10/2018	3:25	47.64
MRB4	5/10/2018	3:30	42.58
MRB4	5/10/2018	3:35	37.52
MRB4	5/10/2018	3:40	32.47
MRB4	5/10/2018	3:45	27.43
MRB4	5/10/2018	3:50	22.40
MRB4	5/10/2018	3:55	17.39
MRB4	5/10/2018	4:00	12.49
MRB4	5/10/2018	4:05	8.31

MRB Ponding Areas

MRB4	5/10/2018	4:10	5.73
MRB4	5/10/2018	4:15	3.99
MRB4	5/10/2018	4:20	2.72
MRB4	5/10/2018	4:25	1.79
MRB4	5/10/2018	4:30	1.11
MRB4	5/10/2018	4:35	0.64
MRB4	5/10/2018	4:40	0.36
MRB4	5/10/2018	4:45	0.24
MRB4	5/10/2018	4:50	0.17
MRB4	5/10/2018	4:55	0.14
MRB4	5/10/2018	5:00	0.11
MRB4	5/10/2018	5:05	0.08
MRB4	5/10/2018	5:10	0.06
MRB4	5/10/2018	5:15	0.04
MRB4	5/10/2018	5:20	0.02
MRB4	5/10/2018	5:25	0.01
MRB4	5/10/2018	5:30	0.00
MRB4	5/10/2018	5:35	0.00
;			
MRB5	5/10/2018	0:00	0.00
MRB5	5/10/2018	0:05	0.00
MRB5	5/10/2018	0:10	0.00
MRB5	5/10/2018	0:15	0.06
MRB5	5/10/2018	0:20	0.40
MRB5	5/10/2018	0:25	5.51
MRB5	5/10/2018	0:30	32.84
MRB5	5/10/2018	0:35	72.84
MRB5	5/10/2018	0:40	102.78
MRB5	5/10/2018	0:45	118.82
MRB5	5/10/2018	0:50	127.07
MRB5	5/10/2018	0:55	129.56
MRB5	5/10/2018	1:00	127.72
MRB5	5/10/2018	1:05	124.61
MRB5	5/10/2018	1:10	120.54
MRB5	5/10/2018	1:15	114.84
MRB5	5/10/2018	1:20	115.79
MRB5	5/10/2018	1:25	158.98
MRB5	5/10/2018	1:30	247.10
MRB5	5/10/2018	1:35	340.84
MRB5	5/10/2018	1:40	413.57
MRB5	5/10/2018	1:45	456.70
MRB5	5/10/2018	1:50	476.98
MRB5	5/10/2018	1:55	480.03
MRB5	5/10/2018	2:00	469.71
MRB5	5/10/2018	2:05	450.49
MRB5	5/10/2018	2:10	428.87
MRB5	5/10/2018	2:15	403.45
MRB5	5/10/2018	2:20	375.25
MRB5	5/10/2018	2:25	346.43
MRB5	5/10/2018	2:30	319.96
MRB5	5/10/2018	2:35	296.51
MRB5	5/10/2018	2:40	275.26
MRB5	5/10/2018	2:45	255.74
MRB5	5/10/2018	2:50	237.20
MRB5	5/10/2018	2:55	219.46
MRB5	5/10/2018	3:00	202.13
MRB5	5/10/2018	3:05	185.13
MRB5	5/10/2018	3:10	168.27
MRB5	5/10/2018	3:15	151.83
MRB5	5/10/2018	3:20	137.56
MRB5	5/10/2018	3:25	126.06
MRB5	5/10/2018	3:30	116.04
MRB5	5/10/2018	3:35	106.92

MRB Ponding Areas

MRB5	5/10/2018	3:40	98.47
MRB5	5/10/2018	3:45	90.51
MRB5	5/10/2018	3:50	82.98
MRB5	5/10/2018	3:55	76.09
MRB5	5/10/2018	4:00	69.99
MRB5	5/10/2018	4:05	64.26
MRB5	5/10/2018	4:10	58.75
MRB5	5/10/2018	4:15	53.35
MRB5	5/10/2018	4:20	48.05
MRB5	5/10/2018	4:25	42.82
MRB5	5/10/2018	4:30	37.66
MRB5	5/10/2018	4:35	32.57
MRB5	5/10/2018	4:40	27.51
MRB5	5/10/2018	4:45	22.46
MRB5	5/10/2018	4:50	17.43
MRB5	5/10/2018	4:55	12.52
MRB5	5/10/2018	5:00	8.34
MRB5	5/10/2018	5:05	5.75
MRB5	5/10/2018	5:10	4.00
MRB5	5/10/2018	5:15	2.72
MRB5	5/10/2018	5:20	1.79
MRB5	5/10/2018	5:25	1.11
MRB5	5/10/2018	5:30	0.64
MRB5	5/10/2018	5:35	0.36
MRB5	5/10/2018	5:40	0.244947962
MRB5	5/10/2018	5:45	0.174252403
MRB5	5/10/2018	5:50	0.138598202
MRB5	5/10/2018	5:55	0.107013191
MRB5	5/10/2018	6:00	0.079500366
MRB5	5/10/2018	6:05	0.056061474
MRB5	5/10/2018	6:10	0.036697532
MRB5	5/10/2018	6:15	0.021409135
MRB5	5/10/2018	6:20	0.010196627
MRB5	5/10/2018	6:25	0.003060209
MRB5	5/10/2018	6:30	0
MRB5	5/10/2018	6:35	0
MRB5	5/10/2018	6:40	0
MRB5	5/10/2018	6:45	0
MRB5	5/10/2018	6:50	0
MRB5	5/10/2018	6:55	0
;			
MRB6	5/10/2018	0:00	0.00
MRB6	5/10/2018	0:05	0.00
MRB6	5/10/2018	0:10	0.00
MRB6	5/10/2018	0:15	0.06
MRB6	5/10/2018	0:20	0.40
MRB6	5/10/2018	0:25	5.51
MRB6	5/10/2018	0:30	32.84
MRB6	5/10/2018	0:35	72.84
MRB6	5/10/2018	0:40	102.78
MRB6	5/10/2018	0:45	118.82
MRB6	5/10/2018	0:50	127.07
MRB6	5/10/2018	0:55	129.56
MRB6	5/10/2018	1:00	127.72
MRB6	5/10/2018	1:05	124.61
MRB6	5/10/2018	1:10	120.48
MRB6	5/10/2018	1:15	114.29
MRB6	5/10/2018	1:20	106.67
MRB6	5/10/2018	1:25	98.51
MRB6	5/10/2018	1:30	91.04
MRB6	5/10/2018	1:35	84.38
MRB6	5/10/2018	1:40	78.32
MRB6	5/10/2018	1:45	72.68

MRB Ponding Areas

MRB6	5/10/2018	1:50	67.29
MRB6	5/10/2018	1:55	62.09
MRB6	5/10/2018	2:00	57.03
MRB6	5/10/2018	2:05	52.04
MRB6	5/10/2018	2:10	47.04
MRB6	5/10/2018	2:15	42.27
MRB6	5/10/2018	2:20	38.58
MRB6	5/10/2018	2:25	35.58
MRB6	5/10/2018	2:30	32.94
MRB6	5/10/2018	2:35	30.57
MRB6	5/10/2018	2:40	28.39
MRB6	5/10/2018	2:45	26.35
MRB6	5/10/2018	2:50	24.44
MRB6	5/10/2018	2:55	22.67
MRB6	5/10/2018	3:00	20.95
MRB6	5/10/2018	3:05	19.26
MRB6	5/10/2018	3:10	17.57
MRB6	5/10/2018	3:15	15.89
MRB6	5/10/2018	3:20	14.21
MRB6	5/10/2018	3:25	12.53
MRB6	5/10/2018	3:30	10.86
MRB6	5/10/2018	3:35	9.19
MRB6	5/10/2018	3:40	7.53
MRB6	5/10/2018	3:45	5.87
MRB6	5/10/2018	3:50	4.25
MRB6	5/10/2018	3:55	2.84
MRB6	5/10/2018	4:00	1.97
MRB6	5/10/2018	4:05	1.38
MRB6	5/10/2018	4:10	0.95
MRB6	5/10/2018	4:15	0.64
MRB6	5/10/2018	4:20	0.41
MRB6	5/10/2018	4:25	0.24
MRB6	5/10/2018	4:30	0.14
MRB6	5/10/2018	4:35	0.10
MRB6	5/10/2018	4:40	0.07
MRB6	5/10/2018	4:45	0.06
MRB6	5/10/2018	4:50	0.05
MRB6	5/10/2018	4:55	0.03
MRB6	5/10/2018	5:00	0.02
MRB6	5/10/2018	5:05	0.02
MRB6	5/10/2018	5:10	0.01
MRB6	5/10/2018	5:15	0.00
MRB6	5/10/2018	5:20	0.00
MRB6	5/10/2018	5:25	0.00
MRB6	5/10/2018	5:30	0.00
MRB6	5/10/2018	5:35	0.00
;			
MRB7	5/10/2018	0:00	0.00
MRB7	5/10/2018	0:05	0.00
MRB7	5/10/2018	0:10	0.01
MRB7	5/10/2018	0:15	0.18
MRB7	5/10/2018	0:20	4.75
MRB7	5/10/2018	0:25	29.85
MRB7	5/10/2018	0:30	52.24
MRB7	5/10/2018	0:35	62.77
MRB7	5/10/2018	0:40	66.73
MRB7	5/10/2018	0:45	66.43
MRB7	5/10/2018	0:50	64.16
MRB7	5/10/2018	0:55	61.71
MRB7	5/10/2018	1:00	59.27
MRB7	5/10/2018	1:05	55.04
MRB7	5/10/2018	1:10	50.65
MRB7	5/10/2018	1:15	46.07

MRB Ponding Areas

MRB7	5/10/2018	1:20	41.46
MRB7	5/10/2018	1:25	37.12
MRB7	5/10/2018	1:30	32.97
MRB7	5/10/2018	1:35	28.97
MRB7	5/10/2018	1:40	25.26
MRB7	5/10/2018	1:45	22.49
MRB7	5/10/2018	1:50	20.28
MRB7	5/10/2018	1:55	18.35
MRB7	5/10/2018	2:00	16.57
MRB7	5/10/2018	2:05	14.92
MRB7	5/10/2018	2:10	13.38
MRB7	5/10/2018	2:15	11.94
MRB7	5/10/2018	2:20	10.60
MRB7	5/10/2018	2:25	9.29
MRB7	5/10/2018	2:30	8.01
MRB7	5/10/2018	2:35	6.73
MRB7	5/10/2018	2:40	5.45
MRB7	5/10/2018	2:45	4.17
MRB7	5/10/2018	2:50	2.94
MRB7	5/10/2018	2:55	1.95
MRB7	5/10/2018	3:00	1.33
MRB7	5/10/2018	3:05	0.91
MRB7	5/10/2018	3:10	0.61
MRB7	5/10/2018	3:15	0.39
MRB7	5/10/2018	3:20	0.23
MRB7	5/10/2018	3:25	0.12
MRB7	5/10/2018	3:30	0.06
MRB7	5/10/2018	3:35	0.04
MRB7	5/10/2018	3:40	0.03
MRB7	5/10/2018	3:45	0.02
MRB7	5/10/2018	3:50	0.02
MRB7	5/10/2018	3:55	0.01
MRB7	5/10/2018	4:00	0.01
MRB7	5/10/2018	4:05	0.01
MRB7	5/10/2018	4:10	0.00

[REPORT]
 ;;Reporting Options
 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
MRB6	1810.842	7104.960
MRB5_0	1926.182	8143.022
MRB4_0	2381.998	4588.364
MRB6_0	2018.454	6828.143
MRB5	1349.481	8673.587
MRB1	784.314	3737.024
MRB2	810.093	3253.652
MRB2-2	1394.422	2602.922
MRB3	823.373	1992.032
MRB4	1844.127	4873.765

MRB7	-11.534	MRB Ponding Areas 5536.332
[VERTICES]		
::Link	X-Coord	Y-Coord
::	-----	-----

MRB Ponding Areas

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Flow Routing Method KINWAVE
Starting Date 05/10/2018 00:00:00
Ending Date 05/12/2018 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:00:05
Routing Time Step 5.00 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	256.643	83.631
External Outflow	79.168	25.798
Flooding Loss	70.045	22.825
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	107.402	34.999
Continuity Error (%)	0.011	

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step : 5.00 sec
Average Time Step : 5.00 sec
Maximum Time Step : 5.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 1.01
Percent Not Converging : 0.00

MRB Ponding Areas

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
MRB6	JUNCTION	0.13	2.33	67.21	0 00:28	2.33
MRB5_0	OUTFALL	0.13	3.27	37.27	0 01:55	3.27
MRB4_0	OUTFALL	0.17	1.83	4965.72	0 05:59	1.83
MRB6_0	OUTFALL	0.13	2.33	66.33	0 00:29	2.33
MRB5	STORAGE	0.13	3.27	38.27	0 01:55	3.27
MRB1	STORAGE	1.37	1.39	32.39	0 03:46	1.39
MRB2	STORAGE	4.39	4.98	5005.98	0 02:42	4.98
MRB2-2	STORAGE	6.22	6.45	4975.45	2 06:00	6.45
MRB3	STORAGE	8.89	9.00	84.00	0 01:11	9.00
MRB4	STORAGE	0.40	4.21	4969.00	0 00:41	4.21
MRB7	STORAGE	2.97	3.00	68.00	0 00:51	3.00

Node Inflow Summary

Total Inflow Volume Node gal	Flow Balance Error Percent	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal
5.21	0.000	JUNCTION	129.56	129.56	0 00:55	5.21
22.2	0.000	OUTFALL	0.00	479.94	0 01:55	0
1.6	0.000	OUTFALL	0.00	11.39	0 05:59	0
1.98	0.000	OUTFALL	0.00	26.18	0 00:29	0
22.2	0.044	STORAGE	480.03	480.03	0 01:55	22.2
6.17	-0.000	STORAGE	240.42	240.42	0 00:45	6.17
12.9	-0.000	STORAGE	388.46	388.46	0 01:30	12.9
15.9	0.000	STORAGE	388.46	388.46	0 01:30	12.9
5.02	0.000	STORAGE	151.86	151.86	0 00:50	5.02
17	0.003	STORAGE	417.94	417.94	0 01:00	17
		STORAGE	66.73	66.73	0 00:40	2.15

MRB Ponding Areas

2.15 0.000

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 Poned Volume 1000 ft3
MRB6	2.37	105.22	0 00:55	3.228	0.000
MRB3	3.37	132.40	0 01:08	2.701	0.000
MRB4	3.41	407.36	0 01:00	15.401	0.000
MRB7	3.36	64.97	0 00:48	1.493	0.000

Storage Volume Summary

of Max Occurrence Storage hr:min	Maximum Outflow Unit CFS	Average Volume 1000 ft3	Avg Pc Full	Evap Loss	Exfil Loss	Maximum Volume 1000 ft3	Max Pc Full	Time days
MRB5 01:55	479.95	0.047	0	0	0	2.188	0	0
MRB1 03:45	0.00	808.393	24	0	0	825.150	24	0
MRB2 02:42	87.23	1298.782	86	0	0	1496.452	99	0
MRB2-2 06:00	0.00	2046.487	54	0	0	2126.527	56	2
MRB3 01:08	0.00	305.039	98	0	0	309.775	100	0
MRB4 00:38	10.53	5.805	8	0	0	68.530	100	0
MRB7 00:48	0.00	86.396	99	0	0	87.383	100	0

Outfall Loading Summary

Outfall Node	Flow Freq Pc	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
MRB5_O	11.75	129.96	479.94	22.208
MRB4_O	11.31	9.75	11.39	1.604

		MRB Ponding Areas		
MRB6_0	9.42	14.48	26.18	1.985
System	10.83	154.19	514.80	25.796

 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
MRB5	CONDUIT	479.94	0 01:55	20.95	0.56	0.55
MRB4	CONDUIT	11.39	0 05:59	3.94	1.08	0.93
MRB6	CONDUIT	26.18	0 00:29	6.65	1.08	1.00
MRB2	WEIR	87.23	0 02:42			0.00

 Conduit Surcharge Summary

Conduit	----- Both Ends	Hours Full Upstream	----- Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
MRB4	5.54	5.54	5.54	5.54	5.54
MRB6	2.36	2.36	2.36	2.37	2.36

Analysis begun on: Tue Nov 13 14:04:50 2018
 Analysis ended on: Tue Nov 13 14:04:50 2018
 Total elapsed time: < 1 sec

DIAMOND RESERVOIR BASIN CALCULATIONS



JVA Incorporated
 213 Linden Street Suite 200
 Fort Collins, CO 80524
 Ph: (970) 225 9099

Job Name: Town of Mead - Drainage Master Plan Update
 Job Number: 1970.76c
 Date: 11/13/18
 By: LAT

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_{A2} = 0.84i^{0.302}$	$C_{A5} = 0.86i^{0.276}$	$C_{A10} = 0.87i^{0.232}$	$C_{A25} = 0.84i^{0.124}$	$C_{A50} = 0.85i+0.025$	$C_{A100} = 0.78i+0.110$	$C_{A500} = 0.65i+0.254$
B	$C_{B2} = 0.84i^{0.169}$	$C_{B5} = 0.86i^{0.088}$	$C_{B10} = 0.81i+0.057$	$C_{B25} = 0.63i+0.249$	$C_{B50} = 0.56i+0.328$	$C_{B100} = 0.47i+0.426$	$C_{B500} = 0.37i+0.536$
C/D	$C_{C/D2} = 0.83i^{0.122}$	$C_{C/D5} = 0.82i+0.035$	$C_{C/D10} = 0.74i+0.132$	$C_{C/D25} = 0.56i+0.319$	$C_{C/D50} = 0.49i+0.393$	$C_{C/D100} = 0.41i+0.484$	$C_{C/D500} = 0.32i+0.588$

Town of Mead - Drainage Master Plan Update

Composite Runoff Coefficient Calculations Diamond Reservoir Basin

Location:	Mead
Minor Design Storm:	10
Major Design Storm:	100
Soil Type:	C/D

Basin Design Data																				Runoff Coeff's					
Basin Name	Design Point	100%	90%	40%	90%	95%	85%	90%	50%	55%	50%	45%	30%	20%	10%	2%	2%	100%		I (%)	Runoff Coeff's				
		A _{Paved} (sf)	A _{Drive/Walks Concrete} (sf)	A _{Gravel} (sf)	A _{Roof} (sf)	A _{Business Commercial} (sf)	A _{Business Neighborhood} (sf)	A _{Industrial Heavy} (sf)	A _{Railroad yard} (sf)	A _{School} (sf)	A _{Ag Bldg/Residential} (sf)	A _{Single family (<.25 acre lot only)} (sf)	A _{Single family (.25-.75 acre lot only)} (sf)	A _{Single family (>.75 acre lot only)} (sf)	A _{Parks/Cemetary} (sf)	A _{Lawns} (sf)	A _{Ag/Green Belt} (sf)	A _{Water} (sf)	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	C2	C5	C10	C100
DRB1	111	24,284		40,040							81,417						1,381,450	369,493	1,896,684	43.54	25.2%	0.18	0.24	0.32	0.59
DRB2	112			54,451							32,434						1,005,245		1,092,130	25.07	5.3%	0.03	0.08	0.17	0.51
DRB3	113			81,288							245,968						1,027,004		1,354,260	31.09	13.0%	0.08	0.14	0.23	0.54
DRB4	114	446,926	41,527	675,677							907,492		76,477				19,603,485	183,326	21,934,910	503.56	8.2%	0.05	0.10	0.19	0.52
DRB5	115			29,670							44,772						204,921		279,363	6.41	13.7%	0.09	0.15	0.23	0.54
DRB6	116			82,892							51,487						668,408		802,787	18.43	9.0%	0.06	0.11	0.20	0.52
DRB7	117			128,388													3,537,609		3,665,997	84.16	3.3%	0.02	0.06	0.16	0.50
DRB8	118			180,082							73,068						2,036,195		2,289,345	52.56	6.5%	0.04	0.09	0.18	0.51
DRB9	119			216,037							27,135		70,968				4,903,400		5,217,540	119.78	4.1%	0.02	0.07	0.16	0.50
DRB10	120	159,772		219,604							3,359,967			95,195			21,580,095		25,414,633	583.44	9.4%	0.06	0.11	0.20	0.52
DRB11	121	36,718		15,016							23,943						456,201		531,878	12.21	12.0%	0.08	0.13	0.22	0.53
DRB12	122	36,421		35,251							147,217						1,398,670	350,047	1,967,606	45.17	25.5%	0.18	0.24	0.32	0.59
DRB13	123	45,545		136,481							225,732						4,627,803		5,035,561	115.60	6.1%	0.04	0.08	0.18	0.51
DRB14	124	101,629		626,759							391,221						6,678,773		7,798,382	179.03	8.7%	0.05	0.11	0.20	0.52
DRB15	125	47,505		70,263							42,445						5,108,542		5,268,755	120.95	3.8%	0.02	0.07	0.16	0.50
DRB16	126	26,942		335,850							466,334						7,792,345		8,621,471	197.92	6.4%	0.04	0.09	0.18	0.51
DRB17	127	105,935		789,965							1,704,749						40,566,075	882,758	44,049,482	1011.24	6.7%	0.04	0.09	0.18	0.51
DRB18	170	37,427		618,033							386,774						10,805,857		11,848,091	271.99	5.9%	0.03	0.08	0.18	0.51
DRB19	128	88,103		310,555							439,329		1,610,509	125,313			1,893,905	936,072	5,403,786	124.05	32.2%	0.23	0.30	0.37	0.62
DRB20	129	42,537		225,617							61,487						9,417,572		9,747,213	223.77	3.6%	0.02	0.06	0.16	0.50
DRB21	130	16,265		172,821													4,837,497		5,026,583	115.39	3.6%	0.02	0.06	0.16	0.50
DRB22	131	600,414		170,461							264,222						2,545,705		3,580,802	82.20	23.8%	0.17	0.23	0.31	0.58
DRB23	132	51,494		1,094							126,558						3,314		182,460	4.19	63.2%	0.50	0.55	0.60	0.74
TOTAL SITE		1,867,917	41,527	5,216,295	0	0	0	0	0	0	9,103,751	0	0	1,853,149	125,313	0	152,080,071	2,721,696	173,009,719	3971.76	8.5%	0.05	0.10	0.19	0.52

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
DRB1	111	100yr	0.0680342	0.139015152	0.3579545	0.018698413	25.20875908	0.4	0.1	3	0.0018	0.5	0
DRB2	112	100yr	0.0391748	0.309090909	0.4323864	0.013118703	5.320090099	0.4	0.1	3	0.0018	0.5	0
DRB3	113	100yr	0.0485774	0.213825758	0.5515152	0.020611264	12.99892783	0.4	0.1	3	0.0018	0.5	0
DRB4	114	100yr	0.7868066	0.945643939	1.761553	0.021955704	8.201575479	0.4	0.1	3	0.0018	0.5	0
DRB5	115	100yr	0.0100208	0.098863636	0.1780303	0.035148936	13.72852525	0.4	0.1	3	0.0018	0.5	0
DRB6	116	100yr	0.028796	0.128977273	0.4530303	0.020894649	9.002196099	0.4	0.1	3	0.0018	0.5	0
DRB7	117	100yr	0.1314995	0.356818182	0.7948864	0.023421492	3.3308096	0.4	0.1	3	0.0018	0.5	0
DRB8	118	100yr	0.082119	0.36875	0.755303	0.02077984	6.52110975	0.4	0.1	3	0.0018	0.5	0
DRB9	119	100yr	0.1871535	0.628219697	1.0482955	0.010420958	4.067892148	0.4	0.1	3	0.0018	0.5	0
DRB10	120	100yr	0.9116245	0.621780303	1.5660985	0.011696699	9.35775071	0.4	0.1	3	0.0018	0.5	0
DRB11	121	100yr	0.0190785	0.150378788	0.2670455	0.014184397	11.99897721	0.4	0.1	3	0.0018	0.5	0
DRB12	122	100yr	0.0705782	0.056818182	0.3585227	0.018547279	25.52087664	0.4	0.1	3	0.0018	0.5	0
DRB13	123	100yr	0.1806259	0.315909091	0.7952652	0.007292212	6.068032142	0.4	0.1	3	0.0018	0.5	0
DRB14	124	100yr	0.2797285	0.502840909	0.9022727	0.018052057	8.739230266	0.4	0.1	3	0.0018	0.5	0
DRB15	125	100yr	0.1889906	0.375568182	0.6405303	0.013305736	3.777050556	0.4	0.1	3	0.0018	0.5	0
DRB16	126	100yr	0.3092527	0.255492424	0.6049242	0.008159048	6.382853924	0.4	0.1	3	0.0018	0.5	0
DRB17	127	100yr	1.5800578	0.698295455	2.0270833	0.00803513	6.738728505	0.4	0.1	3	0.0018	0.5	0
DRB18	170	100yr	0.4249918	0.712689394	1.7179924	0.009820306	5.858701963	0.4	0.1	3	0.0018	0.5	0
DRB19	128	100yr	0.1851328	0.2375	0.6704545	0.002624672	32.80801797	0.35	0.1	3	0.0018	0.5	0
DRB20	129	100yr	0.3496332	0.646969697	1.4058712	0.006667116	3.610044635	0.4	0.1	3	0.0018	0.5	0
DRB21	130	100yr	0.1803039	0.145265152	0.6734848	0.016338583	3.62360156	0.4	0.1	3	0.0018	0.5	0
DRB22	131	100yr	0.1284436	0.214583333	0.4410985	0.023623873	23.78303799	0.35	0.1	3	0.0018	0.5	0
DRB23	132	100yr	0.0065449	0.032007576	0.1619318	0.032035088	63.17926121	0.4	0.1	3	0.0018	0.5	0

DIAMOND RESERVOIR BASIN

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in./hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
DRB1	111	100YR	0.068	0.139	0.358	0.019	25.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.50	0.15	24.05
DRB2	112	100YR	0.039	0.309	0.432	0.013	5.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.11	0.05	4.85
DRB3	113	100YR	0.049	0.214	0.552	0.021	13.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.26	0.11	12.07
DRB4	114	100YR	0.787	0.946	1.762	0.022	8.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.16	0.08	7.51
DRB5	115	100YR	0.010	0.099	0.178	0.035	13.7	0.40	0.10	3.00	0.50	0.0018	0.00	0.27	0.11	12.78
DRB6	116	100YR	0.029	0.129	0.453	0.021	9.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.18	0.09	8.26
DRB7	117	100YR	0.131	0.357	0.795	0.023	3.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.07	0.03	3.02
DRB8	118	100YR	0.082	0.369	0.755	0.021	6.5	0.40	0.10	3.00	0.50	0.0018	0.00	0.13	0.07	5.95
DRB9	119	100YR	0.187	0.628	1.048	0.010	4.1	0.40	0.10	3.00	0.50	0.0018	0.00	0.08	0.04	3.70
DRB10	120	100YR	0.912	0.622	1.566	0.012	9.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.19	0.09	8.59
DRB11	121	100YR	0.019	0.150	0.267	0.014	12.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.24	0.11	11.11
DRB12	122	100YR	0.071	0.057	0.359	0.019	25.5	0.40	0.10	3.00	0.50	0.0018	0.00	0.51	0.15	24.36
DRB13	123	100YR	0.181	0.316	0.795	0.007	6.1	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.54
DRB14	124	100YR	0.280	0.503	0.902	0.018	8.7	0.40	0.10	3.00	0.50	0.0018	0.00	0.17	0.09	8.01
DRB15	125	100YR	0.189	0.376	0.641	0.013	3.8	0.40	0.10	3.00	0.50	0.0018	0.00	0.08	0.04	3.43
DRB16	126	100YR	0.309	0.255	0.605	0.008	6.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.13	0.06	5.83
DRB17	127	100YR	1.580	0.698	2.027	0.008	6.7	0.40	0.10	3.00	0.50	0.0018	0.00	0.13	0.07	6.16
DRB18	170	100YR	0.425	0.713	1.718	0.010	5.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.34
DRB19	128	100YR	0.185	0.238	0.670	0.003	32.8	0.35	0.10	3.00	0.50	0.0018	0.00	0.66	0.18	31.69
DRB20	129	100YR	0.350	0.647	1.406	0.007	3.6	0.40	0.10	3.00	0.50	0.0018	0.00	0.07	0.04	3.28
DRB21	130	100YR	0.180	0.145	0.673	0.016	3.6	0.40	0.10	3.00	0.50	0.0018	0.00	0.07	0.04	3.29
DRB22	131	100YR	0.128	0.215	0.441	0.024	23.8	0.35	0.10	3.00	0.50	0.0018	0.00	0.48	0.15	22.63
DRB23	132	100YR	0.007	0.032	0.162	0.032	63.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.91	0.28	62.48

DIAMOND RESERVOIR BASIN

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
DRB1		0.105	0.108	28.1	3.84	14.6	2.71	6.4	73	158,057	2.03	320,409	40.0	91	319,206	2.09
DRB2		0.145	0.102	72.1	7.12	37.5	5.03	11.9	16	91,011	1.79	162,704	60.0	24	162,705	0.97
DRB3		0.122	0.097	53.6	5.51	27.9	3.89	9.2	27	112,855	1.88	211,994	50.0	39	211,850	1.25
DRB4		0.135	0.293	68.9	17.04	35.9	12.04	28.4	342	1,827,909	1.82	3,328,883	65.0	535	3,328,540	1.06
DRB5		0.121	0.048	38.3	2.90	19.9	2.05	4.8	8	23,280	1.89	43,938	45.0	10	43,523	1.58
DRB6		0.132	0.082	49.2	4.59	25.6	3.24	7.6	18	66,899	1.83	122,455	50.0	24	122,211	1.31
DRB7		0.152	0.183	52.4	8.85	27.2	6.25	14.7	75	305,500	1.76	539,141	55.0	105	538,732	1.25
DRB8		0.141	0.138	65.6	8.46	34.1	5.98	14.1	38	190,779	1.80	343,716	60.0	55	343,564	1.06
DRB9		0.149	0.211	81.3	14.65	42.3	10.35	24.4	69	434,795	1.77	771,015	70.0	108	770,889	0.91
DRB10		0.131	0.299	59.0	15.06	30.7	10.64	25.1	463	2,117,886	1.83	3,885,446	60.0	701	3,882,819	1.20
DRB11		0.124	0.064	53.5	4.15	27.8	2.93	6.9	11	44,323	1.87	82,721	50.0	15	82,582	1.24
DRB12		0.105	0.110	18.0	3.02	9.3	2.13	5.0	118	163,967	2.03	333,015	35.0	127	327,703	2.81
DRB13		0.142	0.199	56.4	10.11	29.3	7.14	16.8	96	419,630	1.80	753,823	55.0	139	753,554	1.20
DRB14		0.133	0.213	52.7	10.11	27.4	7.14	16.8	159	649,865	1.83	1,187,558	55.0	229	1,187,146	1.28
DRB15		0.150	0.210	47.7	9.20	24.8	6.50	15.3	119	439,063	1.77	777,110	50.0	162	776,744	1.34
DRB16		0.141	0.231	37.2	8.09	19.3	5.71	13.5	250	718,456	1.80	1,293,253	50.0	323	1,292,422	1.63
DRB17		0.140	0.373	66.2	20.47	34.4	14.47	34.1	716	3,670,790	1.80	6,622,724	70.0	1,125	6,620,188	1.11
DRB18		0.143	0.257	87.4	18.73	45.5	13.24	31.2	146	987,341	1.79	1,771,267	75.0	236	1,771,165	0.87
DRB19		0.098	0.197	40.2	7.59	20.9	5.36	12.6	138	430,101	2.15	926,417	50.0	205	925,928	1.73
DRB20		0.151	0.254	88.6	18.77	46.1	13.26	31.3	118	812,268	1.77	1,436,092	75.0	190	1,435,932	0.85
DRB21		0.151	0.209	29.7	6.27	15.5	4.43	10.5	182	418,882	1.77	740,650	45.0	218	740,633	1.89
DRB22		0.107	0.144	27.6	4.55	14.3	3.22	7.6	140	298,400	2.05	611,091	40.0	178	608,686	2.16
DRB23		0.083	0.062	11.4	2.04	5.9	1.44	3.4	17	15,205	2.50	37,955	35.0	16	35,500	3.87

DRB ROUTING CALCULATIONS

DIAMOND RESERVOIR BASIN

END Basin DRB2

End Node	Upstream Nodes
DRB2	DRB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB2	60	0
DRB1	40	60

END Basin DRB3

End Node	Upstream Nodes	
DRB3	DRB2	DRB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB3	50	0
DRB2	60	50
DRB1	40	110

END Basin DRB4

End Node	Upstream Nodes		
DRB4	DRB3	DRB2	DRB1
DRB4	NI25B3		

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB4	65	0
DRB3	50	65
DRB2	60	115
DRB1	40	175
NI25B3	45	65

END Basin DRB5

End Node	Upstream Nodes			
DRB5	DRB4	DRB3	DRB2	DRB1
DRB5	DRB4	NI25B3		

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB5	45	0
DRB4	65	45
DRB3	50	110
DRB2	60	160
DRB1	40	220
NI25B3	45	110

END Basin DRB6

End Node	Upstream Nodes				
DRB6	DRB5	DRB4	DRB3	DRB2	DRB1
DRB6	DRB5	DRB4	NI25B3		

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB6	50	0
DRB5	45	50
DRB4	65	95
DRB3	50	160
DRB2	60	210
DRB1	40	270
NI25B3	45	160

END Basin DRB8

End Node	Upstream Nodes
DRB8	DRB7

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB8	60	0
DRB7	55	60

DIAMOND RESERVOIR BASIN

END Basin DRB10

End Node	Upstream Nodes					
DRB10	DRB6	DRB5	DRB4	DRB3	DRB2	DRB1
DRB10	DRB6	DRB5	DRB4	NI25B3		
DRB10	DRB8	DRB7				
DRB10	DRB9					

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB10	60	0
DRB9	70	60
DRB8	60	60
DRB7	55	120
DRB6	50	60
DRB5	45	110
DRB4	65	155
DRB3	50	220
DRB2	60	270
DRB1	40	330
NI25B3	45	220

END Basin DRB11

End Node	Upstream Nodes						
DRB11	DRB10	DRB6	DRB5	DRB4	DRB3	DRB2	DRB1
DRB11	DRB10	DRB6	DRB5	DRB4	NI25B3		
DRB11	DRB10	DRB8	DRB7				
DRB11	DRB10	DRB9					

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB11	50	0
DRB10	60	50
DRB9	70	110
DRB8	60	110
DRB7	55	170
DRB6	50	110
DRB5	45	160
DRB4	65	205
DRB3	50	270
DRB2	60	320
DRB1	40	380
NI25B3	45	270

END Basin DRB12

End Node	Upstream Nodes							
DRB12	DRB11	DRB10	DRB6	DRB5	DRB4	DRB3	DRB2	DRB1
DRB12	DRB11	DRB10	DRB6	DRB5	DRB4	NI25B3		
DRB12	DRB11	DRB10	DRB8	DRB7				
DRB12	DRB11	DRB10	DRB9					

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB12	35	0
DRB11	50	35
DRB10	60	85
DRB9	70	145
DRB8	60	145
DRB7	55	205
DRB6	50	145
DRB5	45	195
DRB4	65	240
DRB3	50	305
DRB2	60	355
DRB1	40	415
NI25B3	45	305

DIAMOND RESERVOIR BASIN

END Basin DRB14

End Node	Upstream Nodes
DRB14	DRB15

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB14	55	0
DRB15	50	55

END Basin DRB16

End Node	Upstream Nodes	
DRB16	DRB19	DRB18

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB16	50	0
DRB19	50	50
DRB18	75	100

END Basin DRB17

End Node	Upstream Nodes								
DRB17	DRB16	DRB19	DRB18						
DRB17	DRB14	DRB15							
DRB17	DRB13								
DRB17	DRB12	DRB11	DRB10	DRB6	DRB5	DRB4	DRB3	DRB2	DRB1
DRB17	DRB12	DRB11	DRB10	DRB6	DRB5	DRB4	NI25B3		
DRB17	DRB12	DRB11	DRB10	DRB8	DRB7				
DRB17	DRB12	DRB11	DRB10	DRB9					

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB17	70	0
DRB16	50	70
DRB19	50	120
DRB18	75	170
DRB14	55	70
DRB15	50	125
DRB13	55	70
DRB12	35	70
DRB11	50	105
DRB10	60	155
DRB9	70	215
DRB8	60	215
DRB7	55	275
DRB6	50	215
DRB5	45	265
DRB4	65	310
DRB3	50	375
DRB2	60	425
DRB1	40	485
NI25B3	45	375

DIAMOND RESERVOIR BASIN

END Basin DRB19

End Node	Upstream Nodes
DRB19	DRB18

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB19	50	0
DRB18	75	50

END Basin DRB21

End Node	Upstream Nodes
DRB21	DRB20

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB21	45	0
DRB20	75	45

END Basin DRB22

End Node	Upstream Nodes									
DRB22	DRB21	DRB20								
DRB22	DRB17	DRB16	DRB19	DRB18						
DRB22	DRB17	DRB14	DRB15							
DRB22	DRB17	DRB13								
DRB22	DRB17	DRB12	DRB11	DRB10	DRB6	DRB5	DRB4	DRB3	DRB2	DRB1
DRB22	DRB17	DRB12	DRB11	DRB10	DRB6	DRB5	DRB4	NI25B3		
DRB22	DRB17	DRB12	DRB11	DRB10	DRB8	DRB7				
DRB22	DRB17	DRB12	DRB11	DRB10	DRB9					

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
DRB22	40	0
DRB21	45	40
DRB20	75	85
DRB17	70	40
DRB16	50	110
DRB19	50	160
DRB18	75	210
DRB14	55	110
DRB15	50	165
DRB13	55	110
DRB12	35	110
DRB11	50	145
DRB10	60	195
DRB9	70	255
DRB8	60	255
DRB7	55	315
DRB6	50	255
DRB5	45	305
DRB4	65	350
DRB3	50	415
DRB2	60	465
DRB1	40	525
NI25B3	45	415

time in minutes	DRB2	DRB1	Total to DRB2	max
0	0.00		0.00	
5	0.00		0.00	
10	0.00		0.00	
15	0.01		0.01	
20	0.06		0.06	
25	1.26		1.26	
30	7.80		7.80	
35	15.37		15.37	
40	19.63		19.63	
45	22.01		22.01	
50	23.44		23.44	
55	24.14		24.14	
60	24.34	0.00	24.34	
65	24.26	0.00	24.26	
70	23.52	0.09	23.61	
75	22.56	1.14	23.70	
80	21.49	4.13	25.62	
85	20.33	17.56	37.90	
90	19.17	61.53	80.70	
95	18.01	85.02	103.03	
100	16.88	90.99	107.86	
105	15.88	89.09	104.97	
110	15.02	84.83	99.85	
115	14.23	78.81	93.05	
120	13.49	73.94	87.43	
125	12.76	69.82	82.58	
130	12.04	62.18	74.22	
135	11.34	54.33	65.67	
140	10.65	46.03	56.68	
145	9.98	39.56	49.54	
150	9.31	34.45	43.76	
155	8.64	30.22	38.85	
160	7.97	26.45	34.42	
165	7.32	23.02	30.33	
170	6.77	19.80	26.57	
175	6.34	16.78	23.12	
180	5.97	13.97	19.94	
185	5.64	10.80	16.44	
190	5.34	7.86	13.20	
195	5.07	5.69	10.75	
200	4.81	4.22	9.03	
205	4.57	3.14	7.71	
210	4.34	2.32	6.66	
215	4.11	1.69	5.80	
220	3.89	1.21	5.09	
225	3.66	0.86	4.52	
230	3.44	0.64	4.07	
235	3.21	0.50	3.71	
240	2.99	0.39	3.38	
245	2.77	0.31	3.08	
250	2.54	0.24	2.78	
255	2.32	0.17	2.49	
260	2.10	0.12	2.22	
265	1.88	0.07	1.95	
270	1.66	0.04	1.70	
275	1.43	0.02	1.45	
280	1.21	0.00	1.21	
285	0.99	0.00	0.99	
290	0.77	0.00	0.77	
295	0.55	0.00	0.55	
300	0.37	0.00	0.37	
305	0.25	0.00	0.25	
310	0.17	0.00	0.17	
315	0.12	0.00	0.12	
320	0.08	0.00	0.08	
325	0.05	0.00	0.05	
330	0.03	0.00	0.03	
335	0.01	0.00	0.01	
340	0.01	0.00	0.01	
345	0.01	0.00	0.01	
350	0.01	0.00	0.01	
355	0.00	0.00	0.00	

time in minutes	DRB3	DRB2	DRB1	Total to DRB3	imax
0	0.00			0.00	118
5	0.00			0.00	
10	0.01			0.01	
15	0.09			0.09	
20	0.47			0.47	
25	3.76			3.76	
30	17.54			17.54	
35	29.14			29.14	
40	34.89			34.89	
45	37.80			37.80	
50	38.97	0.00		38.97	
55	38.62	0.00		38.62	
60	37.75	0.00		37.75	
65	37.11	0.01		37.12	
70	35.45	0.06		35.51	
75	33.33	1.26		34.59	
80	30.93	7.80		38.73	
85	28.63	15.37		43.99	
90	26.58	19.63		46.22	
95	24.72	22.01		46.72	
100	22.98	23.44		46.43	
105	21.32	24.14		45.46	
110	19.71	24.34	0.00	44.06	
115	18.15	24.26	0.00	42.40	
120	16.62	23.52	0.09	40.23	
125	15.05	22.56	1.14	38.75	
130	13.54	21.49	4.13	39.16	
135	12.34	20.33	17.56	50.24	
140	11.37	19.17	61.53	92.06	
145	10.51	18.01	85.02	113.54	
150	9.74	16.88	90.99	117.61	
155	9.04	15.88	89.09	114.00	
160	8.38	15.02	84.83	108.23	
165	7.76	14.23	78.81	100.81	
170	7.19	13.49	73.94	94.61	
175	6.63	12.76	69.82	89.21	
180	6.09	12.04	62.18	80.31	
185	5.55	11.34	54.33	71.23	
190	5.02	10.65	46.03	61.70	
195	4.48	9.98	39.56	54.02	
200	3.95	9.31	34.45	47.70	
205	3.42	8.64	30.22	42.27	
210	2.89	7.97	26.45	37.30	
215	2.36	7.32	23.02	32.69	
220	1.83	6.77	19.80	28.40	
225	1.33	6.34	16.78	24.45	
230	0.91	5.97	13.97	20.85	
235	0.65	5.64	10.80	17.09	
240	0.47	5.34	7.86	13.67	
245	0.33	5.07	5.69	11.08	
250	0.23	4.81	4.22	9.26	
255	0.16	4.57	3.14	7.87	
260	0.10	4.34	2.32	6.76	
265	0.07	4.11	1.69	5.87	
270	0.05	3.89	1.21	5.14	
275	0.04	3.66	0.86	4.56	
280	0.03	3.44	0.64	4.10	
285	0.02	3.21	0.50	3.73	
290	0.02	2.99	0.39	3.40	
295	0.01	2.77	0.31	3.09	
300	0.01	2.54	0.24	2.79	
305	0.00	2.32	0.17	2.50	
310	0.00	2.10	0.12	2.22	
315	0.00	1.88	0.07	1.95	
320	0.00	1.66	0.04	1.70	
325	0.00	1.43	0.02	1.45	
330	0.00	1.21	0.00	1.21	
335	0.00	0.99	0.00	0.99	
340	0.00	0.77	0.00	0.77	
345	0.00	0.55	0.00	0.55	
350	0.00	0.37	0.00	0.37	
355	0.00	0.25	0.00	0.25	
360	0.00	0.17	0.00	0.17	
365	0.00	0.12	0.00	0.12	
370	0.00	0.08	0.00	0.08	
375	0.00	0.05	0.00	0.05	
380	0.00	0.03	0.00	0.03	
385	0.00	0.01	0.00	0.01	
390	0.00	0.01	0.00	0.01	
395	0.00	0.01	0.00	0.01	
400	0.00	0.01	0.00	0.01	
405	0.00	0.00	0.00	0.00	
410	0.00	0.00	0.00	0.00	

time in minutes	DRB4	DRB3	DRB2	DRB1	Routed N/2583	Total to DRB4	max
0	0.00					0.00	643
5	0.00					0.00	
10	0.01					0.01	
15	0.10					0.10	
20	0.71					0.71	
25	8.89					8.89	
30	55.32					55.32	
35	147.21					147.21	
40	258.29					258.29	
45	359.76					359.76	
50	438.90					438.90	
55	490.53					490.53	
60	520.71					520.71	
65	535.45	0.00			0.00	535.45	
70	534.75	0.00			0.12	534.87	
75	518.92	0.01			1.57	520.50	
80	496.02	0.09			6.77	502.88	
85	471.87	0.47			29.32	501.66	
90	445.48	3.76			97.57	546.81	
95	417.71	17.54			163.94	599.20	
100	389.36	29.14			196.39	614.89	
105	361.70	34.89			207.81	604.41	
110	338.32	37.80			206.45	582.58	
115	318.07	38.97	0.00		198.94	555.98	
120	299.61	38.62	0.00		190.79	529.02	
125	282.12	37.75	0.00		184.00	503.88	
130	265.23	37.11	0.01		192.01	494.35	
135	248.61	35.45	0.06		268.07	552.19	
140	232.32	33.33	1.26		351.25	618.15	
145	216.41	30.93	7.80		387.97	643.11	
150	200.60	28.63	15.37		395.29	639.88	
155	184.90	26.58	19.63		384.18	615.29	
160	169.26	24.72	22.01		362.55	578.53	
165	154.39	22.98	23.44		341.62	542.43	
170	142.93	21.32	24.14		323.37	511.76	
175	133.63	19.71	24.34	0.00	300.44	478.13	
180	125.46	18.15	24.26	0.00	276.61	444.47	
185	118.08	16.62	23.52	0.09	252.18	410.50	
190	111.30	15.05	22.56	1.14	227.16	377.21	
195	104.95	13.54	21.49	4.13	203.35	347.46	
200	99.02	12.34	20.33	17.56	180.90	330.15	
205	93.51	11.37	19.17	61.53	159.37	344.94	
210	88.12	10.51	18.01	85.02	139.17	340.82	
215	82.83	9.74	16.88	90.99	122.34	322.78	
220	77.56	9.04	15.88	89.09	108.24	299.81	
225	72.30	8.38	15.02	84.83	95.66	276.19	
230	67.05	7.76	14.23	78.81	83.92	251.78	
235	61.82	7.19	13.49	73.94	73.31	229.74	
240	56.59	6.63	12.76	69.82	64.39	210.20	
245	51.38	6.09	12.04	62.18	56.57	188.26	
250	46.18	5.55	11.34	54.33	49.59	166.99	
255	40.99	5.02	10.65	46.03	43.13	145.82	
260	35.81	4.48	9.98	39.56	37.01	126.83	
265	30.63	3.95	9.31	34.45	31.09	109.43	
270	25.45	3.42	8.64	30.22	25.37	93.09	
275	20.28	2.89	7.97	26.45	19.80	77.38	
280	15.12	2.36	7.32	23.02	14.43	62.24	
285	10.31	1.83	6.77	19.80	9.93	48.64	
290	7.08	1.33	6.34	16.78	6.86	38.39	
295	4.98	0.91	5.97	13.97	4.80	30.63	
300	3.47	0.65	5.64	10.80	3.31	23.87	
305	2.36	0.47	5.34	7.86	2.21	18.24	
310	1.55	0.33	5.07	5.69	1.41	14.04	
315	0.95	0.23	4.81	4.22	0.84	11.05	
320	0.56	0.16	4.57	3.14	0.49	8.92	
325	0.38	0.10	4.34	2.32	0.32	7.46	
330	0.27	0.07	4.11	1.69	0.23	6.38	
335	0.21	0.05	3.89	1.21	0.18	5.54	
340	0.17	0.04	3.66	0.86	0.14	4.86	
345	0.12	0.03	3.44	0.64	0.11	4.34	
350	0.09	0.02	3.21	0.50	0.08	3.90	
355	0.06	0.02	2.99	0.39	0.05	3.51	
360	0.04	0.01	2.77	0.31	0.03	3.16	
365	0.02	0.01	2.54	0.24	0.02	2.82	
370	0.01	0.00	2.32	0.17	0.01	2.51	
375	0.00	0.00	2.10	0.12	0.00	2.22	
380	0.00	0.00	1.88	0.07	0.00	1.95	
385	0.00	0.00	1.66	0.04		1.70	
390	0.00	0.00	1.43	0.02		1.45	
395	0.00	0.00	1.21	0.00		1.21	
400	0.00	0.00	0.99	0.00		0.99	
405	0.00	0.00	0.77	0.00		0.77	
410	0.00	0.00	0.55	0.00		0.55	
415	0.00	0.00	0.37	0.00		0.37	
420	0.00	0.00	0.25	0.00		0.25	
425	0.00	0.00	0.17	0.00		0.17	
430	0.00	0.00	0.12	0.00		0.12	
435	0.00	0.00	0.08	0.00		0.08	
440	0.00	0.00	0.05	0.00		0.05	
445	0.00	0.00	0.03	0.00		0.03	
450	0.00	0.00	0.01	0.00		0.01	
455	0.00	0.00	0.01	0.00		0.01	
460		0.00	0.01	0.00		0.01	
465		0.00	0.01	0.00		0.01	
470		0.00	0.00	0.00		0.00	

Time in minutes	DRB6	DRB5	DRB4	Revenue NZ\$B3	DRB3	DRB2	DRB1	Total to DRB6	max
0	0.00							0.00	890
5	0.00							0.00	
10	0.00							0.00	
15	0.03							0.03	
20	0.18							0.18	
25	2.38							2.38	
30	12.23							12.23	
35	19.03							19.03	
40	22.23							22.23	
45	23.76							23.76	
50	24.10	0.00						24.10	
55	23.50	0.00						23.50	
60	22.99	0.00						22.99	
65	22.52	0.04						22.56	
70	21.23	0.19						21.42	
75	19.77	1.48						21.24	
80	18.23	6.49						24.72	
85	16.81	9.00						25.81	
90	15.50	9.91						25.42	
95	14.29	10.12	0.00	0.00				24.41	
100	13.13	9.91	0.00	0.12				23.16	
105	12.01	9.53	0.01	1.57				23.12	
110	10.92	9.15	0.10	6.77				26.94	
115	9.86	8.78	0.71	29.32				48.67	
120	8.85	8.09	8.89	97.57				123.29	
125	7.98	7.45	55.32	163.94				234.69	
130	7.29	6.72	147.21	196.39				357.61	
135	6.69	6.02	258.29	207.81				478.82	
140	6.16	5.36	359.76	206.45				577.73	
145	5.67	4.72	438.90	198.94				648.23	
150	5.22	4.13	490.53	190.79				690.67	
155	4.80	3.69	520.71	184.00				713.20	
160	4.40	3.34	535.45	192.01	0.00			735.20	
165	4.03	3.03	534.75	268.07	0.00			809.88	
170	3.66	2.76	518.92	351.25	0.01			876.59	
175	3.29	2.47	496.02	387.97	0.09			889.84	
180	2.93	2.21	471.87	395.29	0.47			872.76	
185	2.57	1.96	445.48	384.18	3.76			837.94	
190	2.20	1.72	417.71	362.55	17.54			801.73	
195	1.84	1.50	389.36	341.62	29.14			763.46	
200	1.48	1.28	361.70	323.37	34.89			722.72	
205	1.12	1.06	338.32	300.44	37.80			678.75	
210	0.78	0.85	318.07	276.61	38.97	0.00		635.27	
215	0.53	0.63	299.61	252.18	38.62	0.00		591.58	
220	0.38	0.44	282.12	227.16	37.75	0.00		547.85	
225	0.26	0.31	265.23	203.35	37.11	0.01		506.26	
230	0.18	0.22	248.61	180.90	35.45	0.06		465.42	
235	0.12	0.16	232.32	159.37	33.33	1.26		426.55	
240	0.08	0.11	216.41	139.17	30.93	7.80		394.50	
245	0.05	0.08	200.60	122.34	28.63	15.37		367.06	
250	0.03	0.05	184.90	108.24	26.58	19.63		339.44	
255	0.02	0.03	169.26	95.66	24.72	22.01		311.70	
260	0.02	0.02	154.39	83.92	22.98	23.44		284.77	
265	0.01	0.02	142.93	73.31	21.32	24.14		261.73	
270	0.01	0.01	133.63	64.39	19.71	24.34	0.00	242.11	
275	0.01	0.01	125.46	56.57	18.15	24.26	0.00	224.46	
280	0.01	0.01	118.08	49.59	16.62	23.52	0.09	207.92	
285	0.00	0.01	111.30	43.13	15.05	22.56	1.14	193.19	
290	0.00	0.00	104.95	37.01	13.54	21.49	4.13	181.12	
295	0.00	0.00	99.02	31.09	12.34	20.33	17.56	180.36	
300	0.00	0.00	93.51	25.37	11.37	19.17	61.53	210.94	
305	0.00	0.00	88.12	19.80	10.51	18.01	85.02	221.46	
310	0.00	0.00	82.83	14.43	9.74	16.88	90.99	214.86	
315	0.00	0.00	77.56	9.93	9.04	15.88	89.09	201.49	
320	0.00	0.00	72.30	6.86	8.38	15.02	84.83	187.39	
325	0.00	0.00	67.05	4.80	7.76	14.23	78.81	172.66	
330	0.00	0.00	61.82	3.31	7.19	13.49	73.94	159.74	
335	0.00	0.00	56.59	2.21	6.63	12.76	69.82	148.02	
340	0.00	0.00	51.38	1.41	6.09	12.04	62.18	133.10	
345	0.00	0.00	46.18	0.84	5.55	11.34	54.33	118.24	
350	0.00	0.00	40.99	0.49	5.02	10.65	46.03	103.18	
355	0.00	0.00	35.81	0.32	4.48	9.98	39.56	90.15	
360	0.00	0.00	30.63	0.23	3.95	9.31	34.45	78.57	
365	0.00	0.00	25.45	0.18	3.42	8.64	30.22	67.90	
370	0.00	0.00	20.28	0.14	2.89	7.97	26.45	57.72	
375	0.00	0.00	15.12	0.11	2.36	7.32	23.02	47.92	
380	0.00	0.00	10.31	0.08	1.83	6.77	19.80	38.79	
385	0.00	0.00	7.08	0.05	1.33	6.34	16.78	31.58	
390	0.00	0.00	4.98	0.03	0.91	5.97	13.97	25.86	
395	0.00	0.00	3.47	0.02	0.65	5.64	10.80	20.58	
400	0.00	0.00	2.36	0.01	0.47	5.34	7.86	16.03	
405	0.00	0.00	1.55	0.00	0.33	5.07	5.69	12.63	
410	0.00	0.00	0.95	0.00	0.23	4.81	4.22	10.21	
415	0.00	0.00	0.56		0.16	4.57	3.14	8.43	
420	0.00	0.00	0.38		0.10	4.34	2.32	7.14	
425	0.00	0.00	0.27		0.07	4.11	1.69	6.14	
430	0.00	0.00	0.21		0.05	3.89	1.21	5.36	
435	0.00	0.00	0.17		0.04	3.66	0.86	4.72	
440	0.00	0.00	0.12		0.03	3.44	0.64	4.23	
445	0.00	0.00	0.09		0.02	3.21	0.50	3.82	
450	0.00	0.00	0.06		0.02	2.99	0.39	3.46	
455	0.00	0.00	0.04		0.01	2.77	0.31	3.13	
460	0.00	0.00	0.02		0.01	2.54	0.24	2.81	
465	0.00	0.00	0.01		0.00	2.32	0.17	2.51	
470	0.00	0.00			0.00	2.10	0.12	2.22	
475	0.00	0.00			0.00	1.88	0.07	1.95	
480	0.00	0.00			0.00	1.66	0.04	1.70	
485	0.00	0.00			0.00	1.43	0.02	1.45	
490	0.00	0.00			0.00	1.21	0.00	1.21	
495	0.00	0.00			0.00	0.99	0.00	0.99	
500	0.00	0.00			0.00	0.77	0.00	0.77	
505	0.00	0.00			0.00	0.55	0.00	0.55	
510	0.00	0.00			0.00	0.37	0.00	0.37	
515	0.00	0.00			0.00	0.25	0.00	0.25	
520	0.00	0.00			0.00	0.17	0.00	0.17	
525	0.00	0.00			0.00	0.12	0.00	0.12	
530	0.00	0.00			0.00	0.08	0.00	0.08	
535	0.00	0.00			0.00	0.05	0.00	0.05	
540	0.00	0.00			0.00	0.03	0.00	0.03	
545	0.00	0.00			0.00	0.01	0.00	0.01	
550	0.00	0.00			0.00	0.01	0.00	0.01	
555	0.00	0.00			0.00	0.01	0.00	0.01	
560	0.00	0.00			0.00	0.01	0.00	0.01	
565	0.00	0.00			0.00	0.00	0.00	0.00	

time in minutes	DRB8	DRB7	Total to DRB8	imax
0	0.00		0.00	136
5	0.00		0.00	
10	0.00		0.00	
15	0.02		0.02	
20	0.15		0.15	
25	2.46		2.46	
30	15.08		15.08	
35	32.23		32.23	
40	43.76		43.76	
45	50.02		50.02	
50	53.62		53.62	
55	55.26		55.26	
60	55.48	0.00	55.48	
65	54.85	0.00	54.85	
70	53.25	0.00	53.25	
75	50.99	0.01	51.00	
80	48.33	0.13	48.46	
85	45.41	3.93	49.34	
90	42.43	27.41	69.84	
95	39.50	61.18	100.68	
100	36.94	85.13	122.08	
105	34.73	97.69	132.41	
110	32.70	103.78	136.48	
115	30.78	104.85	135.63	
120	28.95	102.33	131.28	
125	27.13	99.87	127.00	
130	25.34	96.18	121.52	
135	23.58	90.59	114.18	
140	21.84	83.94	105.78	
145	20.12	77.20	97.32	
150	18.40	71.17	89.57	
155	16.76	65.66	82.42	
160	15.50	60.61	76.11	
165	14.47	55.82	70.29	
170	13.58	51.23	64.81	
175	12.77	46.77	59.54	
180	12.02	42.43	54.45	
185	11.32	38.17	49.49	
190	10.67	34.09	44.76	
195	10.07	31.03	41.10	
200	9.48	28.54	38.02	
205	8.90	26.34	35.23	
210	8.32	24.35	32.66	
215	7.74	22.52	30.26	
220	7.16	20.80	27.97	
225	6.59	19.21	25.79	
230	6.01	17.72	23.73	
235	5.44	16.26	21.70	
240	4.87	14.83	19.70	
245	4.29	13.40	17.70	
250	3.72	11.97	15.70	
255	3.15	10.55	13.70	
260	2.58	9.12	11.70	
265	2.01	7.70	9.71	
270	1.45	6.27	7.72	
275	0.97	4.85	5.82	
280	0.67	3.46	4.13	
285	0.47	2.28	2.75	
290	0.32	1.55	1.87	
295	0.21	1.06	1.28	
300	0.13	0.71	0.84	
305	0.08	0.45	0.53	
310	0.04	0.27	0.31	
315	0.03	0.14	0.17	
320	0.02	0.07	0.09	
325	0.02	0.04	0.06	
330	0.01	0.03	0.04	
335	0.01	0.02	0.03	
340	0.01	0.02	0.02	
345	0.00	0.01	0.02	
350	0.00	0.01	0.01	
355	0.00	0.01	0.01	
360	0.00	0.00	0.00	

Time in minutes	DBR10	DBR9	DBR8	DBR7	DBR6	DBR5	DBR4	NI25B3	DBR3	DBR2	DBR1	Total to DBR10	max
0	0.00											0.00	719
5	0.02											0.02	
10	0.22											0.22	
15	1.39											1.39	
20	15.47											15.47	
25	91.88											91.88	
30	235.94											235.94	
35	396.50											396.50	
40	532.16											532.16	
45	625.51											625.51	
50	678.14											678.14	
55	700.58											700.58	
60	698.41	0.00	0.00		0.00							698.41	
65	674.84	0.00	0.00		0.00							674.84	
70	648.42	0.00	0.00		0.00							648.42	
75	616.48	0.01	0.02		0.03							616.53	
80	577.98	0.07	0.15		0.18							578.39	
85	535.90	1.76	2.46		2.38							542.51	
90	494.58	12.82	15.08		12.23							534.71	
95	458.58	34.44	32.23		19.03							544.28	
100	426.25	58.33	43.76		22.23							550.57	
105	397.08	78.20	50.02		23.76							549.06	
110	369.43	91.61	45.76	3.93	24.10	0.00						538.75	
115	343.13	99.77	55.26		23.50	0.00						521.67	
120	317.38	104.80	55.48	0.00	22.99	0.00						500.65	
125	292.01	107.76	54.85	0.00	22.52	0.04						477.18	
130	266.99	108.47	53.25	0.00	21.23	0.19						450.13	
135	242.01	106.57	50.99	0.01	19.77	1.48						420.82	
140	218.29	102.41	48.33	0.13	18.23	6.49						393.89	
145	199.92	97.84	45.76	3.93	16.81	9.00						373.72	
150	184.94	92.94	42.43	27.41	15.50	9.91						373.13	
155	171.77	88.22	39.50	61.18	14.29	10.12	0.00					385.09	
160	159.92	83.50	36.94	85.13	13.13	9.91	0.00					388.54	
165	149.01	78.83	34.73	97.69	12.01	9.53	0.01					381.81	
170	138.81	74.19	32.70	103.78	10.92	9.15	0.10					369.65	
175	129.29	69.72	30.78	104.85	9.86	8.78	0.71					353.99	
180	120.44	65.96	29.23	102.33	8.89	8.89						342.60	
185	111.82	62.67	27.13	99.87	7.98	7.45	55.32					372.24	
190	103.36	59.61	25.34	96.18	7.29	6.72	147.21					445.71	
195	94.93	56.69	23.58	90.59	6.69	6.02	258.29					536.80	
200	86.52	53.87	21.84	83.94	6.16	5.36	359.76					617.45	
205	78.13	51.12	20.12	77.20	5.67	4.72	438.90					675.87	
210	69.77	48.44	18.40	71.17	5.22	4.13	490.53					707.65	
215	61.42	45.84	16.76	65.66	4.80	3.71	520.71					736.88	
220	53.09	43.27	15.50	60.61	4.40	3.34	535.45	0.00	0.00			715.66	
225	44.79	40.71	14.47	55.82	4.03	3.03	534.75	0.12	0.00			697.72	
230	36.51	38.16	13.58	51.23	3.66	2.76	518.92	1.57	0.01			666.38	
235	28.27	35.61	12.77	46.77	3.29	2.47	496.02	6.77	0.09			632.05	
240	20.28	33.06	12.02	42.43	2.93	2.21	471.87	29.32	0.47			614.59	
245	13.71	30.56	11.32	38.17	2.57	1.96	445.48	97.57	3.76			645.09	
250	9.59	28.34	10.67	34.09	2.20	1.72	417.71	163.94	17.54			685.82	
255	6.78	26.64	10.07	31.02	1.84	1.50	389.36	196.39	29.14			692.76	
260	4.71	25.22	9.48	28.54	1.48	1.28	361.70	207.81	34.89			675.11	
265	3.18	23.96	8.90	26.34	1.12	1.06	338.32	206.45	37.80			647.13	
270	2.06	22.81	8.32	24.35	0.78	0.85	318.07	198.94	38.97	0.00		615.14	
275	1.26	21.74	7.74	22.52	0.53	0.63	299.61	190.79	38.62	0.00		583.45	
280	0.80	20.75	7.16	20.80	0.38	0.44	282.12	184.00	37.75	0.00		554.20	
285	0.57	19.80	6.59	19.21	0.27	0.32	265.33	192.01	37.11	0.01		524.10	
290	0.43	18.94	6.01	17.72	0.18	0.22	248.61	268.07	35.45	0.06		595.69	
295	0.34	18.07	5.44	16.26	0.12	0.16	232.32	351.25	33.33	1.26		658.55	
300	0.26	17.22	4.87	14.83	0.08	0.11	216.41	387.97	30.93	7.80		680.48	
305	0.19	16.36	4.29	13.40	0.05	0.08	200.60	395.29	28.63	15.37		674.26	
310	0.14	15.51	3.72	11.97	0.03	0.05	184.90	384.18	26.58	19.63		646.72	
315	0.09	14.66	3.15	10.55	0.02	0.03	169.26	362.55	24.72	22.01		607.03	
320	0.05	13.81	2.58	9.12	0.02	0.02	154.39	341.62	22.98	23.44		568.03	
325	0.02	12.96	2.01	7.70	0.01	0.01	142.91	323.37	21.32	24.14		529.80	
330	0.01	12.11	1.45	6.27	0.01	0.01	133.63	300.44	19.71	24.34	0.00	497.99	
335	0.00	11.26	0.97	4.85	0.01	0.01	125.46	276.61	18.15	24.26	0.00	461.57	
340	0.00	10.41	0.67	3.46	0.01	0.01	118.08	252.18	16.62	23.52	0.09	425.05	
345	0.00	9.56	0.47	2.28	0.00	0.01	111.30	227.16	15.05	22.56	1.14	389.53	
350	0.00	8.72	0.32	1.55	0.00	0.00	104.95	203.35	13.54	21.49	4.13	358.05	
355	0.00	7.87	0.21	1.06	0.00	0.00	99.02	180.90	12.34	20.33	17.56	339.30	
360	0.00	7.02	0.13	0.70	0.00	0.00	93.51	159.37	11.27	19.17	61.52	323.80	
365	0.00	6.17	0.08	0.45	0.00	0.00	88.12	139.17	10.51	18.01	85.02	347.53	
370	0.00	5.33	0.04	0.27	0.00	0.00	82.83	122.34	9.74	16.88	90.99	328.42	
375	0.00	4.48	0.03	0.14	0.00	0.00	77.56	108.24	9.04	15.88	89.09	304.46	
380	0.00	3.63	0.02	0.07	0.00	0.00	72.30	95.66	8.38	15.02	84.83	279.92	
385	0.00	2.79	0.02	0.04	0.00	0.00	67.05	83.92	7.76	14.23	78.81	254.62	
390	0.00	1.97	0.01	0.03	0.00	0.00	61.82	73.31	7.19	13.49	73.94	231.75	
395	0.00	1.31	0.01	0.02	0.00	0.00	56.59	64.39	6.63	12.76	69.82	211.33	
400	0.00	0.89	0.01	0.02	0.00	0.00	51.38	56.57	6.09	12.04	62.18	189.18	
405	0.00	0.61	0.00	0.01	0.00	0.00	46.18	49.59	5.55	11.34	54.33	167.62	
410	0.00	0.41	0.00	0.01	0.00	0.00	40.99	43.13	5.02	10.65	46.03	146.24	
415	0.00	0.26	0.00	0.01	0.00	0.00	35.81	37.01	4.48	9.98	39.56	127.10	
420	0.00	0.16	0.00	0.00	0.00	0.00	30.63	31.09	3.95	9.31	34.45	109.59	
425	0.00	0.08	0.00	0.00	0.00	0.00	25.45	25.37	3.42	8.64	30.22	93.47	
430	0.00	0.04	0.00	0.00	0.00	0.00	20.28	19.80	2.89	7.97	26.45	74.42	
435	0.00	0.03	0.00	0.00	0.00	0.00	15.12	14.43	2.36	7.32	23.02	62.27	
440	0.00	0.02	0.00	0.00	0.00	0.00	10.31	9.93	1.83	6.77	19.80	48.66	
445	0.00	0.02	0.00	0.00	0.00	0.00	7.08	6.86	1.33	6.34	16.78	38.40	
450	0.00	0.01	0.00	0.00	0.00	0.00	4.98	4.80	0.91	5.97	13.97	30.64	
455	0.00	0.01	0.00	0.00	0.00	0.00	3.47	3.31	0.65	5.64	10.80	23.88	
460	0.00	0.01	0.00	0.00	0.00	0.00	2.36	2.21	0.47	5.34	7.86	18.24	
465	0.00	0.00	0.00	0.00	0.00	0.00	1.55	1.41	0.33	5.07	5.69	14.04	
470	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.84	0.23	4.81	4.22	11.05	
475	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.49	0.16	4.57	3.14	8.92	
480	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.32	0.10	4.34	2.32	7.46	
485	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.23	0.07	4.11	1.69	6.38	
490	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.18	0.05	3.89	1.21	5.54	
495	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.14	0.04	3.66	0.86	4.86	
500	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.11	0.03	3.44	0.64	4.34	
505	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.02	3.21	0.50	3.90	
510	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.05	0.02	2.99	0.39	3.51	
515	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.01	2.77	0.31	3.16	
520	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01	2.54	0.24	2.82	
525	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	2.32	0.17	2.51	
530	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10	0.12	2.22	
535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.88	0.07	1.95	
540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66	0.04	1.70	
545	0.00</												

Time in minutes	DRE11	DRE10	DRE9	DRE8	DRE7	DRE6	DRE5	DRE4	NZRE3	DRE3	DRE2	DRE1	Total to DRE11	max
0	0.00												0.00	719
5	0.00												0.00	
10	0.00												0.00	
15	0.04												0.04	
20	0.19												0.19	
25	1.73												1.73	
30	8.05												8.05	
35	12.00												12.00	
40	13.87												13.87	
45	14.83												14.83	
50	15.15	0.00											15.15	
55	14.92	0.02											14.94	
60	16.62	0.22											16.84	
65	14.40	1.39											15.79	
70	13.65	15.47											29.11	
75	12.83	91.88											104.71	
80	11.87	235.94											247.81	
85	11.01	282.27											407.51	
90	10.23	532.16											542.39	
95	9.52	625.51											635.03	
100	8.85	678.14											686.99	
105	8.21	702.58											708.79	
110	7.59	698.41	0.00	0.00		0.00							706.00	
115	6.98	674.84	0.00	0.00	0.00	0.00							681.82	
120	6.38	648.42	0.00	0.00	0.00	0.00							654.81	
125	5.77	616.48	0.01	0.01		0.03							622.30	
130	5.18	577.88	0.07	0.15		0.18							583.58	
135	4.74	535.90	1.76	2.46		2.38							547.23	
140	4.37	494.58	12.82	15.08		12.23							539.08	
145	4.05	458.58	34.44	32.23		19.03							548.33	
150	3.76	425.25	58.33	43.76		22.23							554.31	
155	3.49	397.08	78.20	50.02		23.76							552.55	
160	3.23	369.43	91.61	53.62		24.10	0.00						541.99	
165	3.00	343.13	99.77	55.26		23.50	0.00						524.60	
170	2.78	317.38	108.80	55.48	0.00	22.99	0.00						503.43	
175	2.56	292.01	107.76	54.85	0.00	22.52	0.04						479.75	
180	2.36	266.99	108.47	53.25	0.00	21.23	0.19						452.48	
185	2.15	242.01	106.57	50.99	0.01	19.77	1.48						422.97	
190	1.94	218.29	102.41	48.33	0.13	18.23	6.49						395.82	
195	1.73	193.36	97.65	45.41	0.93	16.81	9.00						374.45	
200	1.52	184.94	92.94	42.43	27.41	15.50	9.91						374.66	
205	1.32	171.77	88.22	39.50	61.18	14.29	10.12	0.00					386.41	
210	1.11	159.92	83.50	36.94	85.13	13.13	9.91	0.00					389.65	
215	0.91	149.01	78.83	34.73	97.69	12.01	9.53	0.01					382.71	
220	0.70	138.83	74.19	32.70	103.78	10.92	9.15	0.10					370.35	
225	0.51	129.29	69.72	30.78	104.85	9.86	8.78	0.71					354.50	
230	0.35	120.44	65.96	28.95	102.33	8.85	8.09	8.89					343.83	
235	0.25	111.82	62.67	27.13	99.87	7.98	7.45	55.32					372.48	
240	0.18	103.36	59.61	25.14	95.18	7.29	6.72	147.21					445.88	
245	0.12	94.93	56.69	23.58	90.59	6.69	6.02	258.29					536.92	
250	0.09	86.52	53.87	21.84	83.94	6.16	5.36	359.76					617.54	
255	0.06	78.13	51.12	20.12	77.20	5.67	4.72	438.90					675.92	
260	0.04	69.77	48.44	18.40	71.17	5.22	4.15	490.53					707.89	
265	0.02	61.42	45.84	16.76	65.66	4.80	3.69	530.71					718.99	
270	0.02	53.09	43.27	15.50	60.61	4.40	3.34	535.45	0.00	0.00			715.68	
275	0.01	44.79	40.71	14.47	55.82	4.03	3.03	534.75	0.12	0.00			697.73	
280	0.01	36.51	38.16	13.58	51.23	3.66	2.76	518.92	1.57	0.01			666.39	
285	0.01	28.27	35.61	12.77	46.77	3.29	2.47	496.02	6.77	0.09			632.86	
290	0.01	20.28	33.06	12.02	42.43	2.93	2.21	471.87	29.32	0.47			614.60	
295	0.00	13.71	30.56	11.32	38.17	2.57	1.96	445.48	97.57	3.76			645.09	
300	0.00	9.59	28.34	10.67	34.09	2.20	1.72	417.71	163.94	17.54			685.82	
305	0.00	6.78	26.64	10.07	31.03	1.84	1.50	389.36	196.29	29.14			692.76	
310	0.00	4.71	25.22	9.48	28.54	1.48	1.18	361.70	207.81	34.89			675.31	
315	0.00	3.18	23.96	8.90	26.34	1.12	1.06	338.32	206.45	37.80			647.13	
320	0.00	2.06	22.81	8.32	24.35	0.78	0.85	318.07	198.94	38.97	0.00		615.14	
325	0.00	1.26	21.74	7.74	22.52	0.53	0.63	299.61	190.79	38.62	0.00		583.45	
330	0.00	0.80	20.75	7.16	20.60	0.38	0.44	282.12	184.00	37.75	0.00		554.26	
335	0.00	0.57	19.82	6.59	19.21	0.26	0.31	265.23	192.01	37.11	0.01		541.10	
340	0.00	0.43	18.94	6.01	17.72	0.18	0.22	248.61	268.07	35.45	0.06		595.69	
345	0.00	0.34	18.07	5.44	16.26	0.12	0.16	232.32	351.25	33.33	1.26		658.55	
350	0.00	0.26	17.22	4.87	14.83	0.08	0.11	216.41	387.97	30.93	7.80		680.48	
355	0.00	0.19	16.36	4.29	13.40	0.05	0.08	200.60	395.29	28.63	15.37		745.82	
360	0.00	0.14	15.51	3.72	11.97	0.03	0.05	184.90	384.18	26.58	19.63		646.72	
365	0.00	0.09	14.66	3.15	10.55	0.02	0.03	169.26	362.55	24.72	22.01		607.03	
370	0.00	0.05	13.81	2.58	9.12	0.02	0.02	154.39	341.62	22.98	23.44		568.03	
375	0.00	0.02	12.96	2.01	7.70	0.01	0.02	142.93	323.37	21.32	24.14		534.48	
380	0.00	0.01	12.11	1.45	6.27	0.01	0.01	133.63	300.44	19.71	24.34	0.00	497.99	
385	0.00	0.00	11.26	0.97	4.85	0.01	0.01	125.46	276.61	18.15	24.26	0.00	461.57	
390	0.00	0.00	10.41	0.67	3.46	0.01	0.01	118.08	252.18	16.62	23.52	0.09	425.05	
395	0.00	0.00	9.56	0.47	2.28	0.00	0.01	111.30	227.16	15.05	22.56	1.14	389.53	
400	0.00	0.00	8.72	0.32	1.55	0.00	0.00	104.95	203.35	13.54	21.49	6.13	358.65	
405	0.00	0.00	7.87	0.21	1.06	0.00	0.00	99.02	180.90	12.34	20.33	17.56	339.30	
410	0.00	0.00	7.02	0.13	0.71	0.00	0.00	93.51	159.37	11.37	19.17	61.53	352.80	
415	0.00	0.00	6.17	0.08	0.45	0.00	0.00	88.12	139.17	10.51	18.01	85.02	347.53	
420	0.00	0.00	5.33	0.04	0.27	0.00	0.00	82.83	122.34	9.74	16.88	90.99	328.23	
425	0.00	0.00	4.48	0.03	0.14	0.00	0.00	77.56	108.24	9.04	15.88	89.09	304.46	
430	0.00	0.00	3.63	0.02	0.07	0.00	0.00	72.30	95.66	8.38	15.02	84.83	279.92	
435	0.00	0.00	2.79	0.02	0.04	0.00	0.00	67.05	83.92	7.76	14.23	78.81	254.62	
440	0.00	0.00	1.97	0.01	0.03	0.00	0.00	61.82	73.31	7.19	13.49	73.94	231.72	
445	0.00	0.00	1.11	0.01	0.02	0.00	0.00	56.59	64.39	6.63	12.76	69.82	211.83	
450	0.00	0.00	0.89	0.01	0.02	0.00	0.00	51.38	56.57	6.09	12.04	62.18	189.18	
455	0.00	0.00	0.61	0.00	0.01	0.00	0.00	46.18	49.59	5.55	11.34	54.33	167.62	
460	0.00	0.00	0.41	0.00	0.01	0.00	0.00	40.99	43.13	5.02	10.65	46.03	146.24	
465	0.00	0.00	0.26	0.00	0.01	0.00	0.00	35.81	37.01	4.48	9.98	39.56	127.10	
470	0.00	0.00	0.16	0.00	0.00	0.00	0.00	30.63	31.09	3.95	9.31	34.45	105.50	
475	0.00	0.00	0.08	0.00	0.00	0.00	0.00	25.45	25.37	3.42	8.64	30.22	93.17	
480	0.00	0.00	0.04	0.00	0.00	0.00	0.00	20.28	19.80	2.89	7.97	26.45	77.42	
485	0.00	0.00	0.03	0.00	0.00	0.00	0.00	15.12	14.43	2.36	7.32	23.02	62.27	
490	0.00	0.00	0.02	0.00	0.00	0.00	0.00	10.31	9.93	1.83	6.77	19.80	48.66	
495	0.00	0.00	0.02	0.00	0.00	0.00	0.00	7.08	6.86	1.33	6.34	16.78	38.40	
500	0.00	0.00	0.01	0.00	0.00	0.00	0.00	4.98	4.80	0.91	5.97	13.97	30.64	
505	0.00	0.00	0.01	0.00	0.00	0.00	0.00	3.47	3.31	0.65	5.64	10.80	23.88	
510	0.00	0.00	0.01	0.00	0.00	0.00	0.00							

Time in minutes	DR02	DR01	DR00	DR09	DR08	DR07	DR06	DR05	DR04	NZ03B	DR03	DR02	DR01	Total to DR02	max
0	0.00													0.00	0.00
5	0.00													0.00	0.00
10	0.00													0.00	0.00
15	2.01													2.01	2.01
20	6.93													6.93	6.93
25	79.32													79.32	79.32
30	101.25													101.25	101.25
35	127.07	0.00												127.07	127.07
40	122.84	0.00												122.84	122.84
45	112.26	0.00												112.26	112.26
50	101.42	0.04												101.46	101.46
55	88.64	0.15												88.79	88.79
60	77.19	1.73												78.92	78.92
65	69.61	8.05												77.66	77.66
70	57.93	12.00												69.93	69.93
75	47.78	13.87												61.65	61.65
80	37.32	14.83												52.16	52.16
85	28.20	15.15	0.00											43.35	43.35
90	20.22	14.92	0.02											35.16	35.16
95	14.21	14.62	0.22											29.05	29.05
100	10.66	14.40	1.39											26.45	26.45
105	8.36	13.65	15.47											37.47	37.47
110	6.76	12.83	91.88											111.47	111.47
115	5.63	11.87	235.94											253.44	253.44
120	4.82	11.01	396.50											412.33	412.33
125	3.43	10.23	532.16											545.82	545.82
130	2.40	9.52	625.51											637.43	637.43
135	1.74	8.85	678.14											688.74	688.74
140	1.28	8.21	700.58											710.07	710.07
145	0.94	7.59	698.41	0.00	0.00									706.94	706.94
150	0.68	6.98	674.84	0.00	0.00	0.00								682.50	682.50
155	0.49	6.38	648.42	0.00	0.00	0.00								655.29	655.29
160	0.35	5.77	616.48	0.01	0.02	0.03								622.65	622.65
165	0.22	5.19	577.98	0.07	0.15	0.18								583.80	583.80
170	0.13	4.74	535.90	1.76	2.46	2.38								547.38	547.38
175	0.06	4.37	494.58	12.82	15.08	12.23								530.14	530.14
180	0.05	4.05	458.58	34.44	32.23	19.03								508.35	508.35
185	0.00	3.76	426.25	58.33	43.76	22.23								554.32	554.32
190	0.00	3.49	397.08	78.20	50.02	23.76								552.55	552.55
195	0.00	3.23	369.43	91.61	53.62	24.40	0.00							541.99	541.99
200	0.00	3.00	343.13	99.71	55.26	23.50	0.00							524.66	524.66
205	0.00	2.78	317.38	104.80	55.48	22.99	0.00							503.43	503.43
210	0.00	2.56	292.01	107.76	54.85	22.52	0.04							479.75	479.75
215	0.00	2.36	266.99	108.47	53.25	21.23	0.19							452.48	452.48
220	0.00	2.15	242.29	106.57	50.98	19.77	1.48							422.97	422.97
225	0.00	1.94	218.29	102.41	48.33	18.23	6.49							395.82	395.82
230	0.00	1.73	199.92	97.65	45.41	3.93	16.81	9.00						374.45	374.45
235	0.00	1.52	184.94	92.94	42.43	27.41	15.50	9.91						374.66	374.66
240	0.00	1.32	172.27	88.22	39.50	61.18	14.29	10.13	0.00					384.41	384.41
245	0.00	1.11	159.92	83.50	36.94	85.13	13.13	9.91	0.00					389.66	389.66
250	0.00	0.91	149.01	78.83	34.73	97.69	12.01	9.53	0.01					382.71	382.71
255	0.00	0.70	138.81	74.19	32.70	103.78	10.92	9.15	0.10	0.10				370.95	370.95
260	0.00	0.51	129.29	69.72	30.78	104.85	9.84	8.76	0.71	0.71				358.20	358.20
265	0.00	0.35	120.44	65.96	28.95	102.33	8.85	8.09	8.89					343.85	343.85
270	0.00	0.25	111.82	62.67	27.13	99.87	7.98	7.45	55.32					372.48	372.48
275	0.00	0.18	103.36	59.61	25.34	96.18	7.29	6.72	147.21					448.88	448.88
280	0.00	0.13	94.89	56.69	23.58	90.59	6.69	6.00	258.29					535.93	535.93
285	0.00	0.09	86.52	53.87	21.84	83.94	6.16	5.36	359.76					617.54	617.54
290	0.00	0.06	78.13	51.12	20.12	77.20	5.67	4.72	438.90					675.92	675.92
295	0.00	0.04	69.77	48.44	18.40	71.17	5.22	4.13	490.53					707.69	707.69
300	0.00	0.03	61.42	45.84	16.76	65.66	4.80	3.69	530.71					718.66	718.66
305	0.00	0.02	53.09	43.27	15.09	60.61	4.40	3.34	535.45	0.00	0.00			715.68	715.68
310	0.00	0.01	44.79	40.71	14.47	55.82	4.03	3.03	534.75	0.12	0.00			697.73	697.73
315	0.00	0.01	36.51	38.16	13.58	51.23	3.66	2.76	518.92	1.57	0.01			666.39	666.39
320	0.00	0.01	28.27	35.72	12.77	46.77	3.49	2.47	496.02	6.77	0.09			633.26	633.26
325	0.00	0.01	20.38	33.06	12.02	42.43	2.93	2.21	471.87	29.32	0.47			634.60	634.60
330	0.00	0.00	13.71	30.56	11.32	38.17	2.57	1.96	445.48	97.57	3.76			645.09	645.09
335	0.00	0.00	9.59	28.34	10.67	34.09	2.20	1.72	417.71	163.94	17.54			685.82	685.82
340	0.00	0.00	6.78	26.64	10.07	31.03	1.84	1.50	389.36	196.89	29.14			692.76	692.76
345	0.00	0.00	4.71	25.22	9.48	28.54	1.48	1.26	361.70	207.81	34.89			675.13	675.13
350	0.00	0.00	3.18	23.96	8.90	26.34	1.12	1.06	338.32	206.45	37.80			647.13	647.13
355	0.00	0.00	2.06	22.81	8.32	24.35	0.78	0.85	318.07	198.94	38.97	0.00		615.14	615.14
360	0.00	0.00	1.26	21.74	7.74	22.52	0.53	0.63	299.61	190.79	38.62	0.00		583.45	583.45
365	0.00	0.00	0.89	20.75	7.16	20.80	0.48	0.58	283.22	184.00	37.75	0.00		551.20	551.20
370	0.00	0.00	0.57	19.82	6.59	19.21	0.26	0.31	265.23	192.01	37.11	0.01		541.10	541.10
375	0.00	0.00	0.43	18.94	6.01	17.72	0.18	0.22	248.61	268.07	35.45	0.06		595.69	595.69
380	0.00	0.00	0.34	18.07	5.44	16.26	0.12	0.16	232.32	351.25	33.33	1.26		658.55	658.55
385	0.00	0.00	0.25	17.22	4.83	14.83	0.11	0.14	216.41	387.97	30.93	7.80		680.48	680.48
390	0.00	0.00	0.19	16.36	4.29	13.40	0.05	0.08	200.60	395.29	28.63	15.37		674.26	674.26
395	0.00	0.00	0.14	15.51	3.72	11.97	0.03	0.05	184.90	384.18	26.58	19.63		646.72	646.72
400	0.00	0.00	0.09	14.66	3.15	10.55	0.02	0.03	169.26	362.55	24.72	22.01		607.03	607.03
405	0.00	0.00	0.05	13.81	2.58	9.12	0.02	0.02	154.39	341.62	22.98	23.44		568.03	568.03
410	0.00	0.00	0.02	12.96	2.01	7.70	0.01	0.02	142.93	323.37	21.32	24.14		534.48	534.48
415	0.00	0.00	0.01	12.11	1.45	6.27	0.01	0.01	133.63	300.44	19.71	24.34	0.00	497.99	497.99
420	0.00	0.00	0.00	11.26	0.97	4.85	0.01	0.01	125.46	276.61	18.15	24.26	0.00	461.57	461.57
425	0.00	0.00	0.00	10.41	0.67	3.46	0.01	0.01	118.08	252.18	16.62	23.52	0.09	425.05	425.05
430	0.00	0.00	0.00	9.56	0.47	2.28	0.00	0.01	111.30	227.16	15.05	22.56	1.14	389.53	389.53
435	0.00	0.00	0.00	8.72	0.32	1.55	0.00	0.00	104.95	203.35	13.54	21.49	4.13	358.05	358.05
440	0.00	0.00	0.00	7.87	0.21	1.06	0.00	0.00	99.02	180.90	12.34	20.33	17.56	339.30	339.30
445	0.00	0.00	0.00	7.02	0.13	0.71	0.00	0.00	93.51	159.37	11.37	19.17	61.53	303.30	303.30
450	0.00	0.00	0.00	6.17	0.08	0.45	0.00	0.00	88.12	139.17	10.51	18.01	85.02	347.53	347.53
455	0.00	0.00	0.00	5.33	0.04	0.27	0.00	0.00	82.83	122.34	9.74	16.88	90.99	328.42	328.42
460	0.00	0.00	0.00	4.48	0.03	0.14	0.00	0.00	77.56	108.24	9.04	15.88	89.09	304.46	304.46
465	0.00	0.00	0.00	3.63	0.02	0.07	0.00	0.00	72.30	95.86	8.38	15.02	84.83	279.92	279.92
470	0.00	0.00	0.00	2.79	0.02	0.04	0.00	0.00	67.02	83.92	7.76	14.23	78.81		

time in minutes	DRB14	DRB15	Total to DRB14	max
0	0.00		0.00	289
5	0.00		0.00	
10	0.01		0.01	
15	0.12		0.12	
20	0.75		0.75	
25	9.15		9.15	
30	53.35		53.35	
35	121.79		121.79	
40	177.46		177.46	
45	208.83		208.83	
50	224.75		224.75	
55	229.34	0.00	229.34	
60	225.43	0.00	225.43	
65	219.33	0.00	219.33	
70	211.65	0.02	211.67	
75	200.37	0.22	200.59	
80	186.32	6.03	192.35	
85	171.55	41.59	213.14	
90	158.35	94.27	252.62	
95	146.28	133.36	279.64	
100	135.16	153.61	288.76	
105	124.74	162.41	287.16	
110	114.77	162.34	277.11	
115	105.11	157.08	262.19	
120	95.72	152.50	248.23	
125	86.48	145.81	232.29	
130	77.53	136.04	213.56	
135	70.35	125.05	195.40	
140	64.56	114.81	179.37	
145	59.52	105.06	164.58	
150	54.97	95.94	150.91	
155	50.81	87.47	138.28	
160	46.93	79.34	126.27	
165	43.31	71.49	114.80	
170	39.94	63.87	103.81	
175	36.68	56.70	93.38	
180	33.49	51.03	84.53	
185	30.32	46.49	76.81	
190	27.15	42.53	69.68	
195	23.99	38.96	62.95	
200	20.84	35.68	56.52	
205	17.70	32.62	50.32	
210	14.56	29.77	44.33	
215	11.44	27.12	38.56	
220	8.35	24.55	32.90	
225	5.59	22.03	27.62	
230	3.88	19.52	23.40	
235	2.75	17.01	19.75	
240	1.91	14.50	16.41	
245	1.29	12.00	13.29	
250	0.84	9.50	10.34	
255	0.51	7.00	7.52	
260	0.31	4.67	4.98	
265	0.22	3.15	3.37	
270	0.16	2.17	2.33	
275	0.13	1.47	1.60	
280	0.10	0.96	1.06	
285	0.07	0.59	0.67	
290	0.05	0.33	0.38	
295	0.03	0.16	0.20	
300	0.02	0.10	0.12	
305	0.01	0.06	0.07	
310	0.00	0.05	0.05	
315	0.00	0.04	0.04	
320	0.00	0.03	0.03	
325	0.00	0.02	0.02	
330	0.00	0.01	0.01	
335	0.00	0.01	0.01	
340	0.00	0.00	0.00	
345	0.00	0.00	0.00	

Time in minutes	DRB16	DRB18	DRB19	Total to DRB16	max
0	0.00			0.00	359
5	0.00			0.00	
10	0.01			0.01	
15	0.13			0.13	
20	1.03			1.03	
25	17.27			17.27	
30	105.47			105.47	
35	220.25			220.25	
40	291.73			291.73	
45	321.41			321.41	
50	323.00		0.00	323.00	
55	310.44		0.00	310.44	
60	295.62		0.16	295.77	
65	280.67		2.07	282.75	
70	262.03		7.95	269.98	
75	240.58		28.80	269.37	
80	217.33		88.37	305.71	
85	193.07		153.23	346.30	
90	169.71		189.55	359.26	
95	147.53		204.07	351.61	
100	127.08	0.00	204.97	332.05	
105	112.03	0.00	197.93	309.96	
110	100.09	0.00	190.05	290.14	
115	89.70	0.02	182.26	271.98	
120	80.38	0.17	171.31	251.86	
125	71.64	2.83	159.18	233.65	
130	63.26	19.37	146.39	229.02	
135	55.38	53.65	132.94	241.97	
140	48.04	97.48	119.94	265.45	
145	40.88	139.84	107.68	288.40	
150	33.87	175.42	95.96	305.25	
155	26.90	201.34	85.41	313.66	
160	19.98	218.00	77.32	315.30	
165	13.52	228.96	70.85	313.33	
170	9.22	235.12	65.25	309.59	
175	6.42	236.23	59.54	302.18	
180	4.41	232.20	53.63	290.24	
185	2.94	223.68	47.93	274.55	
190	1.88	212.84	42.56	257.28	
195	1.12	202.80	37.58	241.49	
200	0.62	193.09	32.84	226.55	
205	0.40	183.43	28.24	212.07	
210	0.28	173.87	23.74	197.89	
215	0.22	164.42	19.34	183.98	
220	0.17	155.09	15.07	170.33	
225	0.13	146.29	11.14	157.56	
230	0.09	139.07	8.12	147.28	
235	0.06	132.58	6.10	138.74	
240	0.04	126.48	4.63	131.15	
245	0.02	120.64	3.51	124.16	
250	0.01	114.98	2.66	117.65	
255	0.00	109.48	2.00	111.48	
260	0.00	104.12	1.50	105.62	
265	0.00	98.91	1.16	100.08	
270	0.00	93.74	0.92	94.67	
275	0.00	88.61	0.73	89.34	
280	0.00	83.49	0.58	84.07	
285	0.00	78.37	0.44	78.81	
290	0.00	73.26	0.33	73.59	
295	0.00	68.16	0.23	68.39	
300	0.00	63.22	0.14	63.37	
305	0.00	59.13	0.08	59.21	
310	0.00	55.91	0.04	55.95	
315	0.00	53.16	0.01	53.17	
320	0.00	50.69	0.00	50.69	
325	0.00	48.43	0.00	48.43	
330	0.00	46.33	0.00	46.33	
335	0.00	44.36	0.00	44.36	
340	0.00	42.52	0.00	42.52	
345	0.00	40.76	0.00	40.76	
350	0.00	39.02	0.00	39.02	
355	0.00	37.30	0.00	37.30	
360	0.00	35.58	0.00	35.58	
365	0.00	33.87	0.00	33.87	
370	0.00	32.16	0.00	32.16	
375	0.00	30.45	0.00	30.45	
380	0.00	28.74	0.00	28.74	
385	0.00	27.04	0.00	27.04	
390	0.00	25.33	0.00	25.33	
395	0.00	23.63	0.00	23.63	
400	0.00	21.94	0.00	21.94	
405	0.00	20.24	0.00	20.24	
410	0.00	18.54	0.00	18.54	
415	0.00	16.84	0.00	16.84	
420	0.00	15.14	0.00	15.14	
425	0.00	13.45	0.00	13.45	
430	0.00	11.75	0.00	11.75	
435	0.00	10.05	0.00	10.05	
440	0.00	8.35	0.00	8.35	
445	0.00	6.65	0.00	6.65	
450	0.00	4.96	0.00	4.96	
455	0.00	3.37	0.00	3.37	
460		2.29	0.00	2.29	
465		1.59	0.00	1.59	
470		1.10	0.00	1.10	
475		0.73	0.00	0.73	
480		0.47	0.00	0.47	
485		0.28	0.00	0.28	
490		0.15	0.00	0.15	
495		0.10	0.00	0.10	
500		0.07	0.00	0.07	
505		0.05	0.00	0.05	
510		0.04	0.00	0.04	
515		0.03	0.00	0.03	
520		0.02	0.00	0.02	
525		0.01	0.00	0.01	
530		0.01	0.00	0.01	
535		0.00	0.00	0.00	

time in minutes	DRB18	DRB19	Routed Total to DRB19	max
0		0.00	0.00	300
5		0.00	0.00	
10		0.16	0.16	
15		2.07	2.07	
20		7.95	7.95	
25		28.80	28.80	
30		88.37	88.37	
35		153.23	153.23	
40		189.55	189.55	
45		204.07	204.07	
50	0.00	204.97	204.97	
55	0.00	197.93	197.93	
60	0.00	190.05	190.05	
65	0.02	182.26	182.28	
70	0.17	171.31	171.47	
75	2.83	159.18	162.01	
80	19.37	146.39	165.76	
85	53.65	132.94	186.60	
90	97.48	119.94	217.41	
95	139.84	107.68	247.52	
100	175.42	95.96	271.38	
105	201.34	85.41	286.76	
110	218.00	77.32	295.32	
115	228.96	70.85	299.81	
120	235.12	65.25	300.37	
125	236.23	59.54	295.76	
130	232.20	53.63	285.83	
135	223.68	47.93	271.61	
140	212.84	42.56	255.40	
145	202.80	37.58	240.37	
150	193.09	32.84	225.93	
155	183.43	28.24	211.67	
160	173.87	23.74	197.61	
165	164.42	19.34	183.76	
170	155.09	15.07	170.16	
175	146.29	11.14	157.43	
180	139.07	8.12	147.19	
185	132.58	6.10	138.67	
190	126.48	4.63	131.11	
195	120.64	3.51	124.14	
200	114.98	2.66	117.64	
205	109.48	2.00	111.48	
210	104.12	1.50	105.62	
215	98.91	1.16	100.08	
220	93.74	0.92	94.67	
225	88.61	0.73	89.34	
230	83.49	0.58	84.07	
235	78.37	0.44	78.81	
240	73.26	0.33	73.59	
245	68.16	0.23	68.39	
250	63.22	0.14	63.37	
255	59.13	0.08	59.21	
260	55.91	0.04	55.95	
265	53.16	0.01	53.17	
270	50.69	0.00	50.69	
275	48.43	0.00	48.43	
280	46.33	0.00	46.33	
285	44.36	0.00	44.36	
290	42.52	0.00	42.52	
295	40.76	0.00	40.76	
300	39.02	0.00	39.02	
305	37.30	0.00	37.30	
310	35.58	0.00	35.58	
315	33.87	0.00	33.87	
320	32.16	0.00	32.16	
325	30.45	0.00	30.45	
330	28.74	0.00	28.74	
335	27.04	0.00	27.04	
340	25.33	0.00	25.33	
345	23.63	0.00	23.63	
350	21.94	0.00	21.94	
355	20.24	0.00	20.24	
360	18.54	0.00	18.54	
365	16.84	0.00	16.84	
370	15.14	0.00	15.14	
375	13.45	0.00	13.45	
380	11.75	0.00	11.75	
385	10.05	0.00	10.05	
390	8.35	0.00	8.35	
395	6.65	0.00	6.65	
400	4.96	0.00	4.96	
405	3.37	0.00	3.37	
410	2.29	0.00	2.29	
415	1.59	0.00	1.59	
420	1.10	0.00	1.10	
425	0.73	0.00	0.73	
430	0.47	0.00	0.47	
435	0.28	0.00	0.28	
440	0.15	0.00	0.15	
445	0.10	0.00	0.10	
450	0.07	0.00	0.07	
455	0.05	0.00	0.05	
460	0.04		0.04	
465	0.03		0.03	
470	0.02		0.02	
475	0.01		0.01	
480	0.01		0.01	
485	0.00		0.00	

time in minutes	DR621	DR620	Total to DR621	max
0	0.00		0.00	231
5	0.00		0.00	
10	0.00		0.00	
15	0.04		0.04	
20	0.52		0.52	
25	14.88		14.88	
30	96.27		96.27	
35	177.79		177.79	
40	213.24		213.24	
45	217.56	0.00	217.56	
50	209.17	0.00	209.17	
55	195.93	0.00	195.93	
60	181.97	0.01	181.98	
65	171.58	0.07	171.66	
70	156.46	1.99	158.45	
75	137.78	14.97	152.75	
80	117.57	42.31	159.88	
85	98.11	77.50	175.61	
90	83.72	111.64	195.36	
95	72.42	140.40	212.82	
100	62.92	161.43	224.35	
105	54.43	174.96	229.39	
110	46.71	183.91	230.61	
115	39.46	189.04	228.50	
120	32.70	190.15	222.85	
125	26.32	187.18	213.50	
130	19.99	180.56	200.56	
135	13.99	171.71	185.70	
140	9.31	163.59	172.90	
145	6.37	155.82	162.19	
150	4.36	148.09	152.45	
155	2.89	140.46	143.35	
160	1.83	132.92	134.75	
165	1.06	125.46	126.53	
170	0.55	118.35	118.90	
175	0.28	112.34	112.62	
180	0.18	107.06	107.23	
185	0.12	102.17	102.29	
190	0.10	97.52	97.61	
195	0.07	93.03	93.10	
200	0.05	88.67	88.72	
205	0.04	84.43	84.47	
210	0.02	80.31	80.34	
215	0.01	76.24	76.25	
220	0.01	72.20	72.20	
225	0.00	68.17	68.17	
230	0.00	64.14	64.14	
235	0.00	60.11	60.11	
240	0.00	56.09	56.09	
245	0.00	52.10	52.10	
250	0.00	48.41	48.41	
255	0.00	45.64	45.64	
260	0.00	43.35	43.35	
265	0.00	41.31	41.31	
270	0.00	39.47	39.47	
275	0.00	37.77	37.77	
280	0.00	36.18	36.18	
285	0.00	34.69	34.69	
290	0.00	33.29	33.29	
295	0.00	31.92	31.92	
300	0.00	30.57	30.57	
305	0.00	29.22	29.22	
310	0.00	27.87	27.87	
315	0.00	26.53	26.53	
320	0.00	25.18	25.18	
325	0.00	23.84	23.84	
330	0.00	22.49	22.49	
335	0.00	21.15	21.15	
340	0.00	19.81	19.81	
345	0.00	18.47	18.47	
350	0.00	17.13	17.13	
355	0.00	15.79	15.79	
360	0.00	14.46	14.46	
365	0.00	13.12	13.12	
370	0.00	11.78	11.78	
375	0.00	10.44	10.44	
380	0.00	9.10	9.10	
385	0.00	7.76	7.76	
390	0.00	6.42	6.42	
395	0.00	5.08	5.08	
400	0.00	3.74	3.74	
405	0.00	2.49	2.49	
410	0.00	1.68	1.68	
415	0.00	1.16	1.16	
420	0.00	0.78	0.78	
425	0.00	0.51	0.51	
430	0.00	0.31	0.31	
435	0.00	0.17	0.17	
440	0.00	0.08	0.08	
445	0.00	0.05	0.05	
450	0.00	0.03	0.03	
455	0.00	0.02	0.02	
460		0.02	0.02	
465		0.01	0.01	
470		0.01	0.01	
475		0.01	0.01	
480		0.00	0.00	
485		0.00	0.00	

DRB SWMM INPUT

DRB Ponding Areas

[TITLE]

;;Project Title/Notes

[OPTIONS]

```

;;Option      value
FLOW_UNITS    CFS
INFILTRATION  HORTON
FLOW_ROUTING  DYNWAVE
LINK_OFFSETS  DEPTH
MIN_SLOPE     0
ALLOW_PONDING YES
SKIP_STEADY_STATE NO

START_DATE    05/10/2018
START_TIME    00:00:00
REPORT_START_DATE 05/10/2018
REPORT_START_TIME 00:00:00
END_DATE      05/10/2018
END_TIME      10:00:00
SWEEP_START   01/01
SWEEP_END     12/31
DRY_DAYS      0
REPORT_STEP   00:00:05
WET_STEP      00:05:00
DRY_STEP      01:00:00
ROUTING_STEP  0:00:05
    
```

```

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP     0.75
LENGTHENING_STEP  0
MIN_SURFAREA      12.557
MAX_TRIALS         8
HEAD_TOLERANCE    0.005
SYS_FLOW_TOL      5
LAT_FLOW_TOL      5
MINIMUM_STEP      0.5
THREADS           1
    
```

[EVAPORATION]

```

;;Data Source Parameters
-----
CONSTANT 0.0
DRY_ONLY NO
    
```

[OUTFALLS]

;;Name	Elevation	Type	Stage Data	Gated	Route To
DRB3_0	4936.84	FREE		NO	
DRB4_0	4923.14	FREE		NO	
DRB6-0	20	FREE		NO	
DRB7-0	44.5	FREE		NO	
DRB2-0	4997	FREE		NO	
DRB8-0	21.99	FREE		NO	
DRB9-0	42.4	FREE		NO	
DRB10-0	66.56	FREE		NO	
DRB11-0	61	FREE		NO	
DRB13-0	58.97	FREE		NO	
DRB14-0	30	FREE		NO	
DRB15-0	83	FREE		NO	
DRB16-0	77.69	FREE		NO	
DRB18-0	3.52	FREE		NO	

DRB Ponding Areas

DRB22(1)-0	70	FREE	NO
DRB22(2)-0	70	FREE	NO
DRB23-0	93.11	FREE	NO

[STORAGE]

;;Name N/A	Fevap	Elev. Psi	MaxDepth Ksat	InitDepth IMD	Shape	Curve Name/Params
DRB1 0	0	5010	6	0	TABULAR	DRB1
DRB3 0	0	4939.81	10	0	TABULAR	DRB3
DRB4 0	0	4926.4	20	0	FUNCTIONAL	1000 0 0
DRB5 0	0	4926	1	0	TABULAR	DRB5
DRB6 0	0	21	4	0	TABULAR	DRB6
DRB7 0	0	45	10	0	TABULAR	DRB7
DRB2 0	0	5002	2	0	TABULAR	DRB2
DRB8 0	0	23.53	3	0	TABULAR	DRB8
DRB9 0	0	43	2	0	TABULAR	DRB9
DRB10 0	0	67	3	0	TABULAR	DRB10
DRB11 0	0	62	5	0	TABULAR	DRB11
DRB12 0	0	55	4	0	TABULAR	DRB12
DRB13 0	0	59.98	2	0	TABULAR	DRB13
DRB14 0	0	35	7	0	TABULAR	DRB14
DRB15 0	0	85	2	0	TABULAR	DRB15
DRB16 0	0	80	2	0	TABULAR	DRB16
DRB17 0	0	98	3	0	TABULAR	DRB17
DRB18 0	0	5.53	3	0	TABULAR	DRB18
DRB19 0	0	4	2	0	TABULAR	DRB19
DRB21 0	0	12	5	0	TABULAR	DRB21
DRB22 0	0	73	7	0	TABULAR	DRB22
DRB23 0	0	94.33	2	0	TABULAR	DRB23

[CONDUITS]

;;Name OutOffset	InitFlow	From Node MaxFlow	To Node	Length	Roughness	InOffset
DRB3 0	0	DRB3 0	DRB3_0	74	0.024	0
DRB4 0	0	DRB4 0	DRB4_0	79	.016	0

		DRB Ponding Areas				
DRB6		DRB6	DRB6-0	45	.024	0
0	0	0				
DRB7		DRB7	DRB7-0	66	.016	0
0	0	0				
DRB2		DRB2	DRB2-0	100	.024	0
0	0	0				
DRB8		DRB8	DRB8-0	80	.024	0
0	0	0				
DRB9		DRB9	DRB9-0	70	.024	0
0	0	0				
DRB10		DRB10	DRB10-0	100	.013	0
0	0	0				
DRB11		DRB11	DRB11-0	100	.013	0
0	0	0				
DRB13		DRB13	DRB13-0	100	.024	0
0	0	0				
DRB14		DRB14	DRB14-0	155	.024	0
0	0	0				
DRB15		DRB15	DRB15-0	75	.024	0
0	0	0				
DRB16		DRB16	DRB16-0	62	.024	0
0	0	0				
DRB18		DRB18	DRB18-0	50	.024	0
0	0	0				
DRB22(1)		DRB22	DRB22(1)-0	115	.024	0
0	0	0				
DRB22(2)		DRB22	DRB22(2)-0	115	.024	0
0	0	0				
DRB23		DRB23	DRB23-0	115	.024	0
0	0	0				

[XSECTIONS]		Shape	Geom1	Geom2	Geom3	Geom4	
;;Link	Barrels	Culvert					
;;							
DRB3		CIRCULAR	1.5	0	0	0	1
DRB4		RECT_CLOSED	5	5	0	0	1
DRB6		CIRCULAR	3	0	0	0	1
DRB7		CIRCULAR	5	0	0	0	1
DRB2		CIRCULAR	1	0	0	0	1
DRB8		CIRCULAR	4.667	0	0	0	1
DRB9		CIRCULAR	1.33	0	0	0	1
DRB10		RECT_CLOSED	2	12	0	0	1
DRB11		RECT_CLOSED	2	12	0	0	1
DRB13		CIRCULAR	1	0	0	0	1
DRB14		CIRCULAR	3	0	0	0	1
DRB15		CIRCULAR	1.5	0	0	0	1
DRB16		CIRCULAR	1.41667	0	0	0	1
DRB18		CIRCULAR	2.33	0	0	0	1

DRB Ponding Areas

DRB22(1)	CIRCULAR	4	0	0	0	1
DRB22(2)	CIRCULAR	4	0	0	0	1
DRB23	CIRCULAR	1.5	0	0	0	1

[INFLOWS]
 ;;Node
 Baseline Pattern
 ;;

Constituent	Time Series	Type	Mfactor	Sfactor
DRB1	DRB1	FLOW	1.0	1.0
DRB3	DRB3	FLOW	1.0	1.0
DRB4	DRB4	FLOW	1.0	1.0
DRB5	DRB5	FLOW	1.0	1.0
DRB6	DRB6N	FLOW	1.0	1.0
DRB7	DRB7N	FLOW	1.0	1.0
DRB2	DRB2	FLOW	1.0	1.0
DRB8	DRB8	FLOW	1.0	1.0
DRB9	DRB9	FLOW	1.0	1.0
DRB10	DRB10	FLOW	1.0	1.0
DRB11	DRB11	FLOW	1.0	1.0
DRB12	DRB12	FLOW	1.0	1.0
DRB13	DRB13	FLOW	1.0	1.0
DRB14	DRB14	FLOW	1.0	1.0
DRB15	DRB15	FLOW	1.0	1.0
DRB16	DRB16	FLOW	1.0	1.0
DRB17	DRB17	FLOW	1.0	1.0
DRB18	DRB18	FLOW	1.0	1.0
DRB19	DRB19	FLOW	1.0	1.0
DRB21	DRB21	FLOW	1.0	1.0
DRB22	DRB22	FLOW	1.0	1.0
DRB23	DRB23	FLOW	1.0	1.0

[CURVES]
 ;;Name
 ;;

DRB1	Storage	0	310177
DRB1		1	329696

DRB Ponding Areas

DRB1		2	339384
DRB1		3	357111
DRB1		4	428754
DRB1		5	557080
;			
DRB3	Storage	0	0
DRB3		1	0
DRB3		2	0
DRB3		3	0
DRB3		4	391
DRB3		5	985
DRB3		6	2019
DRB3		7	3636
DRB3		8	6702
DRB3		9	10398
;			
DRB4	Storage	0	0
DRB4		1	0
DRB4		2	0
DRB4		3	93
DRB4		4	593
DRB4		5	2131
DRB4		6	4612
DRB4		7	28289
DRB4		8	73818
DRB4		9	125472
DRB4		10	171176
DRB4		11	215788
DRB4		12	262472
DRB4		13	309870
DRB4		14	356226
DRB4		15	404077
DRB4		16	452664
DRB4		17	508137
DRB4		18	560305
DRB4		19	616361
DRB4		20	681994
;			
DRB5	Storage	0	1014
DRB5		1	10488
;			
DRB6	Storage	0	1
DRB6		2	53
DRB6		3	331
DRB6		4	33030
;			
DRb7	Storage	0	41
DRb7		2	106
DRb7		3	180
DRb7		4	273
DRb7		5	441
DRb7		6	832
DRb7		7	7525
DRb7		8	21055
DRb7		9	34923
DRb7		10	51206
;			
DRB2	Storage	0	590
DRB2		1	15855
;			
DRB8	Storage	0	100
DRB8		1	190
DRB8		2	9040

DRB Ponding Areas

;			
DRB9	Storage	0	370
DRB9		1	6494
;			
DRB10	Storage	0	100
DRB10		1	104333
DRB10		2	200745
;			
DRB11	Storage	0	1541
DRB11		1	39952
DRB11		2	79599
DRB11		3	120000
DRB11		4	189680
;			
DRB12	Storage	0	20000
DRB12		1	235018
DRB12		2	425692
DRB12		3	498148
;			
DRB13	Storage	0	69104
DRB13		1	186045
;			
DRB14	Storage	0	1300
DRB14		1	17532
DRB14		2	28716
DRB14		3	48155
DRB14		4	60994
DRB14		5	75000
DRB14		6	92524
;			
DRB15	Storage	0	3016
DRB15		1	22875
;			
DRB16	Storage	0	405
DRB16		1	4528
;			
DRB17	Storage	0	605322
DRB17		1	637490
DRB17		2	670000
;			
DRB18	Storage	0	400
DRB18		1	442
DRB18		2	3732
;			
DRB19	Storage	0	881357
DRB19		1	940000
;			
DRB21	Storage	0	4126
DRB21		1	57344
DRB21		2	62605
DRB21		3	65000
DRB21		4	68629
;			
DRB22	Storage	0	1009
DRB22		1	7955
DRB22		2	20000
DRB22		3	38925
DRB22		4	77076
DRB22		5	155302
DRB22		6	249585
;			
DRB23	Storage	0	8672
DRB23		1	10000

DRB Ponding Areas

[TIMESERIES] ;;Name ;;-----	Date	Time	Value
DRB1	5/10/2018	0:00	0.00
DRB1	5/10/2018	0:05	0.00
DRB1	5/10/2018	0:10	0.00
DRB1	5/10/2018	0:15	0.85
DRB1	5/10/2018	0:20	2.74
DRB1	5/10/2018	0:25	10.23
DRB1	5/10/2018	0:30	47.29
DRB1	5/10/2018	0:35	67.60
DRB1	5/10/2018	0:40	73.17
DRB1	5/10/2018	0:45	71.84
DRB1	5/10/2018	0:50	68.52
DRB1	5/10/2018	0:55	63.57
DRB1	5/10/2018	1:00	59.57
DRB1	5/10/2018	1:05	56.25
DRB1	5/10/2018	1:10	49.93
DRB1	5/10/2018	1:15	43.44
DRB1	5/10/2018	1:20	36.69
DRB1	5/10/2018	1:25	31.46
DRB1	5/10/2018	1:30	27.37
DRB1	5/10/2018	1:35	24.01
DRB1	5/10/2018	1:40	21.02
DRB1	5/10/2018	1:45	18.30
DRB1	5/10/2018	1:50	15.76
DRB1	5/10/2018	1:55	13.37
DRB1	5/10/2018	2:00	11.15
DRB1	5/10/2018	2:05	8.65
DRB1	5/10/2018	2:10	6.27
DRB1	5/10/2018	2:15	4.48
DRB1	5/10/2018	2:20	3.29
DRB1	5/10/2018	2:25	2.43
DRB1	5/10/2018	2:30	1.78
DRB1	5/10/2018	2:35	1.29
DRB1	5/10/2018	2:40	0.92
DRB1	5/10/2018	2:45	0.65
DRB1	5/10/2018	2:50	0.48
DRB1	5/10/2018	2:55	0.38
DRB1	5/10/2018	3:00	0.30
DRB1	5/10/2018	3:05	0.24
DRB1	5/10/2018	3:10	0.18
DRB1	5/10/2018	3:15	0.13
DRB1	5/10/2018	3:20	0.09
DRB1	5/10/2018	3:25	0.06
DRB1	5/10/2018	3:30	0.03
DRB1	5/10/2018	3:35	0.01
DRB1	5/10/2018	3:40	0.00
DRB1	5/10/2018	3:45	0.00
DRB1	5/10/2018	3:50	0.00
DRB1	5/10/2018	3:55	0.00
DRB1	5/10/2018	4:00	0.00
DRB1	5/10/2018	4:05	0.00
DRB1	5/10/2018	4:10	0.00
DRB1	5/10/2018	4:15	0.00
DRB1	5/10/2018	4:20	0.00
DRB1	5/10/2018	4:25	0.00
DRB1	5/10/2018	4:30	0.00
DRB1	5/10/2018	4:35	0.00
DRB1	5/10/2018	4:40	0.00
DRB1	5/10/2018	4:45	0.00
DRB1	5/10/2018	4:50	0.00

DRB Ponding Areas

DRB1	5/10/2018	4:55	0.00
DRB1	5/10/2018	5:00	0.00
DRB1	5/10/2018	5:05	0.00
DRB1	5/10/2018	5:10	0.00
DRB1	5/10/2018	5:15	0.00
DRB1	5/10/2018	5:20	0.00
DRB1	5/10/2018	5:25	0.00
DRB1	5/10/2018	5:30	0.00
DRB1	5/10/2018	5:35	0.00
DRB1	5/10/2018	5:40	0.00
DRB1	5/10/2018	5:45	0.00
DRB1	5/10/2018	5:50	0.00
DRB1	5/10/2018	5:55	0.00
DRB1	5/10/2018	6:00	0.00
DRB1	5/10/2018	6:05	0.00
DRB1	5/10/2018	6:10	0.00
DRB1	5/10/2018	6:15	0.00
DRB1	5/10/2018	6:20	0.00
DRB1	5/10/2018	6:25	0.00
DRB1	5/10/2018	6:30	0.00
DRB1	5/10/2018	6:35	0.00
DRB1	5/10/2018	6:40	0.00
DRB1	5/10/2018	6:45	0.00
DRB1	5/10/2018	6:50	0.00
DRB1	5/10/2018	6:55	0.00
DRB1	5/10/2018	7:00	0.00
DRB1	5/10/2018	7:05	0.00
DRB1	5/10/2018	7:10	0.00
DRB1	5/10/2018	7:15	0.00
DRB1	5/10/2018	7:20	0.00
DRB1	5/10/2018	7:25	0.00
DRB1	5/10/2018	7:30	0.00
DRB1	5/10/2018	7:35	0.00
;			
DRB3	5/10/2018	0:00	0.00
DRB3	5/10/2018	0:05	0.00
DRB3	5/10/2018	0:10	0.00
DRB3	5/10/2018	0:15	0.07
DRB3	5/10/2018	0:20	0.23
DRB3	5/10/2018	0:25	1.59
DRB3	5/10/2018	0:30	12.69
DRB3	5/10/2018	0:35	22.49
DRB3	5/10/2018	0:40	27.34
DRB3	5/10/2018	0:45	29.83
DRB3	5/10/2018	0:50	30.87
DRB3	5/10/2018	0:55	30.64
DRB3	5/10/2018	1:00	29.90
DRB3	5/10/2018	1:05	29.38
DRB3	5/10/2018	1:10	28.00
DRB3	5/10/2018	1:15	26.50
DRB3	5/10/2018	1:20	29.51
DRB3	5/10/2018	1:25	33.99
DRB3	5/10/2018	1:30	35.95
DRB3	5/10/2018	1:35	36.45
DRB3	5/10/2018	1:40	36.29
DRB3	5/10/2018	1:45	35.57
DRB3	5/10/2018	1:50	34.49
DRB3	5/10/2018	1:55	33.21
DRB3	5/10/2018	2:00	31.38
DRB3	5/10/2018	2:05	29.32
DRB3	5/10/2018	2:10	27.25
DRB3	5/10/2018	2:15	25.38
DRB3	5/10/2018	2:20	23.70

DRB Ponding Areas

DRB3	5/10/2018	2:25	22.14
DRB3	5/10/2018	2:30	20.65
DRB3	5/10/2018	2:35	19.32
DRB3	5/10/2018	2:40	18.15
DRB3	5/10/2018	2:45	17.06
DRB3	5/10/2018	2:50	16.04
DRB3	5/10/2018	2:55	15.05
DRB3	5/10/2018	3:00	14.08
DRB3	5/10/2018	3:05	13.12
DRB3	5/10/2018	3:10	12.17
DRB3	5/10/2018	3:15	11.24
DRB3	5/10/2018	3:20	10.31
DRB3	5/10/2018	3:25	9.38
DRB3	5/10/2018	3:30	8.45
DRB3	5/10/2018	3:35	7.52
DRB3	5/10/2018	3:40	6.68
DRB3	5/10/2018	3:45	5.94
DRB3	5/10/2018	3:50	5.31
DRB3	5/10/2018	3:55	4.84
DRB3	5/10/2018	4:00	4.47
DRB3	5/10/2018	4:05	4.15
DRB3	5/10/2018	4:10	3.88
DRB3	5/10/2018	4:15	3.64
DRB3	5/10/2018	4:20	3.42
DRB3	5/10/2018	4:25	3.23
DRB3	5/10/2018	4:30	3.04
DRB3	5/10/2018	4:35	2.86
DRB3	5/10/2018	4:40	2.68
DRB3	5/10/2018	4:45	2.50
DRB3	5/10/2018	4:50	2.33
DRB3	5/10/2018	4:55	2.15
DRB3	5/10/2018	5:00	1.98
DRB3	5/10/2018	5:05	1.80
DRB3	5/10/2018	5:10	1.63
DRB3	5/10/2018	5:15	1.46
DRB3	5/10/2018	5:20	1.29
DRB3	5/10/2018	5:25	1.11
DRB3	5/10/2018	5:30	0.94
DRB3	5/10/2018	5:35	0.77
DRB3	5/10/2018	5:40	0.60
DRB3	5/10/2018	5:45	0.43
DRB3	5/10/2018	5:50	0.28
DRB3	5/10/2018	5:55	0.19
DRB3	5/10/2018	6:00	0.13
DRB3	5/10/2018	6:05	0.08
DRB3	5/10/2018	6:10	0.05
DRB3	5/10/2018	6:15	0.03
DRB3	5/10/2018	6:20	0.02
DRB3	5/10/2018	6:25	0.01
DRB3	5/10/2018	6:30	0.01
DRB3	5/10/2018	6:35	0.00
DRB3	5/10/2018	6:40	0.00
DRB3	5/10/2018	6:45	0.00
DRB3	5/10/2018	6:50	0.00
DRB3	5/10/2018	6:55	0.00
DRB3	5/10/2018	7:00	0.00
DRB3	5/10/2018	7:05	0.00
DRB3	5/10/2018	7:10	0.00
DRB3	5/10/2018	7:15	0.00
;			
DRB4	5/10/2018	0:00	0.00
DRB4	5/10/2018	0:05	0.00
DRB4	5/10/2018	0:10	0.01

DRB Ponding Areas

DRB4	5/10/2018	0:15	0.10
DRB4	5/10/2018	0:20	0.71
DRB4	5/10/2018	0:25	8.89
DRB4	5/10/2018	0:30	55.32
DRB4	5/10/2018	0:35	147.21
DRB4	5/10/2018	0:40	258.29
DRB4	5/10/2018	0:45	359.76
DRB4	5/10/2018	0:50	438.90
DRB4	5/10/2018	0:55	490.53
DRB4	5/10/2018	1:00	520.71
DRB4	5/10/2018	1:05	535.45
DRB4	5/10/2018	1:10	534.87
DRB4	5/10/2018	1:15	520.50
DRB4	5/10/2018	1:20	502.88
DRB4	5/10/2018	1:25	501.66
DRB4	5/10/2018	1:30	546.81
DRB4	5/10/2018	1:35	599.20
DRB4	5/10/2018	1:40	614.89
DRB4	5/10/2018	1:45	604.41
DRB4	5/10/2018	1:50	582.58
DRB4	5/10/2018	1:55	555.98
DRB4	5/10/2018	2:00	529.02
DRB4	5/10/2018	2:05	503.88
DRB4	5/10/2018	2:10	494.35
DRB4	5/10/2018	2:15	552.19
DRB4	5/10/2018	2:20	618.15
DRB4	5/10/2018	2:25	643.11
DRB4	5/10/2018	2:30	639.88
DRB4	5/10/2018	2:35	615.29
DRB4	5/10/2018	2:40	578.53
DRB4	5/10/2018	2:45	542.43
DRB4	5/10/2018	2:50	511.76
DRB4	5/10/2018	2:55	478.13
DRB4	5/10/2018	3:00	444.47
DRB4	5/10/2018	3:05	410.50
DRB4	5/10/2018	3:10	377.21
DRB4	5/10/2018	3:15	347.46
DRB4	5/10/2018	3:20	330.15
DRB4	5/10/2018	3:25	344.94
DRB4	5/10/2018	3:30	340.82
DRB4	5/10/2018	3:35	322.78
DRB4	5/10/2018	3:40	299.81
DRB4	5/10/2018	3:45	276.19
DRB4	5/10/2018	3:50	251.78
DRB4	5/10/2018	3:55	229.74
DRB4	5/10/2018	4:00	210.20
DRB4	5/10/2018	4:05	188.26
DRB4	5/10/2018	4:10	166.99
DRB4	5/10/2018	4:15	145.82
DRB4	5/10/2018	4:20	126.83
DRB4	5/10/2018	4:25	109.43
DRB4	5/10/2018	4:30	93.09
DRB4	5/10/2018	4:35	77.38
DRB4	5/10/2018	4:40	62.24
DRB4	5/10/2018	4:45	48.64
DRB4	5/10/2018	4:50	38.39
DRB4	5/10/2018	4:55	30.63
DRB4	5/10/2018	5:00	23.87
DRB4	5/10/2018	5:05	18.24
DRB4	5/10/2018	5:10	14.04
DRB4	5/10/2018	5:15	11.05
DRB4	5/10/2018	5:20	8.92
DRB4	5/10/2018	5:25	7.46

DRB Ponding Areas

DRB4	5/10/2018	5:30	6.38
DRB4	5/10/2018	5:35	5.54
DRB4	5/10/2018	5:40	4.86
DRB4	5/10/2018	5:45	4.34
DRB4	5/10/2018	5:50	3.90
DRB4	5/10/2018	5:55	3.51
DRB4	5/10/2018	6:00	3.16
DRB4	5/10/2018	6:05	2.82
DRB4	5/10/2018	6:10	2.51
DRB4	5/10/2018	6:15	2.22
DRB4	5/10/2018	6:20	1.95
DRB4	5/10/2018	6:25	1.70
DRB4	5/10/2018	6:30	1.45
DRB4	5/10/2018	6:35	1.21
DRB4	5/10/2018	6:40	0.99
DRB4	5/10/2018	6:45	0.77
DRB4	5/10/2018	6:50	0.55
DRB4	5/10/2018	6:55	0.37
DRB4	5/10/2018	7:00	0.25
DRB4	5/10/2018	7:05	0.17
DRB4	5/10/2018	7:10	0.12
DRB4	5/10/2018	7:15	0.08
DRB4	5/10/2018	7:20	0.05
DRB4	5/10/2018	7:25	0.03
DRB4	5/10/2018	7:30	0.01
DRB4	5/10/2018	7:35	0.01
DRB4	5/10/2018	7:40	0.01
DRB4	5/10/2018	7:45	0.01
DRB4	5/10/2018	7:50	0.00
DRB4	5/10/2018	7:55	0.00
DRB4	5/10/2018	8:00	0.00
DRB4	5/10/2018	8:05	0.00
DRB4	5/10/2018	8:10	0.00
DRB4	5/10/2018	8:15	0.00
DRB4	5/10/2018	8:20	0.00
DRB4	5/10/2018	8:25	0.00
;			
DRB5	5/10/2018	0:00	0
DRB5	5/10/2018	0:05	0
DRB5	5/10/2018	0:10	0.003145189
DRB5	5/10/2018	0:15	0.038990981
DRB5	5/10/2018	0:20	0.193652596
DRB5	5/10/2018	0:25	1.4756351
DRB5	5/10/2018	0:30	6.491537259
DRB5	5/10/2018	0:35	8.995315628
DRB5	5/10/2018	0:40	9.914502846
DRB5	5/10/2018	0:45	10.12165587
DRB5	5/10/2018	0:50	9.913761213
DRB5	5/10/2018	0:55	9.537138559
DRB5	5/10/2018	1:00	9.250063208
DRB5	5/10/2018	1:05	9.490801331
DRB5	5/10/2018	1:10	16.97485365
DRB5	5/10/2018	1:15	62.76947694
DRB5	5/10/2018	1:20	153.9301912
DRB5	5/10/2018	1:25	264.3083508
DRB5	5/10/2018	1:30	365.1170357
DRB5	5/10/2018	1:35	443.6188889
DRB5	5/10/2018	1:40	494.6560869
DRB5	5/10/2018	1:45	524.4029149
DRB5	5/10/2018	1:50	538.7948656
DRB5	5/10/2018	1:55	537.9039707
DRB5	5/10/2018	2:00	523.2550252
DRB5	5/10/2018	2:05	505.348187

DRB Ponding Areas

DRB5	5/10/2018	2:10	503.8637038
DRB5	5/10/2018	2:15	548.7656321
DRB5	5/10/2018	2:20	600.9216573
DRB5	5/10/2018	2:25	616.3937744
DRB5	5/10/2018	2:30	605.6861556
DRB5	5/10/2018	2:35	583.6395024
DRB5	5/10/2018	2:40	556.8237547
DRB5	5/10/2018	2:45	529.650848
DRB5	5/10/2018	2:50	504.3132466
DRB5	5/10/2018	2:55	494.6543434
DRB5	5/10/2018	3:00	552.4141057
DRB5	5/10/2018	3:05	618.3099525
DRB5	5/10/2018	3:10	643.2240255
DRB5	5/10/2018	3:15	639.9595226
DRB5	5/10/2018	3:20	615.3420064
DRB5	5/10/2018	3:25	578.5671054
DRB5	5/10/2018	3:30	542.4542256
DRB5	5/10/2018	3:35	511.7807196
DRB5	5/10/2018	3:40	478.1472364
DRB5	5/10/2018	3:45	444.4863668
DRB5	5/10/2018	3:50	410.5058334
DRB5	5/10/2018	3:55	377.2183029
DRB5	5/10/2018	4:00	347.4613354
DRB5	5/10/2018	4:05	330.1571033
DRB5	5/10/2018	4:10	344.9365701
DRB5	5/10/2018	4:15	340.8247647
DRB5	5/10/2018	4:20	322.7814904
DRB5	5/10/2018	4:25	299.8061155
DRB5	5/10/2018	4:30	276.1924263
DRB5	5/10/2018	4:35	251.7774386
DRB5	5/10/2018	4:40	229.7433886
DRB5	5/10/2018	4:45	210.1970413
DRB5	5/10/2018	4:50	188.2630846
DRB5	5/10/2018	4:55	166.9925778
DRB5	5/10/2018	5:00	145.8168589
DRB5	5/10/2018	5:05	126.8324781
DRB5	5/10/2018	5:10	109.4286598
DRB5	5/10/2018	5:15	93.08831151
DRB5	5/10/2018	5:20	77.37794603
DRB5	5/10/2018	5:25	62.2428459
DRB5	5/10/2018	5:30	48.64228796
DRB5	5/10/2018	5:35	38.38894908
DRB5	5/10/2018	5:40	30.62855162
DRB5	5/10/2018	5:45	23.86673239
DRB5	5/10/2018	5:50	18.23761196
DRB5	5/10/2018	5:55	14.03945452
DRB5	5/10/2018	6:00	11.05271799
DRB5	5/10/2018	6:05	8.920682002
DRB5	5/10/2018	6:10	7.461964254
DRB5	5/10/2018	6:15	6.376659931
DRB5	5/10/2018	6:20	5.538496462
DRB5	5/10/2018	6:25	4.863112735
DRB5	5/10/2018	6:30	4.335378134
DRB5	5/10/2018	6:35	3.899453059
DRB5	5/10/2018	6:40	3.513414714
DRB5	5/10/2018	6:45	3.157261525
DRB5	5/10/2018	6:50	2.823189309
DRB5	5/10/2018	6:55	2.511201228
DRB5	5/10/2018	7:00	2.221299123
DRB5	5/10/2018	7:05	1.952081896
DRB5	5/10/2018	7:10	1.695817652
DRB5	5/10/2018	7:15	1.450316945
DRB5	5/10/2018	7:20	1.2149289

DRB Ponding Areas

DRB5	5/10/2018	7:25	0.989678349
DRB5	5/10/2018	7:30	0.767982011
DRB5	5/10/2018	7:35	0.550849995
DRB5	5/10/2018	7:40	0.365660099
DRB5	5/10/2018	7:45	0.251185838
DRB5	5/10/2018	7:50	0.174265525
DRB5	5/10/2018	7:55	0.11807144
DRB5	5/10/2018	8:00	0.077078937
DRB5	5/10/2018	8:05	0.047422309
DRB5	5/10/2018	8:10	0.026558874
DRB5	5/10/2018	8:15	0.014521422
DRB5	5/10/2018	8:20	0.009642015
DRB5	5/10/2018	8:25	0.006733886
DRB5	5/10/2018	8:30	0.005356614
DRB5	5/10/2018	8:35	0.004136451
DRB5	5/10/2018	8:40	0.003073513
DRB5	5/10/2018	8:45	0.002167869
DRB5	5/10/2018	8:50	0.001419559
DRB5	5/10/2018	8:55	0.000828606
DRB5	5/10/2018	9:00	0.000395024
DRB5	5/10/2018	9:05	0.000118821
DRB5	5/10/2018	9:10	0
DRB5	5/10/2018	9:15	0
;			
DRB6	5/10/2018	0:00	0.00
DRB6	5/10/2018	0:05	0.00
DRB6	5/10/2018	0:10	0.00
DRB6	5/10/2018	0:15	0.02
DRB6	5/10/2018	0:20	0.07
DRB6	5/10/2018	0:25	0.80
DRB6	5/10/2018	0:30	8.89
DRB6	5/10/2018	0:35	14.65
DRB6	5/10/2018	0:40	17.36
DRB6	5/10/2018	0:45	18.69
DRB6	5/10/2018	0:50	19.05
DRB6	5/10/2018	0:55	18.55
DRB6	5/10/2018	1:00	18.12
DRB6	5/10/2018	1:05	17.78
DRB6	5/10/2018	1:10	16.77
DRB6	5/10/2018	1:15	16.08
DRB6	5/10/2018	1:20	19.10
DRB6	5/10/2018	1:25	20.12
DRB6	5/10/2018	1:30	19.90
DRB6	5/10/2018	1:35	19.17
DRB6	5/10/2018	1:40	18.10
DRB6	5/10/2018	1:45	16.93
DRB6	5/10/2018	1:50	15.84
DRB6	5/10/2018	1:55	14.95
DRB6	5/10/2018	2:00	16.16
DRB6	5/10/2018	2:05	46.27
DRB6	5/10/2018	2:10	114.87
DRB6	5/10/2018	2:15	202.03
DRB6	5/10/2018	2:20	283.24
DRB6	5/10/2018	2:25	347.71
DRB6	5/10/2018	2:30	389.86
DRB6	5/10/2018	2:35	414.48
DRB6	5/10/2018	2:40	426.69
DRB6	5/10/2018	2:45	426.45
DRB6	5/10/2018	2:50	413.02
DRB6	5/10/2018	2:55	393.12
DRB6	5/10/2018	3:00	372.82
DRB6	5/10/2018	3:05	351.29
DRB6	5/10/2018	3:10	330.17

DRB Ponding Areas

DRB6	5/10/2018	3:15	318.52
DRB6	5/10/2018	3:20	305.78
DRB6	5/10/2018	3:25	291.68
DRB6	5/10/2018	3:30	277.89
DRB6	5/10/2018	3:35	264.23
DRB6	5/10/2018	3:40	250.12
DRB6	5/10/2018	3:45	236.10
DRB6	5/10/2018	3:50	222.59
DRB6	5/10/2018	3:55	208.54
DRB6	5/10/2018	4:00	194.71
DRB6	5/10/2018	4:05	185.46
DRB6	5/10/2018	4:10	177.77
DRB6	5/10/2018	4:15	167.59
DRB6	5/10/2018	4:20	156.21
DRB6	5/10/2018	4:25	146.95
DRB6	5/10/2018	4:30	138.96
DRB6	5/10/2018	4:35	131.56
DRB6	5/10/2018	4:40	124.59
DRB6	5/10/2018	4:45	117.54
DRB6	5/10/2018	4:50	110.62
DRB6	5/10/2018	4:55	104.01
DRB6	5/10/2018	5:00	97.92
DRB6	5/10/2018	5:05	92.11
DRB6	5/10/2018	5:10	86.46
DRB6	5/10/2018	5:15	80.90
DRB6	5/10/2018	5:20	75.51
DRB6	5/10/2018	5:25	70.28
DRB6	5/10/2018	5:30	65.14
DRB6	5/10/2018	5:35	60.08
DRB6	5/10/2018	5:40	55.05
DRB6	5/10/2018	5:45	50.05
DRB6	5/10/2018	5:50	45.07
DRB6	5/10/2018	5:55	40.11
DRB6	5/10/2018	6:00	35.16
DRB6	5/10/2018	6:05	30.22
DRB6	5/10/2018	6:10	25.28
DRB6	5/10/2018	6:15	20.34
DRB6	5/10/2018	6:20	15.52
DRB6	5/10/2018	6:25	12.03
DRB6	5/10/2018	6:30	9.62
DRB6	5/10/2018	6:35	7.82
DRB6	5/10/2018	6:40	6.51
DRB6	5/10/2018	6:45	5.53
DRB6	5/10/2018	6:50	4.78
DRB6	5/10/2018	6:55	4.23
DRB6	5/10/2018	7:00	3.87
DRB6	5/10/2018	7:05	3.59
DRB6	5/10/2018	7:10	3.36
DRB6	5/10/2018	7:15	3.15
DRB6	5/10/2018	7:20	2.94
DRB6	5/10/2018	7:25	2.74
DRB6	5/10/2018	7:30	2.54
DRB6	5/10/2018	7:35	2.35
DRB6	5/10/2018	7:40	2.17
DRB6	5/10/2018	7:45	1.98
DRB6	5/10/2018	7:50	1.80
DRB6	5/10/2018	7:55	1.63
DRB6	5/10/2018	8:00	1.46
DRB6	5/10/2018	8:05	1.29
DRB6	5/10/2018	8:10	1.11
DRB6	5/10/2018	8:15	0.94
DRB6	5/10/2018	8:20	0.77
DRB6	5/10/2018	8:25	0.60

DRB Ponding Areas

DRB6	5/10/2018	8:30	0.43
DRB6	5/10/2018	8:35	0.28
DRB6	5/10/2018	8:40	0.19
DRB6	5/10/2018	8:45	0.13
DRB6	5/10/2018	8:50	0.08
DRB6	5/10/2018	8:55	0.05
DRB6	5/10/2018	9:00	0.03
DRB6	5/10/2018	9:05	0.02
DRB6	5/10/2018	9:10	0.01
DRB6	5/10/2018	9:15	0.01
DRB6	5/10/2018	9:20	0.00
;			
DRB7	5/10/2018	0:00	0.00
DRB7	5/10/2018	0:05	0.00
DRB7	5/10/2018	0:10	0.00
DRB7	5/10/2018	0:15	0.01
DRB7	5/10/2018	0:20	0.03
DRB7	5/10/2018	0:25	0.63
DRB7	5/10/2018	0:30	17.51
DRB7	5/10/2018	0:35	45.03
DRB7	5/10/2018	0:40	65.16
DRB7	5/10/2018	0:45	75.75
DRB7	5/10/2018	0:50	81.04
DRB7	5/10/2018	0:55	82.24
DRB7	5/10/2018	1:00	80.19
DRB7	5/10/2018	1:05	78.16
DRB7	5/10/2018	1:10	75.11
DRB7	5/10/2018	1:15	70.45
DRB7	5/10/2018	1:20	65.01
DRB7	5/10/2018	1:25	59.62
DRB7	5/10/2018	1:30	54.90
DRB7	5/10/2018	1:35	50.63
DRB7	5/10/2018	1:40	46.76
DRB7	5/10/2018	1:45	43.09
DRB7	5/10/2018	1:50	39.56
DRB7	5/10/2018	1:55	36.13
DRB7	5/10/2018	2:00	32.80
DRB7	5/10/2018	2:05	29.52
DRB7	5/10/2018	2:10	26.26
DRB7	5/10/2018	2:15	23.86
DRB7	5/10/2018	2:20	21.93
DRB7	5/10/2018	2:25	20.24
DRB7	5/10/2018	2:30	18.72
DRB7	5/10/2018	2:35	17.32
DRB7	5/10/2018	2:40	16.02
DRB7	5/10/2018	2:45	14.80
DRB7	5/10/2018	2:50	13.68
DRB7	5/10/2018	2:55	12.57
DRB7	5/10/2018	3:00	11.46
DRB7	5/10/2018	3:05	10.36
DRB7	5/10/2018	3:10	9.27
DRB7	5/10/2018	3:15	8.17
DRB7	5/10/2018	3:20	7.07
DRB7	5/10/2018	3:25	5.97
DRB7	5/10/2018	3:30	4.88
DRB7	5/10/2018	3:35	3.78
DRB7	5/10/2018	3:40	2.69
DRB7	5/10/2018	3:45	1.73
DRB7	5/10/2018	3:50	1.15
DRB7	5/10/2018	3:55	0.77
DRB7	5/10/2018	4:00	0.50
DRB7	5/10/2018	4:05	0.31
DRB7	5/10/2018	4:10	0.18

DRB Ponding Areas

DRB7	5/10/2018	4:15	0.08
DRB7	5/10/2018	4:20	0.04
DRB7	5/10/2018	4:25	0.02
DRB7	5/10/2018	4:30	0.02
DRB7	5/10/2018	4:35	0.01
DRB7	5/10/2018	4:40	0.01
DRB7	5/10/2018	4:45	0.01
DRB7	5/10/2018	4:50	0.01
DRB7	5/10/2018	4:55	0.00
;			
DRB2	5/10/2018	0:00	0.00
DRB2	5/10/2018	0:05	0.00
DRB2	5/10/2018	0:10	0.00
DRB2	5/10/2018	0:15	0.01
DRB2	5/10/2018	0:20	0.06
DRB2	5/10/2018	0:25	1.26
DRB2	5/10/2018	0:30	7.80
DRB2	5/10/2018	0:35	15.37
DRB2	5/10/2018	0:40	19.63
DRB2	5/10/2018	0:45	22.01
DRB2	5/10/2018	0:50	23.44
DRB2	5/10/2018	0:55	24.14
DRB2	5/10/2018	1:00	24.34
DRB2	5/10/2018	1:05	24.26
DRB2	5/10/2018	1:10	23.61
DRB2	5/10/2018	1:15	23.70
DRB2	5/10/2018	1:20	25.62
DRB2	5/10/2018	1:25	37.90
DRB2	5/10/2018	1:30	80.70
DRB2	5/10/2018	1:35	103.03
DRB2	5/10/2018	1:40	107.86
DRB2	5/10/2018	1:45	104.97
DRB2	5/10/2018	1:50	99.85
DRB2	5/10/2018	1:55	93.05
DRB2	5/10/2018	2:00	87.43
DRB2	5/10/2018	2:05	82.58
DRB2	5/10/2018	2:10	74.22
DRB2	5/10/2018	2:15	65.67
DRB2	5/10/2018	2:20	56.68
DRB2	5/10/2018	2:25	49.54
DRB2	5/10/2018	2:30	43.76
DRB2	5/10/2018	2:35	38.85
DRB2	5/10/2018	2:40	34.42
DRB2	5/10/2018	2:45	30.33
DRB2	5/10/2018	2:50	26.57
DRB2	5/10/2018	2:55	23.12
DRB2	5/10/2018	3:00	19.94
DRB2	5/10/2018	3:05	16.44
DRB2	5/10/2018	3:10	13.20
DRB2	5/10/2018	3:15	10.75
DRB2	5/10/2018	3:20	9.03
DRB2	5/10/2018	3:25	7.71
DRB2	5/10/2018	3:30	6.66
DRB2	5/10/2018	3:35	5.80
DRB2	5/10/2018	3:40	5.09
DRB2	5/10/2018	3:45	4.52
DRB2	5/10/2018	3:50	4.07
DRB2	5/10/2018	3:55	3.71
DRB2	5/10/2018	4:00	3.38
DRB2	5/10/2018	4:05	3.08
DRB2	5/10/2018	4:10	2.78
DRB2	5/10/2018	4:15	2.49
DRB2	5/10/2018	4:20	2.22

DRB Ponding Areas

DRB2	5/10/2018	4:25	1.95
DRB2	5/10/2018	4:30	1.70
DRB2	5/10/2018	4:35	1.45
DRB2	5/10/2018	4:40	1.21
DRB2	5/10/2018	4:45	0.99
DRB2	5/10/2018	4:50	0.77
DRB2	5/10/2018	4:55	0.55
DRB2	5/10/2018	5:00	0.37
DRB2	5/10/2018	5:05	0.25
DRB2	5/10/2018	5:10	0.17
DRB2	5/10/2018	5:15	0.12
DRB2	5/10/2018	5:20	0.08
DRB2	5/10/2018	5:25	0.05
DRB2	5/10/2018	5:30	0.03
DRB2	5/10/2018	5:35	0.01
DRB2	5/10/2018	5:40	0.01
DRB2	5/10/2018	5:45	0.01
DRB2	5/10/2018	5:50	0.01
DRB2	5/10/2018	5:55	0.00
DRB2	5/10/2018	6:00	0.00

;			
DRB6N	5/10/2018	0:00	0.00
DRB6N	5/10/2018	0:05	0.00
DRB6N	5/10/2018	0:10	0.00
DRB6N	5/10/2018	0:15	0.03
DRB6N	5/10/2018	0:20	0.18
DRB6N	5/10/2018	0:25	2.38
DRB6N	5/10/2018	0:30	12.23
DRB6N	5/10/2018	0:35	19.03
DRB6N	5/10/2018	0:40	22.23
DRB6N	5/10/2018	0:45	23.76
DRB6N	5/10/2018	0:50	24.10
DRB6N	5/10/2018	0:55	23.50
DRB6N	5/10/2018	1:00	22.99
DRB6N	5/10/2018	1:05	22.56
DRB6N	5/10/2018	1:10	21.42
DRB6N	5/10/2018	1:15	21.24
DRB6N	5/10/2018	1:20	24.72
DRB6N	5/10/2018	1:25	25.81
DRB6N	5/10/2018	1:30	25.42
DRB6N	5/10/2018	1:35	24.41
DRB6N	5/10/2018	1:40	23.16
DRB6N	5/10/2018	1:45	23.12
DRB6N	5/10/2018	1:50	26.94
DRB6N	5/10/2018	1:55	48.67
DRB6N	5/10/2018	2:00	123.39
DRB6N	5/10/2018	2:05	234.69
DRB6N	5/10/2018	2:10	357.61
DRB6N	5/10/2018	2:15	478.82
DRB6N	5/10/2018	2:20	577.73
DRB6N	5/10/2018	2:25	648.23
DRB6N	5/10/2018	2:30	690.67
DRB6N	5/10/2018	2:35	713.20
DRB6N	5/10/2018	2:40	735.20
DRB6N	5/10/2018	2:45	809.88
DRB6N	5/10/2018	2:50	876.59
DRB6N	5/10/2018	2:55	889.84
DRB6N	5/10/2018	3:00	872.76
DRB6N	5/10/2018	3:05	837.94
DRB6N	5/10/2018	3:10	801.73
DRB6N	5/10/2018	3:15	763.46
DRB6N	5/10/2018	3:20	722.72
DRB6N	5/10/2018	3:25	678.75

DRB Ponding Areas

DRB6N	5/10/2018	3:30	635.27
DRB6N	5/10/2018	3:35	591.58
DRB6N	5/10/2018	3:40	547.85
DRB6N	5/10/2018	3:45	506.26
DRB6N	5/10/2018	3:50	465.42
DRB6N	5/10/2018	3:55	426.55
DRB6N	5/10/2018	4:00	394.50
DRB6N	5/10/2018	4:05	367.06
DRB6N	5/10/2018	4:10	339.44
DRB6N	5/10/2018	4:15	311.70
DRB6N	5/10/2018	4:20	284.77
DRB6N	5/10/2018	4:25	261.73
DRB6N	5/10/2018	4:30	242.11
DRB6N	5/10/2018	4:35	224.46
DRB6N	5/10/2018	4:40	207.92
DRB6N	5/10/2018	4:45	193.19
DRB6N	5/10/2018	4:50	181.12
DRB6N	5/10/2018	4:55	180.36
DRB6N	5/10/2018	5:00	210.94
DRB6N	5/10/2018	5:05	221.46
DRB6N	5/10/2018	5:10	214.86
DRB6N	5/10/2018	5:15	201.49
DRB6N	5/10/2018	5:20	187.39
DRB6N	5/10/2018	5:25	172.66
DRB6N	5/10/2018	5:30	159.74
DRB6N	5/10/2018	5:35	148.02
DRB6N	5/10/2018	5:40	133.10
DRB6N	5/10/2018	5:45	118.24
DRB6N	5/10/2018	5:50	103.18
DRB6N	5/10/2018	5:55	90.15
DRB6N	5/10/2018	6:00	78.57
DRB6N	5/10/2018	6:05	67.90
DRB6N	5/10/2018	6:10	57.72
DRB6N	5/10/2018	6:15	47.92
DRB6N	5/10/2018	6:20	38.79
DRB6N	5/10/2018	6:25	31.58
DRB6N	5/10/2018	6:30	25.86
DRB6N	5/10/2018	6:35	20.58
DRB6N	5/10/2018	6:40	16.03
DRB6N	5/10/2018	6:45	12.63
DRB6N	5/10/2018	6:50	10.21
DRB6N	5/10/2018	6:55	8.43
DRB6N	5/10/2018	7:00	7.14
DRB6N	5/10/2018	7:05	6.14
DRB6N	5/10/2018	7:10	5.36
DRB6N	5/10/2018	7:15	4.72
DRB6N	5/10/2018	7:20	4.23
DRB6N	5/10/2018	7:25	3.82
DRB6N	5/10/2018	7:30	3.46
DRB6N	5/10/2018	7:35	3.13
DRB6N	5/10/2018	7:40	2.81
DRB6N	5/10/2018	7:45	2.51
DRB6N	5/10/2018	7:50	2.22
DRB6N	5/10/2018	7:55	1.95
DRB6N	5/10/2018	8:00	1.70
DRB6N	5/10/2018	8:05	1.45
DRB6N	5/10/2018	8:10	1.21
DRB6N	5/10/2018	8:15	0.99
DRB6N	5/10/2018	8:20	0.77
DRB6N	5/10/2018	8:25	0.55
DRB6N	5/10/2018	8:30	0.37
DRB6N	5/10/2018	8:35	0.25
DRB6N	5/10/2018	8:40	0.17

DRB Ponding Areas

DRB6N	5/10/2018	8:45	0.12
DRB6N	5/10/2018	8:50	0.08
DRB6N	5/10/2018	8:55	0.05
DRB6N	5/10/2018	9:00	0.03
DRB6N	5/10/2018	9:05	0.01
DRB6N	5/10/2018	9:10	0.01
DRB6N	5/10/2018	9:15	0.01
DRB6N	5/10/2018	9:20	0.01
DRB6N	5/10/2018	9:25	0.00
DRB6N	5/10/2018	9:30	0.00
DRB6N	5/10/2018	9:35	0.00
DRB6N	5/10/2018	9:40	0.00
DRB6N	5/10/2018	9:45	0.00
DRB6N	5/10/2018	9:50	0.00
DRB6N	5/10/2018	9:55	0.00
DRB6N	5/10/2018	10:00	0.00
;			
DRB7N	5/10/2018	0:00	0.00
DRB7N	5/10/2018	0:05	0.00
DRB7N	5/10/2018	0:10	0.00
DRB7N	5/10/2018	0:15	0.01
DRB7N	5/10/2018	0:20	0.13
DRB7N	5/10/2018	0:25	3.93
DRB7N	5/10/2018	0:30	27.41
DRB7N	5/10/2018	0:35	61.18
DRB7N	5/10/2018	0:40	85.13
DRB7N	5/10/2018	0:45	97.69
DRB7N	5/10/2018	0:50	103.78
DRB7N	5/10/2018	0:55	104.85
DRB7N	5/10/2018	1:00	102.33
DRB7N	5/10/2018	1:05	99.87
DRB7N	5/10/2018	1:10	96.18
DRB7N	5/10/2018	1:15	90.59
DRB7N	5/10/2018	1:20	83.94
DRB7N	5/10/2018	1:25	77.20
DRB7N	5/10/2018	1:30	71.17
DRB7N	5/10/2018	1:35	65.66
DRB7N	5/10/2018	1:40	60.61
DRB7N	5/10/2018	1:45	55.82
DRB7N	5/10/2018	1:50	51.23
DRB7N	5/10/2018	1:55	46.77
DRB7N	5/10/2018	2:00	42.43
DRB7N	5/10/2018	2:05	38.17
DRB7N	5/10/2018	2:10	34.09
DRB7N	5/10/2018	2:15	31.03
DRB7N	5/10/2018	2:20	28.54
DRB7N	5/10/2018	2:25	26.34
DRB7N	5/10/2018	2:30	24.35
DRB7N	5/10/2018	2:35	22.52
DRB7N	5/10/2018	2:40	20.80
DRB7N	5/10/2018	2:45	19.21
DRB7N	5/10/2018	2:50	17.72
DRB7N	5/10/2018	2:55	16.26
DRB7N	5/10/2018	3:00	14.83
DRB7N	5/10/2018	3:05	13.40
DRB7N	5/10/2018	3:10	11.97
DRB7N	5/10/2018	3:15	10.55
DRB7N	5/10/2018	3:20	9.12
DRB7N	5/10/2018	3:25	7.70
DRB7N	5/10/2018	3:30	6.27
DRB7N	5/10/2018	3:35	4.85
DRB7N	5/10/2018	3:40	3.46
DRB7N	5/10/2018	3:45	2.28

DRB Ponding Areas

DRB7N	5/10/2018	3:50	1.55
DRB7N	5/10/2018	3:55	1.06
DRB7N	5/10/2018	4:00	0.71
DRB7N	5/10/2018	4:05	0.45
DRB7N	5/10/2018	4:10	0.27
DRB7N	5/10/2018	4:15	0.14
DRB7N	5/10/2018	4:20	0.07
DRB7N	5/10/2018	4:25	0.04
DRB7N	5/10/2018	4:30	0.03
DRB7N	5/10/2018	4:35	0.02
DRB7N	5/10/2018	4:40	0.02
DRB7N	5/10/2018	4:45	0.01
DRB7N	5/10/2018	4:50	0.01
DRB7N	5/10/2018	4:55	0.01
DRB7N	5/10/2018	5:00	0.00
DRB7N	5/10/2018	5:05	0.00
;			
DRB8	5/10/2018	0:00	0.00
DRB8	5/10/2018	0:05	0.00
DRB8	5/10/2018	0:10	0.00
DRB8	5/10/2018	0:15	0.02
DRB8	5/10/2018	0:20	0.15
DRB8	5/10/2018	0:25	2.46
DRB8	5/10/2018	0:30	15.08
DRB8	5/10/2018	0:35	32.23
DRB8	5/10/2018	0:40	43.76
DRB8	5/10/2018	0:45	50.02
DRB8	5/10/2018	0:50	53.62
DRB8	5/10/2018	0:55	55.26
DRB8	5/10/2018	1:00	55.48
DRB8	5/10/2018	1:05	54.85
DRB8	5/10/2018	1:10	53.25
DRB8	5/10/2018	1:15	51.00
DRB8	5/10/2018	1:20	48.46
DRB8	5/10/2018	1:25	49.34
DRB8	5/10/2018	1:30	69.84
DRB8	5/10/2018	1:35	100.68
DRB8	5/10/2018	1:40	122.08
DRB8	5/10/2018	1:45	132.41
DRB8	5/10/2018	1:50	136.48
DRB8	5/10/2018	1:55	135.63
DRB8	5/10/2018	2:00	131.28
DRB8	5/10/2018	2:05	127.00
DRB8	5/10/2018	2:10	121.52
DRB8	5/10/2018	2:15	114.18
DRB8	5/10/2018	2:20	105.78
DRB8	5/10/2018	2:25	97.32
DRB8	5/10/2018	2:30	89.57
DRB8	5/10/2018	2:35	82.42
DRB8	5/10/2018	2:40	76.11
DRB8	5/10/2018	2:45	70.29
DRB8	5/10/2018	2:50	64.81
DRB8	5/10/2018	2:55	59.54
DRB8	5/10/2018	3:00	54.45
DRB8	5/10/2018	3:05	49.49
DRB8	5/10/2018	3:10	44.76
DRB8	5/10/2018	3:15	41.10
DRB8	5/10/2018	3:20	38.02
DRB8	5/10/2018	3:25	35.23
DRB8	5/10/2018	3:30	32.66
DRB8	5/10/2018	3:35	30.26
DRB8	5/10/2018	3:40	27.97
DRB8	5/10/2018	3:45	25.79

DRB Ponding Areas

DRB8	5/10/2018	3:50	23.73
DRB8	5/10/2018	3:55	21.70
DRB8	5/10/2018	4:00	19.70
DRB8	5/10/2018	4:05	17.70
DRB8	5/10/2018	4:10	15.70
DRB8	5/10/2018	4:15	13.70
DRB8	5/10/2018	4:20	11.70
DRB8	5/10/2018	4:25	9.71
DRB8	5/10/2018	4:30	7.72
DRB8	5/10/2018	4:35	5.82
DRB8	5/10/2018	4:40	4.13
DRB8	5/10/2018	4:45	2.75
DRB8	5/10/2018	4:50	1.87
DRB8	5/10/2018	4:55	1.28
DRB8	5/10/2018	5:00	0.84
DRB8	5/10/2018	5:05	0.53
DRB8	5/10/2018	5:10	0.31
DRB8	5/10/2018	5:15	0.17
DRB8	5/10/2018	5:20	0.09
DRB8	5/10/2018	5:25	0.06
DRB8	5/10/2018	5:30	0.04
DRB8	5/10/2018	5:35	0.03
DRB8	5/10/2018	5:40	0.02
DRB8	5/10/2018	5:45	0.02
DRB8	5/10/2018	5:50	0.01
DRB8	5/10/2018	5:55	0.01
DRB8	5/10/2018	6:00	0.00
;			
DRB9	5/10/2018	0:00	0.00
DRB9	5/10/2018	0:05	0.00
DRB9	5/10/2018	0:10	0.00
DRB9	5/10/2018	0:15	0.01
DRB9	5/10/2018	0:20	0.07
DRB9	5/10/2018	0:25	1.76
DRB9	5/10/2018	0:30	12.82
DRB9	5/10/2018	0:35	34.44
DRB9	5/10/2018	0:40	58.33
DRB9	5/10/2018	0:45	78.20
DRB9	5/10/2018	0:50	91.61
DRB9	5/10/2018	0:55	99.77
DRB9	5/10/2018	1:00	104.80
DRB9	5/10/2018	1:05	107.76
DRB9	5/10/2018	1:10	108.47
DRB9	5/10/2018	1:15	106.57
DRB9	5/10/2018	1:20	102.41
DRB9	5/10/2018	1:25	97.65
DRB9	5/10/2018	1:30	92.94
DRB9	5/10/2018	1:35	88.22
DRB9	5/10/2018	1:40	83.50
DRB9	5/10/2018	1:45	78.83
DRB9	5/10/2018	1:50	74.19
DRB9	5/10/2018	1:55	69.72
DRB9	5/10/2018	2:00	65.96
DRB9	5/10/2018	2:05	62.67
DRB9	5/10/2018	2:10	59.61
DRB9	5/10/2018	2:15	56.69
DRB9	5/10/2018	2:20	53.87
DRB9	5/10/2018	2:25	51.12
DRB9	5/10/2018	2:30	48.44
DRB9	5/10/2018	2:35	45.84
DRB9	5/10/2018	2:40	43.27
DRB9	5/10/2018	2:45	40.71
DRB9	5/10/2018	2:50	38.16

DRB Ponding Areas

DRB9	5/10/2018	2:55	35.61
DRB9	5/10/2018	3:00	33.06
DRB9	5/10/2018	3:05	30.56
DRB9	5/10/2018	3:10	28.34
DRB9	5/10/2018	3:15	26.64
DRB9	5/10/2018	3:20	25.22
DRB9	5/10/2018	3:25	23.96
DRB9	5/10/2018	3:30	22.81
DRB9	5/10/2018	3:35	21.74
DRB9	5/10/2018	3:40	20.75
DRB9	5/10/2018	3:45	19.82
DRB9	5/10/2018	3:50	18.94
DRB9	5/10/2018	3:55	18.07
DRB9	5/10/2018	4:00	17.22
DRB9	5/10/2018	4:05	16.36
DRB9	5/10/2018	4:10	15.51
DRB9	5/10/2018	4:15	14.66
DRB9	5/10/2018	4:20	13.81
DRB9	5/10/2018	4:25	12.96
DRB9	5/10/2018	4:30	12.11
DRB9	5/10/2018	4:35	11.26
DRB9	5/10/2018	4:40	10.41
DRB9	5/10/2018	4:45	9.56
DRB9	5/10/2018	4:50	8.72
DRB9	5/10/2018	4:55	7.87
DRB9	5/10/2018	5:00	7.02
DRB9	5/10/2018	5:05	6.17
DRB9	5/10/2018	5:10	5.33
DRB9	5/10/2018	5:15	4.48
DRB9	5/10/2018	5:20	3.63
DRB9	5/10/2018	5:25	2.79
DRB9	5/10/2018	5:30	1.97
DRB9	5/10/2018	5:35	1.31
DRB9	5/10/2018	5:40	0.89
DRB9	5/10/2018	5:45	0.61
DRB9	5/10/2018	5:50	0.41
DRB9	5/10/2018	5:55	0.26
DRB9	5/10/2018	6:00	0.16
DRB9	5/10/2018	6:05	0.08
DRB9	5/10/2018	6:10	0.04
DRB9	5/10/2018	6:15	0.03
DRB9	5/10/2018	6:20	0.02
DRB9	5/10/2018	6:25	0.02
DRB9	5/10/2018	6:30	0.01
DRB9	5/10/2018	6:35	0.01
DRB9	5/10/2018	6:40	0.01
DRB9	5/10/2018	6:45	0.00
DRB9	5/10/2018	6:50	0.00
;			
DRB10	5/10/2018	0:00	0.00
DRB10	5/10/2018	0:05	0.02
DRB10	5/10/2018	0:10	0.22
DRB10	5/10/2018	0:15	1.39
DRB10	5/10/2018	0:20	15.47
DRB10	5/10/2018	0:25	91.88
DRB10	5/10/2018	0:30	235.94
DRB10	5/10/2018	0:35	396.50
DRB10	5/10/2018	0:40	532.16
DRB10	5/10/2018	0:45	625.51
DRB10	5/10/2018	0:50	678.14
DRB10	5/10/2018	0:55	700.58
DRB10	5/10/2018	1:00	698.41
DRB10	5/10/2018	1:05	674.84

DRB Ponding Areas

DRB10	5/10/2018	1:10	648.43
DRB10	5/10/2018	1:15	616.53
DRB10	5/10/2018	1:20	578.39
DRB10	5/10/2018	1:25	542.51
DRB10	5/10/2018	1:30	534.71
DRB10	5/10/2018	1:35	544.28
DRB10	5/10/2018	1:40	550.57
DRB10	5/10/2018	1:45	549.06
DRB10	5/10/2018	1:50	538.75
DRB10	5/10/2018	1:55	521.67
DRB10	5/10/2018	2:00	500.65
DRB10	5/10/2018	2:05	477.18
DRB10	5/10/2018	2:10	450.13
DRB10	5/10/2018	2:15	420.82
DRB10	5/10/2018	2:20	393.89
DRB10	5/10/2018	2:25	372.72
DRB10	5/10/2018	2:30	373.13
DRB10	5/10/2018	2:35	385.09
DRB10	5/10/2018	2:40	388.54
DRB10	5/10/2018	2:45	381.81
DRB10	5/10/2018	2:50	369.65
DRB10	5/10/2018	2:55	353.99
DRB10	5/10/2018	3:00	343.50
DRB10	5/10/2018	3:05	372.24
DRB10	5/10/2018	3:10	445.71
DRB10	5/10/2018	3:15	536.80
DRB10	5/10/2018	3:20	617.45
DRB10	5/10/2018	3:25	675.87
DRB10	5/10/2018	3:30	707.65
DRB10	5/10/2018	3:35	718.88
DRB10	5/10/2018	3:40	715.66
DRB10	5/10/2018	3:45	697.72
DRB10	5/10/2018	3:50	666.38
DRB10	5/10/2018	3:55	632.05
DRB10	5/10/2018	4:00	614.59
DRB10	5/10/2018	4:05	645.09
DRB10	5/10/2018	4:10	685.82
DRB10	5/10/2018	4:15	692.76
DRB10	5/10/2018	4:20	675.11
DRB10	5/10/2018	4:25	647.13
DRB10	5/10/2018	4:30	615.14
DRB10	5/10/2018	4:35	583.45
DRB10	5/10/2018	4:40	554.20
DRB10	5/10/2018	4:45	541.10
DRB10	5/10/2018	4:50	595.69
DRB10	5/10/2018	4:55	658.55
DRB10	5/10/2018	5:00	680.48
DRB10	5/10/2018	5:05	674.26
DRB10	5/10/2018	5:10	646.72
DRB10	5/10/2018	5:15	607.03
DRB10	5/10/2018	5:20	568.03
DRB10	5/10/2018	5:25	534.48
DRB10	5/10/2018	5:30	497.99
DRB10	5/10/2018	5:35	461.57
DRB10	5/10/2018	5:40	425.05
DRB10	5/10/2018	5:45	389.53
DRB10	5/10/2018	5:50	358.05
DRB10	5/10/2018	5:55	339.30
DRB10	5/10/2018	6:00	352.80
DRB10	5/10/2018	6:05	347.53
DRB10	5/10/2018	6:10	328.42
DRB10	5/10/2018	6:15	304.46
DRB10	5/10/2018	6:20	279.92

DRB Ponding Areas

DRB10	5/10/2018	6:25	254.62
DRB10	5/10/2018	6:30	231.75
DRB10	5/10/2018	6:35	211.53
DRB10	5/10/2018	6:40	189.18
DRB10	5/10/2018	6:45	167.62
DRB10	5/10/2018	6:50	146.24
DRB10	5/10/2018	6:55	127.10
DRB10	5/10/2018	7:00	109.59
DRB10	5/10/2018	7:05	93.17
DRB10	5/10/2018	7:10	77.42
DRB10	5/10/2018	7:15	62.27
DRB10	5/10/2018	7:20	48.66
DRB10	5/10/2018	7:25	38.40
DRB10	5/10/2018	7:30	30.64
DRB10	5/10/2018	7:35	23.88
DRB10	5/10/2018	7:40	18.24
DRB10	5/10/2018	7:45	14.04
DRB10	5/10/2018	7:50	11.05
DRB10	5/10/2018	7:55	8.92
DRB10	5/10/2018	8:00	7.46
DRB10	5/10/2018	8:05	6.38
DRB10	5/10/2018	8:10	5.54
DRB10	5/10/2018	8:15	4.86
DRB10	5/10/2018	8:20	4.34
DRB10	5/10/2018	8:25	3.90
DRB10	5/10/2018	8:30	3.51
DRB10	5/10/2018	8:35	3.16
DRB10	5/10/2018	8:40	2.82
DRB10	5/10/2018	8:45	2.51
DRB10	5/10/2018	8:50	2.22
DRB10	5/10/2018	8:55	1.95
DRB10	5/10/2018	9:00	1.70
DRB10	5/10/2018	9:05	1.45
DRB10	5/10/2018	9:10	1.21
DRB10	5/10/2018	9:15	0.99
DRB10	5/10/2018	9:20	0.77
DRB10	5/10/2018	9:25	0.55
DRB10	5/10/2018	9:30	0.37
DRB10	5/10/2018	9:35	0.25
DRB10	5/10/2018	9:40	0.17
DRB10	5/10/2018	9:45	0.12
DRB10	5/10/2018	9:50	0.08
DRB10	5/10/2018	9:55	0.05
DRB10	5/10/2018	10:00	0.03
DRB10	5/10/2018	10:05	0.01
DRB10	5/10/2018	10:10	0.01
DRB10	5/10/2018	10:15	0.01
DRB10	5/10/2018	10:20	0.01
DRB10	5/10/2018	10:25	0.00
;			
DRB11	5/10/2018	0:00	0.00
DRB11	5/10/2018	0:05	0.00
DRB11	5/10/2018	0:10	0.00
DRB11	5/10/2018	0:15	0.04
DRB11	5/10/2018	0:20	0.19
DRB11	5/10/2018	0:25	1.73
DRB11	5/10/2018	0:30	8.05
DRB11	5/10/2018	0:35	12.00
DRB11	5/10/2018	0:40	13.87
DRB11	5/10/2018	0:45	14.83
DRB11	5/10/2018	0:50	15.15
DRB11	5/10/2018	0:55	14.93
DRB11	5/10/2018	1:00	14.84

DRB Ponding Areas

DRB11	5/10/2018	1:05	15.79
DRB11	5/10/2018	1:10	29.11
DRB11	5/10/2018	1:15	104.71
DRB11	5/10/2018	1:20	247.81
DRB11	5/10/2018	1:25	407.51
DRB11	5/10/2018	1:30	542.39
DRB11	5/10/2018	1:35	635.03
DRB11	5/10/2018	1:40	686.99
DRB11	5/10/2018	1:45	708.79
DRB11	5/10/2018	1:50	706.00
DRB11	5/10/2018	1:55	681.82
DRB11	5/10/2018	2:00	654.81
DRB11	5/10/2018	2:05	622.30
DRB11	5/10/2018	2:10	583.58
DRB11	5/10/2018	2:15	547.25
DRB11	5/10/2018	2:20	539.08
DRB11	5/10/2018	2:25	548.33
DRB11	5/10/2018	2:30	554.32
DRB11	5/10/2018	2:35	552.55
DRB11	5/10/2018	2:40	541.99
DRB11	5/10/2018	2:45	524.66
DRB11	5/10/2018	2:50	503.43
DRB11	5/10/2018	2:55	479.75
DRB11	5/10/2018	3:00	452.48
DRB11	5/10/2018	3:05	422.97
DRB11	5/10/2018	3:10	395.82
DRB11	5/10/2018	3:15	374.45
DRB11	5/10/2018	3:20	374.66
DRB11	5/10/2018	3:25	386.41
DRB11	5/10/2018	3:30	389.66
DRB11	5/10/2018	3:35	382.71
DRB11	5/10/2018	3:40	370.35
DRB11	5/10/2018	3:45	354.50
DRB11	5/10/2018	3:50	343.85
DRB11	5/10/2018	3:55	372.48
DRB11	5/10/2018	4:00	445.88
DRB11	5/10/2018	4:05	536.92
DRB11	5/10/2018	4:10	617.54
DRB11	5/10/2018	4:15	675.92
DRB11	5/10/2018	4:20	707.69
DRB11	5/10/2018	4:25	718.90
DRB11	5/10/2018	4:30	715.68
DRB11	5/10/2018	4:35	697.73
DRB11	5/10/2018	4:40	666.39
DRB11	5/10/2018	4:45	632.06
DRB11	5/10/2018	4:50	614.60
DRB11	5/10/2018	4:55	645.09
DRB11	5/10/2018	5:00	685.82
DRB11	5/10/2018	5:05	692.76
DRB11	5/10/2018	5:10	675.11
DRB11	5/10/2018	5:15	647.13
DRB11	5/10/2018	5:20	615.14
DRB11	5/10/2018	5:25	583.45
DRB11	5/10/2018	5:30	554.20
DRB11	5/10/2018	5:35	541.10
DRB11	5/10/2018	5:40	595.69
DRB11	5/10/2018	5:45	658.55
DRB11	5/10/2018	5:50	680.48
DRB11	5/10/2018	5:55	674.26
DRB11	5/10/2018	6:00	646.72
DRB11	5/10/2018	6:05	607.03
DRB11	5/10/2018	6:10	568.03
DRB11	5/10/2018	6:15	534.48

DRB Ponding Areas

DRB11	5/10/2018	6:20	497.99
DRB11	5/10/2018	6:25	461.57
DRB11	5/10/2018	6:30	425.05
DRB11	5/10/2018	6:35	389.53
DRB11	5/10/2018	6:40	358.05
DRB11	5/10/2018	6:45	339.30
DRB11	5/10/2018	6:50	352.80
DRB11	5/10/2018	6:55	347.53
DRB11	5/10/2018	7:00	328.42
DRB11	5/10/2018	7:05	304.46
DRB11	5/10/2018	7:10	279.92
DRB11	5/10/2018	7:15	254.62
DRB11	5/10/2018	7:20	231.75
DRB11	5/10/2018	7:25	211.53
DRB11	5/10/2018	7:30	189.18
DRB11	5/10/2018	7:35	167.62
DRB11	5/10/2018	7:40	146.24
DRB11	5/10/2018	7:45	127.10
DRB11	5/10/2018	7:50	109.59
DRB11	5/10/2018	7:55	93.17
DRB11	5/10/2018	8:00	77.42
DRB11	5/10/2018	8:05	62.27
DRB11	5/10/2018	8:10	48.66
DRB11	5/10/2018	8:15	38.40
DRB11	5/10/2018	8:20	30.64
DRB11	5/10/2018	8:25	23.88
DRB11	5/10/2018	8:30	18.24
DRB11	5/10/2018	8:35	14.04
DRB11	5/10/2018	8:40	11.05
DRB11	5/10/2018	8:45	8.92
DRB11	5/10/2018	8:50	7.46
DRB11	5/10/2018	8:55	6.38
DRB11	5/10/2018	9:00	5.54
DRB11	5/10/2018	9:05	4.86
DRB11	5/10/2018	9:10	4.34
DRB11	5/10/2018	9:15	3.90
DRB11	5/10/2018	9:20	3.51
DRB11	5/10/2018	9:25	3.16
DRB11	5/10/2018	9:30	2.82
DRB11	5/10/2018	9:35	2.51
DRB11	5/10/2018	9:40	2.22
DRB11	5/10/2018	9:45	1.95
DRB11	5/10/2018	9:50	1.70
DRB11	5/10/2018	9:55	1.45
DRB11	5/10/2018	10:00	1.21
DRB11	5/10/2018	10:05	0.99
DRB11	5/10/2018	10:10	0.77
DRB11	5/10/2018	10:15	0.55
DRB11	5/10/2018	10:20	0.37
DRB11	5/10/2018	10:25	0.25
DRB11	5/10/2018	10:30	0.174265525
DRB11	5/10/2018	10:35	0.11807144
DRB11	5/10/2018	10:40	0.077078937
DRB11	5/10/2018	10:45	0.047422309
DRB11	5/10/2018	10:50	0.026558874
DRB11	5/10/2018	10:55	0.014521422
DRB11	5/10/2018	11:00	0.009642015
DRB11	5/10/2018	11:05	0.006733886
DRB11	5/10/2018	11:10	0.005356614
DRB11	5/10/2018	11:15	0.004136451
;			
DRB12	5/10/2018	0:00	0.00
DRB12	5/10/2018	0:05	0.00

DRB Ponding Areas

DRB12	5/10/2018	0:10	0.16
DRB12	5/10/2018	0:15	2.01
DRB12	5/10/2018	0:20	6.93
DRB12	5/10/2018	0:25	29.32
DRB12	5/10/2018	0:30	101.25
DRB12	5/10/2018	0:35	127.07
DRB12	5/10/2018	0:40	122.84
DRB12	5/10/2018	0:45	112.26
DRB12	5/10/2018	0:50	101.46
DRB12	5/10/2018	0:55	88.83
DRB12	5/10/2018	1:00	78.92
DRB12	5/10/2018	1:05	77.66
DRB12	5/10/2018	1:10	69.94
DRB12	5/10/2018	1:15	61.65
DRB12	5/10/2018	1:20	52.16
DRB12	5/10/2018	1:25	43.35
DRB12	5/10/2018	1:30	35.16
DRB12	5/10/2018	1:35	29.05
DRB12	5/10/2018	1:40	26.45
DRB12	5/10/2018	1:45	37.47
DRB12	5/10/2018	1:50	111.47
DRB12	5/10/2018	1:55	253.44
DRB12	5/10/2018	2:00	412.33
DRB12	5/10/2018	2:05	545.82
DRB12	5/10/2018	2:10	637.43
DRB12	5/10/2018	2:15	688.74
DRB12	5/10/2018	2:20	710.07
DRB12	5/10/2018	2:25	706.94
DRB12	5/10/2018	2:30	682.50
DRB12	5/10/2018	2:35	655.30
DRB12	5/10/2018	2:40	622.65
DRB12	5/10/2018	2:45	583.80
DRB12	5/10/2018	2:50	547.38
DRB12	5/10/2018	2:55	539.14
DRB12	5/10/2018	3:00	548.35
DRB12	5/10/2018	3:05	554.32
DRB12	5/10/2018	3:10	552.55
DRB12	5/10/2018	3:15	541.99
DRB12	5/10/2018	3:20	524.66
DRB12	5/10/2018	3:25	503.43
DRB12	5/10/2018	3:30	479.75
DRB12	5/10/2018	3:35	452.48
DRB12	5/10/2018	3:40	422.97
DRB12	5/10/2018	3:45	395.82
DRB12	5/10/2018	3:50	374.45
DRB12	5/10/2018	3:55	374.66
DRB12	5/10/2018	4:00	386.41
DRB12	5/10/2018	4:05	389.66
DRB12	5/10/2018	4:10	382.71
DRB12	5/10/2018	4:15	370.35
DRB12	5/10/2018	4:20	354.50
DRB12	5/10/2018	4:25	343.85
DRB12	5/10/2018	4:30	372.48
DRB12	5/10/2018	4:35	445.88
DRB12	5/10/2018	4:40	536.92
DRB12	5/10/2018	4:45	617.54
DRB12	5/10/2018	4:50	675.92
DRB12	5/10/2018	4:55	707.69
DRB12	5/10/2018	5:00	718.90
DRB12	5/10/2018	5:05	715.68
DRB12	5/10/2018	5:10	697.73
DRB12	5/10/2018	5:15	666.39
DRB12	5/10/2018	5:20	632.06

DRB Ponding Areas

DRB12	5/10/2018	5:25	614.60
DRB12	5/10/2018	5:30	645.09
DRB12	5/10/2018	5:35	685.82
DRB12	5/10/2018	5:40	692.76
DRB12	5/10/2018	5:45	675.11
DRB12	5/10/2018	5:50	647.13
DRB12	5/10/2018	5:55	615.14
DRB12	5/10/2018	6:00	583.45
DRB12	5/10/2018	6:05	554.20
DRB12	5/10/2018	6:10	541.10
DRB12	5/10/2018	6:15	595.69
DRB12	5/10/2018	6:20	658.55
DRB12	5/10/2018	6:25	680.48
DRB12	5/10/2018	6:30	674.26
DRB12	5/10/2018	6:35	646.72
DRB12	5/10/2018	6:40	607.03
DRB12	5/10/2018	6:45	568.03
DRB12	5/10/2018	6:50	534.48
DRB12	5/10/2018	6:55	497.99
DRB12	5/10/2018	7:00	461.57
DRB12	5/10/2018	7:05	425.05
DRB12	5/10/2018	7:10	389.53
DRB12	5/10/2018	7:15	358.05
DRB12	5/10/2018	7:20	339.30
DRB12	5/10/2018	7:25	352.80
DRB12	5/10/2018	7:30	347.53
DRB12	5/10/2018	7:35	328.42
DRB12	5/10/2018	7:40	304.46
DRB12	5/10/2018	7:45	279.92
DRB12	5/10/2018	7:50	254.62
DRB12	5/10/2018	7:55	231.75
DRB12	5/10/2018	8:00	211.53
DRB12	5/10/2018	8:05	189.18
DRB12	5/10/2018	8:10	167.62
DRB12	5/10/2018	8:15	146.24
DRB12	5/10/2018	8:20	127.10
DRB12	5/10/2018	8:25	109.59
DRB12	5/10/2018	8:30	93.17
DRB12	5/10/2018	8:35	77.42
DRB12	5/10/2018	8:40	62.27
DRB12	5/10/2018	8:45	48.66
DRB12	5/10/2018	8:50	38.40
DRB12	5/10/2018	8:55	30.64
DRB12	5/10/2018	9:00	23.88
DRB12	5/10/2018	9:05	18.24
DRB12	5/10/2018	9:10	14.04
DRB12	5/10/2018	9:15	11.05
DRB12	5/10/2018	9:20	8.92
DRB12	5/10/2018	9:25	7.46
DRB12	5/10/2018	9:30	6.38
DRB12	5/10/2018	9:35	5.54
DRB12	5/10/2018	9:40	4.86
DRB12	5/10/2018	9:45	4.34
DRB12	5/10/2018	9:50	3.90
DRB12	5/10/2018	9:55	3.51
DRB12	5/10/2018	10:00	3.16
DRB12	5/10/2018	10:05	2.82
DRB12	5/10/2018	10:10	2.51
DRB12	5/10/2018	10:15	2.22
DRB12	5/10/2018	10:20	1.95
DRB12	5/10/2018	10:25	1.70
DRB12	5/10/2018	10:30	1.450316945
DRB12	5/10/2018	10:35	1.2149289

DRB Ponding Areas

DRB12	5/10/2018	10:40	0.989678349
DRB12	5/10/2018	10:45	0.767982011
DRB12	5/10/2018	10:50	0.550849995
DRB12	5/10/2018	10:55	0.365660099
DRB12	5/10/2018	11:00	0.251185838
DRB12	5/10/2018	11:05	0.27865193
DRB12	5/10/2018	11:10	0.187049144
DRB12	5/10/2018	11:15	0.126964675
DRB12	5/10/2018	11:20	0.083909937
DRB12	5/10/2018	11:25	0.053163
DRB12	5/10/2018	11:30	0.031423725
DRB12	5/10/2018	11:35	0.016493593
DRB12	5/10/2018	11:40	0.008405541
DRB12	5/10/2018	11:45	0.005796609
DRB12	5/10/2018	11:50	0.004167896
DRB12	5/10/2018	11:55	0
DRB12	5/10/2018	12:00	0
DRB12	5/10/2018	12:05	0
;			
DRB13	5/10/2018	0:00	0.00
DRB13	5/10/2018	0:05	0.00
DRB13	5/10/2018	0:10	0.00
DRB13	5/10/2018	0:15	0.04
DRB13	5/10/2018	0:20	0.19
DRB13	5/10/2018	0:25	1.73
DRB13	5/10/2018	0:30	8.05
DRB13	5/10/2018	0:35	12.00
DRB13	5/10/2018	0:40	13.87
DRB13	5/10/2018	0:45	14.83
DRB13	5/10/2018	0:50	15.15
DRB13	5/10/2018	0:55	14.92
DRB13	5/10/2018	1:00	14.62
DRB13	5/10/2018	1:05	14.40
DRB13	5/10/2018	1:10	13.65
DRB13	5/10/2018	1:15	12.83
DRB13	5/10/2018	1:20	11.87
DRB13	5/10/2018	1:25	11.01
DRB13	5/10/2018	1:30	10.23
DRB13	5/10/2018	1:35	9.52
DRB13	5/10/2018	1:40	8.85
DRB13	5/10/2018	1:45	8.21
DRB13	5/10/2018	1:50	7.59
DRB13	5/10/2018	1:55	6.98
DRB13	5/10/2018	2:00	6.38
DRB13	5/10/2018	2:05	5.77
DRB13	5/10/2018	2:10	5.19
DRB13	5/10/2018	2:15	4.74
DRB13	5/10/2018	2:20	4.37
DRB13	5/10/2018	2:25	4.05
DRB13	5/10/2018	2:30	3.76
DRB13	5/10/2018	2:35	3.49
DRB13	5/10/2018	2:40	3.23
DRB13	5/10/2018	2:45	3.00
DRB13	5/10/2018	2:50	2.78
DRB13	5/10/2018	2:55	2.56
DRB13	5/10/2018	3:00	2.36
DRB13	5/10/2018	3:05	2.15
DRB13	5/10/2018	3:10	1.94
DRB13	5/10/2018	3:15	1.73
DRB13	5/10/2018	3:20	1.52
DRB13	5/10/2018	3:25	1.32
DRB13	5/10/2018	3:30	1.11
DRB13	5/10/2018	3:35	0.91

DRB Ponding Areas

DRB13	5/10/2018	3:40	0.70
DRB13	5/10/2018	3:45	0.51
DRB13	5/10/2018	3:50	0.35
DRB13	5/10/2018	3:55	0.25
DRB13	5/10/2018	4:00	0.18
DRB13	5/10/2018	4:05	0.12
DRB13	5/10/2018	4:10	0.09
DRB13	5/10/2018	4:15	0.06
DRB13	5/10/2018	4:20	0.04
DRB13	5/10/2018	4:25	0.02
DRB13	5/10/2018	4:30	0.02
DRB13	5/10/2018	4:35	0.01
DRB13	5/10/2018	4:40	0.01
DRB13	5/10/2018	4:45	0.01
DRB13	5/10/2018	4:50	0.01
DRB13	5/10/2018	4:55	0.00
DRB13	5/10/2018	5:00	0.00
DRB13	5/10/2018	5:05	0.00
DRB13	5/10/2018	5:10	0.00
DRB13	5/10/2018	5:15	0.00
;			
DRB14	5/10/2018	0:00	0.00
DRB14	5/10/2018	0:05	0.00
DRB14	5/10/2018	0:10	0.01
DRB14	5/10/2018	0:15	0.12
DRB14	5/10/2018	0:20	0.75
DRB14	5/10/2018	0:25	9.15
DRB14	5/10/2018	0:30	53.35
DRB14	5/10/2018	0:35	121.79
DRB14	5/10/2018	0:40	177.46
DRB14	5/10/2018	0:45	208.83
DRB14	5/10/2018	0:50	224.75
DRB14	5/10/2018	0:55	229.34
DRB14	5/10/2018	1:00	225.43
DRB14	5/10/2018	1:05	219.33
DRB14	5/10/2018	1:10	211.67
DRB14	5/10/2018	1:15	200.59
DRB14	5/10/2018	1:20	192.35
DRB14	5/10/2018	1:25	213.14
DRB14	5/10/2018	1:30	252.62
DRB14	5/10/2018	1:35	279.64
DRB14	5/10/2018	1:40	288.76
DRB14	5/10/2018	1:45	287.16
DRB14	5/10/2018	1:50	277.11
DRB14	5/10/2018	1:55	262.19
DRB14	5/10/2018	2:00	248.23
DRB14	5/10/2018	2:05	232.29
DRB14	5/10/2018	2:10	213.56
DRB14	5/10/2018	2:15	195.40
DRB14	5/10/2018	2:20	179.37
DRB14	5/10/2018	2:25	164.58
DRB14	5/10/2018	2:30	150.91
DRB14	5/10/2018	2:35	138.28
DRB14	5/10/2018	2:40	126.27
DRB14	5/10/2018	2:45	114.80
DRB14	5/10/2018	2:50	103.81
DRB14	5/10/2018	2:55	93.38
DRB14	5/10/2018	3:00	84.53
DRB14	5/10/2018	3:05	76.81
DRB14	5/10/2018	3:10	69.68
DRB14	5/10/2018	3:15	62.95
DRB14	5/10/2018	3:20	56.52
DRB14	5/10/2018	3:25	50.32

DRB Ponding Areas

DRB14	5/10/2018	3:30	44.33
DRB14	5/10/2018	3:35	38.56
DRB14	5/10/2018	3:40	32.90
DRB14	5/10/2018	3:45	27.62
DRB14	5/10/2018	3:50	23.40
DRB14	5/10/2018	3:55	19.75
DRB14	5/10/2018	4:00	16.41
DRB14	5/10/2018	4:05	13.29
DRB14	5/10/2018	4:10	10.34
DRB14	5/10/2018	4:15	7.52
DRB14	5/10/2018	4:20	4.98
DRB14	5/10/2018	4:25	3.37
DRB14	5/10/2018	4:30	2.33
DRB14	5/10/2018	4:35	1.60
DRB14	5/10/2018	4:40	1.06
DRB14	5/10/2018	4:45	0.67
DRB14	5/10/2018	4:50	0.38
DRB14	5/10/2018	4:55	0.20
DRB14	5/10/2018	5:00	0.12
DRB14	5/10/2018	5:05	0.07
DRB14	5/10/2018	5:10	0.05
DRB14	5/10/2018	5:15	0.04
DRB14	5/10/2018	5:20	0.03
DRB14	5/10/2018	5:25	0.02
DRB14	5/10/2018	5:30	0.01
DRB14	5/10/2018	5:35	0.01
DRB14	5/10/2018	5:40	0.00
DRB14	5/10/2018	5:45	0.00
;			
DRB15	5/10/2018	0:00	0.00
DRB15	5/10/2018	0:05	0.00
DRB15	5/10/2018	0:10	0.00
DRB15	5/10/2018	0:15	0.02
DRB15	5/10/2018	0:20	0.22
DRB15	5/10/2018	0:25	6.03
DRB15	5/10/2018	0:30	41.59
DRB15	5/10/2018	0:35	94.27
DRB15	5/10/2018	0:40	133.36
DRB15	5/10/2018	0:45	153.61
DRB15	5/10/2018	0:50	162.41
DRB15	5/10/2018	0:55	162.34
DRB15	5/10/2018	1:00	157.08
DRB15	5/10/2018	1:05	152.50
DRB15	5/10/2018	1:10	145.81
DRB15	5/10/2018	1:15	136.04
DRB15	5/10/2018	1:20	125.05
DRB15	5/10/2018	1:25	114.81
DRB15	5/10/2018	1:30	105.06
DRB15	5/10/2018	1:35	95.94
DRB15	5/10/2018	1:40	87.47
DRB15	5/10/2018	1:45	79.34
DRB15	5/10/2018	1:50	71.49
DRB15	5/10/2018	1:55	63.87
DRB15	5/10/2018	2:00	56.70
DRB15	5/10/2018	2:05	51.03
DRB15	5/10/2018	2:10	46.49
DRB15	5/10/2018	2:15	42.53
DRB15	5/10/2018	2:20	38.96
DRB15	5/10/2018	2:25	35.68
DRB15	5/10/2018	2:30	32.62
DRB15	5/10/2018	2:35	29.77
DRB15	5/10/2018	2:40	27.12
DRB15	5/10/2018	2:45	24.55

DRB Ponding Areas

DRB15	5/10/2018	2:50	22.03
DRB15	5/10/2018	2:55	19.52
DRB15	5/10/2018	3:00	17.01
DRB15	5/10/2018	3:05	14.50
DRB15	5/10/2018	3:10	12.00
DRB15	5/10/2018	3:15	9.50
DRB15	5/10/2018	3:20	7.00
DRB15	5/10/2018	3:25	4.67
DRB15	5/10/2018	3:30	3.15
DRB15	5/10/2018	3:35	2.17
DRB15	5/10/2018	3:40	1.47
DRB15	5/10/2018	3:45	0.96
DRB15	5/10/2018	3:50	0.59
DRB15	5/10/2018	3:55	0.33
DRB15	5/10/2018	4:00	0.16
DRB15	5/10/2018	4:05	0.10
DRB15	5/10/2018	4:10	0.06
DRB15	5/10/2018	4:15	0.05
DRB15	5/10/2018	4:20	0.04
DRB15	5/10/2018	4:25	0.03
DRB15	5/10/2018	4:30	0.02
DRB15	5/10/2018	4:35	0.01
DRB15	5/10/2018	4:40	0.01
DRB15	5/10/2018	4:45	0.00
DRB15	5/10/2018	4:50	0.00
DRB15	5/10/2018	4:55	0.00
;			
DRB16	5/10/2018	0:00	0.00
DRB16	5/10/2018	0:05	0.00
DRB16	5/10/2018	0:10	0.01
DRB16	5/10/2018	0:15	0.13
DRB16	5/10/2018	0:20	1.03
DRB16	5/10/2018	0:25	17.27
DRB16	5/10/2018	0:30	105.47
DRB16	5/10/2018	0:35	220.25
DRB16	5/10/2018	0:40	291.73
DRB16	5/10/2018	0:45	321.41
DRB16	5/10/2018	0:50	323.00
DRB16	5/10/2018	0:55	310.44
DRB16	5/10/2018	1:00	295.77
DRB16	5/10/2018	1:05	282.75
DRB16	5/10/2018	1:10	269.98
DRB16	5/10/2018	1:15	269.37
DRB16	5/10/2018	1:20	305.71
DRB16	5/10/2018	1:25	346.30
DRB16	5/10/2018	1:30	359.26
DRB16	5/10/2018	1:35	351.61
DRB16	5/10/2018	1:40	332.05
DRB16	5/10/2018	1:45	309.96
DRB16	5/10/2018	1:50	290.14
DRB16	5/10/2018	1:55	271.98
DRB16	5/10/2018	2:00	251.86
DRB16	5/10/2018	2:05	233.65
DRB16	5/10/2018	2:10	229.02
DRB16	5/10/2018	2:15	241.97
DRB16	5/10/2018	2:20	265.45
DRB16	5/10/2018	2:25	288.40
DRB16	5/10/2018	2:30	305.25
DRB16	5/10/2018	2:35	313.66
DRB16	5/10/2018	2:40	315.30
DRB16	5/10/2018	2:45	313.33
DRB16	5/10/2018	2:50	309.59
DRB16	5/10/2018	2:55	302.18

DRB Ponding Areas

DRB16	5/10/2018	3:00	290.24
DRB16	5/10/2018	3:05	274.55
DRB16	5/10/2018	3:10	257.28
DRB16	5/10/2018	3:15	241.49
DRB16	5/10/2018	3:20	226.55
DRB16	5/10/2018	3:25	212.07
DRB16	5/10/2018	3:30	197.89
DRB16	5/10/2018	3:35	183.98
DRB16	5/10/2018	3:40	170.33
DRB16	5/10/2018	3:45	157.56
DRB16	5/10/2018	3:50	147.28
DRB16	5/10/2018	3:55	138.74
DRB16	5/10/2018	4:00	131.15
DRB16	5/10/2018	4:05	124.16
DRB16	5/10/2018	4:10	117.65
DRB16	5/10/2018	4:15	111.48
DRB16	5/10/2018	4:20	105.62
DRB16	5/10/2018	4:25	100.08
DRB16	5/10/2018	4:30	94.67
DRB16	5/10/2018	4:35	89.34
DRB16	5/10/2018	4:40	84.07
DRB16	5/10/2018	4:45	78.81
DRB16	5/10/2018	4:50	73.59
DRB16	5/10/2018	4:55	68.39
DRB16	5/10/2018	5:00	63.37
DRB16	5/10/2018	5:05	59.21
DRB16	5/10/2018	5:10	55.95
DRB16	5/10/2018	5:15	53.17
DRB16	5/10/2018	5:20	50.69
DRB16	5/10/2018	5:25	48.43
DRB16	5/10/2018	5:30	46.33
DRB16	5/10/2018	5:35	44.36
DRB16	5/10/2018	5:40	42.52
DRB16	5/10/2018	5:45	40.76
DRB16	5/10/2018	5:50	39.02
DRB16	5/10/2018	5:55	37.30
DRB16	5/10/2018	6:00	35.58
DRB16	5/10/2018	6:05	33.87
DRB16	5/10/2018	6:10	32.16
DRB16	5/10/2018	6:15	30.45
DRB16	5/10/2018	6:20	28.74
DRB16	5/10/2018	6:25	27.04
DRB16	5/10/2018	6:30	25.33
DRB16	5/10/2018	6:35	23.63
DRB16	5/10/2018	6:40	21.94
DRB16	5/10/2018	6:45	20.24
DRB16	5/10/2018	6:50	18.54
DRB16	5/10/2018	6:55	16.84
DRB16	5/10/2018	7:00	15.14
DRB16	5/10/2018	7:05	13.45
DRB16	5/10/2018	7:10	11.75
DRB16	5/10/2018	7:15	10.05
DRB16	5/10/2018	7:20	8.35
DRB16	5/10/2018	7:25	6.65
DRB16	5/10/2018	7:30	4.96
DRB16	5/10/2018	7:35	3.37
DRB16	5/10/2018	7:40	2.29
DRB16	5/10/2018	7:45	1.59
DRB16	5/10/2018	7:50	1.10
DRB16	5/10/2018	7:55	0.73
DRB16	5/10/2018	8:00	0.47
DRB16	5/10/2018	8:05	0.28
DRB16	5/10/2018	8:10	0.15

DRB Ponding Areas

DRB16	5/10/2018	8:15	0.10
DRB16	5/10/2018	8:20	0.07
DRB16	5/10/2018	8:25	0.05
DRB16	5/10/2018	8:30	0.04
DRB16	5/10/2018	8:35	0.03
DRB16	5/10/2018	8:40	0.02
DRB16	5/10/2018	8:45	0.01
DRB16	5/10/2018	8:50	0.01
DRB16	5/10/2018	8:55	0.00
DRB16	5/10/2018	9:00	0.00
DRB16	5/10/2018	9:05	0.00
DRB16	5/10/2018	9:10	0.00
DRB16	5/10/2018	9:15	0.00
DRB16	5/10/2018	9:20	0.00
DRB16	5/10/2018	9:25	0.00
DRB16	5/10/2018	9:30	0.00
DRB16	5/10/2018	9:35	0.00
DRB16	5/10/2018	9:40	0.00
DRB16	5/10/2018	9:45	0.00
DRB16	5/10/2018	9:50	0.00
DRB16	5/10/2018	9:55	0.00
DRB16	5/10/2018	10:00	0.00
DRB16	5/10/2018	10:05	0.00
DRB16	5/10/2018	10:10	0.00
DRB16	5/10/2018	10:15	0.00
DRB16	5/10/2018	10:20	0.00
DRB16	5/10/2018	10:25	0.00
;			
DRB17	5/10/2018	0:00	0.00
DRB17	5/10/2018	0:05	0.00
DRB17	5/10/2018	0:10	0.01
DRB17	5/10/2018	0:15	0.11
DRB17	5/10/2018	0:20	0.87
DRB17	5/10/2018	0:25	13.09
DRB17	5/10/2018	0:30	86.20
DRB17	5/10/2018	0:35	236.31
DRB17	5/10/2018	0:40	434.48
DRB17	5/10/2018	0:45	636.89
DRB17	5/10/2018	0:50	816.16
DRB17	5/10/2018	0:55	957.23
DRB17	5/10/2018	1:00	1053.27
DRB17	5/10/2018	1:05	1108.61
DRB17	5/10/2018	1:10	1124.64
DRB17	5/10/2018	1:15	1100.77
DRB17	5/10/2018	1:20	1048.23
DRB17	5/10/2018	1:25	998.63
DRB17	5/10/2018	1:30	950.00
DRB17	5/10/2018	1:35	941.24
DRB17	5/10/2018	1:40	1108.66
DRB17	5/10/2018	1:45	1296.71
DRB17	5/10/2018	1:50	1400.59
DRB17	5/10/2018	1:55	1423.92
DRB17	5/10/2018	2:00	1399.44
DRB17	5/10/2018	2:05	1343.64
DRB17	5/10/2018	2:10	1276.82
DRB17	5/10/2018	2:15	1216.41
DRB17	5/10/2018	2:20	1148.41
DRB17	5/10/2018	2:25	1087.47
DRB17	5/10/2018	2:30	1063.57
DRB17	5/10/2018	2:35	1073.14
DRB17	5/10/2018	2:40	1075.90
DRB17	5/10/2018	2:45	1054.78
DRB17	5/10/2018	2:50	1012.83

DRB Ponding Areas

DRB17	5/10/2018	2:55	962.84
DRB17	5/10/2018	3:00	922.36
DRB17	5/10/2018	3:05	942.97
DRB17	5/10/2018	3:10	1031.79
DRB17	5/10/2018	3:15	1137.60
DRB17	5/10/2018	3:20	1230.70
DRB17	5/10/2018	3:25	1300.57
DRB17	5/10/2018	3:30	1343.39
DRB17	5/10/2018	3:35	1357.98
DRB17	5/10/2018	3:40	1343.66
DRB17	5/10/2018	3:45	1300.98
DRB17	5/10/2018	3:50	1249.62
DRB17	5/10/2018	3:55	1190.21
DRB17	5/10/2018	4:00	1129.15
DRB17	5/10/2018	4:05	1088.96
DRB17	5/10/2018	4:10	1058.82
DRB17	5/10/2018	4:15	1024.56
DRB17	5/10/2018	4:20	982.07
DRB17	5/10/2018	4:25	934.34
DRB17	5/10/2018	4:30	881.23
DRB17	5/10/2018	4:35	826.64
DRB17	5/10/2018	4:40	774.30
DRB17	5/10/2018	4:45	721.06
DRB17	5/10/2018	4:50	667.39
DRB17	5/10/2018	4:55	616.92
DRB17	5/10/2018	5:00	572.35
DRB17	5/10/2018	5:05	554.11
DRB17	5/10/2018	5:10	550.93
DRB17	5/10/2018	5:15	541.57
DRB17	5/10/2018	5:20	523.43
DRB17	5/10/2018	5:25	500.85
DRB17	5/10/2018	5:30	475.52
DRB17	5/10/2018	5:35	456.73
DRB17	5/10/2018	5:40	478.47
DRB17	5/10/2018	5:45	545.51
DRB17	5/10/2018	5:50	630.62
DRB17	5/10/2018	5:55	705.52
DRB17	5/10/2018	6:00	758.33
DRB17	5/10/2018	6:05	784.68
DRB17	5/10/2018	6:10	790.76
DRB17	5/10/2018	6:15	783.31
DRB17	5/10/2018	6:20	762.05
DRB17	5/10/2018	6:25	727.89
DRB17	5/10/2018	6:30	691.02
DRB17	5/10/2018	6:35	671.03
DRB17	5/10/2018	6:40	698.00
DRB17	5/10/2018	6:45	734.30
DRB17	5/10/2018	6:50	738.10
DRB17	5/10/2018	6:55	717.94
DRB17	5/10/2018	7:00	687.68
DRB17	5/10/2018	7:05	653.56
DRB17	5/10/2018	7:10	619.83
DRB17	5/10/2018	7:15	588.53
DRB17	5/10/2018	7:20	573.48
DRB17	5/10/2018	7:25	626.29
DRB17	5/10/2018	7:30	687.37
DRB17	5/10/2018	7:35	707.59
DRB17	5/10/2018	7:40	699.66
DRB17	5/10/2018	7:45	670.41
DRB17	5/10/2018	7:50	629.02
DRB17	5/10/2018	7:55	588.31
DRB17	5/10/2018	8:00	553.05
DRB17	5/10/2018	8:05	514.85

DRB Ponding Areas

DRB17	5/10/2018	8:10	476.72
DRB17	5/10/2018	8:15	438.49
DRB17	5/10/2018	8:20	401.28
DRB17	5/10/2018	8:25	368.10
DRB17	5/10/2018	8:30	347.65
DRB17	5/10/2018	8:35	359.46
DRB17	5/10/2018	8:40	352.49
DRB17	5/10/2018	8:45	331.79
DRB17	5/10/2018	8:50	306.75
DRB17	5/10/2018	8:55	281.51
DRB17	5/10/2018	9:00	255.72
DRB17	5/10/2018	9:05	232.48
DRB17	5/10/2018	9:10	212.00
DRB17	5/10/2018	9:15	189.46
DRB17	5/10/2018	9:20	167.78
DRB17	5/10/2018	9:25	146.33
DRB17	5/10/2018	9:30	127.17
DRB17	5/10/2018	9:35	109.64
DRB17	5/10/2018	9:40	93.21
DRB17	5/10/2018	9:45	77.45
DRB17	5/10/2018	9:50	62.29
DRB17	5/10/2018	9:55	48.68
DRB17	5/10/2018	10:00	38.41
DRB17	5/10/2018	10:05	30.64
DRB17	5/10/2018	10:10	23.88
DRB17	5/10/2018	10:15	18.24
DRB17	5/10/2018	10:20	14.04
DRB17	5/10/2018	10:25	11.05
DRB17	5/10/2018	10:30	8.920682002
DRB17	5/10/2018	10:35	7.461964254
DRB17	5/10/2018	10:40	6.376659931
DRB17	5/10/2018	10:45	5.538496462
DRB17	5/10/2018	10:50	4.863112735
DRB17	5/10/2018	10:55	4.335378134
DRB17	5/10/2018	11:00	3.899453059
DRB17	5/10/2018	11:05	3.513414714
DRB17	5/10/2018	11:10	3.157261525
DRB17	5/10/2018	11:15	2.823189309
DRB17	5/10/2018	11:20	2.511201228
DRB17	5/10/2018	11:25	2.221299123
DRB17	5/10/2018	11:30	1.952081896
DRB17	5/10/2018	11:35	1.695817652
DRB17	5/10/2018	11:40	1.450316945
DRB17	5/10/2018	11:45	1.2149289
DRB17	5/10/2018	11:50	0.989678349
DRB17	5/10/2018	11:55	0.767982011
DRB17	5/10/2018	12:00	0.550849995
DRB17	5/10/2018	12:05	0.365660099
DRB17	5/10/2018	12:10	0.251185838
DRB17	5/10/2018	12:15	0.174265525
DRB17	5/10/2018	12:20	0.11807144
DRB17	5/10/2018	12:25	0.077078937
DRB17	5/10/2018	12:30	0.047422309
DRB17	5/10/2018	12:35	0.026558874
DRB17	5/10/2018	12:40	0.014521422
DRB17	5/10/2018	12:45	0.009642015
DRB17	5/10/2018	12:50	0.006733886
DRB17	5/10/2018	12:55	0.005356614
DRB17	5/10/2018	13:00	0.004136451
DRB17	5/10/2018	13:05	0.003073513
DRB17	5/10/2018	13:10	0.002167869
DRB17	5/10/2018	13:15	0.001419559
DRB17	5/10/2018	13:20	0.000828606

DRB Ponding Areas

DRB17	5/10/2018	13:25	0.000395024
DRB17	5/10/2018	13:30	0.00
DRB17	5/10/2018	13:35	0.00
DRB17	5/10/2018	13:40	0.00
DRB17	5/10/2018	13:45	0.00
DRB17	5/10/2018	13:50	0.00
DRB17	5/10/2018	13:55	0.00
DRB17	5/10/2018	14:00	0.00
DRB17	5/10/2018	14:05	0.00
;			
DRB18	5/10/2018	0:00	0.00
DRB18	5/10/2018	0:05	0.00
DRB18	5/10/2018	0:10	0.00
DRB18	5/10/2018	0:15	0.02
DRB18	5/10/2018	0:20	0.17
DRB18	5/10/2018	0:25	2.83
DRB18	5/10/2018	0:30	19.37
DRB18	5/10/2018	0:35	53.65
DRB18	5/10/2018	0:40	97.48
DRB18	5/10/2018	0:45	139.84
DRB18	5/10/2018	0:50	175.42
DRB18	5/10/2018	0:55	201.34
DRB18	5/10/2018	1:00	218.00
DRB18	5/10/2018	1:05	228.96
DRB18	5/10/2018	1:10	235.12
DRB18	5/10/2018	1:15	236.23
DRB18	5/10/2018	1:20	232.20
DRB18	5/10/2018	1:25	223.68
DRB18	5/10/2018	1:30	212.84
DRB18	5/10/2018	1:35	202.80
DRB18	5/10/2018	1:40	193.09
DRB18	5/10/2018	1:45	183.43
DRB18	5/10/2018	1:50	173.87
DRB18	5/10/2018	1:55	164.42
DRB18	5/10/2018	2:00	155.09
DRB18	5/10/2018	2:05	146.29
DRB18	5/10/2018	2:10	139.07
DRB18	5/10/2018	2:15	132.58
DRB18	5/10/2018	2:20	126.48
DRB18	5/10/2018	2:25	120.64
DRB18	5/10/2018	2:30	114.98
DRB18	5/10/2018	2:35	109.48
DRB18	5/10/2018	2:40	104.12
DRB18	5/10/2018	2:45	98.91
DRB18	5/10/2018	2:50	93.74
DRB18	5/10/2018	2:55	88.61
DRB18	5/10/2018	3:00	83.49
DRB18	5/10/2018	3:05	78.37
DRB18	5/10/2018	3:10	73.26
DRB18	5/10/2018	3:15	68.16
DRB18	5/10/2018	3:20	63.22
DRB18	5/10/2018	3:25	59.13
DRB18	5/10/2018	3:30	55.91
DRB18	5/10/2018	3:35	53.16
DRB18	5/10/2018	3:40	50.69
DRB18	5/10/2018	3:45	48.43
DRB18	5/10/2018	3:50	46.33
DRB18	5/10/2018	3:55	44.36
DRB18	5/10/2018	4:00	42.52
DRB18	5/10/2018	4:05	40.76
DRB18	5/10/2018	4:10	39.02
DRB18	5/10/2018	4:15	37.30
DRB18	5/10/2018	4:20	35.58

DRB Ponding Areas

DRB18	5/10/2018	4:25	33.87
DRB18	5/10/2018	4:30	32.16
DRB18	5/10/2018	4:35	30.45
DRB18	5/10/2018	4:40	28.74
DRB18	5/10/2018	4:45	27.04
DRB18	5/10/2018	4:50	25.33
DRB18	5/10/2018	4:55	23.63
DRB18	5/10/2018	5:00	21.94
DRB18	5/10/2018	5:05	20.24
DRB18	5/10/2018	5:10	18.54
DRB18	5/10/2018	5:15	16.84
DRB18	5/10/2018	5:20	15.14
DRB18	5/10/2018	5:25	13.45
DRB18	5/10/2018	5:30	11.75
DRB18	5/10/2018	5:35	10.05
DRB18	5/10/2018	5:40	8.35
DRB18	5/10/2018	5:45	6.65
DRB18	5/10/2018	5:50	4.96
DRB18	5/10/2018	5:55	3.37
DRB18	5/10/2018	6:00	2.29
DRB18	5/10/2018	6:05	1.59
DRB18	5/10/2018	6:10	1.10
DRB18	5/10/2018	6:15	0.73
DRB18	5/10/2018	6:20	0.47
DRB18	5/10/2018	6:25	0.28
DRB18	5/10/2018	6:30	0.15
DRB18	5/10/2018	6:35	0.10
DRB18	5/10/2018	6:40	0.07
DRB18	5/10/2018	6:45	0.05
DRB18	5/10/2018	6:50	0.04
DRB18	5/10/2018	6:55	0.03
DRB18	5/10/2018	7:00	0.02
DRB18	5/10/2018	7:05	0.01
DRB18	5/10/2018	7:10	0.01
DRB18	5/10/2018	7:15	0.00
DRB18	5/10/2018	7:20	0.00
DRB18	5/10/2018	7:25	0.00
;			
DRB19	5/10/2018	0:00	0.00
DRB19	5/10/2018	0:05	0.00
DRB19	5/10/2018	0:10	0.16
DRB19	5/10/2018	0:15	2.07
DRB19	5/10/2018	0:20	7.95
DRB19	5/10/2018	0:25	28.80
DRB19	5/10/2018	0:30	88.37
DRB19	5/10/2018	0:35	153.23
DRB19	5/10/2018	0:40	189.55
DRB19	5/10/2018	0:45	204.07
DRB19	5/10/2018	0:50	204.97
DRB19	5/10/2018	0:55	197.93
DRB19	5/10/2018	1:00	190.05
DRB19	5/10/2018	1:05	182.28
DRB19	5/10/2018	1:10	171.47
DRB19	5/10/2018	1:15	162.01
DRB19	5/10/2018	1:20	165.76
DRB19	5/10/2018	1:25	186.60
DRB19	5/10/2018	1:30	217.41
DRB19	5/10/2018	1:35	247.52
DRB19	5/10/2018	1:40	271.38
DRB19	5/10/2018	1:45	286.76
DRB19	5/10/2018	1:50	295.32
DRB19	5/10/2018	1:55	299.81
DRB19	5/10/2018	2:00	300.37

DRB Ponding Areas

DRB19	5/10/2018	2:05	295.76
DRB19	5/10/2018	2:10	285.83
DRB19	5/10/2018	2:15	271.61
DRB19	5/10/2018	2:20	255.40
DRB19	5/10/2018	2:25	240.37
DRB19	5/10/2018	2:30	225.93
DRB19	5/10/2018	2:35	211.67
DRB19	5/10/2018	2:40	197.61
DRB19	5/10/2018	2:45	183.76
DRB19	5/10/2018	2:50	170.16
DRB19	5/10/2018	2:55	157.43
DRB19	5/10/2018	3:00	147.19
DRB19	5/10/2018	3:05	138.67
DRB19	5/10/2018	3:10	131.11
DRB19	5/10/2018	3:15	124.14
DRB19	5/10/2018	3:20	117.64
DRB19	5/10/2018	3:25	111.48
DRB19	5/10/2018	3:30	105.62
DRB19	5/10/2018	3:35	100.08
DRB19	5/10/2018	3:40	94.67
DRB19	5/10/2018	3:45	89.34
DRB19	5/10/2018	3:50	84.07
DRB19	5/10/2018	3:55	78.81
DRB19	5/10/2018	4:00	73.59
DRB19	5/10/2018	4:05	68.39
DRB19	5/10/2018	4:10	63.37
DRB19	5/10/2018	4:15	59.21
DRB19	5/10/2018	4:20	55.95
DRB19	5/10/2018	4:25	53.17
DRB19	5/10/2018	4:30	50.69
DRB19	5/10/2018	4:35	48.43
DRB19	5/10/2018	4:40	46.33
DRB19	5/10/2018	4:45	44.36
DRB19	5/10/2018	4:50	42.52
DRB19	5/10/2018	4:55	40.76
DRB19	5/10/2018	5:00	39.02
DRB19	5/10/2018	5:05	37.30
DRB19	5/10/2018	5:10	35.58
DRB19	5/10/2018	5:15	33.87
DRB19	5/10/2018	5:20	32.16
DRB19	5/10/2018	5:25	30.45
DRB19	5/10/2018	5:30	28.74
DRB19	5/10/2018	5:35	27.04
DRB19	5/10/2018	5:40	25.33
DRB19	5/10/2018	5:45	23.63
DRB19	5/10/2018	5:50	21.94
DRB19	5/10/2018	5:55	20.24
DRB19	5/10/2018	6:00	18.54
DRB19	5/10/2018	6:05	16.84
DRB19	5/10/2018	6:10	15.14
DRB19	5/10/2018	6:15	13.45
DRB19	5/10/2018	6:20	11.75
DRB19	5/10/2018	6:25	10.05
DRB19	5/10/2018	6:30	8.35
DRB19	5/10/2018	6:35	6.65
DRB19	5/10/2018	6:40	4.96
DRB19	5/10/2018	6:45	3.37
DRB19	5/10/2018	6:50	2.29
DRB19	5/10/2018	6:55	1.59
DRB19	5/10/2018	7:00	1.10
DRB19	5/10/2018	7:05	0.73
DRB19	5/10/2018	7:10	0.47
DRB19	5/10/2018	7:15	0.28

DRB Ponding Areas

DRB19	5/10/2018	7:20	0.15
DRB19	5/10/2018	7:25	0.10
DRB19	5/10/2018	7:30	0.07
DRB19	5/10/2018	7:35	0.05
DRB19	5/10/2018	7:40	0.04
DRB19	5/10/2018	7:45	0.03
DRB19	5/10/2018	7:50	0.02
DRB19	5/10/2018	7:55	0.01
DRB19	5/10/2018	8:00	0.01
DRB19	5/10/2018	8:05	0.00
;			
DRB21	5/10/2018	0:00	0.00
DRB21	5/10/2018	0:05	0.00
DRB21	5/10/2018	0:10	0.00
DRB21	5/10/2018	0:15	0.04
DRB21	5/10/2018	0:20	0.52
DRB21	5/10/2018	0:25	14.88
DRB21	5/10/2018	0:30	96.27
DRB21	5/10/2018	0:35	177.79
DRB21	5/10/2018	0:40	213.24
DRB21	5/10/2018	0:45	217.56
DRB21	5/10/2018	0:50	209.17
DRB21	5/10/2018	0:55	195.93
DRB21	5/10/2018	1:00	181.98
DRB21	5/10/2018	1:05	171.66
DRB21	5/10/2018	1:10	158.45
DRB21	5/10/2018	1:15	152.75
DRB21	5/10/2018	1:20	159.88
DRB21	5/10/2018	1:25	175.61
DRB21	5/10/2018	1:30	195.36
DRB21	5/10/2018	1:35	212.82
DRB21	5/10/2018	1:40	224.35
DRB21	5/10/2018	1:45	229.39
DRB21	5/10/2018	1:50	230.61
DRB21	5/10/2018	1:55	228.50
DRB21	5/10/2018	2:00	222.85
DRB21	5/10/2018	2:05	213.50
DRB21	5/10/2018	2:10	200.56
DRB21	5/10/2018	2:15	185.70
DRB21	5/10/2018	2:20	172.90
DRB21	5/10/2018	2:25	162.19
DRB21	5/10/2018	2:30	152.45
DRB21	5/10/2018	2:35	143.35
DRB21	5/10/2018	2:40	134.75
DRB21	5/10/2018	2:45	126.53
DRB21	5/10/2018	2:50	118.90
DRB21	5/10/2018	2:55	112.62
DRB21	5/10/2018	3:00	107.23
DRB21	5/10/2018	3:05	102.29
DRB21	5/10/2018	3:10	97.61
DRB21	5/10/2018	3:15	93.10
DRB21	5/10/2018	3:20	88.72
DRB21	5/10/2018	3:25	84.47
DRB21	5/10/2018	3:30	80.34
DRB21	5/10/2018	3:35	76.25
DRB21	5/10/2018	3:40	72.20
DRB21	5/10/2018	3:45	68.17
DRB21	5/10/2018	3:50	64.14
DRB21	5/10/2018	3:55	60.11
DRB21	5/10/2018	4:00	56.09
DRB21	5/10/2018	4:05	52.10
DRB21	5/10/2018	4:10	48.41
DRB21	5/10/2018	4:15	45.64

DRB Ponding Areas

DRB21	5/10/2018	4:20	43.35
DRB21	5/10/2018	4:25	41.31
DRB21	5/10/2018	4:30	39.47
DRB21	5/10/2018	4:35	37.77
DRB21	5/10/2018	4:40	36.18
DRB21	5/10/2018	4:45	34.69
DRB21	5/10/2018	4:50	33.29
DRB21	5/10/2018	4:55	31.92
DRB21	5/10/2018	5:00	30.57
DRB21	5/10/2018	5:05	29.22
DRB21	5/10/2018	5:10	27.87
DRB21	5/10/2018	5:15	26.53
DRB21	5/10/2018	5:20	25.18
DRB21	5/10/2018	5:25	23.84
DRB21	5/10/2018	5:30	22.49
DRB21	5/10/2018	5:35	21.15
DRB21	5/10/2018	5:40	19.81
DRB21	5/10/2018	5:45	18.47
DRB21	5/10/2018	5:50	17.13
DRB21	5/10/2018	5:55	15.79
DRB21	5/10/2018	6:00	14.46
DRB21	5/10/2018	6:05	13.12
DRB21	5/10/2018	6:10	11.78
DRB21	5/10/2018	6:15	10.44
DRB21	5/10/2018	6:20	9.10
DRB21	5/10/2018	6:25	7.76
DRB21	5/10/2018	6:30	6.42
DRB21	5/10/2018	6:35	5.08
DRB21	5/10/2018	6:40	3.74
DRB21	5/10/2018	6:45	2.49
DRB21	5/10/2018	6:50	1.68
DRB21	5/10/2018	6:55	1.16
DRB21	5/10/2018	7:00	0.78
DRB21	5/10/2018	7:05	0.51
DRB21	5/10/2018	7:10	0.31
DRB21	5/10/2018	7:15	0.17
DRB21	5/10/2018	7:20	0.08
DRB21	5/10/2018	7:25	0.05
DRB21	5/10/2018	7:30	0.03
DRB21	5/10/2018	7:35	0.02
DRB21	5/10/2018	7:40	0.02
DRB21	5/10/2018	7:45	0.01
DRB21	5/10/2018	7:50	0.01
DRB21	5/10/2018	7:55	0.01
DRB21	5/10/2018	8:00	0.00
DRB21	5/10/2018	8:05	0.00
;			
DRB22	5/10/2018	0:00	0.00
DRB22	5/10/2018	0:05	0.00
DRB22	5/10/2018	0:10	0.14
DRB22	5/10/2018	0:15	1.77
DRB22	5/10/2018	0:20	7.48
DRB22	5/10/2018	0:25	34.73
DRB22	5/10/2018	0:30	114.17
DRB22	5/10/2018	0:35	164.02
DRB22	5/10/2018	0:40	177.90
DRB22	5/10/2018	0:45	173.86
DRB22	5/10/2018	0:50	165.00
DRB22	5/10/2018	0:55	153.03
DRB22	5/10/2018	1:00	144.13
DRB22	5/10/2018	1:05	162.08
DRB22	5/10/2018	1:10	301.98
DRB22	5/10/2018	1:15	517.86

DRB Ponding Areas

DRB22	5/10/2018	1:20	735.29
DRB22	5/10/2018	1:25	929.63
DRB22	5/10/2018	1:30	1090.57
DRB22	5/10/2018	1:35	1210.08
DRB22	5/10/2018	1:40	1284.74
DRB22	5/10/2018	1:45	1322.97
DRB22	5/10/2018	1:50	1319.41
DRB22	5/10/2018	1:55	1283.84
DRB22	5/10/2018	2:00	1232.87
DRB22	5/10/2018	2:05	1192.92
DRB22	5/10/2018	2:10	1158.63
DRB22	5/10/2018	2:15	1163.77
DRB22	5/10/2018	2:20	1340.23
DRB22	5/10/2018	2:25	1531.44
DRB22	5/10/2018	2:30	1635.12
DRB22	5/10/2018	2:35	1655.23
DRB22	5/10/2018	2:40	1624.26
DRB22	5/10/2018	2:45	1558.54
DRB22	5/10/2018	2:50	1478.29
DRB22	5/10/2018	2:55	1400.88
DRB22	5/10/2018	3:00	1314.19
DRB22	5/10/2018	3:05	1224.20
DRB22	5/10/2018	3:10	1147.40
DRB22	5/10/2018	3:15	1117.19
DRB22	5/10/2018	3:20	1118.76
DRB22	5/10/2018	3:25	1117.19
DRB22	5/10/2018	3:30	1102.23
DRB22	5/10/2018	3:35	1078.89
DRB22	5/10/2018	3:40	1057.54
DRB22	5/10/2018	3:45	1091.95
DRB22	5/10/2018	3:50	1193.05
DRB22	5/10/2018	3:55	1304.92
DRB22	5/10/2018	4:00	1385.87
DRB22	5/10/2018	4:05	1422.27
DRB22	5/10/2018	4:10	1421.23
DRB22	5/10/2018	4:15	1397.47
DRB22	5/10/2018	4:20	1366.38
DRB22	5/10/2018	4:25	1354.20
DRB22	5/10/2018	4:30	1345.54
DRB22	5/10/2018	4:35	1304.47
DRB22	5/10/2018	4:40	1244.02
DRB22	5/10/2018	4:45	1196.56
DRB22	5/10/2018	4:50	1158.40
DRB22	5/10/2018	4:55	1121.21
DRB22	5/10/2018	5:00	1078.76
DRB22	5/10/2018	5:05	1027.22
DRB22	5/10/2018	5:10	968.93
DRB22	5/10/2018	5:15	908.60
DRB22	5/10/2018	5:20	849.93
DRB22	5/10/2018	5:25	790.84
DRB22	5/10/2018	5:30	731.94
DRB22	5/10/2018	5:35	675.98
DRB22	5/10/2018	5:40	624.63
DRB22	5/10/2018	5:45	600.35
DRB22	5/10/2018	5:50	591.80
DRB22	5/10/2018	5:55	577.37
DRB22	5/10/2018	6:00	553.73
DRB22	5/10/2018	6:05	525.97
DRB22	5/10/2018	6:10	496.24
DRB22	5/10/2018	6:15	473.53
DRB22	5/10/2018	6:20	491.88
DRB22	5/10/2018	6:25	555.91
DRB22	5/10/2018	6:30	638.26

DRB Ponding Areas

DRB22	5/10/2018	6:35	710.59
DRB22	5/10/2018	6:40	761.07
DRB22	5/10/2018	6:45	785.23
DRB22	5/10/2018	6:50	789.33
DRB22	5/10/2018	6:55	779.96
DRB22	5/10/2018	7:00	756.88
DRB22	5/10/2018	7:05	720.97
DRB22	5/10/2018	7:10	682.41
DRB22	5/10/2018	7:15	660.79
DRB22	5/10/2018	7:20	686.17
DRB22	5/10/2018	7:25	720.98
DRB22	5/10/2018	7:30	723.76
DRB22	5/10/2018	7:35	702.91
DRB22	5/10/2018	7:40	672.15
DRB22	5/10/2018	7:45	637.62
DRB22	5/10/2018	7:50	603.56
DRB22	5/10/2018	7:55	572.02
DRB22	5/10/2018	8:00	556.79
DRB22	5/10/2018	8:05	609.48
DRB22	5/10/2018	8:10	670.50
DRB22	5/10/2018	8:15	690.67
DRB22	5/10/2018	8:20	682.73
DRB22	5/10/2018	8:25	653.46
DRB22	5/10/2018	8:30	612.06
DRB22	5/10/2018	8:35	571.45
DRB22	5/10/2018	8:40	536.81
DRB22	5/10/2018	8:45	499.61
DRB22	5/10/2018	8:50	462.67
DRB22	5/10/2018	8:55	425.78
DRB22	5/10/2018	9:00	390.00
DRB22	5/10/2018	9:05	358.33
DRB22	5/10/2018	9:10	339.45
DRB22	5/10/2018	9:15	352.90
DRB22	5/10/2018	9:20	347.59
DRB22	5/10/2018	9:25	328.47
DRB22	5/10/2018	9:30	304.50
DRB22	5/10/2018	9:35	279.94
DRB22	5/10/2018	9:40	254.64
DRB22	5/10/2018	9:45	231.76
DRB22	5/10/2018	9:50	211.54
DRB22	5/10/2018	9:55	189.18
DRB22	5/10/2018	10:00	167.62
DRB22	5/10/2018	10:05	146.24
DRB22	5/10/2018	10:10	127.10
DRB22	5/10/2018	10:15	109.59
DRB22	5/10/2018	10:20	93.17
DRB22	5/10/2018	10:25	77.42
DRB22	5/10/2018	10:30	62.27048526
DRB22	5/10/2018	10:35	48.66136456
DRB22	5/10/2018	10:40	38.40406348
DRB22	5/10/2018	10:45	30.64016402
DRB22	5/10/2018	10:50	23.87530334
DRB22	5/10/2018	10:55	18.24360217
DRB22	5/10/2018	11:00	14.04332483
DRB22	5/10/2018	11:05	11.0549293
DRB22	5/10/2018	11:10	8.921695246
DRB22	5/10/2018	11:15	7.46224039
DRB22	5/10/2018	11:20	6.376659931
DRB22	5/10/2018	11:25	5.538496462
DRB22	5/10/2018	11:30	4.863112735
DRB22	5/10/2018	11:35	4.335378134
DRB22	5/10/2018	11:40	3.899453059
DRB22	5/10/2018	11:45	3.513414714

DRB Ponding Areas

DRB22	5/10/2018	11:50	3.157261525
DRB22	5/10/2018	11:55	2.823189309
DRB22	5/10/2018	12:00	2.511201228
DRB22	5/10/2018	12:05	2.221299123
DRB22	5/10/2018	12:10	1.952081896
DRB22	5/10/2018	12:15	1.695817652
DRB22	5/10/2018	12:20	1.450316945
DRB22	5/10/2018	12:25	1.2149289
DRB22	5/10/2018	12:30	0.989678349
DRB22	5/10/2018	12:35	0.767982011
DRB22	5/10/2018	12:40	0.550849995
DRB22	5/10/2018	12:45	0.365660099
DRB22	5/10/2018	12:50	0.251185838
DRB22	5/10/2018	12:55	0.174265525
DRB22	5/10/2018	13:00	0.11807144
DRB22	5/10/2018	13:05	0.077078937
DRB22	5/10/2018	13:10	0.047422309
DRB22	5/10/2018	13:15	0.026558874
DRB22	5/10/2018	13:20	0.014521422
DRB22	5/10/2018	13:25	0.009642015
DRB22	5/10/2018	13:30	0.01
DRB22	5/10/2018	13:35	0.01
DRB22	5/10/2018	13:40	0.00
DRB22	5/10/2018	13:45	0.00
DRB22	5/10/2018	13:50	0.00
DRB22	5/10/2018	13:55	0.00
DRB22	5/10/2018	14:00	0.00
DRB22	5/10/2018	14:05	0.00
;			
DRB23	5/10/2018	0:00	0.00
DRB23	5/10/2018	0:05	0.00
DRB23	5/10/2018	0:10	0.10
DRB23	5/10/2018	0:15	1.23
DRB23	5/10/2018	0:20	2.83
DRB23	5/10/2018	0:25	6.76
DRB23	5/10/2018	0:30	15.39
DRB23	5/10/2018	0:35	16.22
DRB23	5/10/2018	0:40	14.14
DRB23	5/10/2018	0:45	11.89
DRB23	5/10/2018	0:50	9.79
DRB23	5/10/2018	0:55	8.01
DRB23	5/10/2018	1:00	6.68
DRB23	5/10/2018	1:05	5.61
DRB23	5/10/2018	1:10	3.99
DRB23	5/10/2018	1:15	3.08
DRB23	5/10/2018	1:20	2.23
DRB23	5/10/2018	1:25	1.70
DRB23	5/10/2018	1:30	1.37
DRB23	5/10/2018	1:35	1.15
DRB23	5/10/2018	1:40	1.02
DRB23	5/10/2018	1:45	0.95
DRB23	5/10/2018	1:50	0.92
DRB23	5/10/2018	1:55	0.91
DRB23	5/10/2018	2:00	0.91
DRB23	5/10/2018	2:05	0.59
DRB23	5/10/2018	2:10	0.38
DRB23	5/10/2018	2:15	0.23
DRB23	5/10/2018	2:20	0.14
DRB23	5/10/2018	2:25	0.08
DRB23	5/10/2018	2:30	0.04
DRB23	5/10/2018	2:35	0.01
DRB23	5/10/2018	2:40	0.00
DRB23	5/10/2018	2:45	0.00

DRB Ponding Areas

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

 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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed YES
 Water Quality NO
 Flow Routing Method DYNWAVE
 Starting Date 05/10/2018 00:00:00
 Ending Date 05/10/2018 10:00:00
 Antecedent Dry Days 0.0
 Report Time Step 00:00:05
 Routing Time Step 5.00 sec
 Variable Time Step YES
 Maximum Trials 8
 Number of Threads 1
 Head Tolerance 0.005000 ft

*****	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	2869.877	935.192
External Outflow	965.976	314.778
Flooding Loss	1757.970	572.861
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	146.027	47.585
Continuity Error (%)	-0.003	

 Time-Step Critical Elements

Link DRB6 (60.17%)
 Link DRB22(1) (21.90%)
 Link DRB18 (9.71%)
 Link DRB4 (5.85%)

 Highest Flow Instability Indexes

DRB Ponding Areas

All links are stable.

Routing Time Step Summary

Minimum Time Step : 1.31 sec
 Average Time Step : 1.75 sec
 Maximum Time Step : 5.00 sec
 Percent in Steady State : -0.00
 Average Iterations per Step : 2.00
 Percent Not Converging : 0.00

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
DRB3_0	OUTFALL	0.72	1.50	4938.34	0 00:35	1.50
DRB4_0	OUTFALL	1.82	5.00	4928.14	0 01:56	5.00
DRB6-0	OUTFALL	1.94	2.77	22.77	0 02:04	2.77
DRB7-0	OUTFALL	0.62	2.70	47.20	0 00:55	2.70
DRB2-0	OUTFALL	0.66	0.91	4997.91	0 01:03	0.91
DRB8-0	OUTFALL	0.98	3.00	24.99	0 01:56	3.00
DRB9-0	OUTFALL	0.72	0.99	43.39	0 01:01	0.99
DRB10-0	OUTFALL	1.62	1.98	68.54	0 07:05	1.98
DRB11-0	OUTFALL	1.52	2.00	63.00	0 07:40	2.00
DRB13-0	OUTFALL	0.42	0.50	59.47	0 03:23	0.50
DRB14-0	OUTFALL	1.58	2.83	32.83	0 01:29	2.83
DRB15-0	OUTFALL	0.72	1.27	84.27	0 00:39	1.27
DRB16-0	OUTFALL	1.07	1.26	78.95	0 00:29	1.26
DRB18-0	OUTFALL	1.31	2.17	5.69	0 01:35	2.17
DRB22(1)-0	OUTFALL	3.60	3.78	73.78	0 06:11	3.78
DRB22(2)-0	OUTFALL	3.60	3.78	73.78	0 06:11	3.78
DRB23-0	OUTFALL	0.27	1.02	94.13	0 00:59	1.02
DRB1	STORAGE	0.73	0.80	5010.80	0 03:40	0.80
DRB3	STORAGE	3.55	10.00	4949.81	0 01:31	10.00
DRB4	STORAGE	1.84	6.21	4932.61	0 02:25	6.21
DRB5	STORAGE	0.98	1.00	4927.00	0 00:38	1.00
DRB6	STORAGE	2.64	4.00	25.00	0 02:02	4.00
DRB7	STORAGE	0.63	2.70	47.70	0 00:55	2.70
DRB2	STORAGE	1.26	2.00	5004.00	0 01:01	2.00
DRB8	STORAGE	0.98	3.00	26.53	0 01:45	3.00
DRB9	STORAGE	1.39	2.00	45.00	0 00:37	2.00
DRB10	STORAGE	2.41	3.00	70.00	0 00:51	3.00
DRB11	STORAGE	3.45	5.00	67.00	0 02:00	5.00
DRB12	STORAGE	3.46	4.00	59.00	0 02:24	4.00
DRB13	STORAGE	0.55	0.66	60.64	0 03:23	0.66
DRB14	STORAGE	3.26	7.00	42.00	0 01:20	7.00
DRB15	STORAGE	1.01	2.00	87.00	0 00:38	2.00
DRB16	STORAGE	1.68	2.00	82.00	0 00:28	2.00
DRB17	STORAGE	2.81	3.00	101.00	0 01:12	3.00
DRB18	STORAGE	1.69	3.00	8.53	0 00:38	3.00
DRB19	STORAGE	1.70	2.00	6.00	0 02:48	2.00
DRB21	STORAGE	4.82	5.00	17.00	0 00:53	5.00
DRB22	STORAGE	6.45	7.00	80.00	0 01:33	7.00
DRB23	STORAGE	0.35	1.64	95.97	0 00:59	1.64

DRB Ponding Areas

 Node Inflow Summary

Total Inflow Volume Node gal	Flow Balance Error Percent	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	10^6
1.97	0.000	OUTFALL	0.00	22.40	0 01:34	0	
46	0.000	OUTFALL	0.00	645.53	0 02:25	0	
10.9	0.000	OUTFALL	0.00	81.08	0 02:04	0	
4.03	0.000	OUTFALL	0.00	104.84	0 00:55	0	
0.731	0.000	OUTFALL	0.00	4.86	0 01:35	0	
6.49	0.000	OUTFALL	0.00	121.19	0 01:56	0	
0.914	0.000	OUTFALL	0.00	6.18	0 01:57	0	
54.4	0.000	OUTFALL	0.00	300.89	0 06:02	0	
80.7	0.000	OUTFALL	0.00	495.04	0 06:17	0	
0.27	0.000	OUTFALL	0.00	1.39	0 03:23	0	
9.85	0.000	OUTFALL	0.00	89.26	0 01:35	0	
1.21	0.000	OUTFALL	0.00	11.00	0 01:35	0	
2.18	0.000	OUTFALL	0.00	11.01	0 00:30	0	
5.43	0.000	OUTFALL	0.00	44.47	0 01:35	0	
44.7	0.000	OUTFALL	0.00	183.52	0 06:11	0	
44.7	0.000	OUTFALL	0.00	183.52	0 06:11	0	
0.261	0.000	OUTFALL	0.00	6.96	0 00:59	0	
1.9	0.000	STORAGE	73.17	73.17	0 00:40	1.9	
2.18	-0.003	STORAGE	36.45	36.45	0 01:35	2.18	
46	0.001	STORAGE	643.10	643.10	0 02:25	46	
46.3	0.001	STORAGE	643.22	643.22	0 03:10	46.3	
		STORAGE	889.82	889.82	0 02:55	47.2	

DRB Ponding Areas

47.2	-0.001						
DRB7		STORAGE	104.85	104.85	0	00:55	4.03
4.03	0.003						
DRB2		STORAGE	107.85	107.85	0	01:40	3.6
3.6	-0.001						
DRB8		STORAGE	136.48	136.48	0	01:50	6.6
6.6	0.001						
DRB9		STORAGE	108.47	108.47	0	01:10	5.77
5.77	-0.006						
DRB10		STORAGE	718.88	718.88	0	03:35	88.6
88.6	0.000						
DRB11		STORAGE	718.89	718.89	0	04:25	89.2
89.2	-0.001						
DRB12		STORAGE	718.89	718.89	0	05:00	91.7
91.7	-0.006						
DRB13		STORAGE	15.15	15.15	0	00:50	0.618
0.618	0.022						
DRB14		STORAGE	288.76	288.76	0	01:40	14.7
14.7	-0.002						
DRB15		STORAGE	162.41	162.41	0	00:50	5.81
5.81	-0.005						
DRB16		STORAGE	359.24	359.24	0	01:30	29.8
29.8	-0.000						
DRB17		STORAGE	1423.91	1423.91	0	01:55	191
191	-0.006						
DRB18		STORAGE	236.23	236.23	0	01:15	13.2
13.2	-0.001						
DRB19		STORAGE	300.37	300.37	0	02:00	20.2
20.2	-0.008						
DRB21		STORAGE	230.61	230.61	0	01:50	16.3
16.3	-0.005						
DRB22		STORAGE	1655.18	1655.18	0	02:35	210
210	0.006						
DRB23		STORAGE	16.22	16.22	0	00:35	0.265
0.265	0.002						

Node Surcharge Summary

No nodes were surcharged.

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 Poned Depth Feet
DRB3	0.88	14.05	0 01:35	0.206	0.000
DRB5	8.46	643.21	0 03:10	46.267	0.000
DRB6	3.94	808.72	0 02:55	36.325	0.000
DRB2	2.67	102.99	0 01:40	2.873	0.000
DRB8	0.41	15.29	0 01:50	0.114	0.000
DRB9	4.46	102.29	0 01:10	4.853	0.000
DRB10	5.41	417.98	0 03:35	34.238	0.000
DRB11	2.79	224.28	0 04:25	8.518	0.000

DRB Ponding Areas							
DRB12	7.59	718.89	0	05:00	80.790	0.000	
DRB14	1.61	199.49	0	01:40	4.840	0.000	
DRB15	2.56	151.41	0	00:50	4.599	0.000	
DRB16	6.73	348.22	0	01:30	27.663	0.000	
DRB17	8.79	1423.85	0	01:55	176.321	0.000	
DRB18	3.28	191.75	0	01:15	7.818	0.000	
DRB19	5.27	173.29	0	02:48	6.111	0.000	
DRB21	7.11	230.61	0	01:50	14.097	0.000	
DRB22	7.50	1288.13	0	02:35	117.183	0.000	

Storage Volume Summary

of Max Occurrence hr:min	Maximum Storage Unit CFS	Average Volume 1000 ft3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft3	Max Pcnt Full	Time days
DRB1 03:40	0.00	233.400	9	0	0	253.627	10	0
DRB3 01:31	22.40	8.142	26	0	0	31.178	100	0
DRB4 02:25	645.53	1.842	9	0	0	6.212	31	0
DRB5 00:38	0.00	5.618	98	0	0	5.751	100	0
DRB6 02:02	81.08	9.457	56	0	0	16.927	100	0
DRB7 00:55	104.84	0.045	0	0	0	0.240	0	0
DRB2 01:01	4.86	17.965	57	0	0	31.710	100	0
DRB8 01:45	121.19	2.899	16	0	0	18.225	100	0
DRB9 00:37	6.18	8.594	66	0	0	12.988	100	0
DRB10 00:51	300.89	351.365	77	0	0	453.707	100	0
DRB11 02:00	495.04	347.582	62	0	0	559.682	100	0
DRB12 02:24	0.00	1207.339	83	0	0	1454.160	100	0
DRB13 03:23	1.39	56.901	15	0	0	71.092	19	0
DRB14 01:20	89.26	153.591	41	0	0	378.595	100	0
DRB15 00:38	11.00	20.335	44	0	0	45.750	100	0
DRB16 00:28	11.01	7.483	83	0	0	9.056	100	0
DRB17 01:12	0.00	1834.793	94	0	0	1961.406	100	0
DRB18 00:38	44.47	3.786	48	0	0	7.885	100	0

		DRB Ponding Areas						
DRB19		1592.851	85	0	0	1880.000	100	0
02:48	0.00							
DRB21		280.673	96	0	0	291.770	100	0
00:53	0.00							
DRB22		635.705	88	0	0	721.282	100	0
01:33	367.04							
DRB23		3.247	16	0	0	15.979	80	0
00:59	6.96							

 Outfall Loading Summary

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
DRB3_0	77.15	11.61	22.40	1.972
DRB4_0	87.08	242.31	645.53	45.982
DRB6-0	95.69	54.26	81.08	10.901
DRB7-0	58.60	28.96	104.84	4.029
DRB2-0	98.17	3.49	4.86	0.731
DRB8-0	73.48	40.46	121.19	6.485
DRB9-0	94.94	4.52	6.18	0.914
DRB10-0	99.81	239.50	300.89	54.393
DRB11-0	99.24	353.62	495.04	80.728
DRB13-0	97.99	1.10	1.39	0.270
DRB14-0	99.22	46.35	89.26	9.848
DRB15-0	98.81	5.65	11.00	1.209
DRB16-0	99.29	9.30	11.01	2.177
DRB18-0	87.27	28.96	44.47	5.430
DRB22(1)-0	99.53	172.12	183.52	44.711
DRB22(2)-0	99.53	172.12	183.52	44.711
DRB23-0	99.10	1.09	6.96	0.261
System	92.05	1415.42	2211.58	314.754

 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
DRB3	CONDUIT	22.40	0 01:34	12.68	1.96	1.00
DRB4	CONDUIT	645.53	0 02:25	26.30	1.18	1.00
DRB6	CONDUIT	81.08	0 02:04	11.61	1.51	0.96
DRB7	CONDUIT	104.84	0 00:55	9.68	0.57	0.54
DRB2	CONDUIT	4.86	0 01:35	6.29	1.13	0.95
DRB8	CONDUIT	121.19	0 01:56	10.43	0.74	0.64
DRB9	CONDUIT	6.18	0 01:57	4.80	1.62	0.87
DRB10	CONDUIT	300.89	0 06:02	12.73	1.83	0.99
DRB11	CONDUIT	495.04	0 06:17	20.94	2.00	1.00
DRB13	CONDUIT	1.39	0 03:23	2.94	0.71	0.58
DRB14	CONDUIT	89.26	0 01:35	12.73	1.38	0.97
DRB15	CONDUIT	11.00	0 01:35	6.45	1.18	0.92
DRB16	CONDUIT	11.01	0 00:30	7.14	1.17	0.95
DRB18	CONDUIT	44.47	0 01:35	10.55	1.20	0.97

		DRB Ponding Areas					
DRB22(1)	CONDUIT	183.52	0	06:11	14.73	1.46	0.97
DRB22(2)	CONDUIT	183.52	0	06:11	14.73	1.46	0.97
DRB23	CONDUIT	6.96	0	00:59	4.39	1.19	0.84

Flow Classification Summary

Inlet Conduit Ctrl	Adjusted /Actual Length	----- Fraction of Time in Flow Class							
		Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd
-									
DRB3	1.00	0.01	0.00	0.00	0.60	0.39	0.00	0.00	0.18
DRB4	1.00	0.00	0.00	0.00	0.12	0.88	0.00	0.00	0.46
DRB6	1.00	0.01	0.00	0.00	0.62	0.37	0.00	0.00	0.21
DRB7	1.00	0.01	0.00	0.00	0.45	0.54	0.00	0.00	0.22
DRB2	1.00	0.01	0.00	0.00	0.66	0.33	0.00	0.00	0.12
DRB8	1.00	0.01	0.00	0.00	0.29	0.70	0.00	0.00	0.26
DRB9	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00
DRB10	1.00	0.00	0.00	0.00	0.13	0.87	0.00	0.00	0.10
DRB11	1.00	0.01	0.00	0.00	0.01	0.99	0.00	0.00	0.24
DRB13	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00
DRB14	1.00	0.00	0.00	0.00	0.51	0.48	0.00	0.00	0.11
DRB15	1.00	0.01	0.00	0.00	0.46	0.53	0.00	0.00	0.17
DRB16	1.00	0.00	0.00	0.00	0.83	0.17	0.00	0.00	0.09
DRB18	1.00	0.01	0.00	0.00	0.55	0.44	0.00	0.00	0.19
DRB22(1)	1.00	0.00	0.00	0.00	0.91	0.09	0.00	0.00	0.02
DRB22(2)	1.00	0.00	0.00	0.00	0.91	0.09	0.00	0.00	0.02
DRB23	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00

Conduit Surcharge Summary

Conduit	DRB Ponding Areas			Above Full Normal Flow	Capacity Limited
	----- Both Ends	Hours Full Upstream	----- Dnstream		
DRB3	3.01	3.14	3.01	3.15	3.01
DRB4	0.01	0.33	0.01	0.94	0.01
DRB6	0.01	4.35	0.01	4.37	0.01
DRB2	0.01	5.06	0.01	5.27	0.01
DRB9	0.01	5.22	0.01	5.39	0.01
DRB10	0.01	6.49	0.01	6.71	0.01
DRB11	0.01	6.17	0.01	6.28	0.01
DRB14	0.01	3.94	0.01	4.09	0.01
DRB15	0.01	3.35	0.01	3.61	0.01
DRB16	0.01	7.12	0.01	7.19	0.01
DRB18	0.01	3.73	0.01	3.86	0.01
DRB22(1)	0.01	8.73	0.01	8.79	0.01
DRB22(2)	0.01	8.73	0.01	8.79	0.01
DRB23	0.01	0.45	0.01	0.74	0.01

Analysis begun on: Tue Nov 13 14:07:39 2018
 Analysis ended on: Tue Nov 13 14:07:40 2018
 Total elapsed time: 00:00:01

LAKE THOMAS BASIN CALCULATIONS



JVA Incorporated
 213 Linden Street Suite 200
 Fort Collins, CO 80524
 Ph: (970) 225 9099

Job Name: Town of Mead - Drainage Master Plan Update
 Job Number: 1970.76c
 Date: 11/13/18
 By: LAT

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_a = 0.84i^{1.302}$	$C_a = 0.86i^{1.276}$	$C_a = 0.87i^{1.232}$	$C_a = 0.84i^{1.224}$	$C_a = 0.85i+0.025$	$C_a = 0.78i+0.110$	$C_a = 0.65i+0.254$
B	$C_b = 0.84i^{1.189}$	$C_b = 0.86i^{1.088}$	$C_b = 0.81i+0.057$	$C_b = 0.63i+0.249$	$C_b = 0.56i+0.328$	$C_b = 0.47i+0.426$	$C_b = 0.37i+0.536$
C/D	$C_{c/d} = 0.83i^{1.222}$	$C_{c/d} = 0.82i+0.035$	$C_{c/d} = 0.74i+0.132$	$C_{c/d} = 0.56i+0.319$	$C_{c/d} = 0.49i+0.393$	$C_{c/d} = 0.41i+0.484$	$C_{c/d} = 0.32i+0.588$

Town of Mead - Drainage Master Plan Update
Composite Runoff Coefficient Calculations Lake Thomas Basin

Location: Mead

Minor Design Storm:	10
Major Design Storm:	100
Soil Type:	C/D

Basin Design Data																				Runoff Coeff's					
Basin Name	Design Point	100%	90%	40%	90%	95%	85%	90%	50%	55%	50%	45%	30%	20%	10%	2%	2%	100%	I (%)	Runoff Coeff's					
		A _{Paved} (sf)	A _{Drive/Walks Concrete} (sf)	A _{Gravel} (sf)	A _{Roof} (sf)	A _{Business Commercial} (sf)	A _{Business Neighborhood} (sf)	A _{Industrial Heavy} (sf)	A _{Railroad yard} (sf)	A _{School} (sf)	A _{Ag Bldg/Residential} (sf)	A _{Single family (<.25 acre lot only)} (sf)	A _{Single family (.25-.75 acre lot only)} (sf)	A _{Single family (>.75 acre lot only)} (sf)	A _{Parks/Cemetary} (sf)	A _{Lawns} (sf)	A _{Ag/Green Belt} (sf)	A _{WATER} (sf)	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	C2	C5	C10	C100
LTB1	133	617,410	368,007	531,577				159,373			232,084						10,157,015		12,065,466	276.98	13.5%	0.09	0.15	0.23	0.54
LTB2	134			265,634							236,744						8,128,436	217,432	8,848,246	203.13	6.8%	0.04	0.09	0.18	0.51
LTB3	135	15,063		77,676							265,146						1,741,680		2,099,565	48.20	10.2%	0.06	0.12	0.21	0.53
LTB4	136	18,104		63,261							8,611						950,020		1,039,996	23.88	6.4%	0.04	0.09	0.18	0.51
LTB5	137	63,099		435,008							26,048						5,124,234		5,648,389	129.67	6.2%	0.04	0.09	0.18	0.51
LTB6	138	13,898		338,760							289,520						3,883,269	691,714	5,217,161	119.77	20.4%	0.14	0.20	0.28	0.57
LTB7	139	98,249		214,162				1,029,638									711,677		2,053,726	47.15	54.8%	0.42	0.48	0.54	0.71
LTB8	140	260,435		97,630				3,315,007			148,661						1,928,564		5,750,297	132.01	59.1%	0.46	0.52	0.57	0.73
LTB9	141	461,952		198,643				613,444			184,165						2,625,654	78,735	4,162,593	95.56	31.6%	0.23	0.29	0.37	0.61
LTB10	142	69,353		17,450													2,045,728		2,132,531	48.96	5.5%	0.03	0.08	0.17	0.51
LTB11	143	20,854		157,600													3,783,499		3,961,953	90.95	4.0%	0.02	0.07	0.16	0.50
LTB12	144	4,794		60,342							116,524						1,500,758		1,682,418	38.62	7.0%	0.04	0.09	0.18	0.51
LTB13	145	2,729		20,453							70,038						863,933		957,153	21.97	6.6%	0.04	0.09	0.18	0.51
LTB14	146	5,849		125,587													1,780,542		1,911,978	43.89	4.8%	0.03	0.07	0.17	0.50
LTB15	147	14,960		75,950							8,202						1,364,439		1,463,551	33.60	5.2%	0.03	0.08	0.17	0.51
LTB16	148	5,118		25,453							16,783						740,591		787,945	18.09	4.9%	0.03	0.08	0.17	0.50
LTB17	149	567,278		780,990				123,065			2,517,053						28,717,677	7,504,496	40,210,559	923.11	25.7%	0.18	0.25	0.32	0.59
TOTAL SITE		2,239,145	368,007	3,486,176	0	0	123,065	5,117,462	0	0	4,119,579	0	0	0	0	0	76,047,716	8,492,377	99,993,527	2295.54	20.7%	0.14	0.21	0.29	0.57

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
LTB1	133	100yr	0.432789	1.002083333	1.3026515	0.016429195	13.45878477	0.4	0.1	3	0.0018	0.5	0
LTB2	134	100yr	0.3173872	0.42594697	1.1371212	0.01511992	6.833290123	0.4	0.1	3	0.0018	0.5	0
LTB3	135	100yr	0.0753115	0.258333333	0.519697	0.015969388	10.17067821	0.4	0.1	3	0.0018	0.5	0
LTB4	136	100yr	0.0373047	0.402272727	0.6787879	0.010611049	6.414861211	0.4	0.1	3	0.0018	0.5	0
LTB5	137	100yr	0.2026081	0.498106061	0.8804924	0.010326952	6.242680524	0.4	0.1	3	0.0018	0.5	0
LTB6	138	100yr	0.1871399	0.127083333	0.4886364	0.019593023	20.38544296	0.4	0.1	3	0.0018	0.5	0
LTB7	139	100yr	0.0736673	0.240909091	0.4282197	0.019579832	54.76979597	0.35	0.1	3	0.0018	0.5	0
LTB8	140	100yr	0.2062635	0.267234848	0.8640152	0.015718983	59.0559945	0.35	0.1	3	0.0018	0.5	0
LTB9	141	100yr	0.1493125	0.302083333	0.5964015	0.014309305	31.6350741	0.35	0.1	3	0.0018	0.5	0
LTB10	142	100yr	0.076494	0.290719697	0.555303	0.025729877	5.498047156	0.4	0.1	3	0.0018	0.5	0
LTB11	143	100yr	0.1421155	0.360984848	0.8244318	0.021295658	4.02740719	0.4	0.1	3	0.0018	0.5	0
LTB12	144	100yr	0.0603484	0.334469697	0.6810606	0.01807564	6.966637304	0.4	0.1	3	0.0018	0.5	0
LTB13	145	100yr	0.0343331	0.212878788	0.4130682	0.019624026	6.603736289	0.4	0.1	3	0.0018	0.5	0
LTB14	146	100yr	0.0685828	0.211742424	0.5185606	0.015891161	4.795799952	0.4	0.1	3	0.0018	0.5	0
LTB15	147	100yr	0.0524977	0.174810606	0.3765152	0.019652918	5.2427131	0.4	0.1	3	0.0018	0.5	0
LTB16	148	100yr	0.0282636	0.11969697	0.2780303	0.020851499	4.886447658	0.4	0.1	3	0.0018	0.5	0
LTB17	149	100yr	1.4423553	0.678219697	2.0441288	0.01435066	25.66901716	0.4	0.1	3	0.0018	0.5	0

LAKE THOMAS BASIN

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in./hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
LTB1	133	100YR	0.433	1.002	1.303	0.016	13.5	0.40	0.10	3.00	0.50	0.0018	0.00	0.27	0.11	12.52
LTB2	134	100YR	0.317	0.426	1.137	0.015	6.8	0.40	0.10	3.00	0.50	0.0018	0.00	0.14	0.07	6.24
LTB3	135	100YR	0.075	0.258	0.520	0.016	10.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.20	0.10	9.35
LTB4	136	100YR	0.037	0.402	0.679	0.011	6.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.13	0.06	5.86
LTB5	137	100YR	0.203	0.498	0.880	0.010	6.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.70
LTB6	138	100YR	0.187	0.127	0.489	0.020	20.4	0.40	0.10	3.00	0.50	0.0018	0.00	0.41	0.13	19.28
LTB7	139	100YR	0.074	0.241	0.428	0.020	54.8	0.35	0.10	3.00	0.50	0.0018	0.00	0.87	0.25	53.97
LTB8	140	100YR	0.206	0.267	0.864	0.016	59.1	0.35	0.10	3.00	0.50	0.0018	0.00	0.90	0.27	58.32
LTB9	141	100YR	0.149	0.302	0.596	0.014	31.6	0.35	0.10	3.00	0.50	0.0018	0.00	0.63	0.17	30.49
LTB10	142	100YR	0.076	0.291	0.555	0.026	5.5	0.40	0.10	3.00	0.50	0.0018	0.00	0.11	0.05	5.01
LTB11	143	100YR	0.142	0.361	0.824	0.021	4.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.08	0.04	3.66
LTB12	144	100YR	0.060	0.334	0.681	0.018	7.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.14	0.07	6.37
LTB13	145	100YR	0.034	0.213	0.413	0.020	6.6	0.40	0.10	3.00	0.50	0.0018	0.00	0.13	0.07	6.03
LTB14	146	100YR	0.069	0.212	0.519	0.016	4.8	0.40	0.10	3.00	0.50	0.0018	0.00	0.10	0.05	4.37
LTB15	147	100YR	0.052	0.175	0.377	0.020	5.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.10	0.05	4.78
LTB16	148	100YR	0.028	0.120	0.278	0.021	4.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.10	0.05	4.45
LTB17	149	100YR	1.442	0.678	2.044	0.014	25.7	0.40	0.10	3.00	0.50	0.0018	0.00	0.51	0.15	24.51

LAKE THOMAS BASIN

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
LTB1		0.122	0.226	76.7	14.83	39.9	10.48	24.7	169	1,005,456	1.88	1,894,331	70.0	274	1,893,779	0.99
LTB2		0.140	0.230	55.0	11.22	28.6	7.93	18.7	173	737,354	1.81	1,331,119	55.0	250	1,330,629	1.23
LTB3		0.128	0.123	50.5	6.26	26.3	4.42	10.4	45	174,964	1.84	322,657	50.0	63	322,705	1.30
LTB4		0.141	0.097	109.0	9.62	56.7	6.80	16.0	10	86,666	1.80	156,035	70.0	17	156,005	0.71
LTB5		0.142	0.204	65.8	11.80	34.2	8.34	19.7	92	470,699	1.80	846,516	60.0	139	846,334	1.07
LTB6		0.111	0.172	20.6	4.21	10.7	2.98	7.0	273	434,763	1.97	855,800	40.0	302	850,315	2.52
LTB7		0.086	0.174	20.1	4.19	10.4	2.96	7.0	110	171,144	2.41	413,216	35.0	137	410,480	2.91
LTB8		0.085	0.279	19.0	5.58	9.9	3.94	9.3	325	479,191	2.47	1,181,412	40.0	408	1,175,765	3.09
LTB9		0.099	0.175	32.3	5.84	16.8	4.13	9.7	139	346,883	2.14	742,358	45.0	191	741,936	2.00
LTB10		0.144	0.137	49.7	6.71	25.8	4.75	11.2	46	177,711	1.79	318,068	50.0	64	318,167	1.30
LTB11		0.149	0.186	52.9	9.07	27.5	6.41	15.1	81	330,163	1.77	585,318	55.0	113	585,047	1.24
LTB12		0.139	0.119	70.7	7.96	36.8	5.63	13.3	26	140,202	1.81	253,318	60.0	38	253,184	1.00
LTB13		0.141	0.093	56.6	5.55	29.4	3.92	9.2	18	79,763	1.80	143,781	50.0	26	143,631	1.17
LTB14		0.147	0.132	48.8	6.45	25.4	4.56	10.7	42	159,332	1.78	283,879	50.0	58	283,980	1.31
LTB15		0.145	0.116	40.8	5.14	21.2	3.63	8.6	39	121,963	1.79	217,929	45.0	50	217,494	1.48
LTB16		0.146	0.088	38.4	4.11	20.0	2.90	6.8	22	65,662	1.78	117,058	45.0	28	116,753	1.54
LTB17		0.105	0.312	51.1	13.74	26.6	9.71	22.9	846	3,350,880	2.03	6,811,643	55.0	1,316	6,805,237	1.43

LTB ROUTING CALCULATIONS

LAKE THOMAS BASIN

END Basin LTB1

End Node	Upstream Nodes
LTB1	NCB14/29
LTB1	NCB29
LTB1	NI25B4

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTB1	70	0
NCB14	60	70
NCB29	55	70
NI25B4	65	70

END Basin LTB7

End Node	Upstream Nodes
LTB7	MLB7

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTB7	35	0
MLB7	70	35

END Basin LTB9

End Node	Upstream Nodes
LTB9	LTB7, MLB7
LTB9	LTB8
LTB9	MLB5

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTB9	45	0
LTB8	40	45
LTB7	35	45
MLB7	70	80
MLB5	55	45

END Basin LTB17

End Node	Upstream Nodes
LTB17	LTB1, NCB14
LTB17	LTB1, NCB29
LTB17	LTB1, NI25B4
LTB17	LTB2
LTB17	LTB3
LTB17	LTB4
LTB17	LTB5
LTB17	LTB6
LTB17	LTB9, LTB7, MLB7
LTB17	LTB9, LTB8
LTB17	LTB9, MLB5
LTB17	LTB10
LTB17	LTB11
LTB17	LTB12
LTB17	LTB13
LTB17	LTB14
LTB17	LTB15
LTB17	LTB16
LTB17	MLB8

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
LTB17	55	0
LTB16	45	55
LTB15	45	55
LTB14	50	55
LTB13	50	55
LTB12	60	55
LTB11	55	55
LTB10	50	55
LTB9	45	55
LTB8	40	100
LTB7	35	100
LTB5	60	55
LTB4	70	55
LTB3	50	55
LTB1	70	55
MLB7	70	135
MLB5	55	100
NCB14	60	125
NCB29	55	125
NI25B4	65	125
LTB2	55	55
LTB6	40	55

Item	Unit	Value	Unit	Value	Unit	Value	Unit	Value	Unit	Value
0	0.00									0.00
5	0.01									0.01
10	0.17									0.17
15	1.03									1.01
20	7.53									7.22
25	36.80									36.80
30	91.40									91.40
35	151.10									151.10
40	200.74									200.74
45	234.53									234.55
50	255.01									255.01
55	267.49									267.49
60	273.68									273.68
65	274.06									274.05
70	262.24	0.00	0.00	0.00	0.00					262.24
75	256.68	0.00	0.00	0.00	0.00					256.68
80	245.22	0.00	0.00	0.00	0.06					245.28
85	233.28	0.01	0.02	0.35	0.95					233.66
90	220.98	0.12	0.25	3.51	234.86					224.86
95	208.69	2.39	6.34	16.64	236.47					236.47
100	196.28	21.11	35.56	65.25	299.40					299.40
105	184.35	54.08	85.79	69.75	393.97					393.97
110	174.63	95.12	129.32	61.60	476.12					476.12
115	165.24	106.99	155.63	93.43	521.28					521.28
120	157.05	119.50	169.78	88.55	544.88					544.88
125	149.14	126.18	175.46	101.13	552.09					552.09
130	141.36	129.22	174.45	101.88	546.92					546.92
135	133.70	129.80	170.29	100.33	538.12					538.12
140	126.18	125.61	171.27	96.64	519.69					519.69
145	118.85	121.61	175.58	92.49	508.54					508.54
150	111.62	120.01	210.02	87.97	532.61					532.61
155	104.43	118.49	354.36	83.23	680.52					680.52
160	97.28	220.50	470.09	78.48	867.10					867.10
165	90.17	322.90	518.68	73.70	1004.85					1004.85
170	83.17	386.42	525.79	69.09	1064.48					1064.48
175	76.68	413.36	523.15	65.64	1077.15					1077.15
180	71.25	417.03	508.71	61.73	1059.22					1059.22
185	67.65	403.95	521.92	58.58	1054.10					1054.10
190	64.60	388.07	506.70	55.56	1044.33					1044.33
195	60.69	374.70	500.38	52.57	1078.34					1078.34
200	57.68	358.08	481.77	49.62	1048.01					1048.01
205	54.76	335.84	471.88	46.71	1079.21					1079.21
210	52.07	407.55	462.97	43.91	1166.50					1166.50
215	49.56	458.84	466.70	41.22	1236.22					1236.22
220	47.09	476.92	695.24	38.36	1257.61					1257.61
225	44.67	472.25	693.82	35.60	1244.34					1244.34
230	42.26	456.02	669.65	32.85	1200.78					1200.78
235	39.85	432.30	647.40	30.21	1149.76					1149.76
240	37.46	407.86	623.54	27.66	1095.34					1095.34
245	35.07	386.84	596.95	25.23	1044.79					1044.79
250	32.69	373.82	578.36	24.74	1009.60					1009.60
255	30.32	422.52	600.22	23.98	1076.45					1076.45
260	27.86	558.57	732.70	22.16	1361.39					1361.39
265	25.40	799.51	943.17	21.02	1707.30					1707.30
270	23.26	916.81	998.15	19.95	1958.16					1958.16
275	20.91	1088.96	1007.04	18.95	2128.87					2128.87
280	18.57	1211.56	973.48	17.99	2239.56					2239.56
285	16.22	1305.07	928.46	17.05	2262.80					2262.80
290	13.88	1322.22	876.60	16.12	2234.81					2234.81
295	11.51	1312.22	827.03	15.19	2165.97					2165.97
300	9.19	1278.80	772.56	14.27	2074.82					2074.82
305	6.87	1225.75	713.43	13.35	1994.40					1994.40
310	4.74	1157.41	664.54	12.42	1899.11					1899.11
315	3.33	1080.28	670.97	11.51	1796.09					1796.09
320	2.40	1005.41	713.08	10.59	1719.50					1719.50
325	1.72	941.31	734.93	9.68	1687.63					1687.63
330	1.21	895.45	730.09	8.77	1665.51					1665.51
335	0.84	869.65	709.28	7.86	1646.62					1646.62
340	0.59	868.67	672.99	6.95	1579.16					1579.16
345	0.38	869.17	634.54	6.04	1509.51					1509.51
350	0.27	824.02	597.69	5.13	1427.10					1427.10
355	0.20	770.70	557.72	4.22	1332.84					1332.84
360	0.16	716.42	525.13	3.31	1246.03					1246.03
365	0.11	666.10	565.55	2.42	1234.20					1234.20
370	0.09	625.15	679.53	1.63	1202.41					1202.41
375	0.07	601.67	791.89	1.14	1194.56					1194.56
380	0.05	616.84	874.34	0.81	1192.03					1192.03
385	0.03	603.24	914.46	0.57	1181.30					1181.30
390	0.01	567.44	923.56	0.39	1190.41					1190.41
395	0.01	525.18	904.26	0.26	1249.90					1249.90
400	0.00	482.15	871.71	0.16	1354.03					1354.03
405	0.00	443.56	839.60	0.10	1383.27					1383.27
410	0.00	411.38	800.99	0.07	1421.45					1421.45
415	0.00	395.63	758.31	0.05	1449.99					1449.99
420	0.00	415.07	702.86	0.04	1418.08					1418.08
425	0.00	426.26	664.00	0.03	1379.39					1379.39
430	0.00	411.84	626.05	0.03	1301.92					1301.92
435	0.00	385.85	560.27	0.02	946.13					946.13
440	0.00	354.49	518.05	0.01	872.55					872.55
445	0.00	321.70	477.48	0.01	799.19					799.19
450	0.00	289.14	436.20	0.00	727.60					727.60
455	0.00	259.29	400.01	0.00	669.30					669.30
460	0.00	228.02	363.31	0.00	591.33					591.33
465	0.00	199.98	328.62	0.00	528.65					528.65
470	0.00	174.94	299.76	0.00	474.70					474.70
475	0.00	151.77	274.60	0.00	426.36					426.36
480	0.00	130.89	251.05	0.00	381.93					381.93
485	0.00	112.80	234.77	0.00	347.57					347.57
490	0.00	97.36	218.55	0.00	316.41					316.41
495	0.00	84.32	203.76	0.00	288.67					288.67
500	0.00	73.32	190.13	0.00	263.44					263.44
505	0.00	62.60	177.48	0.00	240.10					240.10
510	0.00	52.59	165.37	0.00	217.96					217.96
515	0.00	48.36	154.71	0.00	197.07					197.07
520	0.00	35.47	145.25	0.00	177.72					177.72
525	0.00	28.52	130.80	0.00	159.41					159.41
530	0.00	22.16	119.60	0.00	141.76					141.76
535	0.00	16.62	108.34	0.00	124.96					124.96
540	0.00	11.90	97.11	0.00	109.01					109.01
545	0.00	8.13	85.93	0.00	94.06					94.06
550	0.00	5.67	74.86	0.00	80.53					80.53
555	0.00	4.01	64.67	0.00	68.67					68.67
560	0.00	2.80	55.25	0.00	60.05					60.05
565	0.00	1.92	45.35	0.00	53.27					53.27
570	0.00	1.30	46.49	0.00	47.79					47.79
575	0.00	0.86	42.86	0.00	43.72					43.72
580	0.00	0.57	40.01	0.00	40.58					40.58
585	0.00	0.41	37.47	0.00	38.07					38.07
590	0.00	0.29	35.78	0.00	36.07					36.07
595	0.00	0.21	34.30	0.00	34.51					34.51
600	0.00	0.14	32.97	0.00	33.11					33.11
605	0.00	0.10	31.79	0.00	31.88					31.88
610	0.00	0.07	30.68	0.00	30.75					30.75
615	0.00	0.04	29.60	0.00	29.64					29.64
620	0.00	0.02	28.54	0.00	28.56					28.56
625	0.00	0.01	27.49	0.00	27.50					27.50
630	0.00	0.00	26.44	0.00	26.45					26.45
635	0.00	0.00	25.41	0.00	25.41					25.41
640	0.00	0.00	24.39	0.00	24.39					24.39
645	0.00	0.00	23.37	0.00	23.37					23.37
650	0.00	0.00	22.36	0.00	22.36					22.36
655	0.00	0.00	21.36	0.00	21.36					21.36
660	0.00	0.00	20.36	0.00	20.36					20.36
665	0.00	0.00	19.36	0.00	19.36					19.36
670	0.00	0.00	18.35	0.00	18.35					18.35
675	0.00	0.00	17.35	0.00	17.35					17.35
680	0.00	0.00	16.35	0.00	16.35					16.35
685	0.00	0.00	15.35	0.00	15.35					15.35
690	0.00	0.00	14.35	0						

time in minutes	LTB77	MLB7	Total to LTB7	imax
0	0.00		0.00	209
5	0.50		0.50	
10	6.23		6.23	
15	16.80		16.80	
20	44.74		44.74	
25	107.19		107.19	
30	137.38		137.38	
35	136.34	0.00	136.34	
40	127.31	0.00	127.32	
45	116.11	0.05	116.16	
50	104.05	0.33	104.38	
55	92.82	3.33	96.15	
60	83.29	19.06	102.35	
65	71.75	47.55	119.30	
70	61.50	76.61	138.11	
75	51.26	98.83	150.08	
80	41.88	112.59	154.47	
85	33.75	121.00	154.75	
90	26.47	126.11	152.58	
95	20.46	128.97	149.43	
100	16.64	129.21	145.86	
105	14.23	126.35	140.59	
110	12.60	121.13	133.73	
115	11.41	116.39	127.80	
120	8.95	113.51	122.46	
125	6.60	119.75	126.35	
130	4.88	151.36	156.24	
135	3.66	185.20	188.86	
140	2.75	201.32	204.08	
145	2.06	206.50	208.55	
150	1.52	205.96	207.48	
155	1.14	200.57	201.72	
160	0.83	193.45	194.27	
165	0.56	186.99	187.55	
170	0.35	178.31	178.66	
175	0.18	167.73	167.91	
180	0.07	156.72	156.80	
185	0.01	146.25	146.26	
190	0.00	136.31	136.31	
195	0.00	126.85	126.85	
200	0.00	117.76	117.76	
205	0.00	108.89	108.89	
210	0.00	100.22	100.22	
215	0.00	91.80	91.80	
220	0.00	84.13	84.13	
225	0.00	77.38	77.38	
230	0.00	71.76	71.76	
235	0.00	66.85	66.85	
240	0.00	62.39	62.39	
245	0.00	58.29	58.29	
250	0.00	54.48	54.48	
255	0.00	50.93	50.93	
260	0.00	47.58	47.58	
265	0.00	44.39	44.39	
270	0.00	41.26	41.26	
275	0.00	38.18	38.18	
280	0.00	35.12	35.12	
285	0.00	32.07	32.07	
290	0.00	29.03	29.03	
295	0.00	26.01	26.01	
300	0.00	23.02	23.02	
305	0.00	20.06	20.06	
310	0.00	17.26	17.26	
315	0.00	14.89	14.89	
320	0.00	12.98	12.98	
325	0.00	11.33	11.33	
330	0.00	9.83	9.83	
335	0.00	8.44	8.44	
340	0.00	7.14	7.14	
345	0.00	5.90	5.90	
350	0.00	4.75	4.75	
355	0.00	3.64	3.64	
360	0.00	2.60	2.60	
365	0.00	1.80	1.80	
370	0.00	1.28	1.28	
375	0.00	0.91	0.91	
380	0.00	0.63	0.63	
385	0.00	0.43	0.43	
390	0.00	0.27	0.27	
395	0.00	0.16	0.16	
400	0.00	0.10	0.10	
405	0.00	0.07	0.07	
410	0.00	0.06	0.06	
415	0.00	0.04	0.04	
420	0.00	0.03	0.03	
425	0.00	0.02	0.02	
430	0.00	0.02	0.02	
435	0.00	0.01	0.01	
440	0.00	0.01	0.01	
445	0.00	0.00	0.00	

Time in minutes	LT89	LT88	LT87	ML87	ML85	Point to LT89	Index
0	0.00					0.00	
5	0.20					0.20	
10	2.57					2.57	
15	9.30					9.30	
20	34.72					34.72	
25	105.50					105.50	
30	164.48					164.48	
35	188.42					188.42	
40	191.44					191.44	
45	184.81	0.00	0.00		0.00	184.81	
50	174.85	1.29	0.50		0.05	176.68	
55	164.24	16.54	6.23		0.70	187.80	
60	156.01	49.23	16.80		3.46	224.50	
65	144.12	122.99	44.74		16.01	327.85	
70	130.14	288.80	107.19		57.31	583.44	
75	114.79	401.00	137.38		113.87	767.04	
80	99.47	407.78	136.34	0.00	157.04	800.83	
85	85.89	378.08	127.31	0.00	180.86	772.07	
90	75.82	341.46	116.11	0.05	193.48	726.91	
95	67.85	303.40	104.05	0.33	198.24	673.86	
100	60.88	267.14	92.82	3.33	196.93	621.10	
105	54.61	238.07	83.29	19.06	192.55	587.57	
110	48.81	207.10	71.75	47.55	187.83	563.05	
115	43.33	175.27	61.50	76.61	182.10	538.82	
120	37.34	144.09	51.26	98.83	180.92	512.43	
125	31.26	114.93	41.88	112.59	186.08	496.62	
130	25.33	89.72	33.75	121.00	211.36	481.16	
135	19.72	68.69	26.47	126.11	215.64	456.62	
140	14.61	54.26	20.46	128.97	213.78	432.08	
145	10.65	45.63	16.64	129.21	208.53	410.67	
150	8.00	39.78	14.23	126.35	202.23	388.59	
155	6.05	35.74	12.60	121.13	190.83	366.34	
160	4.54	32.81	11.41	116.39	182.11	347.26	
165	3.38	26.62	8.95	113.51	171.95	324.41	
170	2.48	19.47	6.60	119.75	164.75	311.05	
175	1.82	14.34	4.88	151.36	176.84	309.24	
180	1.40	10.65	3.66	185.20	197.21	308.12	
185	1.11	7.92	2.75	201.32	207.74	420.85	
190	0.88	5.79	2.06	206.50	209.77	425.00	
195	0.70	4.19	1.52	205.96	207.19	419.56	
200	0.53	3.07	1.14	200.57	200.78	406.10	
205	0.39	2.11	0.83	193.45	191.76	388.54	
210	0.27	1.34	0.56	186.99	182.90	372.06	
215	0.17	0.74	0.35	178.31	173.19	352.76	
220	0.10	0.32	0.18	167.71	162.26	330.58	
225	0.04	0.07	0.07	156.72	152.68	309.59	
230	0.01	0.00	0.01	146.25	149.10	295.37	
235	0.00	0.00	0.00	136.31	150.21	286.52	
240	0.00	0.00	0.00	126.85	149.90	276.75	
245	0.00	0.00	0.00	117.76	146.42	264.18	
250	0.00	0.00	0.00	108.89	141.27	250.16	
255	0.00	0.00	0.00	100.22	135.23	235.45	
260	0.00	0.00	0.00	91.80	128.65	220.45	
265	0.00	0.00	0.00	84.13	121.82	205.95	
270	0.00	0.00	0.00	77.38	114.33	191.72	
275	0.00	0.00	0.00	71.76	105.97	177.73	
280	0.00	0.00	0.00	66.85	97.28	164.13	
285	0.00	0.00	0.00	62.39	89.18	151.57	
290	0.00	0.00	0.00	58.29	82.09	140.38	
295	0.00	0.00	0.00	54.48	76.02	130.50	
300	0.00	0.00	0.00	50.93	70.54	121.47	
305	0.00	0.00	0.00	47.58	65.45	113.03	
310	0.00	0.00	0.00	44.39	60.67	105.05	
315	0.00	0.00	0.00	41.26	56.26	97.52	
320	0.00	0.00	0.00	38.18	52.41	90.59	
325	0.00	0.00	0.00	35.12	48.95	84.06	
330	0.00	0.00	0.00	32.07	45.75	77.82	
335	0.00	0.00	0.00	29.03	42.82	71.85	
340	0.00	0.00	0.00	26.01	40.07	66.08	
345	0.00	0.00	0.00	23.02	37.43	60.44	
350	0.00	0.00	0.00	20.06	34.88	54.94	
355	0.00	0.00	0.00	17.26	32.42	49.68	
360	0.00	0.00	0.00	14.89	30.02	44.90	
365	0.00	0.00	0.00	12.98	27.66	40.65	
370	0.00	0.00	0.00	11.33	25.35	36.68	
375	0.00	0.00	0.00	9.83	23.14	32.97	
380	0.00	0.00	0.00	8.44	21.28	29.72	
385	0.00	0.00	0.00	7.14	19.75	26.89	
390	0.00	0.00	0.00	5.90	18.40	24.30	
395	0.00	0.00	0.00	4.75	17.15	21.91	
400	0.00	0.00	0.00	3.64	16.01	19.65	
405	0.00	0.00	0.00	2.60	14.92	17.53	
410	0.00	0.00	0.00	1.80	13.90	15.71	
415	0.00	0.00	0.00	1.28	12.99	14.27	
420	0.00	0.00	0.00	0.91	12.28	13.18	
425	0.00	0.00	0.00	0.63	11.68	12.31	
430	0.00	0.00	0.00	0.43	11.17	11.60	
435	0.00	0.00	0.00	0.27	10.71	10.99	
440	0.00	0.00	0.00	0.16	10.29	10.46	
445	0.00	0.00	0.00	0.10	9.89	10.00	
450	0.00	0.00	0.00	0.07	9.52	9.60	
455	0.00	0.00	0.00	0.06	9.17	9.23	
460	0.00	0.00	0.00	0.04	8.84	8.88	
465	0.00	0.00	0.00	0.03	8.51	8.55	
470	0.00	0.00	0.00	0.02	8.19	8.22	
475	0.00	0.00	0.00	0.02	7.87	7.89	
480	0.00	0.00	0.00	0.01	7.56	7.57	
485	0.00	0.00	0.00	0.01	7.24	7.25	
490	0.00	0.00	0.00	0.00	6.93	6.93	
495	0.00	0.00	0.00		6.61	6.61	
500					6.30	6.30	
505					6.00	6.00	
510					5.69	5.69	
515					5.38	5.38	
520					5.08	5.08	
525					4.77	4.77	
530					4.46	4.46	
535					4.16	4.16	
540					3.85	3.85	
545					3.55	3.55	
550					3.24	3.24	
555					2.93	2.93	
560					2.63	2.63	
565					2.32	2.32	
570					2.01	2.01	
575					1.71	1.71	
580					1.40	1.40	
585					1.10	1.10	
590					0.82	0.82	
595					0.61	0.61	
600					0.47	0.47	
605					0.37	0.37	
610					0.29	0.29	
615					0.22	0.22	
620					0.17	0.17	
625					0.14	0.14	
630					0.11	0.11	
635					0.09	0.09	
640					0.07	0.07	
645					0.06	0.06	
650					0.04	0.04	
655					0.03	0.03	
660					0.02	0.02	
665					0.02	0.02	
670					0.01	0.01	
675					0.01	0.01	
680					0.00	0.00	

LTB SWMM INPUT

LTB Ponding Areas

[TITLE]

;;Project Title/Notes

[OPTIONS]

```

;;Option      value
FLOW_UNITS    CFS
INFILTRATION  HORTON
FLOW_ROUTING  DYNWAVE
LINK_OFFSETS  DEPTH
MIN_SLOPE     0
ALLOW_PONDING YES
SKIP_STEADY_STATE NO

START_DATE    05/10/2018
START_TIME    00:00:00
REPORT_START_DATE 05/10/2018
REPORT_START_TIME 00:00:00
END_DATE      05/10/2018
END_TIME      23:00:00
SWEEP_START   01/01
SWEEP_END     12/31
DRY_DAYS      0
REPORT_STEP   00:00:05
WET_STEP      00:05:00
DRY_STEP      01:00:00
ROUTING_STEP  0:00:05
    
```

```

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP    0.75
LENGTHENING_STEP 0
MIN_SURFAREA     12.557
MAX_TRIALS       8
HEAD_TOLERANCE   0.005
SYS_FLOW_TOL     5
LAT_FLOW_TOL     5
MINIMUM_STEP     0.5
THREADS          1
    
```

[EVAPORATION]

```

;;Data Source Parameters
;;-----
CONSTANT      0.0
DRY_ONLY      NO
    
```

[OUTFALLS]

;;Name	Elevation	Type	Stage Data	Gated	Route To
LTB1-0	1.69	FREE		NO	
LTB3-0	7.6667	FREE		NO	
LTB4-0	12.58	FREE		NO	
LTB5-0	10.5	FREE		NO	
LTB7-0	4940.62	FREE		NO	
LTB8-0	4926.36	FREE		NO	
LTB9-0	11.83	FREE		NO	
LTB10-0	4904.52	FREE		NO	
LTB11-0	4897.73	FREE		NO	
LTB12-0	11	FREE		NO	
LTB13-0	4908.66	FREE		NO	
LTB14-0	4902.28	FREE		NO	
LTB15-0	4888.07	FREE		NO	
LTB16-0	4892.04	FREE		NO	

LTB Ponding Areas

[STORAGE]							
;;Name	Fevap	Elev. Psi	MaxDepth Ksat	InitDepth IMD	Shape	Curve Name/Params	
N/A							
;;							
LTB1 0	0	2.4	11	0	TABULAR	LTB1	
LTB2 0	0	4919	4	0	TABULAR	LTB2	
LTB3 0	0	8.08	5	0	TABULAR	LTB3	
LTB4 0	0	14	2	0	TABULAR	LTB4	
LTB5 0	0	11	4	0	TABULAR	LTB5	
LTB6 0	0	4922	3	0	TABULAR	LTB6	
LTB7 0	0	4941.1	3	0	TABULAR	LTB7	
LTB8 0	0	4928.33	4	0	TABULAR	LTB8	
LTB9 0	0	15	5	0	TABULAR	LTB9	
LTB10 0	0	4906.24	6	0	TABULAR	LTB10	
LTB11 0	0	4900.15	5	0	TABULAR	LTB11	
LTB12 0	0	11.33	3	0	TABULAR	LTB12	
LTB13 0	0	4909.07	4	0	TABULAR	LTB13	
LTB14 0	0	4904.59	6	0	TABULAR	LTB14	
LTB15 0	0	4889.23	5	0	TABULAR	LTB15	
LTB16 0	0	4893.70	7	0	TABULAR	LTB16	
LTB17 0	0	4879	14	0	TABULAR	LTB17	

[CONDUITS]							
;;Name	OutOffset	InitFlow	From Node MaxFlow	To Node	Length	Roughness	InOffset
;;							
LTB1 0	0		LTB1 0	LTB1-0	75	.024	0
LTB3 0	0		LTB3 0	LTB3-0	75	.024	0
LTB4 0	0		LTB4 0	LTB4-0	50	.024	0
LTB5 0	0		LTB5 0	LTB5-0	75	.024	0
LTB7 0	0		LTB7 0	LTB7-0	50	.024	0
LTB8 0	0		LTB8 0	LTB8-0	45	.024	0
LTB9 0	0		LTB9 0	LTB9-0	75	.024	0
LTB10 0	0		LTB10 0	LTB10-0	75	.024	0
LTB11			LTB11	LTB11-0	75	.024	0

LTB Ponding Areas

0	0	0				
LTB12		LTB12	LTB12-0	75	.024	0
0	0	0				
LTB13		LTB13	LTB13-0	75	.024	0
0	0	0				
LTB14		LTB14	LTB14-0	75	.024	0
0	0	0				
LTB15		LTB15	LTB15-0	75	.024	0
0	0	0				
LTB16		LTB16	LTB16-0	75	.024	0
0	0	0				

[XSECTIONS]

;;Link Barrels	Culvert	Shape	Geom1	Geom2	Geom3	Geom4
LTB1		RECT_CLOSED	10.67	16	0	0
LTB3		CIRCULAR	1.41667	0	0	0
LTB4		CIRCULAR	1.25	0	0	0
LTB5		CIRCULAR	1.4167	0	0	0
LTB7		CIRCULAR	1	0	0	0
LTB8		CIRCULAR	1.33	0	0	0
LTB9		CIRCULAR	1.33	0	0	0
LTB10		HORIZ_ELLIPSE	2.5	3.167	0	0
LTB11		CIRCULAR	1.5	0	0	0
LTB12		CIRCULAR	1.167	0	0	0
LTB13		CIRCULAR	1.5	0	0	0
LTB14		CIRCULAR	1.5	0	0	0
LTB15		HORIZ_ELLIPSE	1.833	2.5	0	0
LTB16		CIRCULAR	1	0	0	0

[INFLOWS]

;;Node Baseline	Pattern	Constituent	Time Series	Type	Mfactor	Sfactor
LTB1		FLOW	LTB1*	FLOW	1.0	1.0
LTB2		FLOW	LTB2*	FLOW	1.0	1.0
LTB3		FLOW	LTB3	FLOW	1.0	1.0
LTB4		FLOW	LTB4	FLOW	1.0	1.0
LTB5		FLOW	LTB5	FLOW	1.0	1.0
LTB6		FLOW	LTB6	FLOW	1.0	1.0

LTB Ponding Areas					
LTB7	FLOW	LTB7	FLOW	1.0	1.0
LTB8	FLOW	LTB8	FLOW	1.0	1.0
LTB9	FLOW	LTB9	FLOW	1.0	1.0
LTB10	FLOW	LTB10	FLOW	1.0	1.0
LTB11	FLOW	LTB11	FLOW	1.0	1.0
LTB12	FLOW	LTB12	FLOW	1.0	1.0
LTB13	FLOW	LTB13	FLOW	1.0	1.0
LTB14	FLOW	LTB14	FLOW	1.0	1.0
LTB15	FLOW	LTB15	FLOW	1.0	1.0
LTB16	FLOW	LTB16	FLOW	1.0	1.0
LTB17	FLOW	LTB17	FLOW	1.0	1.0

[CURVES]			
;;Name	Type	X-Value	Y-Value
LTB1	Storage	0	34
LTB1		2	336
LTB1		3	1161
LTB1		4	2955
LTB1		5	6102
LTB1		6	15873
LTB1		7	200000
LTB1		8	424967
LTB1		9	584386
LTB1		10	719635
LTB1		11	840177
LTB2	Storage	0	220840
LTB2		1	231287
LTB2		2	270840
LTB2		3	291430
LTB3	Storage	0	137
LTB3		1	2624
LTB3		2	52669
LTB3		3	75473
LTB3		4	100999
LTB4	Storage	0	58
LTB4		1	313
LTB5	Storage	0	202
LTB5		1	836
LTB5		2	2826
LTB5		3	47625
LTB6	Storage	0	852031
LTB6		1	964976
LTB6		2	1086852
LTB7	Storage	0	100
LTB7		1	201

		LTB Ponding Areas	
LTB7		2	1270
;			
LTB8	Storage	0	100
LTB8		1	200
LTB8		2	300
LTB8		3	433
;			
LTB9	Storage	0	150
LTB9		1	18720
LTB9		2	39408
LTB9		3	61424
LTB9		4	89632
;			
LTB10	Storage	0	150
LTB10		1	200
LTB10		2	250
LTB10		3	297
LTB10		4	10000
LTB10		5	14861
;			
LTB11	Storage	0	200
LTB11		1	500
LTB11		2	800
LTB11		3	1154
LTB11		4	8001
;			
LTB12	Storage	0	100
LTB12		1	150
LTB12		2	4241
;			
LTB13	Storage	0	200
LTB13		1	500
LTB13		2	1000
LTB13		3	1434
;			
LTB14	Storage	0	100
LTB14		1	125
LTB14		2	150
LTB14		3	200
LTB14		4	416
LTB14		5	2824
;			
LTB15	Storage	0	100
LTB15		1	200
LTB15		2	300
LTB15		3	475
LTB15		4	2306
;			
LTB16	Storage	0	150
LTB16		1	200
LTB16		2	250
LTB16		3	300
LTB16		4	387
LTB16		5	2122
LTB16		6	15319
;			
LTB17	Storage	0	7782893
LTB17		1	7895372
LTB17		2	8008669
LTB17		3	8122783
LTB17		4	8237715
LTB17		5	8353463
LTB17		6	8470090

LTB Ponding Areas

LTB17	7	8587632
LTB17	8	8706089
LTB17	9	8825464
LTB17	10	8945776
LTB17	11	9067061
LTB17	12	9189334
LTB17	13	9312578

[TIMESERIES]

;;Name	Date	Time	Value
;;-----	-----	-----	-----
LTB1	5/10/2018	0:00	0.00
LTB1	5/10/2018	0:05	0.01
LTB1	5/10/2018	0:10	0.17
LTB1	5/10/2018	0:15	1.01
LTB1	5/10/2018	0:20	7.22
LTB1	5/10/2018	0:25	36.80
LTB1	5/10/2018	0:30	91.40
LTB1	5/10/2018	0:35	151.10
LTB1	5/10/2018	0:40	200.74
LTB1	5/10/2018	0:45	234.55
LTB1	5/10/2018	0:50	255.01
LTB1	5/10/2018	0:55	267.19
LTB1	5/10/2018	1:00	273.68
LTB1	5/10/2018	1:05	274.05
LTB1	5/10/2018	1:10	267.74
LTB1	5/10/2018	1:15	256.68
LTB1	5/10/2018	1:20	245.22
LTB1	5/10/2018	1:25	233.28
LTB1	5/10/2018	1:30	220.98
LTB1	5/10/2018	1:35	208.59
LTB1	5/10/2018	1:40	196.28
LTB1	5/10/2018	1:45	184.35
LTB1	5/10/2018	1:50	174.02
LTB1	5/10/2018	1:55	165.24
LTB1	5/10/2018	2:00	157.05
LTB1	5/10/2018	2:05	149.14
LTB1	5/10/2018	2:10	141.36
LTB1	5/10/2018	2:15	133.70
LTB1	5/10/2018	2:20	126.18
LTB1	5/10/2018	2:25	118.85
LTB1	5/10/2018	2:30	111.62
LTB1	5/10/2018	2:35	104.43
LTB1	5/10/2018	2:40	97.28
LTB1	5/10/2018	2:45	90.17
LTB1	5/10/2018	2:50	83.17
LTB1	5/10/2018	2:55	76.68
LTB1	5/10/2018	3:00	71.75
LTB1	5/10/2018	3:05	67.65
LTB1	5/10/2018	3:10	64.00
LTB1	5/10/2018	3:15	60.69
LTB1	5/10/2018	3:20	57.63
LTB1	5/10/2018	3:25	54.76
LTB1	5/10/2018	3:30	52.07
LTB1	5/10/2018	3:35	49.56
LTB1	5/10/2018	3:40	47.09
LTB1	5/10/2018	3:45	44.67
LTB1	5/10/2018	3:50	42.26
LTB1	5/10/2018	3:55	39.85
LTB1	5/10/2018	4:00	37.45
LTB1	5/10/2018	4:05	35.07
LTB1	5/10/2018	4:10	32.69
LTB1	5/10/2018	4:15	30.32

LTB Ponding Areas

LTB1	5/10/2018	4:20	27.96
LTB1	5/10/2018	4:25	25.60
LTB1	5/10/2018	4:30	23.26
LTB1	5/10/2018	4:35	20.91
LTB1	5/10/2018	4:40	18.57
LTB1	5/10/2018	4:45	16.22
LTB1	5/10/2018	4:50	13.88
LTB1	5/10/2018	4:55	11.53
LTB1	5/10/2018	5:00	9.19
LTB1	5/10/2018	5:05	6.87
LTB1	5/10/2018	5:10	4.74
LTB1	5/10/2018	5:15	3.33
LTB1	5/10/2018	5:20	2.40
LTB1	5/10/2018	5:25	1.72
LTB1	5/10/2018	5:30	1.21
LTB1	5/10/2018	5:35	0.84
LTB1	5/10/2018	5:40	0.55
LTB1	5/10/2018	5:45	0.36
LTB1	5/10/2018	5:50	0.27
LTB1	5/10/2018	5:55	0.20
LTB1	5/10/2018	6:00	0.16
LTB1	5/10/2018	6:05	0.13
LTB1	5/10/2018	6:10	0.09
LTB1	5/10/2018	6:15	0.07
LTB1	5/10/2018	6:20	0.05
LTB1	5/10/2018	6:25	0.03
LTB1	5/10/2018	6:30	0.01
LTB1	5/10/2018	6:35	0.01
LTB1	5/10/2018	6:40	0.00
;			
LTB2*	5/10/2018	0:00	0.00
LTB2*	5/10/2018	0:05	0.00
LTB2*	5/10/2018	0:10	0.07
LTB2*	5/10/2018	0:15	0.51
LTB2*	5/10/2018	0:20	7.80
LTB2*	5/10/2018	0:25	49.32
LTB2*	5/10/2018	0:30	119.03
LTB2*	5/10/2018	0:35	181.24
LTB2*	5/10/2018	0:40	220.52
LTB2*	5/10/2018	0:45	241.78
LTB2*	5/10/2018	0:50	250.47
LTB2*	5/10/2018	0:55	249.24
LTB2*	5/10/2018	1:00	242.29
LTB2*	5/10/2018	1:05	234.53
LTB2*	5/10/2018	1:10	223.46
LTB2*	5/10/2018	1:15	209.23
LTB2*	5/10/2018	1:20	193.41
LTB2*	5/10/2018	1:25	178.32
LTB2*	5/10/2018	1:30	164.89
LTB2*	5/10/2018	1:35	152.66
LTB2*	5/10/2018	1:40	141.49
LTB2*	5/10/2018	1:45	130.83
LTB2*	5/10/2018	1:50	120.62
LTB2*	5/10/2018	1:55	110.67
LTB2*	5/10/2018	2:00	100.93
LTB2*	5/10/2018	2:05	91.25
LTB2*	5/10/2018	2:10	81.95
LTB2*	5/10/2018	2:15	74.57
LTB2*	5/10/2018	2:20	68.63
LTB2*	5/10/2018	2:25	63.47
LTB2*	5/10/2018	2:30	58.82
LTB2*	5/10/2018	2:35	54.56
LTB2*	5/10/2018	2:40	50.59

LTB Ponding Areas

LTB2*	5/10/2018	2:45	46.87
LTB2*	5/10/2018	2:50	43.42
LTB2*	5/10/2018	2:55	40.08
LTB2*	5/10/2018	3:00	36.80
LTB2*	5/10/2018	3:05	33.53
LTB2*	5/10/2018	3:10	30.27
LTB2*	5/10/2018	3:15	27.02
LTB2*	5/10/2018	3:20	23.77
LTB2*	5/10/2018	3:25	20.53
LTB2*	5/10/2018	3:30	17.29
LTB2*	5/10/2018	3:35	14.06
LTB2*	5/10/2018	3:40	10.84
LTB2*	5/10/2018	3:45	7.73
LTB2*	5/10/2018	3:50	5.18
LTB2*	5/10/2018	3:55	3.59
LTB2*	5/10/2018	4:00	2.50
LTB2*	5/10/2018	4:05	1.71
LTB2*	5/10/2018	4:10	1.13
LTB2*	5/10/2018	4:15	0.71
LTB2*	5/10/2018	4:20	0.41
LTB2*	5/10/2018	4:25	0.24
LTB2*	5/10/2018	4:30	0.17
LTB2*	5/10/2018	4:35	0.12
LTB2*	5/10/2018	4:40	0.10
LTB2*	5/10/2018	4:45	0.07
LTB2*	5/10/2018	4:50	0.06
LTB2*	5/10/2018	4:55	0.04
LTB2*	5/10/2018	5:00	0.03
LTB2*	5/10/2018	5:05	0.01
LTB2*	5/10/2018	5:10	0.01
LTB2*	5/10/2018	5:15	0.00
;			
LTB3	5/10/2018	0:00	0.00
LTB3	5/10/2018	0:05	0.01
LTB3	5/10/2018	0:10	0.08
LTB3	5/10/2018	0:15	0.44
LTB3	5/10/2018	0:20	4.93
LTB3	5/10/2018	0:25	25.53
LTB3	5/10/2018	0:30	45.76
LTB3	5/10/2018	0:35	55.98
LTB3	5/10/2018	0:40	60.98
LTB3	5/10/2018	0:45	62.85
LTB3	5/10/2018	0:50	62.06
LTB3	5/10/2018	0:55	60.44
LTB3	5/10/2018	1:00	59.16
LTB3	5/10/2018	1:05	56.38
LTB3	5/10/2018	1:10	52.65
LTB3	5/10/2018	1:15	48.58
LTB3	5/10/2018	1:20	44.84
LTB3	5/10/2018	1:25	41.43
LTB3	5/10/2018	1:30	38.26
LTB3	5/10/2018	1:35	35.28
LTB3	5/10/2018	1:40	32.42
LTB3	5/10/2018	1:45	29.64
LTB3	5/10/2018	1:50	26.94
LTB3	5/10/2018	1:55	24.31
LTB3	5/10/2018	2:00	21.76
LTB3	5/10/2018	2:05	19.77
LTB3	5/10/2018	2:10	18.15
LTB3	5/10/2018	2:15	16.71
LTB3	5/10/2018	2:20	15.41
LTB3	5/10/2018	2:25	14.21
LTB3	5/10/2018	2:30	13.10

LTB Ponding Areas

LTB3	5/10/2018	2:35	12.05
LTB3	5/10/2018	2:40	11.08
LTB3	5/10/2018	2:45	10.14
LTB3	5/10/2018	2:50	9.21
LTB3	5/10/2018	2:55	8.29
LTB3	5/10/2018	3:00	7.37
LTB3	5/10/2018	3:05	6.45
LTB3	5/10/2018	3:10	5.54
LTB3	5/10/2018	3:15	4.63
LTB3	5/10/2018	3:20	3.72
LTB3	5/10/2018	3:25	2.81
LTB3	5/10/2018	3:30	1.96
LTB3	5/10/2018	3:35	1.35
LTB3	5/10/2018	3:40	0.95
LTB3	5/10/2018	3:45	0.67
LTB3	5/10/2018	3:50	0.47
LTB3	5/10/2018	3:55	0.31
LTB3	5/10/2018	4:00	0.20
LTB3	5/10/2018	4:05	0.12
LTB3	5/10/2018	4:10	0.08
LTB3	5/10/2018	4:15	0.06
LTB3	5/10/2018	4:20	0.05
LTB3	5/10/2018	4:25	0.04
LTB3	5/10/2018	4:30	0.03
LTB3	5/10/2018	4:35	0.02
LTB3	5/10/2018	4:40	0.01
LTB3	5/10/2018	4:45	0.01
LTB3	5/10/2018	4:50	0.00
;			
LTB4	5/10/2018	0:00	0.00
LTB4	5/10/2018	0:05	0.00
LTB4	5/10/2018	0:10	0.00
LTB4	5/10/2018	0:15	0.03
LTB4	5/10/2018	0:20	0.56
LTB4	5/10/2018	0:25	3.52
LTB4	5/10/2018	0:30	8.02
LTB4	5/10/2018	0:35	11.53
LTB4	5/10/2018	0:40	13.52
LTB4	5/10/2018	0:45	14.79
LTB4	5/10/2018	0:50	15.64
LTB4	5/10/2018	0:55	16.24
LTB4	5/10/2018	1:00	16.70
LTB4	5/10/2018	1:05	16.88
LTB4	5/10/2018	1:10	16.72
LTB4	5/10/2018	1:15	16.32
LTB4	5/10/2018	1:20	15.75
LTB4	5/10/2018	1:25	15.09
LTB4	5/10/2018	1:30	14.50
LTB4	5/10/2018	1:35	13.97
LTB4	5/10/2018	1:40	13.45
LTB4	5/10/2018	1:45	12.95
LTB4	5/10/2018	1:50	12.46
LTB4	5/10/2018	1:55	11.98
LTB4	5/10/2018	2:00	11.50
LTB4	5/10/2018	2:05	11.03
LTB4	5/10/2018	2:10	10.56
LTB4	5/10/2018	2:15	10.10
LTB4	5/10/2018	2:20	9.71
LTB4	5/10/2018	2:25	9.36
LTB4	5/10/2018	2:30	9.03
LTB4	5/10/2018	2:35	8.71
LTB4	5/10/2018	2:40	8.40
LTB4	5/10/2018	2:45	8.10

LTB Ponding Areas

LTB4	5/10/2018	2:50	7.81
LTB4	5/10/2018	2:55	7.53
LTB4	5/10/2018	3:00	7.24
LTB4	5/10/2018	3:05	6.96
LTB4	5/10/2018	3:10	6.68
LTB4	5/10/2018	3:15	6.40
LTB4	5/10/2018	3:20	6.12
LTB4	5/10/2018	3:25	5.84
LTB4	5/10/2018	3:30	5.56
LTB4	5/10/2018	3:35	5.29
LTB4	5/10/2018	3:40	5.01
LTB4	5/10/2018	3:45	4.73
LTB4	5/10/2018	3:50	4.45
LTB4	5/10/2018	3:55	4.19
LTB4	5/10/2018	4:00	3.99
LTB4	5/10/2018	4:05	3.83
LTB4	5/10/2018	4:10	3.69
LTB4	5/10/2018	4:15	3.56
LTB4	5/10/2018	4:20	3.44
LTB4	5/10/2018	4:25	3.32
LTB4	5/10/2018	4:30	3.22
LTB4	5/10/2018	4:35	3.12
LTB4	5/10/2018	4:40	3.03
LTB4	5/10/2018	4:45	2.93
LTB4	5/10/2018	4:50	2.84
LTB4	5/10/2018	4:55	2.74
LTB4	5/10/2018	5:00	2.65
LTB4	5/10/2018	5:05	2.56
LTB4	5/10/2018	5:10	2.46
LTB4	5/10/2018	5:15	2.37
LTB4	5/10/2018	5:20	2.28
LTB4	5/10/2018	5:25	2.18
LTB4	5/10/2018	5:30	2.09
LTB4	5/10/2018	5:35	2.00
LTB4	5/10/2018	5:40	1.90
LTB4	5/10/2018	5:45	1.81
LTB4	5/10/2018	5:50	1.72
LTB4	5/10/2018	5:55	1.63
LTB4	5/10/2018	6:00	1.53
LTB4	5/10/2018	6:05	1.44
LTB4	5/10/2018	6:10	1.35
LTB4	5/10/2018	6:15	1.25
LTB4	5/10/2018	6:20	1.16
LTB4	5/10/2018	6:25	1.07
LTB4	5/10/2018	6:30	0.97
LTB4	5/10/2018	6:35	0.88
LTB4	5/10/2018	6:40	0.79
LTB4	5/10/2018	6:45	0.70
LTB4	5/10/2018	6:50	0.60
LTB4	5/10/2018	6:55	0.51
LTB4	5/10/2018	7:00	0.42
LTB4	5/10/2018	7:05	0.32
LTB4	5/10/2018	7:10	0.23
LTB4	5/10/2018	7:15	0.16
LTB4	5/10/2018	7:20	0.11
LTB4	5/10/2018	7:25	0.08
LTB4	5/10/2018	7:30	0.05
LTB4	5/10/2018	7:35	0.03
LTB4	5/10/2018	7:40	0.02
LTB4	5/10/2018	7:45	0.01
LTB4	5/10/2018	7:50	0.01
LTB4	5/10/2018	7:55	0.00

;

LTB Ponding Areas

LTB5	5/10/2018	0:00	0.00
LTB5	5/10/2018	0:05	0.00
LTB5	5/10/2018	0:10	0.03
LTB5	5/10/2018	0:15	0.23
LTB5	5/10/2018	0:20	3.73
LTB5	5/10/2018	0:25	24.29
LTB5	5/10/2018	0:30	60.08
LTB5	5/10/2018	0:35	93.41
LTB5	5/10/2018	0:40	115.86
LTB5	5/10/2018	0:45	128.80
LTB5	5/10/2018	0:50	135.86
LTB5	5/10/2018	0:55	138.66
LTB5	5/10/2018	1:00	138.26
LTB5	5/10/2018	1:05	134.48
LTB5	5/10/2018	1:10	129.40
LTB5	5/10/2018	1:15	123.23
LTB5	5/10/2018	1:20	116.15
LTB5	5/10/2018	1:25	108.68
LTB5	5/10/2018	1:30	101.16
LTB5	5/10/2018	1:35	94.08
LTB5	5/10/2018	1:40	88.07
LTB5	5/10/2018	1:45	82.79
LTB5	5/10/2018	1:50	77.85
LTB5	5/10/2018	1:55	73.17
LTB5	5/10/2018	2:00	68.62
LTB5	5/10/2018	2:05	64.13
LTB5	5/10/2018	2:10	59.72
LTB5	5/10/2018	2:15	55.39
LTB5	5/10/2018	2:20	51.09
LTB5	5/10/2018	2:25	46.81
LTB5	5/10/2018	2:30	42.66
LTB5	5/10/2018	2:35	39.16
LTB5	5/10/2018	2:40	36.43
LTB5	5/10/2018	2:45	34.10
LTB5	5/10/2018	2:50	32.02
LTB5	5/10/2018	2:55	30.11
LTB5	5/10/2018	3:00	28.34
LTB5	5/10/2018	3:05	26.68
LTB5	5/10/2018	3:10	25.14
LTB5	5/10/2018	3:15	23.67
LTB5	5/10/2018	3:20	22.22
LTB5	5/10/2018	3:25	20.78
LTB5	5/10/2018	3:30	19.35
LTB5	5/10/2018	3:35	17.91
LTB5	5/10/2018	3:40	16.49
LTB5	5/10/2018	3:45	15.06
LTB5	5/10/2018	3:50	13.63
LTB5	5/10/2018	3:55	12.21
LTB5	5/10/2018	4:00	10.79
LTB5	5/10/2018	4:05	9.37
LTB5	5/10/2018	4:10	7.95
LTB5	5/10/2018	4:15	6.54
LTB5	5/10/2018	4:20	5.12
LTB5	5/10/2018	4:25	3.72
LTB5	5/10/2018	4:30	2.47
LTB5	5/10/2018	4:35	1.70
LTB5	5/10/2018	4:40	1.19
LTB5	5/10/2018	4:45	0.81
LTB5	5/10/2018	4:50	0.54
LTB5	5/10/2018	4:55	0.34
LTB5	5/10/2018	5:00	0.20
LTB5	5/10/2018	5:05	0.11
LTB5	5/10/2018	5:10	0.07

LTB Ponding Areas

LTB5	5/10/2018	5:15	0.05
LTB5	5/10/2018	5:20	0.04
LTB5	5/10/2018	5:25	0.03
LTB5	5/10/2018	5:30	0.02
LTB5	5/10/2018	5:35	0.02
LTB5	5/10/2018	5:40	0.01
LTB5	5/10/2018	5:45	0.01
LTB5	5/10/2018	5:50	0.00
;			
LTB6	5/10/2018	0:00	0.00
LTB6	5/10/2018	0:05	0.21
LTB6	5/10/2018	0:10	2.67
LTB6	5/10/2018	0:15	11.17
LTB6	5/10/2018	0:20	55.61
LTB6	5/10/2018	0:25	213.00
LTB6	5/10/2018	0:30	297.79
LTB6	5/10/2018	0:35	302.09
LTB6	5/10/2018	0:40	285.13
LTB6	5/10/2018	0:45	261.11
LTB6	5/10/2018	0:50	234.92
LTB6	5/10/2018	0:55	210.20
LTB6	5/10/2018	1:00	187.98
LTB6	5/10/2018	1:05	159.13
LTB6	5/10/2018	1:10	134.31
LTB6	5/10/2018	1:15	110.66
LTB6	5/10/2018	1:20	89.37
LTB6	5/10/2018	1:25	70.94
LTB6	5/10/2018	1:30	54.08
LTB6	5/10/2018	1:35	39.15
LTB6	5/10/2018	1:40	28.09
LTB6	5/10/2018	1:45	21.39
LTB6	5/10/2018	1:50	16.98
LTB6	5/10/2018	1:55	13.84
LTB6	5/10/2018	2:00	10.22
LTB6	5/10/2018	2:05	7.13
LTB6	5/10/2018	2:10	4.91
LTB6	5/10/2018	2:15	3.45
LTB6	5/10/2018	2:20	2.53
LTB6	5/10/2018	2:25	1.87
LTB6	5/10/2018	2:30	1.40
LTB6	5/10/2018	2:35	1.05
LTB6	5/10/2018	2:40	0.78
LTB6	5/10/2018	2:45	0.54
LTB6	5/10/2018	2:50	0.35
LTB6	5/10/2018	2:55	0.20
LTB6	5/10/2018	3:00	0.09
LTB6	5/10/2018	3:05	0.02
LTB6	5/10/2018	3:10	0.00
;			
LTB7	5/10/2018	0:00	0.00
LTB7	5/10/2018	0:05	0.50
LTB7	5/10/2018	0:10	6.23
LTB7	5/10/2018	0:15	16.80
LTB7	5/10/2018	0:20	44.74
LTB7	5/10/2018	0:25	107.19
LTB7	5/10/2018	0:30	137.38
LTB7	5/10/2018	0:35	136.34
LTB7	5/10/2018	0:40	127.32
LTB7	5/10/2018	0:45	116.16
LTB7	5/10/2018	0:50	104.38
LTB7	5/10/2018	0:55	96.15
LTB7	5/10/2018	1:00	102.35
LTB7	5/10/2018	1:05	119.30

LTB Ponding Areas

LTB7	5/10/2018	1:10	138.11
LTB7	5/10/2018	1:15	150.08
LTB7	5/10/2018	1:20	154.47
LTB7	5/10/2018	1:25	154.75
LTB7	5/10/2018	1:30	152.58
LTB7	5/10/2018	1:35	149.43
LTB7	5/10/2018	1:40	145.86
LTB7	5/10/2018	1:45	140.59
LTB7	5/10/2018	1:50	133.73
LTB7	5/10/2018	1:55	127.80
LTB7	5/10/2018	2:00	122.46
LTB7	5/10/2018	2:05	126.35
LTB7	5/10/2018	2:10	156.24
LTB7	5/10/2018	2:15	188.86
LTB7	5/10/2018	2:20	204.08
LTB7	5/10/2018	2:25	208.55
LTB7	5/10/2018	2:30	207.48
LTB7	5/10/2018	2:35	201.72
LTB7	5/10/2018	2:40	194.27
LTB7	5/10/2018	2:45	187.55
LTB7	5/10/2018	2:50	178.66
LTB7	5/10/2018	2:55	167.91
LTB7	5/10/2018	3:00	156.80
LTB7	5/10/2018	3:05	146.26
LTB7	5/10/2018	3:10	136.31
LTB7	5/10/2018	3:15	126.85
LTB7	5/10/2018	3:20	117.76
LTB7	5/10/2018	3:25	108.89
LTB7	5/10/2018	3:30	100.22
LTB7	5/10/2018	3:35	91.80
LTB7	5/10/2018	3:40	84.13
LTB7	5/10/2018	3:45	77.38
LTB7	5/10/2018	3:50	71.76
LTB7	5/10/2018	3:55	66.85
LTB7	5/10/2018	4:00	62.39
LTB7	5/10/2018	4:05	58.29
LTB7	5/10/2018	4:10	54.48
LTB7	5/10/2018	4:15	50.93
LTB7	5/10/2018	4:20	47.58
LTB7	5/10/2018	4:25	44.39
LTB7	5/10/2018	4:30	41.26
LTB7	5/10/2018	4:35	38.18
LTB7	5/10/2018	4:40	35.12
LTB7	5/10/2018	4:45	32.07
LTB7	5/10/2018	4:50	29.03
LTB7	5/10/2018	4:55	26.01
LTB7	5/10/2018	5:00	23.02
LTB7	5/10/2018	5:05	20.06
LTB7	5/10/2018	5:10	17.26
LTB7	5/10/2018	5:15	14.89
LTB7	5/10/2018	5:20	12.98
LTB7	5/10/2018	5:25	11.33
LTB7	5/10/2018	5:30	9.83
LTB7	5/10/2018	5:35	8.44
LTB7	5/10/2018	5:40	7.14
LTB7	5/10/2018	5:45	5.90
LTB7	5/10/2018	5:50	4.75
LTB7	5/10/2018	5:55	3.64
LTB7	5/10/2018	6:00	2.60
LTB7	5/10/2018	6:05	1.80
LTB7	5/10/2018	6:10	1.28
LTB7	5/10/2018	6:15	0.91
LTB7	5/10/2018	6:20	0.63

LTB Ponding Areas

LTB7	5/10/2018	6:25	0.43
LTB7	5/10/2018	6:30	0.27
LTB7	5/10/2018	6:35	0.16
LTB7	5/10/2018	6:40	0.10
LTB7	5/10/2018	6:45	0.07
LTB7	5/10/2018	6:50	0.06
LTB7	5/10/2018	6:55	0.04
LTB7	5/10/2018	7:00	0.03
LTB7	5/10/2018	7:05	0.02
LTB7	5/10/2018	7:10	0.02
LTB7	5/10/2018	7:15	0.01
LTB7	5/10/2018	7:20	0.01
LTB7	5/10/2018	7:25	0.00

;			
LTB8	5/10/2018	0:00	0.00
LTB8	5/10/2018	0:05	1.29
LTB8	5/10/2018	0:10	16.54
LTB8	5/10/2018	0:15	48.23
LTB8	5/10/2018	0:20	122.99
LTB8	5/10/2018	0:25	288.80
LTB8	5/10/2018	0:30	401.00
LTB8	5/10/2018	0:35	407.78
LTB8	5/10/2018	0:40	378.00
LTB8	5/10/2018	0:45	341.46
LTB8	5/10/2018	0:50	303.40
LTB8	5/10/2018	0:55	267.14
LTB8	5/10/2018	1:00	238.07
LTB8	5/10/2018	1:05	207.10
LTB8	5/10/2018	1:10	175.27
LTB8	5/10/2018	1:15	144.09
LTB8	5/10/2018	1:20	114.81
LTB8	5/10/2018	1:25	89.72
LTB8	5/10/2018	1:30	68.69
LTB8	5/10/2018	1:35	54.26
LTB8	5/10/2018	1:40	45.63
LTB8	5/10/2018	1:45	39.78
LTB8	5/10/2018	1:50	35.74
LTB8	5/10/2018	1:55	32.81
LTB8	5/10/2018	2:00	26.62
LTB8	5/10/2018	2:05	19.47
LTB8	5/10/2018	2:10	14.34
LTB8	5/10/2018	2:15	10.65
LTB8	5/10/2018	2:20	7.92
LTB8	5/10/2018	2:25	5.79
LTB8	5/10/2018	2:30	4.19
LTB8	5/10/2018	2:35	3.07
LTB8	5/10/2018	2:40	2.11
LTB8	5/10/2018	2:45	1.34
LTB8	5/10/2018	2:50	0.74
LTB8	5/10/2018	2:55	0.32
LTB8	5/10/2018	3:00	0.07
LTB8	5/10/2018	3:05	0.00

;			
LTB9	5/10/2018	0:00	0.00
LTB9	5/10/2018	0:05	0.20
LTB9	5/10/2018	0:10	2.57
LTB9	5/10/2018	0:15	9.30
LTB9	5/10/2018	0:20	34.72
LTB9	5/10/2018	0:25	105.50
LTB9	5/10/2018	0:30	164.48
LTB9	5/10/2018	0:35	188.42
LTB9	5/10/2018	0:40	191.44
LTB9	5/10/2018	0:45	184.81

LTB Ponding Areas

LTB9	5/10/2018	0:50	176.68
LTB9	5/10/2018	0:55	187.80
LTB9	5/10/2018	1:00	224.50
LTB9	5/10/2018	1:05	327.85
LTB9	5/10/2018	1:10	583.44
LTB9	5/10/2018	1:15	767.04
LTB9	5/10/2018	1:20	800.63
LTB9	5/10/2018	1:25	772.07
LTB9	5/10/2018	1:30	726.91
LTB9	5/10/2018	1:35	673.86
LTB9	5/10/2018	1:40	621.10
LTB9	5/10/2018	1:45	587.57
LTB9	5/10/2018	1:50	563.05
LTB9	5/10/2018	1:55	538.82
LTB9	5/10/2018	2:00	512.43
LTB9	5/10/2018	2:05	496.62
LTB9	5/10/2018	2:10	481.16
LTB9	5/10/2018	2:15	456.62
LTB9	5/10/2018	2:20	432.08
LTB9	5/10/2018	2:25	410.67
LTB9	5/10/2018	2:30	388.59
LTB9	5/10/2018	2:35	366.34
LTB9	5/10/2018	2:40	347.26
LTB9	5/10/2018	2:45	324.41
LTB9	5/10/2018	2:50	313.05
LTB9	5/10/2018	2:55	349.24
LTB9	5/10/2018	3:00	398.12
LTB9	5/10/2018	3:05	420.85
LTB9	5/10/2018	3:10	425.00
LTB9	5/10/2018	3:15	419.56
LTB9	5/10/2018	3:20	406.10
LTB9	5/10/2018	3:25	388.54
LTB9	5/10/2018	3:30	372.06
LTB9	5/10/2018	3:35	352.76
LTB9	5/10/2018	3:40	330.58
LTB9	5/10/2018	3:45	309.59
LTB9	5/10/2018	3:50	295.37
LTB9	5/10/2018	3:55	286.52
LTB9	5/10/2018	4:00	276.75
LTB9	5/10/2018	4:05	264.18
LTB9	5/10/2018	4:10	250.16
LTB9	5/10/2018	4:15	235.45
LTB9	5/10/2018	4:20	220.45
LTB9	5/10/2018	4:25	205.95
LTB9	5/10/2018	4:30	191.72
LTB9	5/10/2018	4:35	177.73
LTB9	5/10/2018	4:40	164.13
LTB9	5/10/2018	4:45	151.57
LTB9	5/10/2018	4:50	140.38
LTB9	5/10/2018	4:55	130.50
LTB9	5/10/2018	5:00	121.47
LTB9	5/10/2018	5:05	113.03
LTB9	5/10/2018	5:10	105.05
LTB9	5/10/2018	5:15	97.52
LTB9	5/10/2018	5:20	90.59
LTB9	5/10/2018	5:25	84.06
LTB9	5/10/2018	5:30	77.82
LTB9	5/10/2018	5:35	71.85
LTB9	5/10/2018	5:40	66.08
LTB9	5/10/2018	5:45	60.44
LTB9	5/10/2018	5:50	54.94
LTB9	5/10/2018	5:55	49.68
LTB9	5/10/2018	6:00	44.90

LTB Ponding Areas

LTB9	5/10/2018	6:05	40.65
LTB9	5/10/2018	6:10	36.68
LTB9	5/10/2018	6:15	32.97
LTB9	5/10/2018	6:20	29.72
LTB9	5/10/2018	6:25	26.89
LTB9	5/10/2018	6:30	24.30
LTB9	5/10/2018	6:35	21.91
LTB9	5/10/2018	6:40	19.65
LTB9	5/10/2018	6:45	17.53
LTB9	5/10/2018	6:50	15.71
LTB9	5/10/2018	6:55	14.27
LTB9	5/10/2018	7:00	13.18
LTB9	5/10/2018	7:05	12.31
LTB9	5/10/2018	7:10	11.60
LTB9	5/10/2018	7:15	10.99
LTB9	5/10/2018	7:20	10.46
LTB9	5/10/2018	7:25	10.00
LTB9	5/10/2018	7:30	9.60
LTB9	5/10/2018	7:35	9.23
LTB9	5/10/2018	7:40	8.88
LTB9	5/10/2018	7:45	8.55
LTB9	5/10/2018	7:50	8.22
LTB9	5/10/2018	7:55	7.89
LTB9	5/10/2018	8:00	7.57
LTB9	5/10/2018	8:05	7.25
LTB9	5/10/2018	8:10	6.93
;			
LTB10	5/10/2018	0:00	0.00
LTB10	5/10/2018	0:05	0.00
LTB10	5/10/2018	0:10	0.02
LTB10	5/10/2018	0:15	0.20
LTB10	5/10/2018	0:20	3.85
LTB10	5/10/2018	0:25	23.48
LTB10	5/10/2018	0:30	44.76
LTB10	5/10/2018	0:35	55.96
LTB10	5/10/2018	0:40	61.45
LTB10	5/10/2018	0:45	63.55
LTB10	5/10/2018	0:50	62.78
LTB10	5/10/2018	0:55	61.04
LTB10	5/10/2018	1:00	59.63
LTB10	5/10/2018	1:05	56.82
LTB10	5/10/2018	1:10	52.92
LTB10	5/10/2018	1:15	48.75
LTB10	5/10/2018	1:20	44.88
LTB10	5/10/2018	1:25	41.32
LTB10	5/10/2018	1:30	38.03
LTB10	5/10/2018	1:35	34.93
LTB10	5/10/2018	1:40	31.95
LTB10	5/10/2018	1:45	29.07
LTB10	5/10/2018	1:50	26.26
LTB10	5/10/2018	1:55	23.55
LTB10	5/10/2018	2:00	21.07
LTB10	5/10/2018	2:05	19.17
LTB10	5/10/2018	2:10	17.58
LTB10	5/10/2018	2:15	16.18
LTB10	5/10/2018	2:20	14.90
LTB10	5/10/2018	2:25	13.71
LTB10	5/10/2018	2:30	12.61
LTB10	5/10/2018	2:35	11.58
LTB10	5/10/2018	2:40	10.61
LTB10	5/10/2018	2:45	9.66
LTB10	5/10/2018	2:50	8.73
LTB10	5/10/2018	2:55	7.79

LTB Ponding Areas

LTB10	5/10/2018	3:00	6.86
LTB10	5/10/2018	3:05	5.93
LTB10	5/10/2018	3:10	5.00
LTB10	5/10/2018	3:15	4.07
LTB10	5/10/2018	3:20	3.15
LTB10	5/10/2018	3:25	2.24
LTB10	5/10/2018	3:30	1.49
LTB10	5/10/2018	3:35	1.03
LTB10	5/10/2018	3:40	0.71
LTB10	5/10/2018	3:45	0.48
LTB10	5/10/2018	3:50	0.31
LTB10	5/10/2018	3:55	0.19
LTB10	5/10/2018	4:00	0.11
LTB10	5/10/2018	4:05	0.06
LTB10	5/10/2018	4:10	0.04
LTB10	5/10/2018	4:15	0.03
LTB10	5/10/2018	4:20	0.02
LTB10	5/10/2018	4:25	0.02
LTB10	5/10/2018	4:30	0.01
LTB10	5/10/2018	4:35	0.01
LTB10	5/10/2018	4:40	0.01
LTB10	5/10/2018	4:45	0.00
;			
LTB11	5/10/2018	0:00	0.00
LTB11	5/10/2018	0:05	0.00
LTB11	5/10/2018	0:10	0.01
LTB11	5/10/2018	0:15	0.17
LTB11	5/10/2018	0:20	4.22
LTB11	5/10/2018	0:25	28.74
LTB11	5/10/2018	0:30	64.62
LTB11	5/10/2018	0:35	90.85
LTB11	5/10/2018	0:40	104.69
LTB11	5/10/2018	0:45	111.53
LTB11	5/10/2018	0:50	113.01
LTB11	5/10/2018	0:55	110.60
LTB11	5/10/2018	1:00	107.88
LTB11	5/10/2018	1:05	103.99
LTB11	5/10/2018	1:10	98.12
LTB11	5/10/2018	1:15	91.04
LTB11	5/10/2018	1:20	83.74
LTB11	5/10/2018	1:25	77.24
LTB11	5/10/2018	1:30	71.33
LTB11	5/10/2018	1:35	65.91
LTB11	5/10/2018	1:40	60.79
LTB11	5/10/2018	1:45	55.89
LTB11	5/10/2018	1:50	51.14
LTB11	5/10/2018	1:55	46.51
LTB11	5/10/2018	2:00	41.97
LTB11	5/10/2018	2:05	37.58
LTB11	5/10/2018	2:10	34.09
LTB11	5/10/2018	2:15	31.30
LTB11	5/10/2018	2:20	28.88
LTB11	5/10/2018	2:25	26.70
LTB11	5/10/2018	2:30	24.71
LTB11	5/10/2018	2:35	22.86
LTB11	5/10/2018	2:40	21.12
LTB11	5/10/2018	2:45	19.51
LTB11	5/10/2018	2:50	17.95
LTB11	5/10/2018	2:55	16.42
LTB11	5/10/2018	3:00	14.89
LTB11	5/10/2018	3:05	13.37
LTB11	5/10/2018	3:10	11.85
LTB11	5/10/2018	3:15	10.33

LTB Ponding Areas

LTB11	5/10/2018	3:20	8.81
LTB11	5/10/2018	3:25	7.29
LTB11	5/10/2018	3:30	5.77
LTB11	5/10/2018	3:35	4.26
LTB11	5/10/2018	3:40	2.85
LTB11	5/10/2018	3:45	1.93
LTB11	5/10/2018	3:50	1.33
LTB11	5/10/2018	3:55	0.90
LTB11	5/10/2018	4:00	0.59
LTB11	5/10/2018	4:05	0.37
LTB11	5/10/2018	4:10	0.20
LTB11	5/10/2018	4:15	0.10
LTB11	5/10/2018	4:20	0.06
LTB11	5/10/2018	4:25	0.04
LTB11	5/10/2018	4:30	0.03
LTB11	5/10/2018	4:35	0.02
LTB11	5/10/2018	4:40	0.02
LTB11	5/10/2018	4:45	0.01
LTB11	5/10/2018	4:50	0.01
LTB11	5/10/2018	4:55	0.01
LTB11	5/10/2018	5:00	0.00
;			
LTB12	5/10/2018	0:00	0.00
LTB12	5/10/2018	0:05	0.00
LTB12	5/10/2018	0:10	0.02
LTB12	5/10/2018	0:15	0.12
LTB12	5/10/2018	0:20	1.86
LTB12	5/10/2018	0:25	11.09
LTB12	5/10/2018	0:30	22.93
LTB12	5/10/2018	0:35	30.38
LTB12	5/10/2018	0:40	34.48
LTB12	5/10/2018	0:45	36.92
LTB12	5/10/2018	0:50	38.14
LTB12	5/10/2018	0:55	38.50
LTB12	5/10/2018	1:00	38.33
LTB12	5/10/2018	1:05	37.22
LTB12	5/10/2018	1:10	35.73
LTB12	5/10/2018	1:15	34.04
LTB12	5/10/2018	1:20	32.19
LTB12	5/10/2018	1:25	30.30
LTB12	5/10/2018	1:30	28.42
LTB12	5/10/2018	1:35	26.59
LTB12	5/10/2018	1:40	25.02
LTB12	5/10/2018	1:45	23.66
LTB12	5/10/2018	1:50	22.40
LTB12	5/10/2018	1:55	21.20
LTB12	5/10/2018	2:00	20.03
LTB12	5/10/2018	2:05	18.86
LTB12	5/10/2018	2:10	17.72
LTB12	5/10/2018	2:15	16.61
LTB12	5/10/2018	2:20	15.51
LTB12	5/10/2018	2:25	14.42
LTB12	5/10/2018	2:30	13.33
LTB12	5/10/2018	2:35	12.24
LTB12	5/10/2018	2:40	11.22
LTB12	5/10/2018	2:45	10.44
LTB12	5/10/2018	2:50	9.81
LTB12	5/10/2018	2:55	9.24
LTB12	5/10/2018	3:00	8.74
LTB12	5/10/2018	3:05	8.27
LTB12	5/10/2018	3:10	7.83
LTB12	5/10/2018	3:15	7.42
LTB12	5/10/2018	3:20	7.04

LTB Ponding Areas

LTB12	5/10/2018	3:25	6.67
LTB12	5/10/2018	3:30	6.30
LTB12	5/10/2018	3:35	5.93
LTB12	5/10/2018	3:40	5.57
LTB12	5/10/2018	3:45	5.20
LTB12	5/10/2018	3:50	4.84
LTB12	5/10/2018	3:55	4.47
LTB12	5/10/2018	4:00	4.11
LTB12	5/10/2018	4:05	3.75
LTB12	5/10/2018	4:10	3.39
LTB12	5/10/2018	4:15	3.03
LTB12	5/10/2018	4:20	2.67
LTB12	5/10/2018	4:25	2.31
LTB12	5/10/2018	4:30	1.94
LTB12	5/10/2018	4:35	1.58
LTB12	5/10/2018	4:40	1.22
LTB12	5/10/2018	4:45	0.87
LTB12	5/10/2018	4:50	0.59
LTB12	5/10/2018	4:55	0.41
LTB12	5/10/2018	5:00	0.28
LTB12	5/10/2018	5:05	0.19
LTB12	5/10/2018	5:10	0.13
LTB12	5/10/2018	5:15	0.08
LTB12	5/10/2018	5:20	0.05
LTB12	5/10/2018	5:25	0.03
LTB12	5/10/2018	5:30	0.02
LTB12	5/10/2018	5:35	0.01
LTB12	5/10/2018	5:40	0.01
LTB12	5/10/2018	5:45	0.01
LTB12	5/10/2018	5:50	0.01
LTB12	5/10/2018	5:55	0.00
;			
LTB13	5/10/2018	0:00	0.00
LTB13	5/10/2018	0:05	0.00
LTB13	5/10/2018	0:10	0.02
LTB13	5/10/2018	0:15	0.11
LTB13	5/10/2018	0:20	1.93
LTB13	5/10/2018	0:25	10.97
LTB13	5/10/2018	0:30	18.75
LTB13	5/10/2018	0:35	22.64
LTB13	5/10/2018	0:40	24.69
LTB13	5/10/2018	0:45	25.63
LTB13	5/10/2018	0:50	25.57
LTB13	5/10/2018	0:55	25.02
LTB13	5/10/2018	1:00	24.66
LTB13	5/10/2018	1:05	23.64
LTB13	5/10/2018	1:10	22.31
LTB13	5/10/2018	1:15	20.78
LTB13	5/10/2018	1:20	19.21
LTB13	5/10/2018	1:25	17.84
LTB13	5/10/2018	1:30	16.62
LTB13	5/10/2018	1:35	15.51
LTB13	5/10/2018	1:40	14.45
LTB13	5/10/2018	1:45	13.43
LTB13	5/10/2018	1:50	12.44
LTB13	5/10/2018	1:55	11.47
LTB13	5/10/2018	2:00	10.51
LTB13	5/10/2018	2:05	9.55
LTB13	5/10/2018	2:10	8.62
LTB13	5/10/2018	2:15	7.85
LTB13	5/10/2018	2:20	7.24
LTB13	5/10/2018	2:25	6.73
LTB13	5/10/2018	2:30	6.26

LTB Ponding Areas

LTB13	5/10/2018	2:35	5.83
LTB13	5/10/2018	2:40	5.44
LTB13	5/10/2018	2:45	5.07
LTB13	5/10/2018	2:50	4.72
LTB13	5/10/2018	2:55	4.39
LTB13	5/10/2018	3:00	4.07
LTB13	5/10/2018	3:05	3.74
LTB13	5/10/2018	3:10	3.42
LTB13	5/10/2018	3:15	3.10
LTB13	5/10/2018	3:20	2.78
LTB13	5/10/2018	3:25	2.46
LTB13	5/10/2018	3:30	2.14
LTB13	5/10/2018	3:35	1.82
LTB13	5/10/2018	3:40	1.50
LTB13	5/10/2018	3:45	1.18
LTB13	5/10/2018	3:50	0.87
LTB13	5/10/2018	3:55	0.58
LTB13	5/10/2018	4:00	0.40
LTB13	5/10/2018	4:05	0.28
LTB13	5/10/2018	4:10	0.19
LTB13	5/10/2018	4:15	0.13
LTB13	5/10/2018	4:20	0.08
LTB13	5/10/2018	4:25	0.05
LTB13	5/10/2018	4:30	0.03
LTB13	5/10/2018	4:35	0.02
LTB13	5/10/2018	4:40	0.01
LTB13	5/10/2018	4:45	0.01
LTB13	5/10/2018	4:50	0.01
LTB13	5/10/2018	4:55	0.01
LTB13	5/10/2018	5:00	0.00
;			
LTB14	5/10/2018	0:00	0.00
LTB14	5/10/2018	0:05	0.00
LTB14	5/10/2018	0:10	0.02
LTB14	5/10/2018	0:15	0.16
LTB14	5/10/2018	0:20	3.56
LTB14	5/10/2018	0:25	22.11
LTB14	5/10/2018	0:30	41.35
LTB14	5/10/2018	0:35	51.19
LTB14	5/10/2018	0:40	55.93
LTB14	5/10/2018	0:45	57.57
LTB14	5/10/2018	0:50	56.62
LTB14	5/10/2018	0:55	55.05
LTB14	5/10/2018	1:00	53.75
LTB14	5/10/2018	1:05	51.05
LTB14	5/10/2018	1:10	47.43
LTB14	5/10/2018	1:15	43.68
LTB14	5/10/2018	1:20	40.16
LTB14	5/10/2018	1:25	36.90
LTB14	5/10/2018	1:30	33.89
LTB14	5/10/2018	1:35	31.04
LTB14	5/10/2018	1:40	28.29
LTB14	5/10/2018	1:45	25.63
LTB14	5/10/2018	1:50	23.04
LTB14	5/10/2018	1:55	20.57
LTB14	5/10/2018	2:00	18.51
LTB14	5/10/2018	2:05	16.87
LTB14	5/10/2018	2:10	15.48
LTB14	5/10/2018	2:15	14.22
LTB14	5/10/2018	2:20	13.08
LTB14	5/10/2018	2:25	12.01
LTB14	5/10/2018	2:30	11.02
LTB14	5/10/2018	2:35	10.09

LTB Ponding Areas

LTB14	5/10/2018	2:40	9.20
LTB14	5/10/2018	2:45	8.33
LTB14	5/10/2018	2:50	7.47
LTB14	5/10/2018	2:55	6.61
LTB14	5/10/2018	3:00	5.75
LTB14	5/10/2018	3:05	4.88
LTB14	5/10/2018	3:10	4.02
LTB14	5/10/2018	3:15	3.17
LTB14	5/10/2018	3:20	2.31
LTB14	5/10/2018	3:25	1.52
LTB14	5/10/2018	3:30	1.04
LTB14	5/10/2018	3:35	0.72
LTB14	5/10/2018	3:40	0.49
LTB14	5/10/2018	3:45	0.32
LTB14	5/10/2018	3:50	0.20
LTB14	5/10/2018	3:55	0.11
LTB14	5/10/2018	4:00	0.06
LTB14	5/10/2018	4:05	0.04
LTB14	5/10/2018	4:10	0.02
LTB14	5/10/2018	4:15	0.02
LTB14	5/10/2018	4:20	0.02
LTB14	5/10/2018	4:25	0.01
LTB14	5/10/2018	4:30	0.01
LTB14	5/10/2018	4:35	0.01
LTB14	5/10/2018	4:40	0.00
;			
LTB15	5/10/2018	0:00	0.00
LTB15	5/10/2018	0:05	0.00
LTB15	5/10/2018	0:10	0.02
LTB15	5/10/2018	0:15	0.20
LTB15	5/10/2018	0:20	4.10
LTB15	5/10/2018	0:25	24.14
LTB15	5/10/2018	0:30	39.93
LTB15	5/10/2018	0:35	47.14
LTB15	5/10/2018	0:40	49.81
LTB15	5/10/2018	0:45	49.47
LTB15	5/10/2018	0:50	47.82
LTB15	5/10/2018	0:55	46.09
LTB15	5/10/2018	1:00	44.35
LTB15	5/10/2018	1:05	41.12
LTB15	5/10/2018	1:10	37.92
LTB15	5/10/2018	1:15	34.52
LTB15	5/10/2018	1:20	31.15
LTB15	5/10/2018	1:25	27.98
LTB15	5/10/2018	1:30	24.95
LTB15	5/10/2018	1:35	22.02
LTB15	5/10/2018	1:40	19.28
LTB15	5/10/2018	1:45	17.15
LTB15	5/10/2018	1:50	15.47
LTB15	5/10/2018	1:55	14.03
LTB15	5/10/2018	2:00	12.70
LTB15	5/10/2018	2:05	11.46
LTB15	5/10/2018	2:10	10.31
LTB15	5/10/2018	2:15	9.23
LTB15	5/10/2018	2:20	8.23
LTB15	5/10/2018	2:25	7.26
LTB15	5/10/2018	2:30	6.30
LTB15	5/10/2018	2:35	5.36
LTB15	5/10/2018	2:40	4.41
LTB15	5/10/2018	2:45	3.47
LTB15	5/10/2018	2:50	2.54
LTB15	5/10/2018	2:55	1.67
LTB15	5/10/2018	3:00	1.14

LTB Ponding Areas

LTB15	5/10/2018	3:05	0.79
LTB15	5/10/2018	3:10	0.54
LTB15	5/10/2018	3:15	0.36
LTB15	5/10/2018	3:20	0.22
LTB15	5/10/2018	3:25	0.13
LTB15	5/10/2018	3:30	0.07
LTB15	5/10/2018	3:35	0.04
LTB15	5/10/2018	3:40	0.03
LTB15	5/10/2018	3:45	0.02
LTB15	5/10/2018	3:50	0.02
LTB15	5/10/2018	3:55	0.01
LTB15	5/10/2018	4:00	0.01
LTB15	5/10/2018	4:05	0.01
LTB15	5/10/2018	4:10	0.00
;			
LTB16	5/10/2018	0:00	0.00
LTB16	5/10/2018	0:05	0.00
LTB16	5/10/2018	0:10	0.01
LTB16	5/10/2018	0:15	0.12
LTB16	5/10/2018	0:20	2.71
LTB16	5/10/2018	0:25	15.75
LTB16	5/10/2018	0:30	23.71
LTB16	5/10/2018	0:35	26.99
LTB16	5/10/2018	0:40	27.93
LTB16	5/10/2018	0:45	27.37
LTB16	5/10/2018	0:50	26.33
LTB16	5/10/2018	0:55	25.25
LTB16	5/10/2018	1:00	24.18
LTB16	5/10/2018	1:05	22.29
LTB16	5/10/2018	1:10	20.46
LTB16	5/10/2018	1:15	18.43
LTB16	5/10/2018	1:20	16.46
LTB16	5/10/2018	1:25	14.60
LTB16	5/10/2018	1:30	12.81
LTB16	5/10/2018	1:35	11.13
LTB16	5/10/2018	1:40	9.85
LTB16	5/10/2018	1:45	8.83
LTB16	5/10/2018	1:50	7.96
LTB16	5/10/2018	1:55	7.18
LTB16	5/10/2018	2:00	6.44
LTB16	5/10/2018	2:05	5.74
LTB16	5/10/2018	2:10	5.09
LTB16	5/10/2018	2:15	4.49
LTB16	5/10/2018	2:20	3.90
LTB16	5/10/2018	2:25	3.33
LTB16	5/10/2018	2:30	2.75
LTB16	5/10/2018	2:35	2.18
LTB16	5/10/2018	2:40	1.62
LTB16	5/10/2018	2:45	1.08
LTB16	5/10/2018	2:50	0.74
LTB16	5/10/2018	2:55	0.51
LTB16	5/10/2018	3:00	0.35
LTB16	5/10/2018	3:05	0.23
LTB16	5/10/2018	3:10	0.14
LTB16	5/10/2018	3:15	0.08
LTB16	5/10/2018	3:20	0.04
LTB16	5/10/2018	3:25	0.03
LTB16	5/10/2018	3:30	0.02
LTB16	5/10/2018	3:35	0.01
LTB16	5/10/2018	3:40	0.01
LTB16	5/10/2018	3:45	0.01
LTB16	5/10/2018	3:50	0.01
LTB16	5/10/2018	3:55	0.00

LTB Ponding Areas

;			
LTB17	5/10/2018	0:00	0
LTB17	5/10/2018	0:05	0.2
LTB17	5/10/2018	0:10	3.4
LTB17	5/10/2018	0:15	16.2
LTB17	5/10/2018	0:20	67.9
LTB17	5/10/2018	0:25	252.0
LTB17	5/10/2018	0:30	558.8
LTB17	5/10/2018	0:35	870.4
LTB17	5/10/2018	0:40	1109.7
LTB17	5/10/2018	0:45	1253.0
LTB17	5/10/2018	0:50	1316.2
LTB17	5/10/2018	0:55	1315.2
LTB17	5/10/2018	1:00	1273.3
LTB17	5/10/2018	1:05	1234.3
LTB17	5/10/2018	1:10	1195.3
LTB17	5/10/2018	1:15	1235.4
LTB17	5/10/2018	1:20	1610.9
LTB17	5/10/2018	1:25	1984.2
LTB17	5/10/2018	1:30	2179.6
LTB17	5/10/2018	1:35	2251.0
LTB17	5/10/2018	1:40	2243.2
LTB17	5/10/2018	1:45	2184.5
LTB17	5/10/2018	1:50	2118.4
LTB17	5/10/2018	1:55	2067.7
LTB17	5/10/2018	2:00	2058.3
LTB17	5/10/2018	2:05	2190.4
LTB17	5/10/2018	2:10	2250.2
LTB17	5/10/2018	2:15	2165.2
LTB17	5/10/2018	2:20	2026.4
LTB17	5/10/2018	2:25	1881.3
LTB17	5/10/2018	2:30	1756.0
LTB17	5/10/2018	2:35	1692.0
LTB17	5/10/2018	2:40	1687.7
LTB17	5/10/2018	2:45	1682.3
LTB17	5/10/2018	2:50	1647.5
LTB17	5/10/2018	2:55	1581.0
LTB17	5/10/2018	3:00	1494.0
LTB17	5/10/2018	3:05	1398.3
LTB17	5/10/2018	3:10	1301.9
LTB17	5/10/2018	3:15	1215.9
LTB17	5/10/2018	3:20	1141.6
LTB17	5/10/2018	3:25	1107.0
LTB17	5/10/2018	3:30	1200.1
LTB17	5/10/2018	3:35	1338.8
LTB17	5/10/2018	3:40	1431.0
LTB17	5/10/2018	3:45	1448.1
LTB17	5/10/2018	3:50	1423.4
LTB17	5/10/2018	3:55	1372.3
LTB17	5/10/2018	4:00	1337.8
LTB17	5/10/2018	4:05	1362.2
LTB17	5/10/2018	4:10	1313.7
LTB17	5/10/2018	4:15	1263.2
LTB17	5/10/2018	4:20	1275.3
LTB17	5/10/2018	4:25	1344.8
LTB17	5/10/2018	4:30	1398.1
LTB17	5/10/2018	4:35	1404.3
LTB17	5/10/2018	4:40	1377.2
LTB17	5/10/2018	4:45	1321.4
LTB17	5/10/2018	4:50	1259.7
LTB17	5/10/2018	4:55	1195.6
LTB17	5/10/2018	5:00	1136.1
LTB17	5/10/2018	5:05	1092.4

LTB Ponding Areas

LTB17	5/10/2018	5:10	1151.2
LTB17	5/10/2018	5:15	1428.3
LTB17	5/10/2018	5:20	1767.1
LTB17	5/10/2018	5:25	2011.7
LTB17	5/10/2018	5:30	2177.0
LTB17	5/10/2018	5:35	2272.8
LTB17	5/10/2018	5:40	2301.5
LTB17	5/10/2018	5:45	2269.7
LTB17	5/10/2018	5:50	2198.0
LTB17	5/10/2018	5:55	2104.5
LTB17	5/10/2018	6:00	1987.1
LTB17	5/10/2018	6:05	1865.0
LTB17	5/10/2018	6:10	1790.4
LTB17	5/10/2018	6:15	1756.4
LTB17	5/10/2018	6:20	1709.2
LTB17	5/10/2018	6:25	1655.8
LTB17	5/10/2018	6:30	1635.6
LTB17	5/10/2018	6:35	1597.0
LTB17	5/10/2018	6:40	1526.1
LTB17	5/10/2018	6:45	1442.6
LTB17	5/10/2018	6:50	1347.1
LTB17	5/10/2018	6:55	1259.2
LTB17	5/10/2018	7:00	1246.2
LTB17	5/10/2018	7:05	1313.2
LTB17	5/10/2018	7:10	1404.3
LTB17	5/10/2018	7:15	1500.6
LTB17	5/10/2018	7:20	1525.8
LTB17	5/10/2018	7:25	1496.8
LTB17	5/10/2018	7:30	1435.1
LTB17	5/10/2018	7:35	1358.1
LTB17	5/10/2018	7:40	1286.3
LTB17	5/10/2018	7:45	1214.7
LTB17	5/10/2018	7:50	1151.6
LTB17	5/10/2018	7:55	1119.3
LTB17	5/10/2018	8:00	1080.3
LTB17	5/10/2018	8:05	1018.5
LTB17	5/10/2018	8:10	946.5
LTB17	5/10/2018	8:15	872.8
LTB17	5/10/2018	8:20	799.4
LTB17	5/10/2018	8:25	727.7
LTB17	5/10/2018	8:30	659.4
LTB17	5/10/2018	8:35	591.4
LTB17	5/10/2018	8:40	528.7
LTB17	5/10/2018	8:45	474.7
LTB17	5/10/2018	8:50	426.4
LTB17	5/10/2018	8:55	383.9
LTB17	5/10/2018	9:00	347.6
LTB17	5/10/2018	9:05	316.4
LTB17	5/10/2018	9:10	288.7
LTB17	5/10/2018	9:15	263.4
LTB17	5/10/2018	9:20	240.1
LTB17	5/10/2018	9:25	218.0
LTB17	5/10/2018	9:30	197.1
LTB17	5/10/2018	9:35	177.7
LTB17	5/10/2018	9:40	159.4
LTB17	5/10/2018	9:45	141.8
LTB17	5/10/2018	9:50	125.0
LTB17	5/10/2018	9:55	109.0
LTB17	5/10/2018	10:00	94.1
LTB17	5/10/2018	10:05	80.5
LTB17	5/10/2018	10:10	68.7
LTB17	5/10/2018	10:15	60.1
LTB17	5/10/2018	10:20	53.3

LTB Ponding Areas

LTB17	5/10/2018	10:25	47.8
LTB17	5/10/2018	10:30	43.7
LTB17	5/10/2018	10:35	40.6
LTB17	5/10/2018	10:40	38.1
LTB17	5/10/2018	10:45	36.1
LTB17	5/10/2018	10:50	34.5
LTB17	5/10/2018	10:55	33.1
LTB17	5/10/2018	11:00	31.9
LTB17	5/10/2018	11:05	30.7
LTB17	5/10/2018	11:10	29.6
LTB17	5/10/2018	11:15	28.6
LTB17	5/10/2018	11:20	27.5
LTB17	5/10/2018	11:25	26.4
LTB17	5/10/2018	11:30	25.4
LTB17	5/10/2018	11:35	24.4
LTB17	5/10/2018	11:40	23.4
LTB17	5/10/2018	11:45	22.4
LTB17	5/10/2018	11:50	21.4
LTB17	5/10/2018	11:55	20.4
LTB17	5/10/2018	12:00	19.4
LTB17	5/10/2018	12:05	18.4
LTB17	5/10/2018	12:10	17.4
LTB17	5/10/2018	12:15	16.4
LTB17	5/10/2018	12:20	15.3
LTB17	5/10/2018	12:25	14.3
LTB17	5/10/2018	12:30	13.3
LTB17	5/10/2018	12:35	12.3
LTB17	5/10/2018	12:40	11.3
LTB17	5/10/2018	12:45	10.3
LTB17	5/10/2018	12:50	9.3
LTB17	5/10/2018	12:55	8.3
LTB17	5/10/2018	13:00	7.3
LTB17	5/10/2018	13:05	6.3
LTB17	5/10/2018	13:10	5.3
LTB17	5/10/2018	13:15	4.3
LTB17	5/10/2018	13:20	3.3
LTB17	5/10/2018	13:25	2.4
LTB17	5/10/2018	13:30	1.6
LTB17	5/10/2018	13:35	1.1
LTB17	5/10/2018	13:40	0.8
LTB17	5/10/2018	13:45	0.5
LTB17	5/10/2018	13:50	0.4
LTB17	5/10/2018	13:55	0.2
LTB17	5/10/2018	14:00	0.1
LTB17	5/10/2018	14:05	0.1
LTB17	5/10/2018	14:10	0.1
LTB17	5/10/2018	14:15	0.0
LTB17	5/10/2018	14:20	0.0
LTB17	5/10/2018	14:25	0.0
LTB17	5/10/2018	14:30	0.0
LTB17	5/10/2018	14:35	0.0
LTB17	5/10/2018	14:40	0.0
LTB17	5/10/2018	14:45	0.0
LTB17	5/10/2018	14:50	0.0
LTB17	5/10/2018	14:55	0.0
LTB17	5/10/2018	15:00	0.0
;			
LTB1*	5/10/2018	0:00	0.00
LTB1*	5/10/2018	0:05	0.01
LTB1*	5/10/2018	0:10	0.17
LTB1*	5/10/2018	0:15	1.01
LTB1*	5/10/2018	0:20	7.22
LTB1*	5/10/2018	0:25	36.80

LTB Ponding Areas

LTB1*	5/10/2018	0:30	91.40
LTB1*	5/10/2018	0:35	151.10
LTB1*	5/10/2018	0:40	200.74
LTB1*	5/10/2018	0:45	234.55
LTB1*	5/10/2018	0:50	255.01
LTB1*	5/10/2018	0:55	267.19
LTB1*	5/10/2018	1:00	273.68
LTB1*	5/10/2018	1:05	274.05
LTB1*	5/10/2018	1:10	267.74
LTB1*	5/10/2018	1:15	256.68
LTB1*	5/10/2018	1:20	245.28
LTB1*	5/10/2018	1:25	233.66
LTB1*	5/10/2018	1:30	224.86
LTB1*	5/10/2018	1:35	236.47
LTB1*	5/10/2018	1:40	299.40
LTB1*	5/10/2018	1:45	393.97
LTB1*	5/10/2018	1:50	473.32
LTB1*	5/10/2018	1:55	521.28
LTB1*	5/10/2018	2:00	544.88
LTB1*	5/10/2018	2:05	552.09
LTB1*	5/10/2018	2:10	546.92
LTB1*	5/10/2018	2:15	533.32
LTB1*	5/10/2018	2:20	519.69
LTB1*	5/10/2018	2:25	508.54
LTB1*	5/10/2018	2:30	532.61
LTB1*	5/10/2018	2:35	680.52
LTB1*	5/10/2018	2:40	867.02
LTB1*	5/10/2018	2:45	1004.85
LTB1*	5/10/2018	2:50	1064.48
LTB1*	5/10/2018	2:55	1077.35
LTB1*	5/10/2018	3:00	1059.22
LTB1*	5/10/2018	3:05	1054.10
LTB1*	5/10/2018	3:10	1104.33
LTB1*	5/10/2018	3:15	1078.34
LTB1*	5/10/2018	3:20	1048.01
LTB1*	5/10/2018	3:25	1079.21
LTB1*	5/10/2018	3:30	1166.50
LTB1*	5/10/2018	3:35	1236.22
LTB1*	5/10/2018	3:40	1257.61
LTB1*	5/10/2018	3:45	1244.34
LTB1*	5/10/2018	3:50	1200.78
LTB1*	5/10/2018	3:55	1149.76
LTB1*	5/10/2018	4:00	1095.34
LTB1*	5/10/2018	4:05	1044.79
LTB1*	5/10/2018	4:10	1009.60
LTB1*	5/10/2018	4:15	1076.45
LTB1*	5/10/2018	4:20	1361.39
LTB1*	5/10/2018	4:25	1707.30
LTB1*	5/10/2018	4:30	1958.16
LTB1*	5/10/2018	4:35	2128.87
LTB1*	5/10/2018	4:40	2229.56
LTB1*	5/10/2018	4:45	2262.80
LTB1*	5/10/2018	4:50	2234.81
LTB1*	5/10/2018	4:55	2165.97
LTB1*	5/10/2018	5:00	2074.82
LTB1*	5/10/2018	5:05	1959.40
LTB1*	5/10/2018	5:10	1839.11
LTB1*	5/10/2018	5:15	1766.09
LTB1*	5/10/2018	5:20	1733.50
LTB1*	5/10/2018	5:25	1687.63
LTB1*	5/10/2018	5:30	1635.51
LTB1*	5/10/2018	5:35	1616.62
LTB1*	5/10/2018	5:40	1579.16

LTB Ponding Areas

LTB1*	5/10/2018	5:45	1509.51
LTB1*	5/10/2018	5:50	1427.10
LTB1*	5/10/2018	5:55	1332.84
LTB1*	5/10/2018	6:00	1246.03
LTB1*	5/10/2018	6:05	1234.20
LTB1*	5/10/2018	6:10	1302.41
LTB1*	5/10/2018	6:15	1394.56
LTB1*	5/10/2018	6:20	1492.03
LTB1*	5/10/2018	6:25	1518.30
LTB1*	5/10/2018	6:30	1490.41
LTB1*	5/10/2018	6:35	1429.90
LTB1*	5/10/2018	6:40	1354.03
LTB1*	5/10/2018	6:45	1283.27
LTB1*	5/10/2018	6:50	1212.45
LTB1*	5/10/2018	6:55	1149.99
LTB1*	5/10/2018	7:00	1118.08
LTB1*	5/10/2018	7:05	1079.39
LTB1*	5/10/2018	7:10	1017.92
LTB1*	5/10/2018	7:15	946.13
LTB1*	5/10/2018	7:20	872.55
LTB1*	5/10/2018	7:25	799.19
LTB1*	5/10/2018	7:30	727.60
LTB1*	5/10/2018	7:35	659.30
LTB1*	5/10/2018	7:40	591.33
LTB1*	5/10/2018	7:45	528.65
LTB1*	5/10/2018	7:50	474.70
LTB1*	5/10/2018	7:55	426.36
LTB1*	5/10/2018	8:00	383.93
LTB1*	5/10/2018	8:05	347.57
LTB1*	5/10/2018	8:10	316.41
LTB1*	5/10/2018	8:15	288.67
LTB1*	5/10/2018	8:20	263.44
LTB1*	5/10/2018	8:25	240.10
LTB1*	5/10/2018	8:30	217.9616093
LTB1*	5/10/2018	8:35	197.0658439
LTB1*	5/10/2018	8:40	177.7220773
LTB1*	5/10/2018	8:45	159.4119094
LTB1*	5/10/2018	8:50	141.7596914
LTB1*	5/10/2018	8:55	124.9585609
LTB1*	5/10/2018	9:00	109.0144068
LTB1*	5/10/2018	9:05	94.05558147
LTB1*	5/10/2018	9:10	80.52914173
LTB1*	5/10/2018	9:15	68.67109888
LTB1*	5/10/2018	9:20	60.05020244
LTB1*	5/10/2018	9:25	53.27171568
LTB1*	5/10/2018	9:30	47.78838903
LTB1*	5/10/2018	9:35	43.71763236
LTB1*	5/10/2018	9:40	40.58096012
LTB1*	5/10/2018	9:45	38.0747269
LTB1*	5/10/2018	9:50	36.07162269
LTB1*	5/10/2018	9:55	34.5072098
LTB1*	5/10/2018	10:00	33.11329374
LTB1*	5/10/2018	10:05	31.88376532
LTB1*	5/10/2018	10:10	30.74536971
LTB1*	5/10/2018	10:15	29.63886913
LTB1*	5/10/2018	10:20	28.5607518
LTB1*	5/10/2018	10:25	27.49734724
LTB1*	5/10/2018	10:30	26.44776065
LTB1*	5/10/2018	10:35	25.41135112
LTB1*	5/10/2018	10:40	24.38719801
LTB1*	5/10/2018	10:45	23.37195741
LTB1*	5/10/2018	10:50	22.36497395
LTB1*	5/10/2018	10:55	21.35993148

LTB Ponding Areas

LTB1*	5/10/2018	11:00	20.35683007
LTB1*	5/10/2018	11:05	19.355334
LTB1*	5/10/2018	11:10	18.35383794
LTB1*	5/10/2018	11:15	17.35234187
LTB1*	5/10/2018	11:20	16.35084581
LTB1*	5/10/2018	11:25	15.34934974
LTB1*	5/10/2018	11:30	14.34785368
LTB1*	5/10/2018	11:35	13.34635761
LTB1*	5/10/2018	11:40	12.34486154
LTB1*	5/10/2018	11:45	11.34336548
LTB1*	5/10/2018	11:50	10.34186941
LTB1*	5/10/2018	11:55	9.340373347
LTB1*	5/10/2018	12:00	8.338877281
LTB1*	5/10/2018	12:05	7.337381215
LTB1*	5/10/2018	12:10	6.335885149
LTB1*	5/10/2018	12:15	5.334414215
LTB1*	5/10/2018	12:20	4.333268052
LTB1*	5/10/2018	12:25	3.334322444
LTB1*	5/10/2018	12:30	2.369187555
LTB1*	5/10/2018	12:35	1.593007579
LTB1*	5/10/2018	12:40	1.106446673
LTB1*	5/10/2018	12:45	0.773545312
LTB1*	5/10/2018	12:50	0.529221991
LTB1*	5/10/2018	12:55	0.350242331
LTB1*	5/10/2018	13:00	0.219837611
LTB1*	5/10/2018	13:05	0.129031129
LTB1*	5/10/2018	13:10	0.077955629
LTB1*	5/10/2018	13:15	0.054460032
LTB1*	5/10/2018	13:20	0.040180433
LTB1*	5/10/2018	13:25	0.03183643
LTB1*	5/10/2018	13:30	0.024461431
LTB1*	5/10/2018	13:35	0.018056087
LTB1*	5/10/2018	13:40	0.01262078
LTB1*	5/10/2018	13:45	0.008155729
LTB1*	5/10/2018	13:50	0.004661065
LTB1*	5/10/2018	13:55	0.002136862
LTB1*	5/10/2018	14:00	0.000583166
LTB1*	5/10/2018	14:05	0
LTB1*	5/10/2018	14:10	0
LTB1*	5/10/2018	14:15	0
LTB1*	5/10/2018	14:20	0
LTB1*	5/10/2018	14:25	0
LTB1*	5/10/2018	14:30	0
LTB1*	5/10/2018	14:35	0
LTB1*	5/10/2018	14:40	0
LTB1*	5/10/2018	14:45	0
LTB1*	5/10/2018	14:50	0
LTB1*	5/10/2018	14:55	0
LTB1*	5/10/2018	15:00	0

[REPORT]
 ;;Reporting Options
 INPUT NO
 CONTROLS NO
 SUBCATCHMENTS ALL
 NODES ALL
 LINKS ALL

[TAGS]

[MAP]
 DIMENSIONS 0.000 0.000 10000.000 10000.000
 Units None

LTB Ponding Areas

[COORDINATES] ;;Node ;;-----	X-Coord	Y-Coord
LTB1-O	9398.907	8005.464
LTB3-O	9441.887	7100.115
LTB4-O	9522.440	6398.159
LTB5-O	9510.932	5972.382
LTB7-O	9568.470	4579.977
LTB8-O	9591.484	3947.066
LTB9-O	9487.917	3314.154
LTB10-O	9499.425	2842.348
LTB11-O	9487.917	2428.078
LTB12-O	9487.917	1944.764
LTB13-O	9533.947	1438.435
LTB14-O	9510.932	1001.151
LTB15-O	9533.947	724.971
LTB16-O	9487.917	471.807
LTB1	8251.366	8073.770
LTB2	8268.124	7571.922
LTB3	8337.169	7157.652
LTB4	8417.722	6513.234
LTB5	8371.692	5949.367
LTB6	8360.184	5178.366
LTB7	8498.274	4637.514
LTB8	8452.244	4027.618
LTB9	8463.751	3417.722
LTB10	8498.274	2945.915
LTB11	8440.736	2543.153
LTB12	8429.229	1979.287
LTB13	8417.722	1588.032
LTB14	8383.199	1162.255
LTB15	8371.692	794.016
LTB16	8371.692	552.359
LTB17	8431.373	0.000
[VERTICES] ;;Link ;;-----	X-Coord	Y-Coord

LTB Ponding Areas

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

 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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed YES
 Water Quality NO
 Flow Routing Method DYNWAVE
 Starting Date 05/10/2018 00:00:00
 Ending Date 05/10/2018 23:00:00
 Antecedent Dry Days 0.0
 Report Time Step 00:00:05
 Routing Time Step 5.00 sec
 Variable Time Step YES
 Maximum Trials 8
 Number of Threads 1
 Head Tolerance 0.005000 ft

*****	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	2063.604	672.456
External Outflow	728.523	237.400
Flooding Loss	241.291	78.628
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	1093.784	356.426
Continuity Error (%)	0.000	

 Time-Step Critical Elements

Link LTB1 (36.26%)
 Link LTB9 (27.13%)
 Link LTB4 (10.31%)
 Link LTB8 (1.33%)
 Link LTB7 (1.28%)

LTB Ponding Areas

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step : 1.66 sec
 Average Time Step : 3.13 sec
 Maximum Time Step : 5.00 sec
 Percent in Steady State : -0.00
 Average Iterations per Step : 2.00
 Percent Not Converging : 0.00

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
LTB1-0	OUTFALL	2.54	8.10	9.79	0 04:59	8.10
LTB3-0	OUTFALL	0.70	1.26	8.92	0 02:41	1.26
LTB4-0	OUTFALL	0.33	1.10	13.68	0 02:15	1.10
LTB5-0	OUTFALL	0.54	1.24	11.74	0 02:15	1.24
LTB7-0	OUTFALL	0.35	0.88	4941.50	0 00:26	0.88
LTB8-0	OUTFALL	0.18	1.33	4927.69	0 00:11	1.33
LTB9-0	OUTFALL	0.96	1.33	13.16	0 00:48	1.28
LTB10-0	OUTFALL	0.20	1.94	4906.46	0 00:42	1.94
LTB11-0	OUTFALL	0.28	1.43	4899.16	0 00:33	1.43
LTB12-0	OUTFALL	0.26	0.94	11.94	0 02:15	0.94
LTB13-0	OUTFALL	0.21	1.30	4909.96	0 00:33	1.30
LTB14-0	OUTFALL	0.23	1.50	4903.78	0 00:29	1.50
LTB15-0	OUTFALL	0.16	1.42	4889.49	0 00:26	1.42
LTB16-0	OUTFALL	0.21	1.00	4893.04	0 00:50	1.00
LTB1	STORAGE	2.56	8.18	10.58	0 04:58	8.18
LTB2	STORAGE	3.78	4.00	4923.00	0 02:03	4.00
LTB3	STORAGE	1.97	4.40	12.48	0 02:41	4.40
LTB4	STORAGE	0.47	2.00	16.00	0 00:32	2.00
LTB5	STORAGE	1.60	4.00	15.00	0 00:45	4.00
LTB6	STORAGE	0.90	0.94	4922.94	0 03:10	0.94
LTB7	STORAGE	1.14	3.00	4944.10	0 00:15	3.00
LTB8	STORAGE	0.48	4.00	4932.33	0 00:11	4.00
LTB9	STORAGE	3.30	5.00	20.00	0 00:49	5.00
LTB10	STORAGE	0.20	1.97	4908.21	0 00:45	1.97
LTB11	STORAGE	0.92	5.00	4905.15	0 00:32	5.00
LTB12	STORAGE	0.79	3.00	14.33	0 00:33	3.00
LTB13	STORAGE	0.53	4.00	4913.07	0 00:32	4.00
LTB14	STORAGE	0.74	6.00	4910.59	0 00:30	6.00
LTB15	STORAGE	0.32	5.00	4894.23	0 00:41	5.00
LTB16	STORAGE	1.35	7.00	4900.70	0 00:51	7.00
LTB17	STORAGE	4.16	5.64	4884.64	0 14:15	5.64

Node Inflow Summary

LTB Ponding Areas

Total Inflow Volume Node gal	Flow Balance Error Percent	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10 ⁶ gal	10 ⁶
218	0.000	OUTFALL	0.00	2094.89	0 04:59	0	
2.41	0.000	OUTFALL	0.00	10.82	0 02:41	0	
0.858	0.000	OUTFALL	0.00	7.66	0 02:15	0	
1.83	0.000	OUTFALL	0.00	10.37	0 02:15	0	
0.739	0.000	OUTFALL	0.00	4.48	0 00:26	0	
0.837	0.000	OUTFALL	0.00	13.26	0 00:12	0	
4.54	0.000	OUTFALL	0.00	12.61	0 00:48	0	
2.38	0.000	OUTFALL	0.00	63.55	0 00:45	0	
1.47	0.000	OUTFALL	0.00	16.34	0 02:16	0	
0.628	0.000	OUTFALL	0.00	5.25	0 02:15	0	
0.77	0.000	OUTFALL	0.00	11.77	0 00:33	0	
1.16	0.000	OUTFALL	0.00	17.24	0 00:30	0	
1.6	0.000	OUTFALL	0.00	43.77	0 00:43	0	
0.601	0.000	OUTFALL	0.00	6.25	0 00:52	0	
218	0.001	STORAGE	2262.76	2262.76	0 04:45	218	
9.95	-0.001	STORAGE	250.47	250.47	0 00:50	9.95	
2.41	0.000	STORAGE	62.85	62.85	0 00:45	2.41	
1.17	-0.003	STORAGE	16.88	16.88	0 01:05	1.17	
6.33	-0.008	STORAGE	138.66	138.66	0 00:55	6.33	
6.36	0.000	STORAGE	302.09	302.09	0 00:35	6.36	
14.9	0.003	STORAGE	208.55	208.55	0 02:25	14.9	
8.79	0.004	STORAGE	407.78	407.78	0 00:35	8.79	
48.4	0.001	STORAGE	800.59	800.59	0 01:20	48.4	
2.38	0.005	STORAGE	63.55	63.55	0 00:45	2.38	
4.38	-0.016	STORAGE	113.01	113.01	0 00:50	4.38	

		LTB Ponding Areas					
LTB12		STORAGE	38.50	38.50	0	00:55	1.89
1.89	-0.022						
LTB13		STORAGE	25.63	25.63	0	00:45	1.07
1.07	-0.010						
LTB14		STORAGE	57.56	57.56	0	00:45	2.12
2.12	-0.024						
LTB15		STORAGE	49.81	49.81	0	00:40	1.63
1.63	-0.001						
LTB16		STORAGE	27.93	27.93	0	00:40	0.873
0.873	-0.057						
LTB17		STORAGE	2301.45	2301.45	0	05:40	342
342	0.000						

Node Surcharge Summary

No nodes were surcharged.

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 Poned Depth Feet
LTB2	3.20	94.91	0 02:03	2.024	0.000
LTB4	2.33	9.22	0 01:05	0.309	0.000
LTB5	3.27	128.29	0 00:55	4.498	0.000
LTB7	5.60	204.07	0 02:25	14.202	0.000
LTB8	2.00	394.49	0 00:35	7.957	0.000
LTB9	6.23	787.94	0 01:20	43.884	0.000
LTB11	2.39	96.66	0 00:50	2.910	0.000
LTB12	3.19	33.25	0 00:55	1.266	0.000
LTB13	1.35	13.86	0 00:45	0.305	0.000
LTB14	1.56	40.42	0 00:45	0.966	0.000
LTB15	0.32	5.94	0 00:41	0.030	0.000
LTB16	1.16	19.71	0 00:51	0.273	0.000

Storage Volume Summary

of Max Occurrence Storage Unit hr:min	Maximum Outflow CFS	Average Volume 1000 ft3	Avg Pcmt Full	Evap Loss	Exfil Loss	Maximum Volume 1000 ft3	Max Pcmt Full	Time days
LTB1		36.832	2	0	0	517.149	22	0

LTB Ponding Areas

04:58	2094.89							
LTB2		998.987	94	0	0	1059.987	100	0
02:03	0.00							
LTB3		74.358	25	0	0	223.393	76	0
02:41	10.82							
LTB4		0.116	18	0	0	0.626	100	0
00:32	7.66							
LTB5		31.286	32	0	0	97.600	100	0
00:45	10.37							
LTB6		814.530	26	0	0	850.234	28	0
03:10	0.00							
LTB7		0.991	37	0	0	2.691	100	0
00:15	4.48							
LTB8		0.145	11	0	0	1.266	100	0
00:11	13.26							
LTB9		160.710	60	0	0	268.179	100	0
00:49	12.61							
LTB10		0.037	0	0	0	0.392	1	0
00:45	63.55							
LTB11		2.983	17	0	0	17.979	100	0
00:32	16.34							
LTB12		2.029	24	0	0	8.607	100	0
00:33	5.25							
LTB13		0.426	11	0	0	3.968	100	0
00:32	11.77							
LTB14		0.668	10	0	0	6.381	100	0
00:30	17.24							
LTB15		0.205	4	0	0	5.399	100	0
00:41	43.77							
LTB16		4.707	14	0	0	32.911	100	0
00:51	6.25							
LTB17		33510.114	28	0	0	45736.757	38	0
14:15	0.00							

 Outfall Loading Summary

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10 ⁶ gal
LTB1-O	75.56	705.85	2094.89	217.557
LTB3-O	70.42	7.56	10.82	2.414
LTB4-O	48.45	3.92	7.66	0.858
LTB5-O	52.60	8.15	10.37	1.833
LTB7-O	47.62	3.59	4.48	0.739
LTB8-O	18.22	9.06	13.26	0.837
LTB9-O	84.88	10.70	12.61	4.545
LTB10-O	29.71	15.94	63.55	2.380
LTB11-O	32.57	9.44	16.34	1.466
LTB12-O	39.12	3.54	5.25	0.628
LTB13-O	37.05	4.22	11.77	0.770
LTB14-O	28.27	8.27	17.24	1.158
LTB15-O	25.17	12.50	43.77	1.597
LTB16-O	25.87	4.92	6.25	0.601
System	43.97	807.66	2134.89	237.382

LTB Ponding Areas

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
LTB1	CONDUIT	2094.89	0	04:59	16.08	0.94	0.76
LTB3	CONDUIT	10.82	0	02:41	7.02	2.98	0.94
LTB4	CONDUIT	7.66	0	02:15	6.40	1.30	0.94
LTB5	CONDUIT	10.37	0	02:15	6.75	2.60	0.94
LTB7	CONDUIT	4.48	0	00:26	5.84	2.37	0.94
LTB8	CONDUIT	13.26	0	00:12	9.54	1.53	1.00
LTB9	CONDUIT	12.61	0	00:48	9.12	1.49	1.00
LTB10	CONDUIT	63.55	0	00:45	9.38	1.02	0.78
LTB11	CONDUIT	16.34	0	02:16	9.31	1.60	0.98
LTB12	CONDUIT	5.25	0	02:15	5.17	2.72	0.90
LTB13	CONDUIT	11.77	0	00:33	6.85	2.80	0.93
LTB14	CONDUIT	17.24	0	00:30	9.80	1.73	1.00
LTB15	CONDUIT	43.77	0	00:43	10.92	1.96	0.89
LTB16	CONDUIT	6.25	0	00:52	8.00	2.18	1.00

Flow Classification Summary

Inlet Conduit Ctrl	Adjusted /Actual Length	----- Fraction of Time in Flow Class							
		Up Dry	Down Dry	Sub Dry	Sup Crit	Up Crit	Down Crit	Norm Ltd	
LTB1	1.00	0.19	0.00	0.00	0.54	0.27	0.00	0.00	0.14
LTB3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
LTB4	1.00	0.01	0.00	0.00	0.67	0.32	0.00	0.00	0.15
LTB5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
LTB7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
LTB8	1.00	0.00	0.00	0.00	0.89	0.11	0.00	0.00	0.03
LTB9	1.00	0.00	0.00	0.00	0.85	0.15	0.00	0.00	0.04
LTB10	1.00	0.00	0.00	0.00	0.81	0.19	0.00	0.00	0.12
LTB11	1.00	0.00	0.00	0.00	0.82	0.18	0.00	0.00	0.03
LTB12	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
LTB13	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
LTB14	1.00	0.00	0.00	0.00	0.82	0.18	0.00	0.00	0.06

LTB Ponding Areas										
0.00										
LTB15	1.00	0.00	0.00	0.00	0.90	0.10	0.00	0.00	0.00	0.04
0.00										
LTB16	1.00	0.00	0.00	0.00	0.92	0.08	0.00	0.00	0.00	0.00
0.00										

 Conduit Surcharge Summary

Conduit	----- Both Ends	Hours Full Upstream	----- Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
LTB3	0.01	9.88	0.01	10.26	0.01
LTB4	0.01	2.82	0.01	2.95	0.01
LTB5	0.01	6.95	0.01	7.00	0.01
LTB7	0.01	6.15	0.01	6.16	0.01
LTB8	0.01	2.21	0.01	2.23	0.01
LTB9	7.32	13.71	7.32	13.91	7.32
LTB10	0.01	0.01	0.01	0.16	0.01
LTB11	0.01	3.32	0.01	3.33	0.01
LTB12	0.01	4.57	0.01	4.60	0.01
LTB13	0.01	2.26	0.01	2.62	0.01
LTB14	1.73	2.25	1.73	2.27	1.73
LTB15	0.01	1.03	0.01	1.17	0.01
LTB16	0.19	3.68	0.19	3.69	0.19

Analysis begun on: Tue Nov 13 14:10:48 2018
 Analysis ended on: Tue Nov 13 14:10:49 2018
 Total elapsed time: 00:00:01

EAST ST VRRAIN CREEK BASIN CALCULATIONS



JVA Incorporated
213 Linden Street Suite 200
Fort Collins, CO 80524
Ph: (970) 225 9099

Job Name: Town of Mead - Drainage Master Plan Update
Job Number: 1970.76c
Date: 11/13/18
By: LAT

Town of Mead - Drainage Master Plan Update

Composite Runoff Coefficient Calculations East St Vrain Creek Basin

Location: Mead
Minor Design Storm: 10
Major Design Storm: 100
Soil Type: C/D

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_{10} = 0.84i^{1.302}$	$C_{10} = 0.86i^{1.276}$	$C_{10} = 0.87i^{1.232}$	$C_{10} = 0.84i^{1.124}$	$C_{10} = 0.85i+0.025$	$C_{10} = 0.78i+0.110$	$C_{10} = 0.65i+0.254$
B	$C_{10} = 0.84i^{1.189}$	$C_{10} = 0.86i^{1.089}$	$C_{10} = 0.81i+0.057$	$C_{10} = 0.63i+0.249$	$C_{10} = 0.56i+0.328$	$C_{10} = 0.47i+0.426$	$C_{10} = 0.37i+0.536$
C/D	$C_{10} = 0.83i^{1.122}$	$C_{10} = 0.82i+0.035$	$C_{10} = 0.74i+0.132$	$C_{10} = 0.56i+0.319$	$C_{10} = 0.49i+0.393$	$C_{10} = 0.41i+0.484$	$C_{10} = 0.32i+0.588$

Basin Design Data																									Runoff Coeff's				
Basin Name	Design Point	100%	90%	40%	90%	95%	85%	80%	50%	55%	50%	45%	30%	20%	10%	2%	2%	100%	A _{Total} (sf)	A _{Total} (ac)	Imp (%)	C2	C5	C10	C100				
ESVCB1	150	238,572				1,151,547		1,665,545									189,087		3,244,751	74.49	82.2%	0.67	0.71	0.74	0.82				
ESVCB2	151	136,688				571,396		2,270,654									1,123		2,979,861	68.41	83.8%	0.68	0.72	0.75	0.83				
ESVCB3	152	89,659				282,161											263,846		635,666	14.59	57.1%	0.44	0.50	0.55	0.72				
ESVCB4	153	714,467		105,859		1,003,732							94,115				4,876,833		6,795,006	155.99	26.9%	0.19	0.26	0.33	0.59				
ESVCB5	154							26,946					137,543				628,515		793,004	18.20	7.8%	0.05	0.10	0.19	0.52				
ESVCB6	155	492,257		107,254				2,648,353									3,263,985		6,511,849	149.49	41.8%	0.31	0.38	0.44	0.66				
ESVCB7	156	142,156		89,454				176,328									1,200,873		1,608,811	36.93	21.3%	0.15	0.21	0.29	0.57				
ESVCB8	157	213,985		839,479								250,753		79,200			12,721,679		14,105,096	323.81	6.7%	0.04	0.09	0.18	0.51				
ESVCB9	158	203,139		269,551								1,102,024					1,265,427		2,840,141	65.20	31.2%	0.22	0.29	0.36	0.61				
ESVCB10	159			685,187								71,853		230,344			5,803,612		6,790,996	155.90	7.0%	0.04	0.09	0.18	0.51				
ESVCB11	160	82,955		113,028													2,967,647		3,163,630	72.63	5.9%	0.03	0.08	0.18	0.51				
ESVCB12	161	282,783		517,347													5,102,702	200,144	6,102,976	140.11	13.0%	0.08	0.14	0.23	0.54				
ESVCB13	162	280,383		116,994													854,785		1,252,162	28.75	27.5%	0.19	0.26	0.34	0.60				
ESVCB14	163	406,051		421,777								1,685,506					2,040,931		4,554,265	104.55	30.2%	0.22	0.28	0.36	0.61				
ESVCB15	164			463,492													3,323,976	4,243,127	8,030,595	184.36	56.0%	0.43	0.49	0.55	0.71				
ESVCB16	165	10,344		839,424								564,639					15,327,438		16,741,845	384.34	5.6%	0.03	0.08	0.17	0.51				
ESVCB17	166	159,275		144,649													3,985,334		4,289,258	98.47	6.9%	0.04	0.09	0.18	0.51				
ESVCB18	167	56,273		164,296								52,860					4,046,805		4,320,234	99.18	5.3%	0.03	0.08	0.17	0.51				
ESVCB19	168	44,763															395,159	92,981	532,903	12.23	27.3%	0.19	0.26	0.33	0.60				
ESVCB20	169	39,505		55,599										737,951			58,287		891,342	20.46	23.6%	0.16	0.23	0.31	0.58				
ESVCB21	171	286,577		480,685								212,858		268,453			10,715,190		11,963,763	274.65	7.1%	0.04	0.09	0.18	0.51				
ESVCB22	172	406,307		136,340									2,743,836				2,077,316		5,363,799	123.14	19.6%	0.13	0.20	0.28	0.56				
ESVCB23	173	128,647		326,855									92,671				6,359,200		6,907,373	158.57	5.9%	0.03	0.08	0.18	0.51				
ESVCB24	174	416,203		455,817								45,220		359,309			12,603,998		13,880,547	318.65	6.8%	0.04	0.09	0.18	0.51				
ESVCB25	175	36,478		41,303								115,087					963,590		1,156,458	26.55	11.2%	0.07	0.13	0.22	0.53				
																			0	0.00									
																			0	0.00									
TOTAL SITE		4,867,467	0	6,374,390	0	3,008,836	0	6,787,826	0	0	2,415,294	1,685,506	0	4,743,422	0	0	101,037,338	4,636,252	135,456,331	3109.65	18.6%	0.13	0.19	0.27	0.56				

Subcatchment Name	EPA SWMM Target Node	Raingage	Area (mi ²)	Length to Centroid (mi)	Length (mi)	Slope (ft/ft)	Percent Imperviousness	Pervious	Impervious	Initial Rate (in/hr)	Decay Coefficient (1/seconds)	Final Rate (in/hr)	Level 0, 1, or 2
ESVCB1	150	100yr	0.1163894	0.231818182	0.4869318	0.009424349	82.24851121	0.35	0.1	3	0.0018	0.5	0
ESVCB2	151	100yr	0.1068878	0.409848485	0.6494318	0.005888014	83.76430511	0.35	0.1	3	0.0018	0.5	0
ESVCB3	152	100yr	0.0228014	0.101136364	0.3676136	0.009799073	57.10371012	0.35	0.1	3	0.0018	0.5	0
ESVCB4	153	100yr	0.2437373	0.603977273	0.7204545	0.012896951	26.88320893	0.35	0.1	3	0.0018	0.5	0
ESVCB5	154	100yr	0.0284451	0.156439394	0.2742424	0.012120166	7.772432422	0.4	0.1	3	0.0018	0.5	0
ESVCB6	155	100yr	0.2335804	0.599242424	0.8318182	0.010701275	41.75650725	0.35	0.1	3	0.0018	0.5	0
ESVCB7	156	100yr	0.0577082	0.291477273	0.4450758	0.01313617	21.32117819	0.4	0.1	3	0.0018	0.5	0
ESVCB8	157	100yr	0.5059507	0.49375	1.3041667	0.012205925	6.702731268	0.4	0.1	3	0.0018	0.5	0
ESVCB9	158	100yr	0.101876	0.330492424	0.6458333	0.013193548	31.24070037	0.35	0.1	3	0.0018	0.5	0
ESVCB10	159	100yr	0.2435935	0.150378788	0.6212121	0.023213415	6.952475602	0.4	0.1	3	0.0018	0.5	0
ESVCB11	160	100yr	0.1134796	0.257765152	0.5323864	0.013041622	5.927341061	0.4	0.1	3	0.0018	0.5	0
ESVCB12	161	100yr	0.2189141	0.347727273	0.6289773	0.034760614	12.97596189	0.4	0.1	3	0.0018	0.5	0
ESVCB13	162	100yr	0.0449151	0.198106061	0.41875	0.045933967	27.49454943	0.4	0.1	3	0.0018	0.5	0
ESVCB14	163	100yr	0.1633618	0.197537879	0.4844697	0.028530102	30.17079858	0.35	0.1	3	0.0018	0.5	0
ESVCB15	164	100yr	0.288058	0.663068182	0.98125	0.0437	55.97347793	0.35	0.1	3	0.0018	0.5	0
ESVCB16	165	100yr	0.6005311	0.616287879	1.325	0.015621784	5.584700253	0.4	0.1	3	0.0018	0.5	0
ESVCB17	166	100yr	0.153856	0.334659091	0.8160985	0.019029937	6.920574141	0.4	0.1	3	0.0018	0.5	0
ESVCB18	167	100yr	0.1549671	0.327462121	0.8890152	0.02005539	5.308913823	0.4	0.1	3	0.0018	0.5	0
ESVCB19	168	100yr	0.0191153	0.078977273	0.2535985	0.009208633	27.33089887	0.4	0.1	3	0.0018	0.5	0
ESVCB20	169	100yr	0.0319725	0.211363636	0.4784091	0.026128266	23.61613612	0.35	0.1	3	0.0018	0.5	0
ESVCB21	171	100yr	0.4291409	0.740340909	1.6024621	0.01301501	7.132157332	0.4	0.1	3	0.0018	0.5	0
ESVCB22	172	100yr	0.1923998	0.252462121	0.8253788	0.005665443	19.5972392	0.35	0.1	3	0.0018	0.5	0
ESVCB23	173	100yr	0.2477679	0.23030303	0.8628788	0.013035558	5.864851949	0.4	0.1	3	0.0018	0.5	0
ESVCB24	174	100yr	0.4978961	0.6875	1.0195076	0.00464425	6.808676632	0.4	0.1	3	0.0018	0.5	0
ESVCB25	175	100yr	0.0414822	0.108522727	0.2861742	0.019854401	11.22518068	0.4	0.1	3	0.0018	0.5	0

EAST ST VRAIN CREEK BASIN

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			Percent Eff. Imperv.
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in./hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	
ESVCB1	150	100YR	0.116	0.232	0.487	0.009	82.2	0.35	0.10	3.00	0.50	0.0018	0.00	0.94	0.34	81.75
ESVCB2	151	100YR	0.107	0.410	0.649	0.006	83.8	0.35	0.10	3.00	0.50	0.0018	0.00	0.95	0.35	83.30
ESVCB3	152	100YR	0.023	0.101	0.368	0.010	57.1	0.35	0.10	3.00	0.50	0.0018	0.00	0.89	0.26	56.33
ESVCB4	153	100YR	0.244	0.604	0.720	0.013	26.9	0.35	0.10	3.00	0.50	0.0018	0.00	0.54	0.16	25.72
ESVCB5	154	100YR	0.028	0.156	0.274	0.012	7.8	0.40	0.10	3.00	0.50	0.0018	0.00	0.16	0.08	7.11
ESVCB6	155	100YR	0.234	0.599	0.832	0.011	41.8	0.35	0.10	3.00	0.50	0.0018	0.00	0.81	0.21	40.85
ESVCB7	156	100YR	0.058	0.291	0.445	0.013	21.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.43	0.14	20.20
ESVCB8	157	100YR	0.506	0.494	1.304	0.012	6.7	0.40	0.10	3.00	0.50	0.0018	0.00	0.13	0.07	6.12
ESVCB9	158	100YR	0.102	0.330	0.646	0.013	31.2	0.35	0.10	3.00	0.50	0.0018	0.00	0.62	0.17	30.09
ESVCB10	159	100YR	0.244	0.150	0.621	0.023	7.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.14	0.07	6.35
ESVCB11	160	100YR	0.113	0.258	0.532	0.013	5.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.41
ESVCB12	161	100YR	0.219	0.348	0.629	0.035	13.0	0.40	0.10	3.00	0.50	0.0018	0.00	0.26	0.11	12.05
ESVCB13	162	100YR	0.045	0.198	0.419	0.046	27.5	0.40	0.10	3.00	0.50	0.0018	0.00	0.55	0.16	26.33
ESVCB14	163	100YR	0.163	0.198	0.484	0.029	30.2	0.35	0.10	3.00	0.50	0.0018	0.00	0.60	0.17	29.01
ESVCB15	164	100YR	0.288	0.663	0.981	0.044	56.0	0.35	0.10	3.00	0.50	0.0018	0.00	0.88	0.25	55.19
ESVCB16	165	100YR	0.601	0.616	1.325	0.016	5.6	0.40	0.10	3.00	0.50	0.0018	0.00	0.11	0.06	5.09
ESVCB17	166	100YR	0.154	0.335	0.816	0.019	6.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.14	0.07	6.32
ESVCB18	167	100YR	0.155	0.327	0.889	0.020	5.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.11	0.05	4.84
ESVCB19	168	100YR	0.019	0.079	0.254	0.009	27.3	0.40	0.10	3.00	0.50	0.0018	0.00	0.55	0.16	26.16
ESVCB20	169	100YR	0.032	0.211	0.478	0.026	23.6	0.35	0.10	3.00	0.50	0.0018	0.00	0.47	0.14	22.47
ESVCB21	171	100YR	0.429	0.740	1.602	0.013	7.1	0.40	0.10	3.00	0.50	0.0018	0.00	0.14	0.07	6.52
ESVCB22	172	100YR	0.192	0.252	0.825	0.006	19.6	0.35	0.10	3.00	0.50	0.0018	0.00	0.39	0.13	18.51
ESVCB23	173	100YR	0.248	0.230	0.863	0.013	5.9	0.40	0.10	3.00	0.50	0.0018	0.00	0.12	0.06	5.35
ESVCB24	174	100YR	0.498	0.688	1.020	0.005	6.8	0.40	0.10	3.00	0.50	0.0018	0.00	0.14	0.07	6.22
ESVCB25	175	100YR	0.041	0.109	0.286	0.020	11.2	0.40	0.10	3.00	0.50	0.0018	0.00	0.22	0.10	10.36

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
ESVCB1		0.077	0.245	15.8	4.46	8.2	3.15	7.4	221	270,396	2.74	741,770	35.0	280	739,602	3.75
ESVCB2		0.076	0.236	27.5	6.48	14.3	4.58	10.8	117	248,322	2.76	685,743	40.0	181	685,170	2.64
ESVCB3		0.085	0.105	23.9	3.42	12.4	2.42	5.7	29	52,972	2.44	129,368	40.0	38	128,458	2.60
ESVCB4		0.104	0.187	49.5	8.61	25.7	6.08	14.3	148	566,251	2.08	1,180,170	50.0	227	1,179,090	1.46
ESVCB5		0.137	0.083	48.8	4.63	25.4	3.27	7.7	17	66,084	1.82	120,018	50.0	24	119,773	1.31
ESVCB6		0.093	0.244	37.9	8.61	19.7	6.08	14.3	185	542,654	2.26	1,226,428	50.0	280	1,225,844	1.87
ESVCB7		0.110	0.101	54.3	5.71	28.2	4.03	9.5	32	134,068	1.98	265,428	50.0	47	265,318	1.29
ESVCB8		0.140	0.266	57.7	13.27	30.0	9.38	22.1	263	1,175,425	1.80	2,120,174	60.0	389	2,120,354	1.20
ESVCB9		0.099	0.146	43.0	6.32	22.3	4.47	10.5	71	236,678	2.14	505,408	50.0	106	505,577	1.63
ESVCB10		0.139	0.212	24.4	5.47	12.7	3.86	9.1	300	565,916	1.81	1,022,411	40.0	344	1,021,105	2.20
ESVCB11		0.143	0.162	45.2	7.12	23.5	5.03	11.9	75	263,636	1.79	473,166	50.0	102	472,832	1.40
ESVCB12		0.122	0.185	33.4	6.26	17.4	4.42	10.4	196	508,581	1.88	955,210	45.0	253	955,728	1.80
ESVCB13		0.103	0.093	32.8	3.85	17.1	2.72	6.4	41	104,347	2.06	214,443	40.0	54	213,575	1.87
ESVCB14		0.100	0.177	20.3	4.25	10.5	3.00	7.1	242	379,522	2.12	805,643	40.0	280	800,449	2.68
ESVCB15		0.086	0.301	23.0	6.83	12.0	4.83	11.4	375	669,216	2.43	1,625,354	40.0	515	1,626,130	2.79
ESVCB16		0.144	0.286	58.1	14.27	30.2	10.09	23.8	310	1,395,154	1.79	2,498,451	60.0	459	2,497,745	1.19
ESVCB17		0.140	0.182	50.0	8.47	26.0	5.99	14.1	92	357,438	1.81	645,632	55.0	129	644,980	1.31
ESVCB18		0.145	0.189	51.0	8.88	26.5	6.28	14.8	91	360,020	1.79	643,577	55.0	127	643,010	1.28
ESVCB19		0.103	0.063	36.1	3.25	18.8	2.30	5.4	16	44,409	2.05	91,175	45.0	21	90,705	1.75
ESVCB20		0.107	0.077	52.1	4.58	27.1	3.24	7.6	18	74,279	2.05	151,969	50.0	28	151,724	1.36
ESVCB21		0.139	0.250	79.9	16.88	41.6	11.93	28.1	161	996,980	1.81	1,803,268	70.0	258	1,803,308	0.94
ESVCB22		0.112	0.172	50.0	8.10	26.0	5.72	13.5	115	446,983	2.00	893,531	50.0	173	892,713	1.41
ESVCB23		0.143	0.218	40.1	8.22	20.9	5.81	13.7	185	575,614	1.79	1,032,680	50.0	245	1,031,685	1.55
ESVCB24		0.140	0.264	76.1	16.92	39.6	11.96	28.2	196	1,156,712	1.80	2,087,842	70.0	311	2,087,588	0.98
ESVCB25		0.125	0.092	30.9	3.68	16.1	2.60	6.1	40	96,372	1.86	178,955	40.0	49	178,179	1.84

Printouts for Unit Hydrographs

flow in cfs

time in minutes	ESVCB1	ESVCB2	ESVCB3	ESVCB4	ESVCB5	ESVCB6	ESVCB7	ESVCB8	ESVCB9	ESVCB10	ESVCB11	ESVCB12	ESVCB13	ESVCB14	ESVCB15	ESVCB16	ESVCB17	ESVCB18	ESVCB19	ESVCB20	ESVCB21	ESVCB22	ESVCB23	ESVCB24	ESVCB25
5	188.26	70.15	28.05	60.98	14.46	76.46	22.06	56.40	44.08	215.69	40.28	123.01	38.24	212.67	211.46	59.42	38.99	36.01	15.77	15.36	23.36	51.96	81.69	28.44	38.35
10	207.11	115.91	27.32	128.83	17.42	161.25	31.89	153.65	70.89	299.22	72.66	195.94	40.39	232.75	367.57	165.49	81.39	77.88	15.59	18.38	68.47	104.65	166.45	83.15	39.44
15	143.81	111.33	22.45	147.64	17.00	184.70	31.49	225.16	70.03	266.46	74.71	190.29	37.36	178.64	351.25	251.35	92.27	91.22	14.55	17.98	112.76	115.26	184.95	137.04	35.91
20	104.58	90.53	18.54	144.63	16.12	176.85	30.40	259.68	66.15	209.51	71.61	169.63	31.85	143.01	266.23	299.28	90.33	89.72	12.78	17.18	142.33	112.45	177.19	173.14	29.91
25	80.22	75.95	15.12	136.84	14.81	156.58	28.63	261.75	59.49	172.34	65.76	141.75	27.81	113.20	214.39	309.94	85.50	85.43	11.17	15.98	158.26	106.14	159.21	192.69	26.25
30	55.86	63.00	12.79	124.28	13.07	132.65	26.18	253.43	51.85	141.61	57.16	124.48	24.31	92.93	173.89	302.82	77.79	78.34	9.95	14.37	160.87	96.31	135.55	195.99	22.59
35	40.01	53.70	10.79	109.04	12.08	117.91	23.50	237.39	47.11	120.60	51.99	107.21	20.80	72.66	145.48	286.11	68.31	68.48	8.74	13.13	158.87	84.94	121.79	193.22	19.43
40	31.89	46.42	8.78	100.35	11.09	103.17	21.86	213.62	42.37	99.58	47.20	93.46	18.61	52.38	117.07	259.83	62.94	63.23	7.69	12.16	154.58	78.26	108.04	187.25	17.27
45	23.77	39.13	6.78	91.66	10.11	90.16	20.23	191.05	37.63	78.56	42.41	83.54	16.55	42.94	88.66	229.06	57.58	58.01	6.97	11.18	148.00	71.59	94.29	178.06	15.11
50	15.65	31.84	5.41	82.97	9.12	81.84	18.59	177.24	34.01	59.18	37.62	73.62	14.48	36.18	70.12	212.69	52.22	52.79	6.24	10.21	139.12	64.92	85.74	165.66	12.95
55	7.53	24.56	4.75	74.28	8.37	73.51	16.96	163.43	31.24	52.17	34.83	63.71	12.41	29.43	60.65	196.33	46.85	47.58	5.52	9.23	127.96	58.25	77.90	150.05	10.79
60	0.00	21.33	4.08	69.07	7.79	65.19	15.58	149.62	28.48	45.17	32.05	53.79	10.34	22.67	51.18	179.96	43.46	43.73	4.79	8.64	118.10	54.16	70.07	140.67	8.63
65		18.90	3.41	64.06	7.20	56.86	14.61	135.81	25.71	38.16	29.26	43.87	8.27	15.91	41.71	163.59	40.36	40.72	4.07	8.06	112.07	50.29	62.23	132.91	7.53
70		16.47	2.75	59.04	6.61	48.54	13.64	126.14	22.95	31.16	26.48	37.50	7.54	9.15	32.24	150.69	37.25	37.71	3.34	7.48	106.05	46.42	54.39	125.14	6.81
75		14.04	2.08	54.02	6.02	40.22	12.67	118.35	20.18	24.15	23.69	34.20	6.85	2.39	22.77	141.51	34.15	34.70	2.99	6.90	100.03	42.55	46.55	117.37	6.09
80		11.62	1.41	49.01	5.43	35.27	11.70	110.56	17.42	17.14	20.91	30.89	6.16	0.00	13.30	132.34	31.05	31.69	2.75	6.32	94.01	38.68	38.71	109.61	5.37
85		9.19	0.75	43.99	4.84	32.50	10.73	102.77	14.65	10.14	18.12	27.59	5.47		3.83	123.17	27.95	28.68	2.51	5.74	87.98	34.81	34.99	101.84	4.65
90		6.76	0.08	38.97	4.25	29.72	9.76	94.98	13.45	3.13	15.34	24.28	4.78		0.00	113.99	24.84	25.66	2.27	5.16	81.96	30.94	32.38	95.82	3.93
95		4.33	0.00	33.95	3.66	26.95	8.79	87.18	12.53	0.00	14.22	20.98	4.09			104.82	21.74	22.65	2.03	4.58	77.91	27.07	29.77	91.43	3.21
100		1.90		29.34	3.35	24.17	7.82	79.39	11.60		13.29	17.67	3.40			95.65	18.64	19.64	1.79	3.99	74.49	23.20	27.16	87.03	2.49
105		0.00		27.66	3.16	21.40	6.85	71.60	10.68		12.36	14.37	2.71			86.47	17.49	17.71	1.54	3.59	71.06	21.83	24.54	82.64	1.77
110				25.99	2.96	18.62	6.21	63.81	9.76		11.43	11.06	2.02			77.30	16.45	16.70	1.30	3.40	67.64	20.54	21.93	78.24	1.05
115				24.32	2.77	15.85	5.89	56.02	8.84		10.50	7.75	1.33			68.13	15.42	15.70	1.06	3.21	64.22	19.25	19.32	73.84	0.33
120				22.65	2.57	13.07	5.57	51.15	7.92		9.58	4.45	0.64			61.01	14.39	14.69	0.82	3.01	60.79	17.96	16.70	69.45	0.00
125				20.97	2.37	10.30	5.24	48.55	7.00		8.65	1.14	0.00			57.96	13.35	13.69	0.58	2.82	57.37	16.67	14.09	65.05	
130				19.30	2.18	7.52	4.92	45.95	6.07		7.72	0.00				54.90	12.32	12.69	0.34	2.63	53.94	15.38	11.48	60.66	
135				17.63	1.98	4.75	4.60	43.35	5.15		6.79					51.84	11.28	11.68	0.09	2.43	50.52	14.09	8.86	56.26	
140				15.96	1.79	1.97	4.27	40.76	4.23		5.86					48.78	10.25	10.68	0.00	2.24	47.09	12.80	6.25	51.87	
145				14.28	1.59	0.00	3.95	38.16	3.31		4.93					45.72	9.22	9.68		2.04	43.67	11.51	3.64	47.47	
150				12.61	1.39		3.63	35.56	2.39		4.01					42.67	8.18	8.67		1.85	40.24	10.22	1.02	43.08	
155				10.94	1.20		3.30	32.96	1.47		3.08					39.61	7.15	7.67		1.66	36.82	8.93	0.00	39.05	
160				9.27	1.00		2.98	30.37	0.54		2.15					36.55	6.11	6.66		1.46	33.39	7.64		37.59	
165				7.59	0.80		2.66	27.77	0.00		1.22					33.49	5.08	5.66		1.27	31.46	6.35		36.12	
170				5.92	0.61		2.33	25.17			0.29					30.43	4.04	4.66		1.08	30.32	5.07		34.66	
175				4.25	0.41		2.01	22.57			0.00					27.38	3.01	3.65		0.88	29.18	3.78		33.19	
180				2.58	0.22		1.69	19.98								24.32	1.98	2.65		0.69	28.04	2.49		31.73	
185				0.90	0.02		1.36	17.38								21.26	0.94	1.64		0.49	26.89	1.20		30.26	
190				0.00	0.00		1.04	14.78								18.20	0.00	0.64		0.30	25.75	0.00		28.80	
195							0.72	12.19								15.15		0.00		0.11	24.61			27.33	
200							0.39	9.59								12.09				0.00	23.47			25.87	
205							0.07	6.99								9.03					22.33			24.40	
210							0.00	4.39								5.97					21.19			22.94	
215								1.80								2.91					20.05			21.47	
220								0.00								0.00					18.90			20.01	
225																					17.76			18.54	
230																					16.62			17.08	
235																					15.48			15.61	
240																					14.34			14.15	
245																					13.20			12.68	
250																					12.05			11.21	
255																					10.91			9.75	
260																					9.77			8.28	
265																					8.63			6.82	
270																					7.49			5.35	
275																					6.35			3.89	
280																					5.21			2.42	
285																					4.06			0.96	
290																					2.92			0.00	
295																					1.78				
300																					0.64				
305																					0.00				

ESVCB ROUTING CALCULATIONS

EAST ST VRAIN CREEK BASIN

END ESVCB4

End Node	Upstream Nodes
ESVCB4	ESVCB3
ESVCB4	ESVCB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
ESVCB4	50	0
ESVCB3	40	50
ESVCB1	35	50

END ESVCB6

End Node	Upstream Nodes
ESVCB6	ESVCB5
ESVCB6	ESVCB7
ESVCB6	FRB3

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
ESVCB6	50	0
ESVCB5	50	50
ESVCB7	50	50
FRB3	45	50

END ESVCB8

End Node	Upstream Nodes	
ESVCB8	ESVCB6	ESVCB5
ESVCB8	ESVCB6	ESVCB7
ESVCB8	ESVCB6	FRB3
ESVCB8	ESVCB4	ESVCB3
ESVCB8	ESVCB4	ESVCB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
ESVCB8	60	0
ESVCB6	50	60
ESVCB7	50	110
ESVCB5	50	110
ESVCB4	50	60
ESVCB3	40	110
ESVCB1	35	110
FRB3	45	110

EAST ST VRAIN CREEK BASIN

END ESVCB10

End Node	Upstream Nodes		
ESVCB10	ESVCB9		
ESVCB10	ESVCB8	ESVCB6	ESVCB5
ESVCB10	ESVCB8	ESVCB6	FRB3
ESVCB10	ESVCB8	ESVCB4	ESVCB3
ESVCB10	ESVCB8	ESVCB4	ESVCB1

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
ESVCB10	40	0
ESVCB9	50	40
ESVCB8	60	40
ESVCB6	50	100
ESVCB5	50	150
ESVCB7	50	150
ESVCB4	50	100
ESVCB3	40	150
ESVCB1	35	150
FRB3	45	150

END ESVCB12

End Node	Upstream Nodes
ESVCB12	ESVCB11

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
ESVCB12	45	0
ESVCB11	50	45

END ESVCB15

End Node	Upstream Nodes	
ESVCB15	ESVCB14	ESVCB11
ESVCB15	ESVCB13	
ESVCB15	ESVCB12	

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
ESVCB15	40	0
ESVCB14	40	40
ESVCB13	40	40
ESVCB12	45	40
ESVCB11	50	80

END ESVCB18

End Node	Upstream Nodes
ESVCB18	ESVCB17
ESVCB18	ESVCB16

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
ESVCB18	55	0
ESVCB17	55	55
ESVCB16	60	55

EAST ST VRAIN CREEK BASIN

END ESVCB19

End Node	Upstream Nodes	
ESVCB19	ESVCB18	ESVCB17
ESVCB19	ESVCB18	ESVCB16

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
ESVCB19	45	0
ESVCB18	55	45
ESVCB17	55	100
ESVCB16	60	100

END ESVCB21

End Node	Upstream Nodes	
ESVCB21	ESVCB2	

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
ESVCB21	70	0
ESVCB2	40	70

END ESVCB23

End Node	Upstream Nodes	
ESVCB23	ESVCB21	ESVCB2

	PEAK TRAVEL TIME (Storm Hydrograph)	START TIME for Curve
ESVCB23	50	0
ESVCB21	70	50
ESVCB2	40	120

time in minutes	ESVCB4	ESVCB3	ESVCB1	Total to ESVCB4	imax
0	0.00			0.00	483
5	0.09			0.09	
10	1.27			1.27	
15	5.67			5.67	
20	23.79			23.79	
25	80.04			80.04	
30	149.30			149.30	
35	195.13			195.13	
40	218.03			218.03	
45	227.36			227.36	
50	226.34	0.00	0.00	226.34	
55	219.72	0.15	1.56	221.42	
60	214.06	1.87	19.48	235.40	
65	205.51	4.87	52.55	262.93	
70	193.18	12.81	113.87	319.87	
75	179.25	30.11	229.42	438.78	
80	166.14	37.56	279.66	483.36	
85	153.78	37.94	263.60	455.33	
90	142.19	36.27	234.24	412.70	
95	131.40	33.80	205.72	370.91	
100	120.99	31.05	176.20	328.25	
105	110.94	28.65	153.32	292.91	
110	101.19	26.43	137.73	265.35	
115	91.90	22.91	114.77	229.58	
120	83.14	19.91	92.12	195.16	
125	75.93	17.15	70.36	163.44	
130	69.65	14.82	52.67	137.14	
135	63.95	12.81	41.93	118.69	
140	58.73	11.00	35.34	105.07	
145	53.90	9.33	30.93	94.15	
150	49.42	7.78	27.89	85.09	
155	45.22	6.39	25.81	77.43	
160	41.30	5.24	24.33	70.87	
165	37.48	4.50	23.45	65.43	
170	33.77	3.55	18.32	55.64	
175	30.09	2.74	12.87	45.70	
180	26.43	2.11	9.19	37.73	
185	22.79	1.61	6.52	30.92	
190	19.19	1.22	4.47	24.88	
195	15.62	0.92	3.04	19.58	
200	12.13	0.71	2.02	14.85	
205	8.90	0.54	1.20	10.64	
210	6.40	0.42	0.59	7.41	
215	4.77	0.33	0.19	5.29	
220	3.60	0.25	0.00	3.85	
225	2.71	0.18	0.00	2.89	
230	2.02	0.12	0.00	2.15	
235	1.49	0.07		1.57	
240	1.10	0.04		1.13	
245	0.83	0.01		0.84	
250	0.65	0.00		0.65	
255	0.52			0.52	
260	0.41			0.41	
265	0.31			0.31	
270	0.23			0.23	
275	0.16			0.16	
280	0.10			0.10	
285	0.06			0.06	
290	0.03			0.03	
295	0.01			0.01	
300	0.00			0.00	

time in minutes	ESCVB6	ESVCB7	ESCVB5	FRB3	Total to ESVCB6	max
0	0.00				0.00	296
5	0.27				0.27	
10	3.72				3.72	
15	13.20				13.20	
20	41.05				41.05	
25	114.73				114.73	
30	201.54				201.54	
35	256.64				256.64	
40	279.09				279.09	
45	280.10				280.10	
50	269.48	0.00	0.00	0.00	269.48	
55	257.34	0.02	0.00	0.01	257.37	
60	245.31	0.27	0.02	0.12	245.73	
65	230.70	1.18	0.15	0.64	232.68	
70	214.35	5.65	2.25	7.99	230.23	
75	196.34	21.71	11.97	40.48	270.50	
80	177.15	35.58	18.77	63.58	295.08	
85	158.41	42.50	21.98	73.09	295.97	
90	140.88	46.02	23.49	75.21	285.60	
95	124.87	47.48	23.83	73.33	269.51	
100	112.17	47.15	23.22	70.08	252.62	
105	102.34	46.12	22.70	66.57	237.73	
110	93.93	45.37	22.23	63.42	224.95	
115	86.40	43.49	20.93	58.51	209.32	
120	78.52	41.03	19.47	53.29	192.31	
125	70.03	38.23	17.94	47.48	173.69	
130	61.61	35.47	16.53	41.76	155.38	
135	53.66	33.05	15.23	36.32	138.26	
140	46.14	30.84	14.02	31.30	122.30	
145	38.98	28.79	12.86	27.53	108.16	
150	32.05	26.82	11.75	24.57	95.18	
155	25.40	24.93	10.66	22.00	82.99	
160	19.25	23.08	9.60	19.70	71.62	
165	14.21	21.27	8.59	17.58	61.65	
170	10.80	19.38	7.76	15.49	53.43	
175	8.32	17.50	7.09	13.50	46.41	
180	6.39	15.91	6.51	11.64	40.46	
185	4.90	14.63	5.99	9.84	35.37	
190	3.77	13.53	5.51	8.08	30.90	
195	2.89	12.54	5.07	6.34	26.84	
200	2.25	11.64	4.65	4.63	23.18	
205	1.81	10.80	4.27	3.11	19.99	
210	1.44	10.01	3.90	2.17	17.52	
215	1.14	9.28	3.53	1.54	15.49	
220	0.88	8.58	3.17	1.07	13.70	
225	0.65	7.90	2.81	0.72	12.08	
230	0.46	7.23	2.45	0.47	10.60	
235	0.30	6.56	2.09	0.29	9.24	
240	0.17	5.90	1.73	0.18	7.97	
245	0.08	5.23	1.37	0.13	6.81	
250	0.02	4.58	1.01	0.09	5.71	
255	0.00	3.92	0.68	0.08	4.68	
260	0.00	3.27	0.47	0.06	3.80	
265	0.00	2.63	0.33	0.04	3.00	
270	0.00	2.00	0.23	0.03	2.26	
275	0.00	1.43	0.15	0.02	1.60	
280	0.00	1.03	0.10	0.01	1.14	
285	0.00	0.76	0.06	0.01	0.83	
290	0.00	0.56	0.04	0.00	0.60	
295		0.41	0.02	0.00	0.44	
300		0.30	0.02	0.00	0.32	
305		0.21	0.01	0.00	0.23	
310		0.15	0.01	0.00	0.16	
315		0.12	0.01	0.00	0.12	
320		0.09	0.01		0.10	
325		0.07	0.00		0.08	
330		0.06	0.00		0.06	
335		0.04	0.00		0.04	
340		0.03			0.03	
345		0.02			0.02	
350		0.01			0.01	
355		0.01			0.01	
360		0.00			0.00	

time in minutes	ESCVB14	ESVCB11	Total to ESCVB14	max
0	0.00	0.00	0.00	352
5	0.04	0.00	0.05	
10	0.57	0.04	0.61	
15	3.09	0.33	3.42	
20	24.31	5.97	30.28	
25	115.21	36.26	151.47	
30	203.23	71.14	274.37	
35	243.12	90.31	333.43	
40	252.55	99.22	351.78	
45	245.36	101.75	347.11	
50	233.42	99.24	332.66	
55	219.96	96.20	316.15	
60	208.45	93.39	301.84	
65	193.03	88.26	281.29	
70	174.56	81.45	256.01	
75	154.39	74.99	229.38	
80	133.88	68.58	202.47	
85	115.00	62.48	177.48	
90	99.44	56.83	156.26	
95	87.72	51.40	139.12	
100	78.00	46.16	124.16	
105	69.39	41.07	110.46	
110	61.57	36.35	97.92	
115	54.28	32.75	87.03	
120	47.04	29.81	76.86	
125	40.02	27.19	67.21	
130	33.27	24.81	58.08	
135	26.70	22.62	49.32	
140	20.30	20.57	40.87	
145	14.31	18.67	32.98	
150	9.95	16.89	26.84	
155	7.11	15.17	22.27	
160	5.07	13.47	18.54	
165	3.56	11.78	15.34	
170	2.43	10.10	12.53	
175	1.60	8.42	10.02	
180	1.04	6.74	7.78	
185	0.73	5.06	5.80	
190	0.55	3.48	4.03	
195	0.43	2.35	2.78	
200	0.34	1.63	1.97	
205	0.26	1.12	1.38	
210	0.19	0.75	0.94	
215	0.13	0.49	0.61	
220	0.08	0.29	0.37	
225	0.04	0.16	0.21	
230	0.02	0.10	0.12	
235	0.00	0.07	0.07	
240	0.00	0.05	0.05	
245	0.00	0.04	0.04	
250	0.00	0.03	0.03	
255	0.00	0.02	0.02	
260	0.00	0.02	0.02	
265	0.00	0.01	0.01	
270	0.00	0.01	0.01	
275	0.00	0.00	0.00	
280	0.00	0.00	0.00	

time in minutes	ESCVB15	ESCVB14	ESCVB13	ESCVB12	ESCVB11	Total to ESCVB15	max
0	0.00					0.00	803
5	1.11					1.11	
10	14.58					14.58	
15	46.51					46.51	
20	124.25					124.25	
25	301.17					301.17	
30	461.27					461.27	
35	514.63					514.63	
40	493.81	0.00	0.00	0.00		493.81	
45	457.30	0.41	0.06	0.04		457.81	
50	417.08	5.15	0.77	0.57		423.58	
55	379.72	17.79	2.62	3.09		403.22	
60	346.02	69.06	10.49	24.31		449.86	
65	305.10	207.67	35.43	115.21		663.41	
70	263.33	279.22	49.20	203.23		794.98	
75	225.67	280.22	53.73	243.12		802.74	
80	192.29	262.71	53.72	252.55	0.00	761.28	
85	162.70	239.81	52.04	245.36	0.00	699.91	
90	136.88	214.90	49.30	233.42	0.04	634.54	
95	113.32	191.39	46.58	219.96	0.33	571.58	
100	92.04	170.93	44.55	208.45	5.97	521.95	
105	74.05	145.60	40.75	193.03	36.26	489.69	
110	61.56	123.33	36.87	174.56	71.14	467.46	
115	53.78	101.74	32.45	154.39	90.31	432.66	
120	44.93	82.13	28.25	133.88	99.22	388.42	
125	34.88	65.09	24.42	115.00	101.75	341.15	
130	26.17	49.59	21.60	99.44	99.24	296.03	
135	19.69	36.35	19.36	87.72	96.20	259.32	
140	14.76	27.43	17.40	78.00	93.39	230.97	
145	11.20	21.90	15.64	69.39	88.26	206.39	
150	8.50	18.20	14.02	61.57	81.45	183.73	
155	6.46	15.54	12.49	54.28	74.99	163.77	
160	4.97	11.80	10.76	47.04	68.58	143.16	
165	3.79	8.44	9.10	40.02	62.48	123.83	
170	2.77	6.02	7.49	33.27	56.83	106.38	
175	1.91	4.40	5.95	26.70	51.40	90.35	
180	1.21	3.27	4.48	20.30	46.16	75.42	
185	0.67	2.43	3.19	14.31	41.07	61.68	
190	0.29	1.81	2.36	9.95	36.35	50.76	
195	0.06	1.36	1.77	7.11	32.75	43.06	
200	0.00	0.99	1.32	5.07	29.81	37.20	
205		0.68	0.98	3.56	27.19	32.41	
210		0.43	0.71	2.43	24.81	28.39	
215		0.24	0.52	1.60	22.62	24.98	
220		0.10	0.38	1.04	20.57	22.10	
225		0.02	0.30	0.73	18.67	19.72	
230		0.00	0.24	0.55	16.89	17.68	
235			0.19	0.43	15.17	15.78	
240			0.15	0.34	13.47	13.95	
245			0.11	0.26	11.78	12.15	
250			0.08	0.19	10.10	10.36	
255			0.05	0.13	8.42	8.60	
260			0.03	0.08	6.74	6.85	
265			0.02	0.04	5.06	5.12	
270			0.00	0.02	3.48	3.51	
275			0.00	0.00	2.35	2.36	
280					1.63	1.63	
285					1.12	1.12	
290					0.75	0.75	
295					0.49	0.49	
300					0.29	0.29	
305					0.16	0.16	
310					0.10	0.10	
315					0.07	0.07	
320					0.05	0.05	
325					0.04	0.04	
330					0.03	0.03	
335					0.02	0.02	
340					0.02	0.02	
345					0.01	0.01	
350					0.01	0.01	
355					0.00	0.00	

time in minutes	ESCVB18	ESCVB17	ESCVB16	Total to ESCVB18	max
0	0.00			0.00	639
5	0.00			0.00	
10	0.03			0.03	
15	0.27			0.27	
20	5.27			5.27	
25	34.04			34.04	
30	75.06			75.06	
35	104.19			104.19	
40	119.36			119.36	
45	126.46			126.46	
50	127.22			127.22	
55	123.58	0.00	0.00	123.58	
60	120.61	0.00	0.00	120.62	
65	116.02	0.05	0.06	116.13	
70	109.02	0.40	0.51	109.93	
75	100.78	6.17	9.14	116.09	
80	92.76	37.24	62.06	192.06	
85	85.41	79.40	162.39	327.20	
90	78.63	107.62	271.04	457.30	
95	72.42	122.07	359.39	553.88	
100	66.48	128.49	416.62	611.58	
105	60.77	128.54	447.67	636.97	
110	55.22	124.77	459.10	639.08	
115	49.82	121.67	454.94	626.43	
120	44.60	116.73	438.99	600.32	
125	40.17	109.34	420.98	570.49	
130	36.70	100.86	398.80	536.35	
135	33.73	92.89	372.30	498.93	
140	31.08	85.50	344.01	460.60	
145	28.66	78.64	317.37	424.67	
150	26.42	72.29	293.90	392.61	
155	24.32	66.21	272.72	363.24	
160	22.36	60.35	253.43	336.14	
165	20.49	54.64	235.10	310.23	
170	18.66	49.10	217.57	285.33	
175	16.84	43.81	200.45	261.10	
180	15.03	39.75	183.68	238.46	
185	13.22	36.42	167.11	216.75	
190	11.41	33.48	150.87	195.75	
195	9.61	30.81	136.52	176.94	
200	7.80	28.36	125.48	161.65	
205	6.00	26.08	116.22	148.30	
210	4.26	23.94	107.97	136.17	
215	2.84	21.96	100.48	125.27	
220	1.95	20.02	93.54	115.51	
225	1.35	18.12	87.04	106.51	
230	0.91	16.22	81.00	98.13	
235	0.59	14.33	75.28	90.20	
240	0.36	12.44	69.66	82.47	
245	0.20	10.56	64.12	74.88	
250	0.11	8.67	58.58	67.37	
255	0.07	6.80	53.05	59.92	
260	0.05	4.94	47.53	52.53	
265	0.04	3.29	42.01	45.34	
270	0.03	2.27	36.51	38.81	
275	0.02	1.59	31.01	32.62	
280	0.02	1.09	25.52	26.63	
285	0.01	0.73	20.04	20.78	
290	0.01	0.46	14.61	15.08	
295	0.00	0.27	9.65	9.93	
300	0.00	0.15	6.62	6.78	
305	0.00	0.11	4.61	4.72	
310		0.08	3.15	3.22	
315		0.06	2.08	2.14	
320		0.05	1.30	1.35	
325		0.04	0.74	0.77	
330		0.02	0.40	0.42	
335		0.02	0.26	0.28	
340		0.01	0.18	0.19	
345		0.00	0.15	0.15	
350		0.00	0.11	0.11	
355		0.00	0.08	0.08	
360			0.06	0.06	
365			0.04	0.04	
370			0.02	0.02	
375			0.01	0.01	
380			0.00	0.00	

time in minutes	ESCVB19	ESCVB18	ESCVB17	ESCVB16	Total to ESCVB19	rmax
0	0.00				0.00	640
5	0.03				0.03	
10	0.31				0.31	
15	1.05				1.05	
20	4.24				4.24	
25	14.33				14.33	
30	19.39				19.39	
35	21.13				21.13	
40	21.36				21.36	
45	20.82	0.00			20.82	
50	19.91	0.00			19.91	
55	19.01	0.03			19.04	
60	18.23	0.27			18.50	
65	16.79	5.27			22.06	
70	15.41	34.04			49.45	
75	13.81	75.06			88.87	
80	12.29	104.19			116.48	
85	10.84	119.36			130.20	
90	9.51	126.46			135.97	
95	8.48	127.22			135.70	
100	7.68	123.58	0.00	0.00	131.26	
105	6.98	120.61	0.00	0.00	127.60	
110	6.36	116.02	0.05	0.06	122.49	
115	5.78	109.02	0.40	0.51	115.71	
120	5.12	100.78	6.17	9.14	121.21	
125	4.49	92.76	37.24	62.06	196.55	
130	3.90	85.41	79.40	162.39	331.10	
135	3.34	78.63	107.62	271.04	460.64	
140	2.80	72.42	122.07	359.39	556.68	
145	2.27	66.48	128.49	416.62	613.85	
150	1.76	60.77	128.54	447.67	638.73	
155	1.28	55.22	124.77	459.10	640.37	
160	0.93	49.82	121.67	454.94	627.36	
165	0.69	44.60	116.73	438.99	601.01	
170	0.52	40.17	109.34	420.98	571.00	
175	0.38	36.70	100.86	398.80	536.74	
180	0.28	33.73	92.89	372.30	499.21	
185	0.21	31.08	85.50	344.01	460.81	
190	0.15	28.66	78.64	317.37	424.82	
195	0.12	26.42	72.29	293.90	392.73	
200	0.09	24.32	66.21	272.72	363.34	
205	0.07	22.36	60.35	253.43	336.22	
210	0.06	20.49	54.64	235.10	310.29	
215	0.04	18.66	49.10	217.57	285.37	
220	0.03	16.84	43.81	200.45	261.13	
225	0.02	15.03	39.75	183.68	238.48	
230	0.01	13.22	36.42	167.11	216.76	
235	0.01	11.41	33.48	150.87	195.76	
240	0.00	9.61	30.81	136.52	176.94	
245		7.80	28.36	125.48	161.65	
250		6.00	26.08	116.22	148.30	
255		4.26	23.94	107.97	136.17	
260		2.84	21.96	100.48	125.27	
265		1.95	20.02	93.54	115.51	
270		1.35	18.12	87.04	106.51	
275		0.91	16.22	81.00	98.13	
280		0.59	14.33	75.28	90.20	
285		0.36	12.44	69.66	82.47	
290		0.20	10.56	64.12	74.88	
295		0.11	8.67	58.58	67.37	
300		0.07	6.80	53.05	59.92	
305		0.05	4.94	47.53	52.53	
310		0.04	3.29	42.01	45.34	
315		0.03	2.27	36.51	38.81	
320		0.02	1.59	31.01	32.62	
325		0.02	1.09	25.52	26.63	
330		0.01	0.73	20.04	20.78	
335		0.01	0.46	14.61	15.08	
340		0.00	0.27	9.65	9.93	
345		0.00	0.15	6.62	6.78	
350		0.00	0.11	4.61	4.72	
355		0.00	0.08	3.15	3.22	
360		0.00	0.06	2.08	2.14	
365		0.00	0.05	1.30	1.35	
370		0.00	0.04	0.74	0.77	
375		0.00	0.02	0.40	0.42	
380			0.02	0.26	0.28	
385			0.01	0.18	0.19	
390			0.00	0.15	0.15	
395			0.00	0.11	0.11	
400				0.08	0.08	
405				0.06	0.06	
410				0.04	0.04	
415				0.02	0.02	
420				0.01	0.01	
425				0.00	0.00	

time in minutes	ESVCBZ1	ESVCBZ2	Total to ESVCBZ1	max
0	0.00		0.00	359
5	0.00		0.00	
10	0.04		0.04	
15	0.28		0.28	
20	3.97		3.97	
25	25.71		25.71	
30	69.22		69.22	
35	121.67		121.67	
40	169.30		169.30	
45	206.21		206.21	
50	230.25		230.25	
55	245.19		245.19	
60	254.29		254.29	
65	257.70		257.70	
70	254.89	0.00	254.89	
75	246.26	0.59	246.85	
80	234.83	7.74	242.57	
85	223.54	24.23	247.77	
90	212.22	55.70	267.93	
95	200.77	114.67	315.45	
100	189.36	163.68	353.03	
105	178.02	180.79	358.80	
110	167.08	177.72	344.80	
115	157.78	168.84	326.63	
120	149.77	157.54	307.31	
125	142.31	146.86	289.18	
130	135.20	137.69	272.89	
135	128.30	125.63	253.93	
140	121.56	111.66	233.23	
145	115.00	97.53	212.53	
150	108.62	85.84	194.45	
155	102.31	76.29	178.60	
160	96.04	68.27	164.31	
165	89.80	61.11	150.91	
170	83.57	54.52	138.09	
175	77.36	48.29	125.65	
180	71.37	42.42	113.79	
185	66.46	37.11	103.58	
190	62.58	30.57	93.15	
195	59.23	23.87	83.11	
200	56.23	18.69	74.92	
205	53.49	14.79	68.28	
210	50.93	11.68	62.60	
215	48.53	9.21	57.74	
220	46.30	7.21	53.51	
225	44.15	5.58	49.73	
230	42.03	4.32	46.36	
235	39.94	3.41	43.34	
240	37.84	2.73	40.57	
245	35.75	2.17	37.92	
250	33.67	1.68	35.34	
255	31.59	1.25	32.83	
260	29.51	0.88	30.39	
265	27.43	0.58	28.01	
270	25.36	0.34	25.70	
275	23.30	0.16	23.46	
280	21.23	0.05	21.28	
285	19.17	0.00	19.17	
290	17.10	0.00	17.10	
295	15.04	0.00	15.04	
300	12.97	0.00	12.97	
305	10.91	0.00	10.91	
310	8.85	0.00	8.85	
315	6.79	0.00	6.79	
320	4.80	0.00	4.80	
325	3.23	0.00	3.23	
330	2.24	0.00	2.24	
335	1.57	0.00	1.57	
340	1.07	0.00	1.07	
345	0.71	0.00	0.71	
350	0.44	0.00	0.44	
355	0.26	0.00	0.26	
360	0.16	0.00	0.16	
365	0.11	0.00	0.11	
370	0.08	0.00	0.08	
375	0.06	0.00	0.06	
380	0.05	0.00	0.05	
385	0.04	0.00	0.04	
390	0.02	0.00	0.02	
395	0.02	0.00	0.02	
400	0.01	0.00	0.01	
405	0.00	0.00	0.00	
410	0.00	0.00	0.00	

time in minutes	ESVCE23	ESVCE21	ESVCE2	Total to ESVCE23	max
0	0.00			0.00	383
5	0.01			0.01	
10	0.08			0.08	
15	0.68			0.68	
20	12.23			12.23	
25	76.29			76.29	
30	161.24			161.24	
35	215.64			215.64	
40	240.24			240.24	
45	245.12			245.12	
50	236.93	0.00		236.93	
55	227.44	0.00		227.45	
60	217.81	0.04		217.85	
65	203.86	0.28		204.14	
70	188.13	3.97		192.10	
75	171.71	25.71		197.42	
80	154.65	69.22		223.87	
85	138.14	121.67		259.80	
90	122.67	169.30		291.97	
95	107.72	206.21		313.92	
100	93.87	230.25		324.12	
105	83.23	245.19		328.43	
110	74.83	254.29		329.11	
115	67.62	257.70		325.32	
120	61.03	254.89	0.00	315.91	
125	54.85	246.26	0.59	301.70	
130	49.05	234.83	7.74	291.62	
135	43.61	223.54	24.23	291.38	
140	38.56	212.22	55.70	306.49	
145	33.68	200.77	114.67	349.13	
150	28.89	189.36	163.68	381.92	
155	24.13	178.02	180.79	382.94	
160	19.39	167.08	177.72	364.19	
165	14.67	157.78	168.84	341.30	
170	10.18	149.77	157.54	317.49	
175	6.85	142.31	146.86	296.03	
180	4.74	135.20	137.69	277.62	
185	3.27	128.30	125.63	257.20	
190	2.19	121.56	111.66	235.42	
195	1.41	115.00	97.53	213.94	
200	0.85	108.62	85.84	195.31	
205	0.48	102.31	76.29	179.08	
210	0.29	96.04	68.27	164.60	
215	0.19	89.80	61.11	151.10	
220	0.14	83.57	54.52	138.23	
225	0.11	77.36	48.29	125.76	
230	0.09	71.37	42.42	113.88	
235	0.06	66.46	37.11	103.64	
240	0.04	62.58	30.57	93.19	
245	0.03	59.23	23.87	83.13	
250	0.02	56.23	18.69	74.94	
255	0.01	53.49	14.79	68.28	
260	0.00	50.93	11.68	62.61	
265	0.00	48.53	9.21	57.74	
270	0.00	46.30	7.21	53.51	
275		44.15	5.58	49.73	
280		42.03	4.32	46.36	
285		39.94	3.41	43.34	
290		37.84	2.73	40.57	
295		35.75	2.17	37.92	
300		33.67	1.68	35.34	
305		31.59	1.25	32.83	
310		29.51	0.88	30.39	
315		27.43	0.58	28.01	
320		25.36	0.34	25.70	
325		23.30	0.16	23.46	
330		21.23	0.05	21.28	
335		19.17	0.00	19.17	
340		17.10		17.10	
345		15.04		15.04	
350		12.97		12.97	
355		10.91		10.91	
360		8.85		8.85	
365		6.79		6.79	
370		4.80		4.80	
375		3.23		3.23	
380		2.24		2.24	
385		1.57		1.57	
390		1.07		1.07	
395		0.71		0.71	
400		0.44		0.44	
405		0.26		0.26	
410		0.16		0.16	
415		0.11		0.11	
420		0.08		0.08	
425		0.06		0.06	
430		0.05		0.05	
435		0.04		0.04	
440		0.02		0.02	
445		0.02		0.02	
450		0.01		0.01	
455		0.00		0.00	
460		0.00		0.00	

ESVCB SWMM INPUT

ESVCB Ponding Areas

[TITLE]

;;Project Title/Notes

[OPTIONS]

```

;;Option      value
FLOW_UNITS    CFS
INFILTRATION  HORTON
FLOW_ROUTING  DYNWAVE
LINK_OFFSETS  DEPTH
MIN_SLOPE     0
ALLOW_PONDING YES
SKIP_STEADY_STATE NO

START_DATE    05/10/2018
START_TIME    00:00:00
REPORT_START_DATE 05/10/2018
REPORT_START_TIME 00:00:00
END_DATE      05/10/2018
END_TIME      10:00:00
SWEEP_START   01/01
SWEEP_END     12/31
DRY_DAYS      0
REPORT_STEP   00:00:05
WET_STEP      00:05:00
DRY_STEP      01:00:00
ROUTING_STEP  0:00:05
    
```

```

INERTIAL_DAMPING PARTIAL
NORMAL_FLOW_LIMITED BOTH
FORCE_MAIN_EQUATION H-W
VARIABLE_STEP     0.75
LENGTHENING_STEP  0
MIN_SURFAREA      12.557
MAX_TRIALS         8
HEAD_TOLERANCE    0.005
SYS_FLOW_TOL      5
LAT_FLOW_TOL      5
MINIMUM_STEP      0.5
THREADS           1
    
```

[EVAPORATION]

```

;;Data Source Parameters
;;-----
CONSTANT      0.0
DRY_ONLY      NO
    
```

[OUTFALLS]

;;Name	Elevation	Type	Stage Data	Gated	Route To
ESVCB1-0	4976.71	FREE		NO	
ESVCB2-24A0	4980.36	FREE		NO	
ESVCB2-24B0	4979.83	FREE		NO	
ESVCB2-24C0	4977.80	FREE		NO	
ESVCB3-0	4971.97	FREE		NO	
ESVCB4-0(1)	4945.50	FREE		NO	
ESVCB4-0(2)	4945.72	FREE		NO	
ESVCB4-0(3)	4945.48	FREE		NO	
ESVCB4-0(4)	4945.43	FREE		NO	
ESVCB6-10	4917.99	FREE		NO	
ESVCB6-20	4917.14	FREE		NO	
ESVCB7-0	32	FREE		NO	
ESVCB8-10	4899.67	FREE		NO	
ESVCB11-0	14.67	FREE		NO	

ESVCB Ponding Areas

ESVCB13-0	18	FREE	NO
ESVCB14-0	34	FREE	NO
ESVCB16-0	42.99	FREE	NO
ESVCB17-0	30	FREE	NO
ESVCB18-10	9	FREE	NO
ESVCB18-20	9	FREE	NO
ESVCB21-0	90.97	FREE	NO
ESVCB22-0	91.50	FREE	NO
ESVCB23_0	70.5	FREE	NO
ESVCB24_0	84.5	FREE	NO
ESVCB25_0	0	FREE	NO

[STORAGE]

;;Name N/A	Fevap	Elev. Psi	MaxDepth Ksat	InitDepth IMD	Shape	Curve Name/Params
ESVCB1 0	0	4977.12	13	0	TABULAR	ESVCB1
ESVCB2 0	0	4981.33	2	0	TABULAR	ESVCB2
ESVCB3 0	0	4973.79	3	0	TABULAR	ESVCB3
ESVCB4 0	0	4945.91	2	0	TABULAR	ESVCB4
ESVCB6 0	0	4918.0	4	0	TABULAR	ESVCB6
ESVCB7 0	0	33	3	0	TABULAR	ESVCB7
ESVCB8 0	0	4900.22	4	0	TABULAR	ESVCB8
ESVCB11 0	0	15	1.5	0	TABULAR	ESVCB11
ESVCB13 0	0	26.46	7	0	TABULAR	ESVCB13
ESVCB14 0	0	45.06	3	0	TABULAR	ESVCB14
ESVCB15 0	0	15.99	5	0	TABULAR	ESVCB15
ESVCB16 0	0	43.89	6	0	TABULAR	ESVCB16
ESVCB17 0	0	32	4	0	TABULAR	ESVCB17
ESVCB18 0	0	9.28	3	0	TABULAR	ESVCB18
ESVCB19 0	0	7	5	0	TABULAR	ESVCB19
ESVCB20 0	0	4794	13	0	TABULAR	ESVCB20
ESVCB21 0	0	95	2	0	TABULAR	ESVCB21
ESVCB22 0	0	93.31	3	0	TABULAR	ESVCB22
ESVCB23 0	0	72	3.75	0	TABULAR	ESVCB23
ESVCB24 0	0	85	3.5	0	TABULAR	ESVCB24
ESVCB25 0	0	0	0	0	FUNCTIONAL	1000 0 0

[CONDUITS]

;;Name OutOffset	From Node InitFlow	Node MaxFlow	To Node	Length	Roughness	InOffset
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ESVCB Ponding Areas

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;;-----
ESVCB1      0      ESVCB1      250      .024      0
0           0           0
ESVCB2-24A  0      ESVCB2      115      .013      0
0           0           0
ESVCB2-24B  0      ESVCB2      215      .013      0.03
0           0           0
ESVCB2-24C  0      ESVCB2      115      .013      0.87
0           0           0
ESVCB3      0      ESVCB3      75       .024      0
0           0           0
ESVCB4(1)   0      ESVCB4      80       .024      0
0           0           0
ESVCB4(2)   0      ESVCB4      80       .024      0
0           0           0
ESVCB4(3)   0      ESVCB4      80       .024      0
0           0           0
ESVCB4(4)   0      ESVCB4      80       .024      0
0           0           0
ESVCB6-1    0      ESVCB6      80       .024      0.40
0           0           0
ESVCB6-2    0      ESVCB6     105      .024      0
0           0           0
ESVCB7      0      ESVCB7     100      .024      0
0           0           0
ESVCB8-1    0      ESVCB8      50       .024      0
0           0           0
ESVCB11     0      ESVCB11    275      .024      0
0           0           0
ESVCB13     0      ESVCB13    275      .024      0
0           0           0
ESVCB14     0      ESVCB14    115      .012      0
0           0           0
ESVCB16     0      ESVCB16    100      .012      0
0           0           0
ESVCB17     0      ESVCB17    125      .024      0
0           0           0
ESVCB18-1   0      ESVCB18     80       .024      0
0           0           0
ESVCB18-2   0      ESVCB18     80       .024      0
0           0           0
ESVCB21     0      ESVCB21    160      .024      0
0           0           0
ESVCB22     0      ESVCB22    225      .024      0
0           0           0
ESVCB23     0      ESVCB23     65      0.024     0
0           0           0
ESVCB24     0      ESVCB24     80      0.013     0
0           0           0
ESVCB25     0      ESVCB25    400      0.01      0
0           0           0

```

```

[XSECTIONS]
;;Link
Barrels  Shape      Geom1      Geom2      Geom3      Geom4
Culvert
;;-----
ESVCB1      CIRCULAR      3           0           0           0           1
ESVCB2-24A  CIRCULAR      2           0           0           0           1
ESVCB2-24B  CIRCULAR      2           0           0           0           1

```

ESVCB Ponding Areas

ESVCB2-24C	CIRCULAR	2	0	0	0	1
ESVCB3	CIRCULAR	1	0	0	0	1
ESVCB4(1)	CIRCULAR	3	0	0	0	1
ESVCB4(2)	CIRCULAR	3	0	0	0	1
ESVCB4(3)	CIRCULAR	3	0	0	0	1
ESVCB4(4)	CIRCULAR	3	0	0	0	1
ESVCB6-1	CIRCULAR	2	0	0	0	1
ESVCB6-2	CIRCULAR	2	0	0	0	1
ESVCB7	HORIZ_ELLIPSE	2	3	0	0	1
ESVCB8-1	CIRCULAR	1.33	0	0	0	1
ESVCB11	CIRCULAR	1.208	0	0	0	1
ESVCB13	CIRCULAR	1	0	0	0	1
ESVCB14	CIRCULAR	3	0	0	0	1
ESVCB16	CIRCULAR	3.33	0	0	0	1
ESVCB17	CIRCULAR	2	0	0	0	1
ESVCB18-1	CIRCULAR	2.667	0	0	0	1
ESVCB18-2	CIRCULAR	2.667	0	0	0	1
ESVCB21	CIRCULAR	4	0	0	0	1
ESVCB22	CIRCULAR	2.667	0	0	0	1
ESVCB23	CIRCULAR	1	0	0	0	1
ESVCB24	CIRCULAR	3.5	0	0	0	1
ESVCB25	CIRCULAR	1	0	0	0	1

[INFLOWS]	Constituent	Time Series	Type	Mfactor	Sfactor
;;Node Baseline Pattern ;;					
ESVCB1	FLOW	ESVCB1	FLOW	1.0	1.0
ESVCB2	FLOW	ESVCB2	FLOW	1.0	1.0
ESVCB3	FLOW	ESVCB3	FLOW	1.0	1.0
ESVCB4	FLOW	ESVCB4	FLOW	1.0	1.0
ESVCB6	FLOW	ESVCB6	FLOW	1.0	1.0
ESVCB7	FLOW	ESVCB7	FLOW	1.0	1.0

ESVCB Ponding Areas

ESVCB8	FLOW	ESVCB8	FLOW	1.0	1.0
ESVCB11	FLOW	ESVCB11	FLOW	1.0	1.0
ESVCB13	FLOW	ESVCB13	FLOW	1.0	1.0
ESVCB14	FLOW	ESVCB14	FLOW	1.0	1.0
ESVCB15	FLOW	ESVCB15	FLOW	1.0	1.0
ESVCB16	FLOW	ESVCB16	FLOW	1.0	1.0
ESVCB17	FLOW	ESVCB17	FLOW	1.0	1.0
ESVCB18	FLOW	ESVCB18	FLOW	1.0	1.0
ESVCB19	FLOW	ESVCB19	FLOW	1.0	1.0
ESVCB20	FLOW	ESVCB20	FLOW	1.0	1.0
ESVCB21	FLOW	ESVCB21	FLOW	1.0	1.0
ESVCB22	FLOW	ESVCB22	FLOW	1.0	1.0
ESVCB23	FLOW	ESVCB23	FLOW	1.0	1.0
ESVCB24	FLOW	ESVCB24	FLOW	1.0	1.0

[CURVES]

;;Name	Type	X-value	Y-value
ESVCB1	Storage	0	56
ESVCB1		1	600
ESVCB1		2	1890
ESVCB1		3	3543
ESVCB1		4	5272
ESVCB1		5	10318
ESVCB1		6	16495
ESVCB1		7	22672
ESVCB1		8	88704
ESVCB1		9	154736
ESVCB1		10	201773
ESVCB1		11	311291
ESVCB1		12	420809
ESVCB2	Storage	0	124
ESVCB2		1	13065
ESVCB3	Storage	0	86
ESVCB3		1	1044
ESVCB3		2	2450
ESVCB4	Storage	0	495
ESVCB4		1	4050
ESVCB6	Storage	0	34
ESVCB6		1	274
ESVCB6		2	1490
ESVCB6		3	5544
ESVCB7	Storage	0	146
ESVCB7		1	5830

		ESVCB	Ponding Areas
ESVCB7		2	10457
;			
ESVCB8	Storage	0	362
ESVCB8		1	3367
ESVCB8		2	7744
ESVCB8		3	14750
;			
ESVCB11	Storage	0	1900
ESVCB11		1	53315
;			
ESVCB13	Storage	0	158
ESVCB13		1	430
ESVCB13		2	7330
ESVCB13		3	11500
ESVCB13		4	16122
ESVCB13		5	18805
ESVCB13		6	21866
;			
ESVCB14	Storage	0	507
ESVCB14		1	1224
ESVCB14		2	6262
;			
ESVCB15	Storage	0	2136046
ESVCB15		1	3474025
ESVCB15		2	3884114
ESVCB15		3	4232342
ESVCB15		4	4300000
;			
ESVCB16	Storage	0	298
ESVCB16		1	1500
ESVCB16		2	2182
ESVCB16		3	4315
ESVCB16		4	12814
ESVCB16		5	23407
;			
ESVCB17	Storage	0	145
ESVCB17		1	792
ESVCB17		2	1800
ESVCB17		3	3053
;			
ESVCB18	Storage	0	1028
ESVCB18		1	134382
ESVCB18		2	235578
;			
ESVCB19	Storage	0	71512
ESVCB19		1	335199
ESVCB19		2	375539
ESVCB19		3	400000
ESVCB19		4	428187
;			
ESVCB20	Storage	0	436929
ESVCB20		1	640000
ESVCB20		2	1011390
ESVCB20		3	1174828
ESVCB20		4	1288394
ESVCB20		5	1507835
ESVCB20		6	1600000
ESVCB20		7	1796282
ESVCB20		8	1830000
ESVCB20		9	1876432
ESVCB20		10	1930000
ESVCB20		11	2040000
ESVCB20		12	2096196

ESVCB Ponding Areas

```

;
ESVCB21      Storage  0      3964
ESVCB21      Storage  1      68292
;
ESVCB22      Storage  0      270
ESVCB22      Storage  1      10000
ESVCB22      Storage  2      22788
;
ESVCB23      Storage  0      0
ESVCB23      Storage  1      280
ESVCB23      Storage  2      11013
ESVCB23      Storage  3      48103
ESVCB23      Storage  4      120885
;
ESVCB24      Storage  0      94
ESVCB24      Storage  1      883
ESVCB24      Storage  2      2503
ESVCB24      Storage  3      6615
ESVCB24      Storage  4      21777

```

[TIMESERIES]

```

;;Name      Date      Time      value
;-----
ESVCB1      5/10/2018  0:00      0.00
ESVCB1      5/10/2018  0:05      1.56
ESVCB1      5/10/2018  0:10      19.48
ESVCB1      5/10/2018  0:15      52.55
ESVCB1      5/10/2018  0:20      113.87
ESVCB1      5/10/2018  0:25      229.42
ESVCB1      5/10/2018  0:30      279.66
ESVCB1      5/10/2018  0:35      263.60
ESVCB1      5/10/2018  0:40      234.24
ESVCB1      5/10/2018  0:45      205.72
ESVCB1      5/10/2018  0:50      176.20
ESVCB1      5/10/2018  0:55      153.32
ESVCB1      5/10/2018  1:00      137.73
ESVCB1      5/10/2018  1:05      114.77
ESVCB1      5/10/2018  1:10      92.12
ESVCB1      5/10/2018  1:15      70.36
ESVCB1      5/10/2018  1:20      52.67
ESVCB1      5/10/2018  1:25      41.93
ESVCB1      5/10/2018  1:30      35.34
ESVCB1      5/10/2018  1:35      30.93
ESVCB1      5/10/2018  1:40      27.89
ESVCB1      5/10/2018  1:45      25.81
ESVCB1      5/10/2018  1:50      24.33
ESVCB1      5/10/2018  1:55      23.45
ESVCB1      5/10/2018  2:00      18.32
ESVCB1      5/10/2018  2:05      12.87
ESVCB1      5/10/2018  2:10      9.19
ESVCB1      5/10/2018  2:15      6.52
ESVCB1      5/10/2018  2:20      4.47
ESVCB1      5/10/2018  2:25      3.04
ESVCB1      5/10/2018  2:30      2.02
ESVCB1      5/10/2018  2:35      1.20
ESVCB1      5/10/2018  2:40      0.59
ESVCB1      5/10/2018  2:45      0.19
ESVCB1      5/10/2018  2:50      0.00
ESVCB1      5/10/2018  2:55      0.00
ESVCB1      5/10/2018  3:00      0.00
;
ESVCB2      5/10/2018  0:00      0.00
ESVCB2      5/10/2018  0:05      0.59

```

ESVCB Ponding Areas

ESVCB2	5/10/2018	0:10	7.74
ESVCB2	5/10/2018	0:15	24.23
ESVCB2	5/10/2018	0:20	55.70
ESVCB2	5/10/2018	0:25	114.67
ESVCB2	5/10/2018	0:30	163.68
ESVCB2	5/10/2018	0:35	180.79
ESVCB2	5/10/2018	0:40	177.72
ESVCB2	5/10/2018	0:45	168.84
ESVCB2	5/10/2018	0:50	157.54
ESVCB2	5/10/2018	0:55	146.86
ESVCB2	5/10/2018	1:00	137.69
ESVCB2	5/10/2018	1:05	125.63
ESVCB2	5/10/2018	1:10	111.66
ESVCB2	5/10/2018	1:15	97.53
ESVCB2	5/10/2018	1:20	85.84
ESVCB2	5/10/2018	1:25	76.29
ESVCB2	5/10/2018	1:30	68.27
ESVCB2	5/10/2018	1:35	61.11
ESVCB2	5/10/2018	1:40	54.52
ESVCB2	5/10/2018	1:45	48.29
ESVCB2	5/10/2018	1:50	42.42
ESVCB2	5/10/2018	1:55	37.11
ESVCB2	5/10/2018	2:00	30.57
ESVCB2	5/10/2018	2:05	23.87
ESVCB2	5/10/2018	2:10	18.69
ESVCB2	5/10/2018	2:15	14.79
ESVCB2	5/10/2018	2:20	11.68
ESVCB2	5/10/2018	2:25	9.21
ESVCB2	5/10/2018	2:30	7.21
ESVCB2	5/10/2018	2:35	5.58
ESVCB2	5/10/2018	2:40	4.32
ESVCB2	5/10/2018	2:45	3.41
ESVCB2	5/10/2018	2:50	2.73
ESVCB2	5/10/2018	2:55	2.17
ESVCB2	5/10/2018	3:00	1.68
ESVCB2	5/10/2018	3:05	1.25
ESVCB2	5/10/2018	3:10	0.88
ESVCB2	5/10/2018	3:15	0.58
ESVCB2	5/10/2018	3:20	0.34
ESVCB2	5/10/2018	3:25	0.16
ESVCB2	5/10/2018	3:30	0.05
ESVCB2	5/10/2018	3:35	0.00
ESVCB2	5/10/2018	3:40	0.00
;			
ESVCB3	5/10/2018	0:00	0.00
ESVCB3	5/10/2018	0:05	0.15
ESVCB3	5/10/2018	0:10	1.87
ESVCB3	5/10/2018	0:15	4.87
ESVCB3	5/10/2018	0:20	12.81
ESVCB3	5/10/2018	0:25	30.11
ESVCB3	5/10/2018	0:30	37.56
ESVCB3	5/10/2018	0:35	37.94
ESVCB3	5/10/2018	0:40	36.27
ESVCB3	5/10/2018	0:45	33.80
ESVCB3	5/10/2018	0:50	31.05
ESVCB3	5/10/2018	0:55	28.65
ESVCB3	5/10/2018	1:00	26.43
ESVCB3	5/10/2018	1:05	22.91
ESVCB3	5/10/2018	1:10	19.91
ESVCB3	5/10/2018	1:15	17.15
ESVCB3	5/10/2018	1:20	14.82
ESVCB3	5/10/2018	1:25	12.81
ESVCB3	5/10/2018	1:30	11.00

ESVCB Ponding Areas

ESVCB3	5/10/2018	1:35	9.33
ESVCB3	5/10/2018	1:40	7.78
ESVCB3	5/10/2018	1:45	6.39
ESVCB3	5/10/2018	1:50	5.24
ESVCB3	5/10/2018	1:55	4.50
ESVCB3	5/10/2018	2:00	3.55
ESVCB3	5/10/2018	2:05	2.74
ESVCB3	5/10/2018	2:10	2.11
ESVCB3	5/10/2018	2:15	1.61
ESVCB3	5/10/2018	2:20	1.22
ESVCB3	5/10/2018	2:25	0.92
ESVCB3	5/10/2018	2:30	0.71
ESVCB3	5/10/2018	2:35	0.54
ESVCB3	5/10/2018	2:40	0.42
ESVCB3	5/10/2018	2:45	0.33
ESVCB3	5/10/2018	2:50	0.25
ESVCB3	5/10/2018	2:55	0.18
ESVCB3	5/10/2018	3:00	0.12
ESVCB3	5/10/2018	3:05	0.07
ESVCB3	5/10/2018	3:10	0.04
ESVCB3	5/10/2018	3:15	0.01
ESVCB3	5/10/2018	3:20	0.00
ESVCB3	5/10/2018	3:25	0.00
ESVCB3	5/10/2018	3:30	0.00
ESVCB3	5/10/2018	3:35	0.00
ESVCB3	5/10/2018	3:40	0.00
ESVCB3	5/10/2018	3:45	0.00
ESVCB3	5/10/2018	3:50	0.00
ESVCB3	5/10/2018	3:55	0.00
ESVCB3	5/10/2018	4:00	0.00
ESVCB3	5/10/2018	4:05	0.00
ESVCB3	5/10/2018	4:10	0.00
ESVCB3	5/10/2018	4:15	0.00
ESVCB3	5/10/2018	4:20	0.00
ESVCB3	5/10/2018	4:25	0.00
ESVCB3	5/10/2018	4:30	0.00
ESVCB3	5/10/2018	4:35	0.00
ESVCB3	5/10/2018	4:40	0.00
ESVCB3	5/10/2018	4:45	0.00
ESVCB3	5/10/2018	4:50	0.00
ESVCB3	5/10/2018	4:55	0.00
ESVCB3	5/10/2018	5:00	0.00
ESVCB3	5/10/2018	5:05	0.00
ESVCB3	5/10/2018	5:10	0.00
ESVCB3	5/10/2018	5:15	0.00
ESVCB3	5/10/2018	5:20	0.00
ESVCB3	5/10/2018	5:25	0.00
ESVCB3	5/10/2018	5:30	0.00
ESVCB3	5/10/2018	5:35	0.00
ESVCB3	5/10/2018	5:40	0.00
ESVCB3	5/10/2018	5:45	0.00
ESVCB3	5/10/2018	5:50	0.00
ESVCB3	5/10/2018	5:55	0.00
ESVCB3	5/10/2018	6:00	0.00
ESVCB3	5/10/2018	6:05	0.00
ESVCB3	5/10/2018	6:10	0.00
ESVCB3	5/10/2018	6:15	0.00
ESVCB3	5/10/2018	6:20	0.00
ESVCB3	5/10/2018	6:25	0.00
ESVCB3	5/10/2018	6:30	0.00
ESVCB3	5/10/2018	6:35	0.00
ESVCB3	5/10/2018	6:40	0.00
ESVCB3	5/10/2018	6:45	0.00

ESVCB Ponding Areas

ESVCB3	5/10/2018	6:50	0.00
ESVCB3	5/10/2018	6:55	0.00
ESVCB3	5/10/2018	7:00	0.00
ESVCB3	5/10/2018	7:05	0.00
ESVCB3	5/10/2018	7:10	0.00
ESVCB3	5/10/2018	7:15	0.00
ESVCB3	5/10/2018	7:20	0.00
ESVCB3	5/10/2018	7:25	0.00
ESVCB3	5/10/2018	7:30	0.00
;			
ESCVB4	5/10/2018	0:00	0.00
ESCVB4	5/10/2018	0:05	0.09
ESCVB4	5/10/2018	0:10	1.27
ESCVB4	5/10/2018	0:15	5.67
ESCVB4	5/10/2018	0:20	23.79
ESCVB4	5/10/2018	0:25	80.04
ESCVB4	5/10/2018	0:30	149.30
ESCVB4	5/10/2018	0:35	195.13
ESCVB4	5/10/2018	0:40	218.03
ESCVB4	5/10/2018	0:45	227.36
ESCVB4	5/10/2018	0:50	226.34
ESCVB4	5/10/2018	0:55	221.42
ESCVB4	5/10/2018	1:00	235.40
ESCVB4	5/10/2018	1:05	262.93
ESCVB4	5/10/2018	1:10	319.87
ESCVB4	5/10/2018	1:15	438.78
ESCVB4	5/10/2018	1:20	483.36
ESCVB4	5/10/2018	1:25	455.33
ESCVB4	5/10/2018	1:30	412.70
ESCVB4	5/10/2018	1:35	370.91
ESCVB4	5/10/2018	1:40	328.25
ESCVB4	5/10/2018	1:45	292.91
ESCVB4	5/10/2018	1:50	265.35
ESCVB4	5/10/2018	1:55	229.58
ESCVB4	5/10/2018	2:00	195.16
ESCVB4	5/10/2018	2:05	163.44
ESCVB4	5/10/2018	2:10	137.14
ESCVB4	5/10/2018	2:15	118.69
ESCVB4	5/10/2018	2:20	105.07
ESCVB4	5/10/2018	2:25	94.15
ESCVB4	5/10/2018	2:30	85.09
ESCVB4	5/10/2018	2:35	77.43
ESCVB4	5/10/2018	2:40	70.87
ESCVB4	5/10/2018	2:45	65.43
ESCVB4	5/10/2018	2:50	55.64
ESCVB4	5/10/2018	2:55	45.70
ESCVB4	5/10/2018	3:00	37.73
ESCVB4	5/10/2018	3:05	30.92
ESCVB4	5/10/2018	3:10	24.88
ESCVB4	5/10/2018	3:15	19.58
ESCVB4	5/10/2018	3:20	14.85
ESCVB4	5/10/2018	3:25	10.64
ESCVB4	5/10/2018	3:30	7.41
ESCVB4	5/10/2018	3:35	5.29
ESCVB4	5/10/2018	3:40	3.85
ESCVB4	5/10/2018	3:45	2.89
ESCVB4	5/10/2018	3:50	2.15
ESCVB4	5/10/2018	3:55	1.57
ESCVB4	5/10/2018	4:00	1.13
ESCVB4	5/10/2018	4:05	0.84
ESCVB4	5/10/2018	4:10	0.65
ESCVB4	5/10/2018	4:15	0.52
ESCVB4	5/10/2018	4:20	0.41

ESVCB Ponding Areas

ESCVB4	5/10/2018	4:25	0.31
ESCVB4	5/10/2018	4:30	0.23
ESCVB4	5/10/2018	4:35	0.16
ESCVB4	5/10/2018	4:40	0.10
ESCVB4	5/10/2018	4:45	0.06
ESCVB4	5/10/2018	4:50	0.03
ESCVB4	5/10/2018	4:55	0.01
ESCVB4	5/10/2018	5:00	0.00
ESCVB4	5/10/2018	5:05	0.00
ESCVB4	5/10/2018	5:10	0.00
ESCVB4	5/10/2018	5:15	0.00
ESCVB4	5/10/2018	5:20	0.00
ESCVB4	5/10/2018	5:25	0.00
ESCVB4	5/10/2018	5:30	0.00
ESCVB4	5/10/2018	5:35	0.00
ESCVB4	5/10/2018	5:40	0.00
ESCVB4	5/10/2018	5:45	0.00
ESCVB4	5/10/2018	5:50	0.00
ESCVB4	5/10/2018	5:55	0.00
ESCVB4	5/10/2018	6:00	0.00
ESCVB4	5/10/2018	6:05	0.00
ESCVB4	5/10/2018	6:10	0.00
ESCVB4	5/10/2018	6:15	0.00
ESCVB4	5/10/2018	6:20	0.00
ESCVB4	5/10/2018	6:25	0.00
ESCVB4	5/10/2018	6:30	0.00
ESCVB4	5/10/2018	6:35	0.00
ESCVB4	5/10/2018	6:40	0.00
ESCVB4	5/10/2018	6:45	0.00
ESCVB4	5/10/2018	6:50	0.00
ESCVB4	5/10/2018	6:55	0.00
ESCVB4	5/10/2018	7:00	0.00
ESCVB4	5/10/2018	7:05	0.00
ESCVB4	5/10/2018	7:10	0.00
ESCVB4	5/10/2018	7:15	0.00
ESCVB4	5/10/2018	7:20	0.00
ESCVB4	5/10/2018	7:25	0.00
ESCVB4	5/10/2018	7:30	0.00
;			
ESVCB6	5/10/2018	0:00	0.00
ESVCB6	5/10/2018	0:05	0.27
ESVCB6	5/10/2018	0:10	3.72
ESVCB6	5/10/2018	0:15	13.20
ESVCB6	5/10/2018	0:20	41.05
ESVCB6	5/10/2018	0:25	114.73
ESVCB6	5/10/2018	0:30	201.54
ESVCB6	5/10/2018	0:35	256.64
ESVCB6	5/10/2018	0:40	279.09
ESVCB6	5/10/2018	0:45	280.10
ESVCB6	5/10/2018	0:50	269.48
ESVCB6	5/10/2018	0:55	257.37
ESVCB6	5/10/2018	1:00	245.73
ESVCB6	5/10/2018	1:05	232.68
ESVCB6	5/10/2018	1:10	230.23
ESVCB6	5/10/2018	1:15	270.50
ESVCB6	5/10/2018	1:20	295.08
ESVCB6	5/10/2018	1:25	295.97
ESVCB6	5/10/2018	1:30	285.60
ESVCB6	5/10/2018	1:35	269.51
ESVCB6	5/10/2018	1:40	252.62
ESVCB6	5/10/2018	1:45	237.73
ESVCB6	5/10/2018	1:50	224.95
ESVCB6	5/10/2018	1:55	209.32

ESVCB Ponding Areas

ESVCB6	5/10/2018	2:00	192.31
ESVCB6	5/10/2018	2:05	173.69
ESVCB6	5/10/2018	2:10	155.38
ESVCB6	5/10/2018	2:15	138.26
ESVCB6	5/10/2018	2:20	122.30
ESVCB6	5/10/2018	2:25	108.16
ESVCB6	5/10/2018	2:30	95.18
ESVCB6	5/10/2018	2:35	82.99
ESVCB6	5/10/2018	2:40	71.62
ESVCB6	5/10/2018	2:45	61.65
ESVCB6	5/10/2018	2:50	53.43
ESVCB6	5/10/2018	2:55	46.41
ESVCB6	5/10/2018	3:00	40.46
ESVCB6	5/10/2018	3:05	35.37
ESVCB6	5/10/2018	3:10	30.90
ESVCB6	5/10/2018	3:15	26.84
ESVCB6	5/10/2018	3:20	23.18
ESVCB6	5/10/2018	3:25	19.99
ESVCB6	5/10/2018	3:30	17.52
ESVCB6	5/10/2018	3:35	15.49
ESVCB6	5/10/2018	3:40	13.70
ESVCB6	5/10/2018	3:45	12.08
ESVCB6	5/10/2018	3:50	10.60
ESVCB6	5/10/2018	3:55	9.24
ESVCB6	5/10/2018	4:00	7.97
ESVCB6	5/10/2018	4:05	6.81
ESVCB6	5/10/2018	4:10	5.71
ESVCB6	5/10/2018	4:15	4.68
ESVCB6	5/10/2018	4:20	3.80
ESVCB6	5/10/2018	4:25	3.00
ESVCB6	5/10/2018	4:30	2.26
ESVCB6	5/10/2018	4:35	1.60
ESVCB6	5/10/2018	4:40	1.14
ESVCB6	5/10/2018	4:45	0.83
ESVCB6	5/10/2018	4:50	0.60
ESVCB6	5/10/2018	4:55	0.44
ESVCB6	5/10/2018	5:00	0.32
ESVCB6	5/10/2018	5:05	0.23
ESVCB6	5/10/2018	5:10	0.16
ESVCB6	5/10/2018	5:15	0.12
ESVCB6	5/10/2018	5:20	0.10
ESVCB6	5/10/2018	5:25	0.08
ESVCB6	5/10/2018	5:30	0.06
ESVCB6	5/10/2018	5:35	0.04
ESVCB6	5/10/2018	5:40	0.03
ESVCB6	5/10/2018	5:45	0.02
ESVCB6	5/10/2018	5:50	0.01
ESVCB6	5/10/2018	5:55	0.01
ESVCB6	5/10/2018	6:00	0.00
ESVCB6	5/10/2018	6:05	0.00
ESVCB6	5/10/2018	6:10	0.00
ESVCB6	5/10/2018	6:15	0.00
ESVCB6	5/10/2018	6:20	0.00
ESVCB6	5/10/2018	6:25	0.00
ESVCB6	5/10/2018	6:30	0.00
ESVCB6	5/10/2018	6:35	0.00
ESVCB6	5/10/2018	6:40	0.00
ESVCB6	5/10/2018	6:45	0.00
ESVCB6	5/10/2018	6:50	0.00
ESVCB6	5/10/2018	6:55	0.00
ESVCB6	5/10/2018	7:00	0.00
ESVCB6	5/10/2018	7:05	0.00
ESVCB6	5/10/2018	7:10	0.00

ESVCB Ponding Areas

ESVCB6	5/10/2018	7:15	0.00
ESVCB6	5/10/2018	7:20	0.00
ESVCB6	5/10/2018	7:25	0.00
ESVCB6	5/10/2018	7:30	0.00
;			
ESVCB7	5/10/2018	0:00	0.00
ESVCB7	5/10/2018	0:05	0.02
ESVCB7	5/10/2018	0:10	0.27
ESVCB7	5/10/2018	0:15	1.18
ESVCB7	5/10/2018	0:20	5.65
ESVCB7	5/10/2018	0:25	21.71
ESVCB7	5/10/2018	0:30	35.58
ESVCB7	5/10/2018	0:35	42.50
ESVCB7	5/10/2018	0:40	46.02
ESVCB7	5/10/2018	0:45	47.48
ESVCB7	5/10/2018	0:50	47.15
ESVCB7	5/10/2018	0:55	46.12
ESVCB7	5/10/2018	1:00	45.37
ESVCB7	5/10/2018	1:05	43.49
ESVCB7	5/10/2018	1:10	41.03
ESVCB7	5/10/2018	1:15	38.23
ESVCB7	5/10/2018	1:20	35.47
ESVCB7	5/10/2018	1:25	33.05
ESVCB7	5/10/2018	1:30	30.84
ESVCB7	5/10/2018	1:35	28.79
ESVCB7	5/10/2018	1:40	26.82
ESVCB7	5/10/2018	1:45	24.93
ESVCB7	5/10/2018	1:50	23.08
ESVCB7	5/10/2018	1:55	21.27
ESVCB7	5/10/2018	2:00	19.38
ESVCB7	5/10/2018	2:05	17.50
ESVCB7	5/10/2018	2:10	15.91
ESVCB7	5/10/2018	2:15	14.63
ESVCB7	5/10/2018	2:20	13.53
ESVCB7	5/10/2018	2:25	12.54
ESVCB7	5/10/2018	2:30	11.64
ESVCB7	5/10/2018	2:35	10.80
ESVCB7	5/10/2018	2:40	10.01
ESVCB7	5/10/2018	2:45	9.28
ESVCB7	5/10/2018	2:50	8.58
ESVCB7	5/10/2018	2:55	7.90
ESVCB7	5/10/2018	3:00	7.23
ESVCB7	5/10/2018	3:05	6.56
ESVCB7	5/10/2018	3:10	5.90
ESVCB7	5/10/2018	3:15	5.23
ESVCB7	5/10/2018	3:20	4.58
ESVCB7	5/10/2018	3:25	3.92
ESVCB7	5/10/2018	3:30	3.27
ESVCB7	5/10/2018	3:35	2.63
ESVCB7	5/10/2018	3:40	2.00
ESVCB7	5/10/2018	3:45	1.43
ESVCB7	5/10/2018	3:50	1.03
ESVCB7	5/10/2018	3:55	0.76
ESVCB7	5/10/2018	4:00	0.56
ESVCB7	5/10/2018	4:05	0.41
ESVCB7	5/10/2018	4:10	0.30
ESVCB7	5/10/2018	4:15	0.21
ESVCB7	5/10/2018	4:20	0.15
ESVCB7	5/10/2018	4:25	0.12
ESVCB7	5/10/2018	4:30	0.09
ESVCB7	5/10/2018	4:35	0.07
ESVCB7	5/10/2018	4:40	0.06
ESVCB7	5/10/2018	4:45	0.04

ESVCB Ponding Areas

ESVCB7	5/10/2018	4:50	0.03
ESVCB7	5/10/2018	4:55	0.02
ESVCB7	5/10/2018	5:00	0.01
ESVCB7	5/10/2018	5:05	0.01
ESVCB7	5/10/2018	5:10	0.00
ESVCB7	5/10/2018	5:15	0.00
;			
ESVCB8	5/10/2018	0:00	0.00
ESVCB8	5/10/2018	0:05	0.01
ESVCB8	5/10/2018	0:10	0.08
ESVCB8	5/10/2018	0:15	0.60
ESVCB8	5/10/2018	0:20	9.20
ESVCB8	5/10/2018	0:25	59.51
ESVCB8	5/10/2018	0:30	151.58
ESVCB8	5/10/2018	0:35	245.84
ESVCB8	5/10/2018	0:40	317.60
ESVCB8	5/10/2018	0:45	360.57
ESVCB8	5/10/2018	0:50	382.65
ESVCB8	5/10/2018	0:55	388.90
ESVCB8	5/10/2018	1:00	383.14
ESVCB8	5/10/2018	1:05	370.52
ESVCB8	5/10/2018	1:10	359.57
ESVCB8	5/10/2018	1:15	353.96
ESVCB8	5/10/2018	1:20	376.96
ESVCB8	5/10/2018	1:25	482.87
ESVCB8	5/10/2018	1:30	617.05
ESVCB8	5/10/2018	1:35	698.59
ESVCB8	5/10/2018	1:40	726.37
ESVCB8	5/10/2018	1:45	720.51
ESVCB8	5/10/2018	1:50	693.45
ESVCB8	5/10/2018	1:55	661.60
ESVCB8	5/10/2018	2:00	649.43
ESVCB8	5/10/2018	2:05	649.66
ESVCB8	5/10/2018	2:10	689.98
ESVCB8	5/10/2018	2:15	835.43
ESVCB8	5/10/2018	2:20	893.08
ESVCB8	5/10/2018	2:25	856.89
ESVCB8	5/10/2018	2:30	796.16
ESVCB8	5/10/2018	2:35	731.35
ESVCB8	5/10/2018	2:40	665.49
ESVCB8	5/10/2018	2:45	609.39
ESVCB8	5/10/2018	2:50	563.56
ESVCB8	5/10/2018	2:55	507.06
ESVCB8	5/10/2018	3:00	450.74
ESVCB8	5/10/2018	3:05	395.60
ESVCB8	5/10/2018	3:10	346.23
ESVCB8	5/10/2018	3:15	305.93
ESVCB8	5/10/2018	3:20	271.60
ESVCB8	5/10/2018	3:25	241.82
ESVCB8	5/10/2018	3:30	215.06
ESVCB8	5/10/2018	3:35	190.48
ESVCB8	5/10/2018	3:40	167.85
ESVCB8	5/10/2018	3:45	147.75
ESVCB8	5/10/2018	3:50	125.05
ESVCB8	5/10/2018	3:55	103.54
ESVCB8	5/10/2018	4:00	85.83
ESVCB8	5/10/2018	4:05	71.58
ESVCB8	5/10/2018	4:10	59.46
ESVCB8	5/10/2018	4:15	48.95
ESVCB8	5/10/2018	4:20	39.70
ESVCB8	5/10/2018	4:25	31.67
ESVCB8	5/10/2018	4:30	25.54
ESVCB8	5/10/2018	4:35	21.14

ESVCB Ponding Areas

ESVCB8	5/10/2018	4:40	17.80
ESVCB8	5/10/2018	4:45	15.15
ESVCB8	5/10/2018	4:50	12.89
ESVCB8	5/10/2018	4:55	10.91
ESVCB8	5/10/2018	5:00	9.19
ESVCB8	5/10/2018	5:05	7.71
ESVCB8	5/10/2018	5:10	6.40
ESVCB8	5/10/2018	5:15	5.22
ESVCB8	5/10/2018	5:20	4.22
ESVCB8	5/10/2018	5:25	3.32
ESVCB8	5/10/2018	5:30	2.49
ESVCB8	5/10/2018	5:35	1.76
ESVCB8	5/10/2018	5:40	1.24
ESVCB8	5/10/2018	5:45	0.88
ESVCB8	5/10/2018	5:50	0.63
ESVCB8	5/10/2018	5:55	0.45
ESVCB8	5/10/2018	6:00	0.32
ESVCB8	5/10/2018	6:05	0.23
ESVCB8	5/10/2018	6:10	0.16
ESVCB8	5/10/2018	6:15	0.12
ESVCB8	5/10/2018	6:20	0.10
ESVCB8	5/10/2018	6:25	0.08
ESVCB8	5/10/2018	6:30	0.06
ESVCB8	5/10/2018	6:35	0.04
ESVCB8	5/10/2018	6:40	0.03
ESVCB8	5/10/2018	6:45	0.02
ESVCB8	5/10/2018	6:50	0.01
ESVCB8	5/10/2018	6:55	0.01
ESVCB8	5/10/2018	7:00	0.00
ESVCB8	5/10/2018	7:05	0.00
ESVCB8	5/10/2018	7:10	0.00
ESVCB8	5/10/2018	7:15	0.00
ESVCB8	5/10/2018	7:20	0.00
ESVCB8	5/10/2018	7:25	0.00
ESVCB8	5/10/2018	7:30	0.00
;			
ESVCB11	5/10/2018	0:00	0.00
ESVCB11	5/10/2018	0:05	0.00
ESVCB11	5/10/2018	0:10	0.04
ESVCB11	5/10/2018	0:15	0.33
ESVCB11	5/10/2018	0:20	5.97
ESVCB11	5/10/2018	0:25	36.26
ESVCB11	5/10/2018	0:30	71.14
ESVCB11	5/10/2018	0:35	90.31
ESVCB11	5/10/2018	0:40	99.22
ESVCB11	5/10/2018	0:45	101.75
ESVCB11	5/10/2018	0:50	99.24
ESVCB11	5/10/2018	0:55	96.20
ESVCB11	5/10/2018	1:00	93.39
ESVCB11	5/10/2018	1:05	88.26
ESVCB11	5/10/2018	1:10	81.45
ESVCB11	5/10/2018	1:15	74.99
ESVCB11	5/10/2018	1:20	68.58
ESVCB11	5/10/2018	1:25	62.48
ESVCB11	5/10/2018	1:30	56.83
ESVCB11	5/10/2018	1:35	51.40
ESVCB11	5/10/2018	1:40	46.16
ESVCB11	5/10/2018	1:45	41.07
ESVCB11	5/10/2018	1:50	36.35
ESVCB11	5/10/2018	1:55	32.75
ESVCB11	5/10/2018	2:00	29.81
ESVCB11	5/10/2018	2:05	27.19
ESVCB11	5/10/2018	2:10	24.81

ESVCB Ponding Areas

ESVCB11	5/10/2018	2:15	22.62
ESVCB11	5/10/2018	2:20	20.57
ESVCB11	5/10/2018	2:25	18.67
ESVCB11	5/10/2018	2:30	16.89
ESVCB11	5/10/2018	2:35	15.17
ESVCB11	5/10/2018	2:40	13.47
ESVCB11	5/10/2018	2:45	11.78
ESVCB11	5/10/2018	2:50	10.10
ESVCB11	5/10/2018	2:55	8.42
ESVCB11	5/10/2018	3:00	6.74
ESVCB11	5/10/2018	3:05	5.06
ESVCB11	5/10/2018	3:10	3.48
ESVCB11	5/10/2018	3:15	2.35
ESVCB11	5/10/2018	3:20	1.63
ESVCB11	5/10/2018	3:25	1.12
ESVCB11	5/10/2018	3:30	0.75
ESVCB11	5/10/2018	3:35	0.49
ESVCB11	5/10/2018	3:40	0.29
ESVCB11	5/10/2018	3:45	0.16
ESVCB11	5/10/2018	3:50	0.10
ESVCB11	5/10/2018	3:55	0.07
ESVCB11	5/10/2018	4:00	0.05
ESVCB11	5/10/2018	4:05	0.04
ESVCB11	5/10/2018	4:10	0.03
ESVCB11	5/10/2018	4:15	0.02
ESVCB11	5/10/2018	4:20	0.02
ESVCB11	5/10/2018	4:25	0.01
ESVCB11	5/10/2018	4:30	0.01
ESVCB11	5/10/2018	4:35	0.00
ESVCB11	5/10/2018	4:40	0.00
;			
ESVCB13	5/10/2018	0:00	0.00
ESVCB13	5/10/2018	0:05	0.06
ESVCB13	5/10/2018	0:10	0.77
ESVCB13	5/10/2018	0:15	2.62
ESVCB13	5/10/2018	0:20	10.49
ESVCB13	5/10/2018	0:25	35.43
ESVCB13	5/10/2018	0:30	49.20
ESVCB13	5/10/2018	0:35	53.73
ESVCB13	5/10/2018	0:40	53.72
ESVCB13	5/10/2018	0:45	52.04
ESVCB13	5/10/2018	0:50	49.30
ESVCB13	5/10/2018	0:55	46.58
ESVCB13	5/10/2018	1:00	44.55
ESVCB13	5/10/2018	1:05	40.75
ESVCB13	5/10/2018	1:10	36.87
ESVCB13	5/10/2018	1:15	32.45
ESVCB13	5/10/2018	1:20	28.25
ESVCB13	5/10/2018	1:25	24.42
ESVCB13	5/10/2018	1:30	21.60
ESVCB13	5/10/2018	1:35	19.36
ESVCB13	5/10/2018	1:40	17.40
ESVCB13	5/10/2018	1:45	15.64
ESVCB13	5/10/2018	1:50	14.02
ESVCB13	5/10/2018	1:55	12.49
ESVCB13	5/10/2018	2:00	10.76
ESVCB13	5/10/2018	2:05	9.10
ESVCB13	5/10/2018	2:10	7.49
ESVCB13	5/10/2018	2:15	5.95
ESVCB13	5/10/2018	2:20	4.48
ESVCB13	5/10/2018	2:25	3.19
ESVCB13	5/10/2018	2:30	2.36
ESVCB13	5/10/2018	2:35	1.77

ESVCB Ponding Areas

ESVCB13	5/10/2018	2:40	1.32
ESVCB13	5/10/2018	2:45	0.98
ESVCB13	5/10/2018	2:50	0.71
ESVCB13	5/10/2018	2:55	0.52
ESVCB13	5/10/2018	3:00	0.38
ESVCB13	5/10/2018	3:05	0.30
ESVCB13	5/10/2018	3:10	0.24
ESVCB13	5/10/2018	3:15	0.19
ESVCB13	5/10/2018	3:20	0.15
ESVCB13	5/10/2018	3:25	0.11
ESVCB13	5/10/2018	3:30	0.08
ESVCB13	5/10/2018	3:35	0.05
ESVCB13	5/10/2018	3:40	0.03
ESVCB13	5/10/2018	3:45	0.02
ESVCB13	5/10/2018	3:50	0.00
ESVCB13	5/10/2018	3:55	0.00
;			
ESVCB14	5/10/2018	0:00	0.00
ESVCB14	5/10/2018	0:05	0.41
ESVCB14	5/10/2018	0:10	5.15
ESVCB14	5/10/2018	0:15	17.79
ESVCB14	5/10/2018	0:20	69.06
ESVCB14	5/10/2018	0:25	207.67
ESVCB14	5/10/2018	0:30	279.22
ESVCB14	5/10/2018	0:35	280.22
ESVCB14	5/10/2018	0:40	262.71
ESVCB14	5/10/2018	0:45	239.81
ESVCB14	5/10/2018	0:50	214.94
ESVCB14	5/10/2018	0:55	191.72
ESVCB14	5/10/2018	1:00	176.91
ESVCB14	5/10/2018	1:05	181.86
ESVCB14	5/10/2018	1:10	194.48
ESVCB14	5/10/2018	1:15	192.04
ESVCB14	5/10/2018	1:20	181.36
ESVCB14	5/10/2018	1:25	166.84
ESVCB14	5/10/2018	1:30	148.82
ESVCB14	5/10/2018	1:35	132.55
ESVCB14	5/10/2018	1:40	120.81
ESVCB14	5/10/2018	1:45	110.16
ESVCB14	5/10/2018	1:50	99.64
ESVCB14	5/10/2018	1:55	90.53
ESVCB14	5/10/2018	2:00	80.39
ESVCB14	5/10/2018	2:05	70.92
ESVCB14	5/10/2018	2:10	62.85
ESVCB14	5/10/2018	2:15	55.79
ESVCB14	5/10/2018	2:20	49.43
ESVCB14	5/10/2018	2:25	43.51
ESVCB14	5/10/2018	2:30	38.16
ESVCB14	5/10/2018	2:35	34.11
ESVCB14	5/10/2018	2:40	30.81
ESVCB14	5/10/2018	2:45	27.87
ESVCB14	5/10/2018	2:50	25.24
ESVCB14	5/10/2018	2:55	22.86
ESVCB14	5/10/2018	3:00	20.67
ESVCB14	5/10/2018	3:05	18.69
ESVCB14	5/10/2018	3:10	16.89
ESVCB14	5/10/2018	3:15	15.17
ESVCB14	5/10/2018	3:20	13.47
ESVCB14	5/10/2018	3:25	11.78
ESVCB14	5/10/2018	3:30	10.10
ESVCB14	5/10/2018	3:35	8.42
ESVCB14	5/10/2018	3:40	6.74
ESVCB14	5/10/2018	3:45	5.06

ESVCB Ponding Areas

ESVCB14	5/10/2018	3:50	3.48
ESVCB14	5/10/2018	3:55	2.35
ESVCB14	5/10/2018	4:00	1.63
ESVCB14	5/10/2018	4:05	1.12
ESVCB14	5/10/2018	4:10	0.75
ESVCB14	5/10/2018	4:15	0.49
ESVCB14	5/10/2018	4:20	0.29
ESVCB14	5/10/2018	4:25	0.16
ESVCB14	5/10/2018	4:30	0.10
ESVCB14	5/10/2018	4:35	0.07
ESVCB14	5/10/2018	4:40	0.05
ESVCB14	5/10/2018	4:45	0.04
ESVCB14	5/10/2018	4:50	0.03
ESVCB14	5/10/2018	4:55	0.02
ESVCB14	5/10/2018	5:00	0.02
ESVCB14	5/10/2018	5:05	0.01
ESVCB14	5/10/2018	5:10	0.01
ESVCB14	5/10/2018	5:15	0.00
ESVCB14	5/10/2018	5:20	0.00
;			
ESVCB15	5/10/2018	0:00	0.00
ESVCB15	5/10/2018	0:05	1.11
ESVCB15	5/10/2018	0:10	14.58
ESVCB15	5/10/2018	0:15	46.51
ESVCB15	5/10/2018	0:20	124.25
ESVCB15	5/10/2018	0:25	301.17
ESVCB15	5/10/2018	0:30	461.27
ESVCB15	5/10/2018	0:35	514.63
ESVCB15	5/10/2018	0:40	493.81
ESVCB15	5/10/2018	0:45	457.81
ESVCB15	5/10/2018	0:50	423.58
ESVCB15	5/10/2018	0:55	403.22
ESVCB15	5/10/2018	1:00	449.86
ESVCB15	5/10/2018	1:05	663.41
ESVCB15	5/10/2018	1:10	794.98
ESVCB15	5/10/2018	1:15	802.74
ESVCB15	5/10/2018	1:20	761.28
ESVCB15	5/10/2018	1:25	699.91
ESVCB15	5/10/2018	1:30	634.54
ESVCB15	5/10/2018	1:35	571.58
ESVCB15	5/10/2018	1:40	521.95
ESVCB15	5/10/2018	1:45	489.69
ESVCB15	5/10/2018	1:50	467.46
ESVCB15	5/10/2018	1:55	432.66
ESVCB15	5/10/2018	2:00	388.42
ESVCB15	5/10/2018	2:05	341.15
ESVCB15	5/10/2018	2:10	296.03
ESVCB15	5/10/2018	2:15	259.32
ESVCB15	5/10/2018	2:20	230.97
ESVCB15	5/10/2018	2:25	206.39
ESVCB15	5/10/2018	2:30	183.73
ESVCB15	5/10/2018	2:35	163.77
ESVCB15	5/10/2018	2:40	143.16
ESVCB15	5/10/2018	2:45	123.83
ESVCB15	5/10/2018	2:50	106.38
ESVCB15	5/10/2018	2:55	90.35
ESVCB15	5/10/2018	3:00	75.42
ESVCB15	5/10/2018	3:05	61.68
ESVCB15	5/10/2018	3:10	50.76
ESVCB15	5/10/2018	3:15	43.06
ESVCB15	5/10/2018	3:20	37.20
ESVCB15	5/10/2018	3:25	32.41
ESVCB15	5/10/2018	3:30	28.39

ESVCB Ponding Areas

ESVCB15	5/10/2018	3:35	24.98
ESVCB15	5/10/2018	3:40	22.10
ESVCB15	5/10/2018	3:45	19.72
ESVCB15	5/10/2018	3:50	17.68
ESVCB15	5/10/2018	3:55	15.78
ESVCB15	5/10/2018	4:00	13.95
ESVCB15	5/10/2018	4:05	12.15
ESVCB15	5/10/2018	4:10	10.36
ESVCB15	5/10/2018	4:15	8.60
ESVCB15	5/10/2018	4:20	6.85
ESVCB15	5/10/2018	4:25	5.12
ESVCB15	5/10/2018	4:30	3.51
ESVCB15	5/10/2018	4:35	2.36
ESVCB15	5/10/2018	4:40	1.63
ESVCB15	5/10/2018	4:45	1.12
ESVCB15	5/10/2018	4:50	0.75
ESVCB15	5/10/2018	4:55	0.49
ESVCB15	5/10/2018	5:00	0.29
ESVCB15	5/10/2018	5:05	0.16
ESVCB15	5/10/2018	5:10	0.10
ESVCB15	5/10/2018	5:15	0.07
ESVCB15	5/10/2018	5:20	0.05
ESVCB15	5/10/2018	5:25	0.04
ESVCB15	5/10/2018	5:30	0.03
ESVCB15	5/10/2018	5:35	0.02
ESVCB15	5/10/2018	5:40	0.02
ESVCB15	5/10/2018	5:45	0.01
ESVCB15	5/10/2018	5:50	0.01
ESVCB15	5/10/2018	5:55	0.00
;			
ESVCB16	5/10/2018	0:00	0.00
ESVCB16	5/10/2018	0:05	0.00
ESVCB16	5/10/2018	0:10	0.06
ESVCB16	5/10/2018	0:15	0.51
ESVCB16	5/10/2018	0:20	9.14
ESVCB16	5/10/2018	0:25	62.06
ESVCB16	5/10/2018	0:30	162.39
ESVCB16	5/10/2018	0:35	271.04
ESVCB16	5/10/2018	0:40	359.39
ESVCB16	5/10/2018	0:45	416.62
ESVCB16	5/10/2018	0:50	447.67
ESVCB16	5/10/2018	0:55	459.10
ESVCB16	5/10/2018	1:00	454.94
ESVCB16	5/10/2018	1:05	438.99
ESVCB16	5/10/2018	1:10	420.98
ESVCB16	5/10/2018	1:15	398.80
ESVCB16	5/10/2018	1:20	372.30
ESVCB16	5/10/2018	1:25	344.01
ESVCB16	5/10/2018	1:30	317.37
ESVCB16	5/10/2018	1:35	293.90
ESVCB16	5/10/2018	1:40	272.72
ESVCB16	5/10/2018	1:45	253.43
ESVCB16	5/10/2018	1:50	235.10
ESVCB16	5/10/2018	1:55	217.57
ESVCB16	5/10/2018	2:00	200.45
ESVCB16	5/10/2018	2:05	183.68
ESVCB16	5/10/2018	2:10	167.11
ESVCB16	5/10/2018	2:15	150.87
ESVCB16	5/10/2018	2:20	136.52
ESVCB16	5/10/2018	2:25	125.48
ESVCB16	5/10/2018	2:30	116.22
ESVCB16	5/10/2018	2:35	107.97
ESVCB16	5/10/2018	2:40	100.48

ESVCB Ponding Areas

ESVCB16	5/10/2018	2:45	93.54
ESVCB16	5/10/2018	2:50	87.04
ESVCB16	5/10/2018	2:55	81.00
ESVCB16	5/10/2018	3:00	75.28
ESVCB16	5/10/2018	3:05	69.66
ESVCB16	5/10/2018	3:10	64.12
ESVCB16	5/10/2018	3:15	58.58
ESVCB16	5/10/2018	3:20	53.05
ESVCB16	5/10/2018	3:25	47.53
ESVCB16	5/10/2018	3:30	42.01
ESVCB16	5/10/2018	3:35	36.51
ESVCB16	5/10/2018	3:40	31.01
ESVCB16	5/10/2018	3:45	25.52
ESVCB16	5/10/2018	3:50	20.04
ESVCB16	5/10/2018	3:55	14.61
ESVCB16	5/10/2018	4:00	9.65
ESVCB16	5/10/2018	4:05	6.62
ESVCB16	5/10/2018	4:10	4.61
ESVCB16	5/10/2018	4:15	3.15
ESVCB16	5/10/2018	4:20	2.08
ESVCB16	5/10/2018	4:25	1.30
ESVCB16	5/10/2018	4:30	0.74
ESVCB16	5/10/2018	4:35	0.40
ESVCB16	5/10/2018	4:40	0.26
ESVCB16	5/10/2018	4:45	0.18
ESVCB16	5/10/2018	4:50	0.15
ESVCB16	5/10/2018	4:55	0.11
ESVCB16	5/10/2018	5:00	0.08
ESVCB16	5/10/2018	5:05	0.06
ESVCB16	5/10/2018	5:10	0.04
ESVCB16	5/10/2018	5:15	0.02
ESVCB16	5/10/2018	5:20	0.01
ESVCB16	5/10/2018	5:25	0.00
;			
ESVCB17	5/10/2018	0:00	0.00
ESVCB17	5/10/2018	0:05	0.00
ESVCB17	5/10/2018	0:10	0.05
ESVCB17	5/10/2018	0:15	0.40
ESVCB17	5/10/2018	0:20	6.17
ESVCB17	5/10/2018	0:25	37.24
ESVCB17	5/10/2018	0:30	79.40
ESVCB17	5/10/2018	0:35	107.62
ESVCB17	5/10/2018	0:40	122.07
ESVCB17	5/10/2018	0:45	128.49
ESVCB17	5/10/2018	0:50	128.54
ESVCB17	5/10/2018	0:55	124.77
ESVCB17	5/10/2018	1:00	121.67
ESVCB17	5/10/2018	1:05	116.73
ESVCB17	5/10/2018	1:10	109.34
ESVCB17	5/10/2018	1:15	100.86
ESVCB17	5/10/2018	1:20	92.89
ESVCB17	5/10/2018	1:25	85.50
ESVCB17	5/10/2018	1:30	78.64
ESVCB17	5/10/2018	1:35	72.29
ESVCB17	5/10/2018	1:40	66.21
ESVCB17	5/10/2018	1:45	60.35
ESVCB17	5/10/2018	1:50	54.64
ESVCB17	5/10/2018	1:55	49.10
ESVCB17	5/10/2018	2:00	43.81
ESVCB17	5/10/2018	2:05	39.75
ESVCB17	5/10/2018	2:10	36.42
ESVCB17	5/10/2018	2:15	33.48
ESVCB17	5/10/2018	2:20	30.81

ESVCB Ponding Areas

ESVCB17	5/10/2018	2:25	28.36
ESVCB17	5/10/2018	2:30	26.08
ESVCB17	5/10/2018	2:35	23.94
ESVCB17	5/10/2018	2:40	21.96
ESVCB17	5/10/2018	2:45	20.02
ESVCB17	5/10/2018	2:50	18.12
ESVCB17	5/10/2018	2:55	16.22
ESVCB17	5/10/2018	3:00	14.33
ESVCB17	5/10/2018	3:05	12.44
ESVCB17	5/10/2018	3:10	10.56
ESVCB17	5/10/2018	3:15	8.67
ESVCB17	5/10/2018	3:20	6.80
ESVCB17	5/10/2018	3:25	4.94
ESVCB17	5/10/2018	3:30	3.29
ESVCB17	5/10/2018	3:35	2.27
ESVCB17	5/10/2018	3:40	1.59
ESVCB17	5/10/2018	3:45	1.09
ESVCB17	5/10/2018	3:50	0.73
ESVCB17	5/10/2018	3:55	0.46
ESVCB17	5/10/2018	4:00	0.27
ESVCB17	5/10/2018	4:05	0.15
ESVCB17	5/10/2018	4:10	0.11
ESVCB17	5/10/2018	4:15	0.08
ESVCB17	5/10/2018	4:20	0.06
ESVCB17	5/10/2018	4:25	0.05
ESVCB17	5/10/2018	4:30	0.04
ESVCB17	5/10/2018	4:35	0.02
ESVCB17	5/10/2018	4:40	0.02
ESVCB17	5/10/2018	4:45	0.01
ESVCB17	5/10/2018	4:50	0.00
ESVCB17	5/10/2018	4:55	0.00
;			
ESVCB18	5/10/2018	0:00	0.00
ESVCB18	5/10/2018	0:05	0.00
ESVCB18	5/10/2018	0:10	0.03
ESVCB18	5/10/2018	0:15	0.27
ESVCB18	5/10/2018	0:20	5.27
ESVCB18	5/10/2018	0:25	34.04
ESVCB18	5/10/2018	0:30	75.06
ESVCB18	5/10/2018	0:35	104.19
ESVCB18	5/10/2018	0:40	119.36
ESVCB18	5/10/2018	0:45	126.46
ESVCB18	5/10/2018	0:50	127.22
ESVCB18	5/10/2018	0:55	123.58
ESVCB18	5/10/2018	1:00	120.62
ESVCB18	5/10/2018	1:05	116.13
ESVCB18	5/10/2018	1:10	109.93
ESVCB18	5/10/2018	1:15	116.09
ESVCB18	5/10/2018	1:20	192.06
ESVCB18	5/10/2018	1:25	327.20
ESVCB18	5/10/2018	1:30	457.30
ESVCB18	5/10/2018	1:35	553.88
ESVCB18	5/10/2018	1:40	611.58
ESVCB18	5/10/2018	1:45	636.97
ESVCB18	5/10/2018	1:50	639.08
ESVCB18	5/10/2018	1:55	626.43
ESVCB18	5/10/2018	2:00	600.32
ESVCB18	5/10/2018	2:05	570.49
ESVCB18	5/10/2018	2:10	536.35
ESVCB18	5/10/2018	2:15	498.93
ESVCB18	5/10/2018	2:20	460.60
ESVCB18	5/10/2018	2:25	424.67
ESVCB18	5/10/2018	2:30	392.61

ESVCB Ponding Areas

ESVCB18	5/10/2018	2:35	363.24
ESVCB18	5/10/2018	2:40	336.14
ESVCB18	5/10/2018	2:45	310.23
ESVCB18	5/10/2018	2:50	285.33
ESVCB18	5/10/2018	2:55	261.10
ESVCB18	5/10/2018	3:00	238.46
ESVCB18	5/10/2018	3:05	216.75
ESVCB18	5/10/2018	3:10	195.75
ESVCB18	5/10/2018	3:15	176.94
ESVCB18	5/10/2018	3:20	161.65
ESVCB18	5/10/2018	3:25	148.30
ESVCB18	5/10/2018	3:30	136.17
ESVCB18	5/10/2018	3:35	125.27
ESVCB18	5/10/2018	3:40	115.51
ESVCB18	5/10/2018	3:45	106.51
ESVCB18	5/10/2018	3:50	98.13
ESVCB18	5/10/2018	3:55	90.20
ESVCB18	5/10/2018	4:00	82.47
ESVCB18	5/10/2018	4:05	74.88
ESVCB18	5/10/2018	4:10	67.37
ESVCB18	5/10/2018	4:15	59.92
ESVCB18	5/10/2018	4:20	52.53
ESVCB18	5/10/2018	4:25	45.34
ESVCB18	5/10/2018	4:30	38.81
ESVCB18	5/10/2018	4:35	32.62
ESVCB18	5/10/2018	4:40	26.63
ESVCB18	5/10/2018	4:45	20.78
ESVCB18	5/10/2018	4:50	15.08
ESVCB18	5/10/2018	4:55	9.93
ESVCB18	5/10/2018	5:00	6.78
ESVCB18	5/10/2018	5:05	4.72
ESVCB18	5/10/2018	5:10	3.22
ESVCB18	5/10/2018	5:15	2.14
ESVCB18	5/10/2018	5:20	1.35
ESVCB18	5/10/2018	5:25	0.77
ESVCB18	5/10/2018	5:30	0.42
ESVCB18	5/10/2018	5:35	0.28
ESVCB18	5/10/2018	5:40	0.19
ESVCB18	5/10/2018	5:45	0.15
ESVCB18	5/10/2018	5:50	0.11
ESVCB18	5/10/2018	5:55	0.08
ESVCB18	5/10/2018	6:00	0.06
ESVCB18	5/10/2018	6:05	0.04
ESVCB18	5/10/2018	6:10	0.02
ESVCB18	5/10/2018	6:15	0.01
ESVCB18	5/10/2018	6:20	0.00
ESVCB18	5/10/2018	6:25	0.00
;			
ESVCB19	5/10/2018	0:00	0.00
ESVCB19	5/10/2018	0:05	0.03
ESVCB19	5/10/2018	0:10	0.31
ESVCB19	5/10/2018	0:15	1.05
ESVCB19	5/10/2018	0:20	4.24
ESVCB19	5/10/2018	0:25	14.33
ESVCB19	5/10/2018	0:30	19.39
ESVCB19	5/10/2018	0:35	21.13
ESVCB19	5/10/2018	0:40	21.36
ESVCB19	5/10/2018	0:45	20.82
ESVCB19	5/10/2018	0:50	19.91
ESVCB19	5/10/2018	0:55	19.04
ESVCB19	5/10/2018	1:00	18.50
ESVCB19	5/10/2018	1:05	22.06
ESVCB19	5/10/2018	1:10	49.45

ESVCB Ponding Areas			
ESVCB19	5/10/2018	1:15	88.87
ESVCB19	5/10/2018	1:20	116.48
ESVCB19	5/10/2018	1:25	130.20
ESVCB19	5/10/2018	1:30	135.97
ESVCB19	5/10/2018	1:35	135.70
ESVCB19	5/10/2018	1:40	131.26
ESVCB19	5/10/2018	1:45	127.60
ESVCB19	5/10/2018	1:50	122.49
ESVCB19	5/10/2018	1:55	115.71
ESVCB19	5/10/2018	2:00	121.21
ESVCB19	5/10/2018	2:05	196.55
ESVCB19	5/10/2018	2:10	331.10
ESVCB19	5/10/2018	2:15	460.64
ESVCB19	5/10/2018	2:20	556.68
ESVCB19	5/10/2018	2:25	613.85
ESVCB19	5/10/2018	2:30	638.73
ESVCB19	5/10/2018	2:35	640.37
ESVCB19	5/10/2018	2:40	627.36
ESVCB19	5/10/2018	2:45	601.01
ESVCB19	5/10/2018	2:50	571.00
ESVCB19	5/10/2018	2:55	536.74
ESVCB19	5/10/2018	3:00	499.21
ESVCB19	5/10/2018	3:05	460.81
ESVCB19	5/10/2018	3:10	424.82
ESVCB19	5/10/2018	3:15	392.73
ESVCB19	5/10/2018	3:20	363.34
ESVCB19	5/10/2018	3:25	336.22
ESVCB19	5/10/2018	3:30	310.29
ESVCB19	5/10/2018	3:35	285.37
ESVCB19	5/10/2018	3:40	261.13
ESVCB19	5/10/2018	3:45	238.48
ESVCB19	5/10/2018	3:50	216.76
ESVCB19	5/10/2018	3:55	195.76
ESVCB19	5/10/2018	4:00	176.94
ESVCB19	5/10/2018	4:05	161.65
ESVCB19	5/10/2018	4:10	148.30
ESVCB19	5/10/2018	4:15	136.17
ESVCB19	5/10/2018	4:20	125.27
ESVCB19	5/10/2018	4:25	115.51
ESVCB19	5/10/2018	4:30	106.51
ESVCB19	5/10/2018	4:35	98.13
ESVCB19	5/10/2018	4:40	90.20
ESVCB19	5/10/2018	4:45	82.47
ESVCB19	5/10/2018	4:50	74.88
ESVCB19	5/10/2018	4:55	67.37
ESVCB19	5/10/2018	5:00	59.92
ESVCB19	5/10/2018	5:05	52.53
ESVCB19	5/10/2018	5:10	45.34
ESVCB19	5/10/2018	5:15	38.81
ESVCB19	5/10/2018	5:20	32.62
ESVCB19	5/10/2018	5:25	26.63
ESVCB19	5/10/2018	5:30	20.78
ESVCB19	5/10/2018	5:35	15.08
ESVCB19	5/10/2018	5:40	9.93
ESVCB19	5/10/2018	5:45	6.78
ESVCB19	5/10/2018	5:50	4.72
ESVCB19	5/10/2018	5:55	3.22
ESVCB19	5/10/2018	6:00	2.14
ESVCB19	5/10/2018	6:05	1.35
ESVCB19	5/10/2018	6:10	0.77
ESVCB19	5/10/2018	6:15	0.42
ESVCB19	5/10/2018	6:20	0.28
ESVCB19	5/10/2018	6:25	0.19

ESVCB Ponding Areas

ESVCB19	5/10/2018	6:30	0.15
ESVCB19	5/10/2018	6:35	0.11
ESVCB19	5/10/2018	6:40	0.08
ESVCB19	5/10/2018	6:45	0.06
ESVCB19	5/10/2018	6:50	0.04
ESVCB19	5/10/2018	6:55	0.02
ESVCB19	5/10/2018	7:00	0.01
ESVCB19	5/10/2018	7:05	0.00
ESVCB19	5/10/2018	7:10	0.00
;			
ESVCB20	5/10/2018	0:00	0.00
ESVCB20	5/10/2018	0:05	0.02
ESVCB20	5/10/2018	0:10	0.23
ESVCB20	5/10/2018	0:15	0.98
ESVCB20	5/10/2018	0:20	4.58
ESVCB20	5/10/2018	0:25	15.17
ESVCB20	5/10/2018	0:30	22.31
ESVCB20	5/10/2018	0:35	25.69
ESVCB20	5/10/2018	0:40	27.33
ESVCB20	5/10/2018	0:45	27.79
ESVCB20	5/10/2018	0:50	27.29
ESVCB20	5/10/2018	0:55	26.70
ESVCB20	5/10/2018	1:00	26.22
ESVCB20	5/10/2018	1:05	24.90
ESVCB20	5/10/2018	1:10	23.39
ESVCB20	5/10/2018	1:15	21.69
ESVCB20	5/10/2018	1:20	20.17
ESVCB20	5/10/2018	1:25	18.78
ESVCB20	5/10/2018	1:30	17.49
ESVCB20	5/10/2018	1:35	16.27
ESVCB20	5/10/2018	1:40	15.09
ESVCB20	5/10/2018	1:45	13.94
ESVCB20	5/10/2018	1:50	12.82
ESVCB20	5/10/2018	1:55	11.74
ESVCB20	5/10/2018	2:00	10.60
ESVCB20	5/10/2018	2:05	9.62
ESVCB20	5/10/2018	2:10	8.83
ESVCB20	5/10/2018	2:15	8.14
ESVCB20	5/10/2018	2:20	7.52
ESVCB20	5/10/2018	2:25	6.96
ESVCB20	5/10/2018	2:30	6.44
ESVCB20	5/10/2018	2:35	5.94
ESVCB20	5/10/2018	2:40	5.49
ESVCB20	5/10/2018	2:45	5.05
ESVCB20	5/10/2018	2:50	4.63
ESVCB20	5/10/2018	2:55	4.21
ESVCB20	5/10/2018	3:00	3.79
ESVCB20	5/10/2018	3:05	3.38
ESVCB20	5/10/2018	3:10	2.97
ESVCB20	5/10/2018	3:15	2.56
ESVCB20	5/10/2018	3:20	2.16
ESVCB20	5/10/2018	3:25	1.76
ESVCB20	5/10/2018	3:30	1.36
ESVCB20	5/10/2018	3:35	1.00
ESVCB20	5/10/2018	3:40	0.71
ESVCB20	5/10/2018	3:45	0.53
ESVCB20	5/10/2018	3:50	0.39
ESVCB20	5/10/2018	3:55	0.29
ESVCB20	5/10/2018	4:00	0.22
ESVCB20	5/10/2018	4:05	0.16
ESVCB20	5/10/2018	4:10	0.11
ESVCB20	5/10/2018	4:15	0.08
ESVCB20	5/10/2018	4:20	0.07

ESVCB Ponding Areas

ESVCB20	5/10/2018	4:25	0.05
ESVCB20	5/10/2018	4:30	0.04
ESVCB20	5/10/2018	4:35	0.03
ESVCB20	5/10/2018	4:40	0.02
ESVCB20	5/10/2018	4:45	0.02
ESVCB20	5/10/2018	4:50	0.01
ESVCB20	5/10/2018	4:55	0.01
ESVCB20	5/10/2018	5:00	0.00
ESVCB20	5/10/2018	5:05	0.00
;			
ESVCB21	5/10/2018	0:00	0.00
ESVCB21	5/10/2018	0:05	0.00
ESVCB21	5/10/2018	0:10	0.04
ESVCB21	5/10/2018	0:15	0.28
ESVCB21	5/10/2018	0:20	3.97
ESVCB21	5/10/2018	0:25	25.71
ESVCB21	5/10/2018	0:30	69.22
ESVCB21	5/10/2018	0:35	121.67
ESVCB21	5/10/2018	0:40	169.30
ESVCB21	5/10/2018	0:45	206.21
ESVCB21	5/10/2018	0:50	230.25
ESVCB21	5/10/2018	0:55	245.19
ESVCB21	5/10/2018	1:00	254.29
ESVCB21	5/10/2018	1:05	257.70
ESVCB21	5/10/2018	1:10	254.89
ESVCB21	5/10/2018	1:15	246.85
ESVCB21	5/10/2018	1:20	242.57
ESVCB21	5/10/2018	1:25	247.77
ESVCB21	5/10/2018	1:30	267.93
ESVCB21	5/10/2018	1:35	315.45
ESVCB21	5/10/2018	1:40	353.03
ESVCB21	5/10/2018	1:45	358.80
ESVCB21	5/10/2018	1:50	344.80
ESVCB21	5/10/2018	1:55	326.63
ESVCB21	5/10/2018	2:00	307.31
ESVCB21	5/10/2018	2:05	289.18
ESVCB21	5/10/2018	2:10	272.89
ESVCB21	5/10/2018	2:15	253.93
ESVCB21	5/10/2018	2:20	233.23
ESVCB21	5/10/2018	2:25	212.53
ESVCB21	5/10/2018	2:30	194.45
ESVCB21	5/10/2018	2:35	178.60
ESVCB21	5/10/2018	2:40	164.31
ESVCB21	5/10/2018	2:45	150.91
ESVCB21	5/10/2018	2:50	138.09
ESVCB21	5/10/2018	2:55	125.65
ESVCB21	5/10/2018	3:00	113.79
ESVCB21	5/10/2018	3:05	103.58
ESVCB21	5/10/2018	3:10	93.15
ESVCB21	5/10/2018	3:15	83.11
ESVCB21	5/10/2018	3:20	74.92
ESVCB21	5/10/2018	3:25	68.28
ESVCB21	5/10/2018	3:30	62.60
ESVCB21	5/10/2018	3:35	57.74
ESVCB21	5/10/2018	3:40	53.51
ESVCB21	5/10/2018	3:45	49.73
ESVCB21	5/10/2018	3:50	46.36
ESVCB21	5/10/2018	3:55	43.34
ESVCB21	5/10/2018	4:00	40.57
ESVCB21	5/10/2018	4:05	37.92
ESVCB21	5/10/2018	4:10	35.34
ESVCB21	5/10/2018	4:15	32.83
ESVCB21	5/10/2018	4:20	30.39

ESVCB Ponding Areas

ESVCB21	5/10/2018	4:25	28.01
ESVCB21	5/10/2018	4:30	25.70
ESVCB21	5/10/2018	4:35	23.46
ESVCB21	5/10/2018	4:40	21.28
ESVCB21	5/10/2018	4:45	19.17
ESVCB21	5/10/2018	4:50	17.10
ESVCB21	5/10/2018	4:55	15.04
ESVCB21	5/10/2018	5:00	12.97
ESVCB21	5/10/2018	5:05	10.91
ESVCB21	5/10/2018	5:10	8.85
ESVCB21	5/10/2018	5:15	6.79
ESVCB21	5/10/2018	5:20	4.80
ESVCB21	5/10/2018	5:25	3.23
ESVCB21	5/10/2018	5:30	2.24
ESVCB21	5/10/2018	5:35	1.57
ESVCB21	5/10/2018	5:40	1.07
ESVCB21	5/10/2018	5:45	0.71
ESVCB21	5/10/2018	5:50	0.44
ESVCB21	5/10/2018	5:55	0.26
ESVCB21	5/10/2018	6:00	0.16
ESVCB21	5/10/2018	6:05	0.11
ESVCB21	5/10/2018	6:10	0.08
ESVCB21	5/10/2018	6:15	0.06
ESVCB21	5/10/2018	6:20	0.05
ESVCB21	5/10/2018	6:25	0.04
ESVCB21	5/10/2018	6:30	0.02
ESVCB21	5/10/2018	6:35	0.02
ESVCB21	5/10/2018	6:40	0.01
ESVCB21	5/10/2018	6:45	0.00
ESVCB21	5/10/2018	6:50	0.00
ESVCB21	5/10/2018	6:55	0.00
ESVCB21	5/10/2018	7:00	0.00
ESVCB21	5/10/2018	7:05	0.00
ESVCB21	5/10/2018	7:10	0.00
ESVCB21	5/10/2018	7:15	0.00
ESVCB21	5/10/2018	7:20	0.00
ESVCB21	5/10/2018	7:25	0.00
ESVCB21	5/10/2018	7:30	0.00
;			
ESVCB22	5/10/2018	0:00	0.00
ESVCB22	5/10/2018	0:05	0.04
ESVCB22	5/10/2018	0:10	0.57
ESVCB22	5/10/2018	0:15	3.05
ESVCB22	5/10/2018	0:20	16.40
ESVCB22	5/10/2018	0:25	61.72
ESVCB22	5/10/2018	0:30	115.88
ESVCB22	5/10/2018	0:35	149.60
ESVCB22	5/10/2018	0:40	166.33
ESVCB22	5/10/2018	0:45	173.09
ESVCB22	5/10/2018	0:50	172.08
ESVCB22	5/10/2018	0:55	167.08
ESVCB22	5/10/2018	1:00	162.91
ESVCB22	5/10/2018	1:05	156.21
ESVCB22	5/10/2018	1:10	146.54
ESVCB22	5/10/2018	1:15	135.74
ESVCB22	5/10/2018	1:20	125.57
ESVCB22	5/10/2018	1:25	116.11
ESVCB22	5/10/2018	1:30	107.27
ESVCB22	5/10/2018	1:35	99.04
ESVCB22	5/10/2018	1:40	91.12
ESVCB22	5/10/2018	1:45	83.46
ESVCB22	5/10/2018	1:50	76.01
ESVCB22	5/10/2018	1:55	68.82

ESVCB Ponding Areas

ESVCB22	5/10/2018	2:00	61.94
ESVCB22	5/10/2018	2:05	56.44
ESVCB22	5/10/2018	2:10	51.78
ESVCB22	5/10/2018	2:15	47.60
ESVCB22	5/10/2018	2:20	43.79
ESVCB22	5/10/2018	2:25	40.28
ESVCB22	5/10/2018	2:30	37.00
ESVCB22	5/10/2018	2:35	33.94
ESVCB22	5/10/2018	2:40	31.09
ESVCB22	5/10/2018	2:45	28.31
ESVCB22	5/10/2018	2:50	25.61
ESVCB22	5/10/2018	2:55	22.92
ESVCB22	5/10/2018	3:00	20.24
ESVCB22	5/10/2018	3:05	17.58
ESVCB22	5/10/2018	3:10	14.93
ESVCB22	5/10/2018	3:15	12.30
ESVCB22	5/10/2018	3:20	9.70
ESVCB22	5/10/2018	3:25	7.18
ESVCB22	5/10/2018	3:30	4.98
ESVCB22	5/10/2018	3:35	3.61
ESVCB22	5/10/2018	3:40	2.67
ESVCB22	5/10/2018	3:45	1.97
ESVCB22	5/10/2018	3:50	1.43
ESVCB22	5/10/2018	3:55	1.03
ESVCB22	5/10/2018	4:00	0.72
ESVCB22	5/10/2018	4:05	0.51
ESVCB22	5/10/2018	4:10	0.39
ESVCB22	5/10/2018	4:15	0.31
ESVCB22	5/10/2018	4:20	0.24
ESVCB22	5/10/2018	4:25	0.19
ESVCB22	5/10/2018	4:30	0.14
ESVCB22	5/10/2018	4:35	0.10
ESVCB22	5/10/2018	4:40	0.07
ESVCB22	5/10/2018	4:45	0.04
ESVCB22	5/10/2018	4:50	0.02
ESVCB22	5/10/2018	4:55	0.01
ESVCB22	5/10/2018	5:00	0.00
ESVCB22	5/10/2018	5:05	0.00
;			
ESVCB23	5/10/2018	0:00	0.00
ESVCB23	5/10/2018	0:05	0.01
ESVCB23	5/10/2018	0:10	0.08
ESVCB23	5/10/2018	0:15	0.68
ESVCB23	5/10/2018	0:20	12.23
ESVCB23	5/10/2018	0:25	76.29
ESVCB23	5/10/2018	0:30	161.24
ESVCB23	5/10/2018	0:35	215.64
ESVCB23	5/10/2018	0:40	240.24
ESVCB23	5/10/2018	0:45	245.12
ESVCB23	5/10/2018	0:50	236.93
ESVCB23	5/10/2018	0:55	227.45
ESVCB23	5/10/2018	1:00	217.85
ESVCB23	5/10/2018	1:05	204.14
ESVCB23	5/10/2018	1:10	192.10
ESVCB23	5/10/2018	1:15	197.42
ESVCB23	5/10/2018	1:20	223.87
ESVCB23	5/10/2018	1:25	259.80
ESVCB23	5/10/2018	1:30	291.97
ESVCB23	5/10/2018	1:35	313.92
ESVCB23	5/10/2018	1:40	324.12
ESVCB23	5/10/2018	1:45	328.43
ESVCB23	5/10/2018	1:50	329.11
ESVCB23	5/10/2018	1:55	325.32

ESVCB Ponding Areas

ESVCB23	5/10/2018	2:00	315.91
ESVCB23	5/10/2018	2:05	301.70
ESVCB23	5/10/2018	2:10	291.62
ESVCB23	5/10/2018	2:15	291.38
ESVCB23	5/10/2018	2:20	306.49
ESVCB23	5/10/2018	2:25	349.13
ESVCB23	5/10/2018	2:30	381.92
ESVCB23	5/10/2018	2:35	382.94
ESVCB23	5/10/2018	2:40	364.19
ESVCB23	5/10/2018	2:45	341.30
ESVCB23	5/10/2018	2:50	317.49
ESVCB23	5/10/2018	2:55	296.03
ESVCB23	5/10/2018	3:00	277.62
ESVCB23	5/10/2018	3:05	257.20
ESVCB23	5/10/2018	3:10	235.42
ESVCB23	5/10/2018	3:15	213.94
ESVCB23	5/10/2018	3:20	195.31
ESVCB23	5/10/2018	3:25	179.08
ESVCB23	5/10/2018	3:30	164.60
ESVCB23	5/10/2018	3:35	151.10
ESVCB23	5/10/2018	3:40	138.23
ESVCB23	5/10/2018	3:45	125.76
ESVCB23	5/10/2018	3:50	113.88
ESVCB23	5/10/2018	3:55	103.64
ESVCB23	5/10/2018	4:00	93.19
ESVCB23	5/10/2018	4:05	83.13
ESVCB23	5/10/2018	4:10	74.94
ESVCB23	5/10/2018	4:15	68.28
ESVCB23	5/10/2018	4:20	62.61
ESVCB23	5/10/2018	4:25	57.74
ESVCB23	5/10/2018	4:30	53.51
ESVCB23	5/10/2018	4:35	49.73
ESVCB23	5/10/2018	4:40	46.36
ESVCB23	5/10/2018	4:45	43.34
ESVCB23	5/10/2018	4:50	40.57
ESVCB23	5/10/2018	4:55	37.92
ESVCB23	5/10/2018	5:00	35.34
ESVCB23	5/10/2018	5:05	32.83
ESVCB23	5/10/2018	5:10	30.39
ESVCB23	5/10/2018	5:15	28.01
ESVCB23	5/10/2018	5:20	25.70
ESVCB23	5/10/2018	5:25	23.46
ESVCB23	5/10/2018	5:30	21.28
ESVCB23	5/10/2018	5:35	19.17
ESVCB23	5/10/2018	5:40	17.10
ESVCB23	5/10/2018	5:45	15.04
ESVCB23	5/10/2018	5:50	12.97
ESVCB23	5/10/2018	5:55	10.91
ESVCB23	5/10/2018	6:00	8.85
ESVCB23	5/10/2018	6:05	6.79
ESVCB23	5/10/2018	6:10	4.80
ESVCB23	5/10/2018	6:15	3.23
ESVCB23	5/10/2018	6:20	2.24
ESVCB23	5/10/2018	6:25	1.57
ESVCB23	5/10/2018	6:30	1.07
ESVCB23	5/10/2018	6:35	0.71
ESVCB23	5/10/2018	6:40	0.44
ESVCB23	5/10/2018	6:45	0.26
ESVCB23	5/10/2018	6:50	0.16
ESVCB23	5/10/2018	6:55	0.11
ESVCB23	5/10/2018	7:00	0.08
ESVCB23	5/10/2018	7:05	0.06
ESVCB23	5/10/2018	7:10	0.05

ESVCB Ponding Areas

ESVCB23	5/10/2018	7:15	0.04
ESVCB23	5/10/2018	7:20	0.02
ESVCB23	5/10/2018	7:25	0.02
ESVCB23	5/10/2018	7:30	0.01
ESVCB23	5/10/2018	7:35	0.00
ESVCB23	5/10/2018	7:40	0.00
;			
ESVCB24	5/10/2018	0:00	0.00
ESVCB24	5/10/2018	0:05	0.00
ESVCB24	5/10/2018	0:10	0.04
ESVCB24	5/10/2018	0:15	0.32
ESVCB24	5/10/2018	0:20	4.74
ESVCB24	5/10/2018	0:25	31.08
ESVCB24	5/10/2018	0:30	83.81
ESVCB24	5/10/2018	0:35	147.52
ESVCB24	5/10/2018	0:40	205.50
ESVCB24	5/10/2018	0:45	250.52
ESVCB24	5/10/2018	0:50	279.85
ESVCB24	5/10/2018	0:55	297.77
ESVCB24	5/10/2018	1:00	308.09
ESVCB24	5/10/2018	1:05	310.97
ESVCB24	5/10/2018	1:10	305.70
ESVCB24	5/10/2018	1:15	293.39
ESVCB24	5/10/2018	1:20	279.90
ESVCB24	5/10/2018	1:25	265.97
ESVCB24	5/10/2018	1:30	251.59
ESVCB24	5/10/2018	1:35	236.98
ESVCB24	5/10/2018	1:40	222.37
ESVCB24	5/10/2018	1:45	208.05
ESVCB24	5/10/2018	1:50	195.30
ESVCB24	5/10/2018	1:55	184.63
ESVCB24	5/10/2018	2:00	174.93
ESVCB24	5/10/2018	2:05	165.76
ESVCB24	5/10/2018	2:10	156.90
ESVCB24	5/10/2018	2:15	148.26
ESVCB24	5/10/2018	2:20	139.81
ESVCB24	5/10/2018	2:25	131.59
ESVCB24	5/10/2018	2:30	123.50
ESVCB24	5/10/2018	2:35	115.46
ESVCB24	5/10/2018	2:40	107.46
ESVCB24	5/10/2018	2:45	99.48
ESVCB24	5/10/2018	2:50	91.58
ESVCB24	5/10/2018	2:55	84.29
ESVCB24	5/10/2018	3:00	78.78
ESVCB24	5/10/2018	3:05	74.21
ESVCB24	5/10/2018	3:10	70.16
ESVCB24	5/10/2018	3:15	66.49
ESVCB24	5/10/2018	3:20	63.10
ESVCB24	5/10/2018	3:25	59.92
ESVCB24	5/10/2018	3:30	56.95
ESVCB24	5/10/2018	3:35	54.18
ESVCB24	5/10/2018	3:40	51.45
ESVCB24	5/10/2018	3:45	48.76
ESVCB24	5/10/2018	3:50	46.08
ESVCB24	5/10/2018	3:55	43.40
ESVCB24	5/10/2018	4:00	40.73
ESVCB24	5/10/2018	4:05	38.06
ESVCB24	5/10/2018	4:10	35.40
ESVCB24	5/10/2018	4:15	32.74
ESVCB24	5/10/2018	4:20	30.08
ESVCB24	5/10/2018	4:25	27.44
ESVCB24	5/10/2018	4:30	24.79
ESVCB24	5/10/2018	4:35	22.15

ESVCB Ponding Areas

ESVCB24	5/10/2018	4:40	19.50
ESVCB24	5/10/2018	4:45	16.86
ESVCB24	5/10/2018	4:50	14.21
ESVCB24	5/10/2018	4:55	11.57
ESVCB24	5/10/2018	5:00	8.93
ESVCB24	5/10/2018	5:05	6.37
ESVCB24	5/10/2018	5:10	4.27
ESVCB24	5/10/2018	5:15	2.95
ESVCB24	5/10/2018	5:20	2.06
ESVCB24	5/10/2018	5:25	1.41
ESVCB24	5/10/2018	5:30	0.93
ESVCB24	5/10/2018	5:35	0.58
ESVCB24	5/10/2018	5:40	0.34
ESVCB24	5/10/2018	5:45	0.20
ESVCB24	5/10/2018	5:50	0.14
ESVCB24	5/10/2018	5:55	0.10
ESVCB24	5/10/2018	6:00	0.08
ESVCB24	5/10/2018	6:05	0.06
ESVCB24	5/10/2018	6:10	0.05
ESVCB24	5/10/2018	6:15	0.03
ESVCB24	5/10/2018	6:20	0.02
ESVCB24	5/10/2018	6:25	0.01
ESVCB24	5/10/2018	6:30	0.01
ESVCB24	5/10/2018	6:35	0.00
ESVCB24	5/10/2018	6:40	0.00

[REPORT]

```
;;Reporting Options
INPUT      NO
CONTROLS   NO
SUBCATCHMENTS ALL
NODES      ALL
LINKS      ALL
```

[TAGS]

[MAP]

```
DIMENSIONS 11279.758 -1337.046 15751.109 8476.554
Units      None
```

[COORDINATES]

```
;;Node      X-Coord      Y-Coord
-----
ESVCB1-0    12693.169    7973.124
ESVCB2-24A0 12670.773    7536.394
ESVCB2-24B0 12659.574    7334.826
ESVCB2-24C0 12681.971    7133.259
ESVCB3-0    12737.962    6315.789
ESVCB4-0(1) 12772.567    5779.601
ESVCB4-0(2) 12784.291    5603.751
ESVCB4-0(3) 12807.737    5427.902
ESVCB4-0(4) 12807.737    5193.435
ESVCB6-10   12702.227    4548.652
ESVCB6-20   12713.951    4349.355
ESVCB7-0    12760.844    3048.066
ESVCB8-10   12737.397    2590.856
ESVCB11-0   12772.567    1500.586
ESVCB13-0   12713.951    785.463
ESVCB14-0   12713.951    386.870
ESVCB16-0   12702.227    -363.423
ESVCB17-0   12678.781    -890.973
ESVCB18-10  14660.023    8030.481
ESVCB18-20  14730.363    7737.397
```

ESVCB Ponding Areas

ESVCB21-0	14859.320	6412.661
ESVCB22-0	14847.597	5838.218
ESVCB23_0	14832.757	4867.359
ESVCB24_0	15397.924	4002.307
ESVCB25_0	15547.866	3079.585
ESVCB1	11573.348	8017.917
ESVCB2	11562.150	7469.205
ESVCB3	11606.943	6360.582
ESVCB4	11611.958	5814.771
ESVCB6	11553.341	4490.035
ESVCB7	11565.064	3305.979
ESVCB8	11553.341	2637.749
ESVCB11	11658.851	1664.713
ESVCB13	11658.851	973.036
ESVCB14	11576.788	480.657
ESVCB15	11623.681	70.340
ESVCB16	11529.894	-281.360
ESVCB17	11483.001	-668.230
ESVCB18	13686.987	7924.971
ESVCB19	13839.390	7397.421
ESVCB20	13745.604	6998.828
ESVCB21	13780.774	6553.341
ESVCB22	13769.050	6025.791
ESVCB23	14348.328	4982.699
ESVCB24	14417.532	4036.909
ESVCB25	14763.552	3448.674

[VERTICES]

;;Link

X-Coord

Y-Coord

;;

ESVCB Ponding Areas

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.012)

WARNING 04: minimum elevation drop used for Conduit ESVCB25

 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 NO
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed YES
 Water Quality NO
 Flow Routing Method DYNWAVE
 Starting Date 05/10/2018 00:00:00
 Ending Date 05/10/2018 10:00:00
 Antecedent Dry Days 0.0
 Report Time Step 00:00:05
 Routing Time Step 5.00 sec
 Variable Time Step YES
 Maximum Trials 8
 Number of Threads 1
 Head Tolerance 0.005000 ft

	volume acre-feet	volume 10 ⁶ gal
Flow Routing Continuity		
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	868.315	282.953
External Outflow	241.269	78.621
Flooding Loss	486.850	158.647
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	140.255	45.704
Continuity Error (%)	-0.007	

Time-Step Critical Elements

Link ESVCB8-1 (55.25%)
 Link ESVCB23 (26.61%)
 Link ESVCB14 (17.04%)

Highest Flow Instability Indexes

ESVCB Ponding Areas

All links are stable.

Routing Time Step Summary

Minimum Time Step : 0.50 sec
 Average Time Step : 2.55 sec
 Maximum Time Step : 5.00 sec
 Percent in Steady State : 0.00
 Average Iterations per Step : 2.00
 Percent Not Converging : 0.00

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
ESVCB1-0	OUTFALL	1.07	2.58	4979.29	0 01:16	2.58
ESVCB2-24A0	OUTFALL	0.48	1.73	4982.09	0 01:33	1.73
ESVCB2-24B0	OUTFALL	0.45	1.66	4981.49	0 00:26	1.66
ESVCB2-24C0	OUTFALL	0.23	1.13	4978.93	0 00:30	1.13
ESVCB3-0	OUTFALL	0.27	0.89	4972.86	0 00:24	0.89
ESVCB4-0(1)	OUTFALL	0.58	1.59	4947.09	0 01:08	1.59
ESVCB4-0(2)	OUTFALL	0.52	1.46	4947.18	0 00:52	1.46
ESVCB4-0(3)	OUTFALL	0.58	1.60	4947.08	0 00:48	1.60
ESVCB4-0(4)	OUTFALL	0.59	1.63	4947.06	0 00:31	1.63
ESVCB6-10	OUTFALL	0.70	1.65	4919.64	0 00:26	1.65
ESVCB6-20	OUTFALL	0.79	1.66	4918.80	0 01:27	1.66
ESVCB7-0	OUTFALL	0.51	1.55	33.55	0 00:42	1.55
ESVCB8-10	OUTFALL	0.89	1.23	4900.90	0 00:48	1.23
ESVCB11-0	OUTFALL	0.50	0.54	15.21	0 00:49	0.54
ESVCB13-0	OUTFALL	0.77	0.89	18.89	0 00:55	0.89
ESVCB14-0	OUTFALL	0.61	3.00	37.00	0 00:27	3.00
ESVCB16-0	OUTFALL	1.29	3.33	46.32	0 00:31	3.33
ESVCB17-0	OUTFALL	0.66	1.71	31.71	0 00:29	1.71
ESVCB18-10	OUTFALL	1.42	1.91	10.91	0 01:35	1.91
ESVCB18-20	OUTFALL	1.42	1.91	10.91	0 01:35	1.91
ESVCB21-0	OUTFALL	1.20	2.00	92.97	0 00:51	2.00
ESVCB22-0	OUTFALL	0.80	1.82	93.32	0 00:48	1.82
ESVCB23_0	OUTFALL	0.90	0.92	71.42	0 00:35	0.92
ESVCB24_0	OUTFALL	1.46	3.10	87.60	0 01:09	3.10
ESVCB25_0	OUTFALL	0.00	0.00	0.00	0 00:00	0.00
ESVCB1	STORAGE	3.72	10.03	4987.15	0 01:16	10.03
ESVCB2	STORAGE	0.52	2.00	4983.33	0 00:26	2.00
ESVCB3	STORAGE	0.82	3.00	4976.79	0 00:23	3.00
ESVCB4	STORAGE	0.74	2.00	4947.91	0 00:27	2.00
ESVCB6	STORAGE	1.69	4.00	4922.00	0 00:24	4.00
ESVCB7	STORAGE	0.77	3.00	36.00	0 00:51	3.00
ESVCB8	STORAGE	2.73	4.00	4904.22	0 00:29	4.00
ESVCB11	STORAGE	1.30	1.50	16.50	0 00:37	1.50
ESVCB13	STORAGE	4.74	7.00	33.46	0 00:55	7.00
ESVCB14	STORAGE	0.63	3.00	48.06	0 00:30	3.00
ESVCB15	STORAGE	1.14	1.36	17.35	0 05:55	1.36
ESVCB16	STORAGE	1.95	6.00	49.89	0 00:38	6.00
ESVCB17	STORAGE	1.40	4.00	36.00	0 00:28	4.00
ESVCB18	STORAGE	2.11	3.00	12.28	0 01:32	3.00

ESVCB Ponding Areas

Node	Type	3.79	5.00	12.00	0	02:46	5.00
ESVCB19	STORAGE	3.79	5.00	12.00	0	02:46	5.00
ESVCB20	STORAGE	0.27	0.32	4794.32	0	05:00	0.32
ESVCB21	STORAGE	1.21	2.00	97.00	0	00:46	2.00
ESVCB22	STORAGE	1.26	3.00	96.31	0	00:33	3.00
ESVCB23	STORAGE	3.55	3.75	75.75	0	00:34	3.75
ESVCB24	STORAGE	1.58	3.50	88.50	0	00:34	3.50
ESVCB25	STORAGE	0.00	0.00	0.00	0	00:00	0.00

Node Inflow Summary

Total Inflow Volume Node gal	Flow Balance Error Percent	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal
5.53	0.000	OUTFALL	0.00	65.17	0 01:16	0
1.24	0.000	OUTFALL	0.00	23.79	0 01:33	0
1.11	0.000	OUTFALL	0.00	21.45	0 00:26	0
1.05	0.000	OUTFALL	0.00	27.06	0 00:50	0
0.285	0.000	OUTFALL	0.00	4.51	0 00:48	0
1.71	0.000	OUTFALL	0.00	24.31	0 01:08	0
1.44	0.000	OUTFALL	0.00	20.76	0 00:52	0
1.73	0.000	OUTFALL	0.00	24.62	0 00:48	0
1.79	0.000	OUTFALL	0.00	25.40	0 00:58	0
1.82	0.000	OUTFALL	0.00	21.15	0 00:27	0
2.02	0.000	OUTFALL	0.00	21.60	0 01:27	0
1.89	0.000	OUTFALL	0.00	35.45	0 00:54	0
1.71	0.000	OUTFALL	0.00	10.81	0 00:55	0
0.416	0.000	OUTFALL	0.00	1.84	0 00:49	0
0.948	0.000	OUTFALL	0.00	4.54	0 00:56	0
9.24	0.000	OUTFALL	0.00	240.97	0 00:29	0
12.4	0.000	OUTFALL	0.00	180.33	0 00:49	0
1.79	0.000	OUTFALL	0.00	23.06	0 00:50	0

		ESVCB Ponding Areas				
ESVCB18-10	OUTFALL	0.00	32.29	0	01:35	0
5.02 0.000						
ESVCB18-20	OUTFALL	0.00	32.29	0	01:35	0
5.02 0.000						
ESVCB21-0	OUTFALL	0.00	61.74	0	01:04	0
7.28 0.000						
ESVCB22-0	OUTFALL	0.00	29.36	0	00:48	0
2.59 0.000						
ESVCB23_0	OUTFALL	0.00	5.08	0	00:48	0
1.3 0.000						
ESVCB24_0	OUTFALL	0.00	103.29	0	01:09	0
9.33 0.000						
ESVCB25_0	OUTFALL	0.00	0.00	0	00:00	0
0 0.000 gal						
ESVCB1	STORAGE	279.64	279.64	0	00:30	5.53
5.53 -0.001						
ESVCB2	STORAGE	180.78	180.78	0	00:35	5.12
5.12 -0.003						
ESVCB3	STORAGE	37.94	37.94	0	00:35	0.961
0.961 -0.021						
ESVCB4	STORAGE	483.35	483.35	0	01:20	15.3
15.3 -0.002						
ESVCB6	STORAGE	295.97	295.97	0	01:25	14.3
14.3 -0.004						
ESVCB7	STORAGE	47.48	47.48	0	00:45	1.98
1.98 -0.007						
ESVCB8	STORAGE	893.06	893.06	0	02:20	45.5
45.5 -0.004						
ESVCB11	STORAGE	101.74	101.74	0	00:45	3.54
3.54 0.008						
ESVCB13	STORAGE	53.73	53.73	0	00:35	1.6
1.6 -0.030						
ESVCB14	STORAGE	280.22	280.22	0	00:35	9.52
9.52 -0.004						
ESVCB15	STORAGE	802.70	802.70	0	01:15	30.4
30.4 -0.000						
ESVCB16	STORAGE	459.09	459.09	0	00:55	18.7
18.7 -0.004						
ESVCB17	STORAGE	128.54	128.54	0	00:50	4.82
4.82 -0.005						
ESVCB18	STORAGE	639.07	639.07	0	01:50	28.3
28.3 -0.006						
ESVCB19	STORAGE	640.36	640.36	0	02:35	29
29 -0.024						
ESVCB20	STORAGE	27.79	27.79	0	00:45	1.13
1.13 0.000						
ESVCB21	STORAGE	358.78	358.78	0	01:45	18.6
18.6 -0.001						
ESVCB22	STORAGE	173.09	173.09	0	00:45	6.68
6.68 -0.011						
ESVCB23	STORAGE	382.93	382.93	0	02:35	26.3
26.3 -0.004						
ESVCB24	STORAGE	310.97	310.97	0	01:05	15.6
15.6 -0.004						
ESVCB25	STORAGE	0.00	0.00	0	00:00	0
0 0.000 gal						

Node Surcharge Summary

No nodes were surcharged.

ESVCB Ponding Areas

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 Poned Depth Feet
ESVCB2	1.02	108.86	0 00:35	1.736	0.000
ESVCB3	1.52	33.43	0 00:35	0.675	0.000
ESVCB4	1.95	388.17	0 01:20	8.654	0.000
ESVCB6	2.56	253.21	0 01:25	10.448	0.000
ESVCB7	0.48	11.52	0 00:51	0.091	0.000
ESVCB8	4.43	882.14	0 02:20	43.745	0.000
ESVCB11	2.68	99.90	0 00:45	2.932	0.000
ESVCB13	1.41	42.04	0 00:55	0.650	0.000
ESVCB14	0.29	55.94	0 00:35	0.288	0.000
ESVCB16	1.46	278.75	0 00:55	6.300	0.000
ESVCB17	2.15	105.48	0 00:50	3.037	0.000
ESVCB18	2.65	574.48	0 01:50	18.048	0.000
ESVCB19	4.31	591.67	0 02:46	15.517	0.000
ESVCB21	2.73	297.03	0 01:45	11.327	0.000
ESVCB22	2.17	143.72	0 00:45	4.084	0.000
ESVCB23	5.59	377.85	0 02:35	24.816	0.000
ESVCB24	2.13	207.66	0 01:05	6.284	0.000

Storage volume Summary

of Max Occurrence Storage hr:min	Maximum Outflow Unit CFS	Average Volume 1000 ft3	Avg Pc Full	Evap Loss	Exfil Loss	Maximum Volume 1000 ft3	Max Pc Full	Time days
ESVCB1		99.826	7	0	0	411.985	27	0
01:16	65.17							
ESVCB2		5.643	22	0	0	26.130	100	0
00:26	71.92							
ESVCB3		1.379	25	0	0	5.465	100	0
00:23	4.51							
ESVCB4		2.662	33	0	0	8.100	100	0
00:27	95.09							
ESVCB6		4.360	36	0	0	12.124	100	0
00:24	42.75							
ESVCB7		4.473	19	0	0	23.902	100	0
00:51	35.45							
ESVCB8		23.846	65	0	0	36.920	100	0
00:29	10.81							
ESVCB11		47.976	79	0	0	60.692	100	0

ESVCB Ponding Areas

00:37	1.84							
ESVCB13		49.513	56	0	0	88.596	100	0
00:55	4.54							
ESVCB14		1.486	11	0	0	13.390	100	0
00:30	240.97							
ESVCB15		3382.192	18	0	0	4068.553	21	0
05:55	0.00							
ESVCB16		15.212	25	0	0	61.367	100	0
00:38	180.33							
ESVCB17		2.527	32	0	0	7.870	100	0
00:28	23.06							
ESVCB18		321.832	60	0	0	538.861	100	0
01:32	64.59							
ESVCB19		1333.712	74	0	0	1802.868	100	0
02:46	0.00							
ESVCB20		128.096	1	0	0	151.716	1	0
05:00	0.00							
ESVCB21		71.745	53	0	0	136.584	100	0
00:46	61.74							
ESVCB22		18.830	37	0	0	50.711	100	0
00:33	29.36							
ESVCB23		79.765	87	0	0	91.892	100	0
00:34	5.08							
ESVCB24		4.087	34	0	0	11.943	100	0
00:34	103.29							
ESVCB25		0.000	0	0	0	0.000	0	0
00:00	0.00							

 Outfall Loading Summary

Outfall Node	Flow Freq Pcmt	Avg Flow CFS	Max Flow CFS	Total Volume 10 ⁶ gal
ESVCB1-0	65.11	38.56	65.17	5.530
ESVCB2-24AO	58.96	9.77	23.79	1.235
ESVCB2-24BO	46.42	11.15	21.45	1.107
ESVCB2-24CO	25.96	19.41	27.06	1.046
ESVCB3-0	42.64	3.06	4.51	0.285
ESVCB4-0(1)	68.98	11.44	24.31	1.705
ESVCB4-0(2)	66.56	9.99	20.76	1.436
ESVCB4-0(3)	69.14	11.57	24.62	1.729
ESVCB4-0(4)	69.51	11.90	25.40	1.788
ESVCB6-10	54.89	15.12	21.15	1.815
ESVCB6-20	71.75	12.76	21.60	2.018
ESVCB7-0	73.38	12.06	35.45	1.894
ESVCB8-10	87.85	8.55	10.81	1.711
ESVCB11-0	98.50	1.63	1.84	0.416
ESVCB13-0	94.53	4.00	4.54	0.948
ESVCB14-0	67.07	65.43	240.97	9.235
ESVCB16-0	70.47	81.19	180.33	12.384
ESVCB17-0	61.00	13.50	23.06	1.788
ESVCB18-10	98.60	20.99	32.29	5.016
ESVCB18-20	98.60	20.99	32.29	5.016
ESVCB21-0	98.85	32.97	61.74	7.284
ESVCB22-0	90.12	13.18	29.36	2.594
ESVCB23_0	99.80	4.93	5.08	1.302
ESVCB24_0	75.86	56.23	103.29	9.332
ESVCB25_0	0.00	0.00	0.00	0.000

ESVCB Ponding Areas

 System 70.18 490.38 997.30 78.615

 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
ESVCB1	CONDUIT	65.17	0 01:16	9.51	4.45	0.93
ESVCB2-24A	CONDUIT	23.79	0 01:33	7.90	1.14	0.93
ESVCB2-24B	CONDUIT	21.45	0 00:26	7.27	1.12	0.91
ESVCB2-24C	CONDUIT	27.06	0 00:50	14.78	0.61	0.57
ESVCB3	CONDUIT	4.51	0 00:48	5.87	1.50	0.94
ESVCB4(1)	CONDUIT	24.31	0 01:08	5.51	0.94	0.60
ESVCB4(2)	CONDUIT	20.76	0 00:52	4.91	1.18	0.58
ESVCB4(3)	CONDUIT	24.62	0 00:48	5.56	0.93	0.60
ESVCB4(4)	CONDUIT	25.40	0 00:58	5.69	0.91	0.60
ESVCB6-1	CONDUIT	21.15	0 00:27	7.04	2.41	0.91
ESVCB6-2	CONDUIT	21.60	0 01:27	7.17	1.95	0.92
ESVCB7	CONDUIT	35.45	0 00:54	7.43	1.56	0.89
ESVCB8-1	CONDUIT	10.81	0 00:55	7.87	2.50	0.96
ESVCB11	CONDUIT	1.84	0 00:49	2.07	1.66	0.73
ESVCB13	CONDUIT	4.54	0 00:56	5.91	1.34	0.94
ESVCB14	CONDUIT	240.97	0 00:29	36.22	1.07	1.00
ESVCB16	CONDUIT	180.33	0 00:49	20.71	1.99	1.00
ESVCB17	CONDUIT	23.06	0 00:50	7.59	1.49	0.93
ESVCB18-1	CONDUIT	32.29	0 01:35	6.33	2.07	0.86
ESVCB18-2	CONDUIT	32.29	0 01:35	6.33	2.07	0.86
ESVCB21	CONDUIT	61.74	0 01:04	9.83	0.50	0.50
ESVCB22	CONDUIT	29.36	0 00:48	5.86	1.24	0.84
ESVCB23	CONDUIT	5.08	0 00:48	6.55	1.73	0.96
ESVCB24	CONDUIT	103.29	0 01:09	11.05	1.30	0.94
ESVCB25	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

 Flow Classification Summary

Inlet Conduit Ctrl	Adjusted /Actual Length	----- Fraction of Time in Flow Class							
		Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd

ESVCB1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00									
ESVCB2-24A	1.00	0.00	0.00	0.00	0.58	0.42	0.00	0.00	0.16
0.00									
ESVCB2-24B	1.00	0.51	0.00	0.00	0.22	0.27	0.00	0.00	0.14
0.00									
ESVCB2-24C	1.00	0.74	0.00	0.00	0.00	0.26	0.00	0.00	0.08

ESVCB Ponding Areas

0.00										
0.00	ESVCB3	1.00	0.00	0.00	0.00	0.83	0.17	0.00	0.00	0.04
0.00	ESVCB4(1)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00	ESVCB4(2)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00	ESVCB4(3)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00	ESVCB4(4)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00	ESVCB6-1	1.00	0.45	0.00	0.00	0.55	0.00	0.00	0.00	0.00
0.00	ESVCB6-2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00	ESVCB7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00	ESVCB8-1	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.00
0.00	ESVCB11	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00
0.00	ESVCB13	1.00	0.00	0.00	0.00	0.88	0.12	0.00	0.00	0.01
0.00	ESVCB14	1.00	0.00	0.00	0.00	0.28	0.72	0.00	0.00	0.08
0.00	ESVCB16	1.00	0.00	0.00	0.00	0.58	0.41	0.00	0.00	0.19
0.00	ESVCB17	1.00	0.00	0.00	0.00	0.87	0.13	0.00	0.00	0.04
0.00	ESVCB18-1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00	ESVCB18-2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00	ESVCB21	1.00	0.01	0.00	0.00	0.01	0.99	0.00	0.00	0.37
0.00	ESVCB22	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.00
0.00	ESVCB23	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.00
0.00	ESVCB24	1.00	0.00	0.00	0.00	0.57	0.43	0.00	0.00	0.25
0.00	ESVCB25	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00										

 Conduit Surcharge Summary

Conduit	Hours Full			Hours Above Full Normal Flow	Hours Capacity Limited
	Both Ends	Upstream	Dnstream		
ESVCB1	0.01	3.45	0.01	3.54	0.01
ESVCB2-24A	0.01	1.02	0.01	1.40	0.01
ESVCB2-24B	0.01	0.01	0.01	1.38	0.01
ESVCB3	0.01	2.29	0.01	2.33	0.01
ESVCB4(2)	0.01	0.01	0.01	2.12	0.01
ESVCB6-1	0.01	3.04	0.01	3.14	0.01
ESVCB6-2	0.01	3.12	0.01	3.26	0.01
ESVCB7	0.01	1.37	0.01	1.63	0.01
ESVCB8-1	0.01	6.02	0.01	6.10	0.01

	ESVCB Ponding Areas					
ESVCB11	0.01	6.33	0.01	9.11	0.01	
ESVCB13	0.01	8.23	0.01	8.25	0.01	
ESVCB14	0.01	0.29	0.12	0.12	0.01	
ESVCB16	0.01	2.27	0.01	2.39	2.11	
ESVCB17	0.01	2.70	0.01	2.75	0.01	
ESVCB18-1	0.01	3.64	0.01	5.57	0.01	
ESVCB18-2	0.01	3.64	0.01	5.57	0.01	
ESVCB22	0.01	2.65	0.01	2.93	0.01	
ESVCB23	0.01	9.72	0.01	9.72	0.01	
ESVCB24	0.01	2.13	0.01	2.51	0.01	

Analysis begun on: Tue Nov 13 14:14:43 2018
 Analysis ended on: Tue Nov 13 14:14:43 2018
 Total elapsed time: < 1 sec

CR40B Ponding Areas

Conduit	Hours Full			Hours Above Full Normal Flow	Hours Capacity Limited
	----- Both Ends	Upstream	----- Dnstream		
CR40B5_E	0.01	1.02	0.01	1.66	0.01
CR40B3_1	0.01	0.88	0.01	0.94	0.01
CR40B3_3	0.01	0.89	0.01	0.97	0.01
CR40B3_4	0.01	0.88	0.01	0.94	0.01
CR40B3_5	0.01	0.89	0.01	0.97	0.01
CR40B3_30in	0.01	0.16	0.01	0.17	0.01
CR40B3_2	0.01	0.89	0.01	0.95	0.01

Analysis begun on: Tue Nov 13 14:03:28 2018

Analysis ended on: Tue Nov 13 14:03:28 2018

Total elapsed time: < 1 sec