

Table E-1. Back-to-Back Storms Analysis

Back-to-Back 10-Year Storm Analysis													
SWMM Storage Node	Ground Elevation (ft)	Maximum Storage Capacity (ft3)	Initial Water Surface Elevation (ft)	Dead Storage Vol., Before Storm (ft3)	Available Net Storage Capacity, Before Storm (ft3)	Peak Water Surface Elevation (ft)	Peak Storage Vol., During Storm (ft3)	Peak Storage Vol. Minus Dead Storage, During Storm (ft3)	Final Water Surface Elevation (ft)	Vol. In Storage, After 48-hrs (ft3)	Vol. In Storage Minus Dead Storage, After 48-hrs (ft3)	Available Net Storage Recovered in 48 Hours (%)	Available Net Storage Used (%)
144	21.00	3,640,014	9.83	671,727	2,968,287	11.33	982,964	311,237	10.96	903,674	231,947	25%	10%
170	20.50	17,315,508	9.83	3,937,674	13,377,834	11.14	5,389,250	1,451,576	10.96	5,186,631	1,248,956	14%	11%
186	19.50	4,707,310	9.83	1,089,467	3,617,843	11.33	1,569,169	479,701	10.96	1,448,062	358,595	25%	13%
200	19.00	1,379,304	12.15	481,939	897,366	15.55	879,851	397,912	12.52	520,702	38,763	90%	44%
220	18.00	439,796	15.37	254,014	185,782	17.02	365,853	111,838	15.41	256,538	2,523	98%	60%
224	18.00	245,100	15.37	141,883	103,216	17.01	203,644	61,761	15.41	143,287	1,404	98%	60%
340	12.00	962,093	8.26	449,165	512,928	11.03	818,411	369,246	8.70	503,755	54,589	85%	72%
348	15.00	650,579	8.26	156,290	494,288	11.62	364,864	208,573	8.70	179,323	23,033	89%	42%
354	13.00	1,921,463	8.26	734,443	1,187,020	10.92	1,352,612	618,169	8.70	828,229	93,786	85%	52%
376	13.80	100,393	11.80	61,758	38,635	12.95	82,866	21,108	11.80	61,758	0	100%	55%
406	13.13	234,048	8.13	83,709	150,338	11.74	184,681	100,972	8.18	84,839	1,130	99%	67%
412	13.13	69,020	11.13	24,544	44,476	12.79	58,902	34,358	12.13	42,459	17,916	48%	77%
424	12.80	171,305	6.70	0	171,304	10.92	78,085	78,085	6.70	0	0	100%	46%
450	13.80	185,580	6.57	0	185,581	10.99	68,793	68,793	6.57	0	0	100%	37%
460	14.80	159,814	9.00	0	159,717	11.04	14,777	14,680	9.00	0	0	100%	9%
482	10.80	132,718	5.30	0	132,727	8.49	33,054	33,063	5.30	0	0	100%	25%
710	10.80	645,567	2.30	214,670	430,897	2.45	220,353	5,683	2.30	214,670	0	100%	1%
790	10.80	1,089,659	2.30	350,335	739,324	3.10	403,004	52,669	2.30	350,335	0	100%	7%
856	12.00	334,467	3.50	87,809	246,658	6.79	153,709	65,900	4.16	98,636	10,827	84%	27%