



# Appendix C

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## Maximum Water Surface Elevations



**US Army Corps  
of Engineers**  
Norfolk District

**Chesapeake**  
VIRGINIA

Department of Public Works

**URS**

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
101	17.50	15.86	16.48	17.20	17.27	17.40	17.42
103	17.50	16.80	<b>17.50</b>	<b>17.51</b>	<b>17.52</b>	<b>17.54</b>	<b>17.57</b>
105	17.80	16.81	17.57	17.62	17.65	17.67	17.69
107	17.40	15.11	15.40	15.52	15.88	16.38	16.89
115	17.30	14.69	15.18	15.49	15.85	16.58	16.83
117	17.00	14.40	14.94	15.26	15.70	16.12	16.42
121	16.50	<b>16.50</b>	<b>16.51</b>	<b>16.52</b>	<b>16.53</b>	<b>16.54</b>	<b>16.55</b>
123	16.50	<b>16.50</b>	<b>16.51</b>	<b>16.52</b>	<b>16.53</b>	<b>16.54</b>	<b>16.55</b>
125	16.30	15.20	15.76	<b>16.30</b>	<b>16.31</b>	<b>16.32</b>	<b>16.33</b>
127	17.00	15.19	15.76	16.31	16.31	16.32	16.33
129	16.50	15.12	15.96	<b>16.50</b>	<b>16.51</b>	<b>16.53</b>	<b>16.55</b>
131	16.50	15.12	15.96	<b>16.50</b>	<b>16.51</b>	<b>16.53</b>	<b>16.55</b>
133	16.50	14.92	15.50	16.08	16.26	16.43	<b>16.50</b>
135	16.70	14.50	15.25	15.93	16.18	16.41	16.51
137	16.70	14.46	15.18	15.81	16.03	16.25	16.36
139	17.00	13.61	14.87	15.86	<b>17.00</b>	<b>17.02</b>	<b>17.03</b>
143	17.50	13.56	14.86	15.85	17.00	17.03	17.05
145	17.00	13.03	13.46	13.72	14.00	14.16	14.32
147	16.50	12.99	13.42	13.68	13.97	14.14	14.30
148	19.10	16.83	17.26	17.50	18.00	18.48	18.70
149	18.20	15.91	16.60	17.11	17.87	<b>18.21</b>	<b>18.28</b>
151	16.50	12.85	13.30	13.59	13.89	14.08	14.26
152	18.40	16.58	17.09	17.38	17.95	18.34	<b>18.44</b>
153	16.50	12.83	13.29	13.58	13.88	14.04	14.18
154	18.00	15.68	16.45	17.02	17.80	<b>18.11</b>	<b>18.21</b>
155	18.30	15.91	16.42	16.91	17.45	17.83	18.12
156	17.80	15.61	16.33	16.78	17.30	17.52	17.63
157	17.00	14.86	15.42	15.70	16.02	16.24	16.44
161	15.90	14.51	15.29	15.67	<b>15.94</b>	<b>16.16</b>	<b>16.39</b>
163	15.00	13.07	13.41	13.72	14.23	14.35	14.46
167	13.80	12.68	13.21	13.52	<b>13.85</b>	<b>13.98</b>	<b>14.11</b>
173	16.20	15.45	15.58	15.65	15.73	15.81	15.88
175	14.50	13.01	13.28	13.58	13.87	14.07	14.23
177	15.00	12.71	13.24	13.55	13.84	14.02	14.16
179	16.00	12.70	13.24	13.54	13.83	14.01	14.15
185	14.00	12.59	13.12	13.44	13.73	13.88	13.99
191	16.30	10.90	11.27	11.48	11.76	11.99	12.16
197	11.60	10.85	11.23	11.45	<b>11.73</b>	<b>11.92</b>	<b>12.07</b>
199	11.60	10.54	10.59	10.47	10.26	10.11	10.15

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
205	17.50	16.99	17.40	<b>17.50</b>	<b>17.50</b>	<b>17.51</b>	<b>17.51</b>
209	16.00	14.95	15.79	<b>16.00</b>	<b>16.00</b>	<b>16.02</b>	<b>16.04</b>
211	16.00	14.58	15.04	15.11	15.17	15.19	15.21
217	13.00	11.05	11.75	12.05	12.26	12.32	12.41
221	12.00	10.28	10.91	11.23	11.47	11.61	11.86
223	12.00	9.22	9.79	10.08	10.31	10.46	10.79
253	14.00	12.74	13.27	13.32	13.35	13.38	13.42
271	13.30	12.73	13.27	<b>13.30</b>	<b>13.32</b>	<b>13.35</b>	<b>13.40</b>
279	13.00	10.49	11.10	11.51	11.75	11.86	11.97
281	13.00	7.23	7.48	7.99	8.62	9.27	9.78
285	12.00	6.93	7.42	7.97	8.61	9.26	9.78
289	10.00	6.44	7.25	7.82	8.51	9.23	9.77
291	10.00	6.09	6.63	6.92	7.31	7.67	7.95
293	12.00	6.18	6.23	6.63	7.04	7.40	7.71
295	10.00	5.62	6.23	6.63	7.04	7.40	7.71
309	16.30	14.84	15.33	15.65	16.06	<b>16.31</b>	<b>16.35</b>
315	16.30	14.09	14.84	15.28	15.77	16.16	<b>16.31</b>
317	16.30	14.07	14.83	15.25	15.71	16.08	16.26
319	17.10	13.90	14.64	15.08	15.54	15.97	16.21
323	16.70	13.74	14.52	14.96	15.43	15.90	16.14
329	16.50	13.53	14.32	14.91	15.33	15.78	16.01
333	16.40	13.18	14.19	14.91	15.22	15.58	15.76
337	16.00	12.82	14.19	14.90	15.09	15.30	15.47
339	16.60	12.82	14.19	14.90	15.09	15.25	15.47
343	15.60	12.82	14.19	14.90	15.09	15.25	15.44
345	15.50	12.82	14.19	14.90	15.11	15.44	<b>15.52</b>
347	15.50	12.82	14.19	14.90	15.09	15.25	<b>15.50</b>
349	14.40	12.58	12.97	13.17	13.40	13.66	13.94
351	15.80	12.82	14.19	14.89	15.09	15.25	15.46
353	16.00	12.80	14.19	14.86	15.06	15.22	15.42
355	16.00	11.46	12.55	12.95	13.33	13.83	14.43
357	15.10	12.82	14.19	14.89	15.09	<b>15.25</b>	<b>15.44</b>
359	15.03	11.38	11.86	12.59	13.17	13.77	14.41
361	14.90	12.82	14.19	<b>14.90</b>	<b>15.09</b>	<b>15.25</b>	<b>15.44</b>
363	15.00	12.28	12.73	12.97	13.23	13.55	13.87
365	12.50	11.39	11.94	12.29	<b>12.51</b>	<b>12.54</b>	<b>12.61</b>
371	16.95	14.11	14.66	14.98	15.41	15.97	16.52
375	16.40	13.66	14.41	14.79	15.30	15.87	<b>16.40</b>
379	16.30	12.89	13.77	14.26	14.81	15.43	15.95

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
383	16.10	12.12	13.09	13.63	14.24	14.91	15.49
385	16.10	11.89	12.89	13.45	14.07	14.77	15.36
387	16.10	11.86	12.84	13.34	13.90	14.49	14.97
401	16.20	11.53	12.50	13.01	13.56	14.16	14.65
407	15.60	10.25	11.22	11.77	12.38	12.99	13.49
409	14.60	9.70	11.23	12.42	13.09	13.72	14.38
411	16.00	9.49	10.63	11.28	11.83	12.40	12.89
415	14.60	8.74	10.36	10.71	11.05	11.41	11.78
427	13.00	9.62	10.27	10.60	10.95	11.31	12.03
429	13.00	9.62	10.27	10.60	10.95	11.31	12.01
431	12.00	8.77	10.27	10.60	10.95	11.31	<b>12.00</b>
433	12.00	8.68	10.27	10.60	10.95	11.31	11.67
435	12.30	8.68	10.27	10.60	10.95	11.31	11.67
441	12.30	8.68	10.27	10.60	10.95	11.31	11.67
443	10.40	8.67	10.26	<b>10.59</b>	<b>10.94</b>	<b>11.29</b>	<b>11.65</b>
447	10.40	8.42	9.75	10.15	<b>10.42</b>	<b>10.63</b>	<b>10.87</b>
451	11.20	8.04	9.31	9.84	10.16	10.26	10.37
459	15.00	9.50	9.50	9.84	10.16	10.26	10.37
461	12.40	8.72	8.72	9.69	10.05	10.17	10.30
463	11.50	9.70	9.70	9.70	9.83	9.87	9.88
469	7.00	5.05	6.02	6.45	6.85	<b>7.15</b>	<b>7.42</b>
471	7.00	5.02	6.00	6.44	6.81	<b>7.04</b>	<b>7.18</b>
509	14.70	11.69	12.17	12.47	12.87	13.48	14.23
511	14.60	11.69	12.15	12.42	12.78	13.35	14.00
519	15.00	11.49	11.92	12.18	12.57	13.19	13.88
521	15.00	11.44	11.82	12.06	12.39	12.85	13.27
527	15.60	10.89	11.36	11.65	12.07	12.57	12.99
529	13.50	10.53	11.05	11.38	11.95	12.46	12.90
531	13.50	10.18	10.77	11.22	11.78	12.20	12.50
541	14.50	13.52	<b>14.50</b>	<b>14.50</b>	<b>14.51</b>	<b>14.54</b>	<b>14.58</b>
543	14.50	13.21	13.78	14.00	14.18	14.34	14.43
547	14.30	13.02	13.59	13.86	14.06	14.26	<b>14.30</b>
553	13.70	12.41	13.18	13.54	13.69	<b>13.71</b>	<b>13.72</b>
559	15.70	11.88	13.02	13.31	13.36	13.50	13.56
561	15.80	11.12	11.42	11.63	11.99	12.39	12.61
571	11.00	9.53	10.19	10.72	<b>11.05</b>	<b>11.15</b>	<b>11.24</b>
575	11.00	8.87	10.10	10.71	<b>11.07</b>	<b>11.23</b>	<b>11.40</b>
577	13.00	8.67	9.86	10.48	10.95	11.04	11.13
581	11.00	8.60	9.84	10.47	10.95	<b>11.04</b>	<b>11.12</b>

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
587	12.00	9.00	10.17	10.76	11.23	11.58	11.95
589	12.00	8.90	10.10	10.71	11.07	11.23	11.40
591	12.00	8.93	10.14	10.72	11.11	11.36	11.64
599	14.30	9.93	10.35	10.68	11.08	11.35	11.63
611	13.50	11.82	12.39	12.68	13.09	<b>13.50</b>	<b>13.53</b>
615	14.50	11.54	12.18	12.55	12.94	13.33	13.40
623	13.90	9.95	10.36	10.62	10.97	11.22	11.43
625	14.30	8.79	9.25	9.87	10.30	10.49	10.63
629	15.00	8.11	9.34	10.00	10.47	10.64	10.75
631	15.10	8.08	9.24	9.84	10.26	10.43	10.55
641	11.70	9.55	10.19	10.72	11.05	11.15	11.24
643	11.70	10.38	11.03	11.43	<b>11.72</b>	<b>11.78</b>	<b>11.84</b>
645	14.00	<b>14.00</b>	<b>14.01</b>	<b>14.01</b>	<b>14.03</b>	<b>14.05</b>	<b>14.09</b>
647	14.00	10.38	11.03	11.43	11.72	11.80	11.84
655	15.00	10.38	11.03	11.43	11.75	11.89	12.00
659	14.20	9.58	10.27	10.82	11.11	11.21	11.32
663	11.00	9.58	10.27	10.82	<b>11.10</b>	<b>11.20</b>	<b>11.31</b>
665	11.00	9.19	10.08	10.65	<b>11.00</b>	<b>11.10</b>	<b>11.19</b>
667	11.00	9.06	9.97	10.52	10.96	<b>11.04</b>	<b>11.13</b>
671	11.60	7.97	9.10	9.64	9.99	10.14	10.24
673	15.70	7.97	9.10	9.63	9.99	10.14	10.24
681	13.00	6.96	7.93	8.44	8.81	9.06	9.22
689	12.90	12.72	<b>12.90</b>	<b>12.91</b>	<b>12.92</b>	<b>12.93</b>	<b>12.94</b>
691	13.50	11.04	11.40	11.52	11.69	11.92	12.14
693	13.00	10.97	11.30	11.40	11.59	11.82	12.04
699	13.00	8.95	9.64	9.95	10.23	10.52	10.77
703	12.50	8.21	8.81	9.07	9.32	9.56	9.78
707	12.10	6.13	7.05	7.59	8.02	8.37	8.57
717	10.00	4.97	5.99	6.46	6.85	7.14	7.32
727	17.00	14.54	15.68	16.42	<b>17.00</b>	<b>17.01</b>	<b>17.01</b>
729	16.50	14.24	14.73	14.97	15.31	15.39	15.58
733	15.50	13.11	13.76	14.15	14.73	14.90	15.29
735	15.50	12.27	12.64	12.83	13.03	13.06	13.06
737	15.50	12.15	12.53	12.72	12.92	12.95	12.95
745	15.00	11.29	11.69	11.90	12.12	12.16	12.16
747	15.00	10.97	11.41	11.63	11.88	11.92	11.92
749	15.00	10.10	10.42	10.75	11.26	11.42	11.41
751	14.50	9.53	10.18	10.57	11.16	11.33	11.32
753	14.00	8.20	8.77	9.27	10.26	11.05	11.07

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
761	11.00	7.77	8.59	9.15	10.24	<b>11.00</b>	<b>11.00</b>
763	11.00	6.80	7.03	7.15	7.13	7.86	8.15
769	10.00	4.45	5.60	6.10	6.47	6.76	6.98
775	6.00	4.02	5.18	5.64	5.93	<b>6.12</b>	<b>6.28</b>
779	5.50	3.95	5.09	<b>5.54</b>	<b>5.81</b>	<b>5.99</b>	<b>6.14</b>
787	12.20	11.23	11.71	11.72	11.76	<b>12.20</b>	<b>12.20</b>
789	12.00	10.17	10.22	10.25	10.28	10.29	10.28
793	5.70	3.92	5.05	5.49	<b>5.74</b>	<b>5.92</b>	<b>6.05</b>
809	15.00	12.97	<b>15.00</b>	<b>15.00</b>	<b>15.01</b>	<b>15.01</b>	<b>15.02</b>
811	15.00	11.10	11.69	11.95	12.20	12.40	12.41
821	12.00	3.85	4.96	5.40	5.64	5.79	5.91
831	14.00	5.81	6.43	6.57	6.74	6.89	7.06
835	6.40	5.76	6.36	<b>6.40</b>	<b>6.41</b>	<b>6.43</b>	<b>6.46</b>
837	6.40	5.72	6.25	6.30	6.32	6.33	6.35
845	6.00	4.56	5.07	5.24	5.37	5.51	5.65
847	6.00	3.88	4.34	4.46	4.54	4.65	4.80
855	6.00	2.36	3.32	3.71	3.93	4.17	4.33
863	7.00	1.96	2.76	3.12	3.34	3.59	3.82
865	8.00	1.95	2.75	3.11	3.33	3.58	3.81
875	6.00	1.90	2.68	3.01	3.22	3.46	3.66
885	6.00	1.60	2.29	2.60	2.80	3.05	3.25
895	6.00	1.04	1.25	1.38	1.47	1.59	1.69
897	4.10	0.95	1.00	1.03	1.06	1.11	1.15
899	4.10	0.94	0.96	0.97	0.99	1.00	1.03

**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
101	17.50	15.86	16.48	17.20	17.27	17.37	17.37
103	17.50	16.80	<b>17.50</b>	<b>17.51</b>	<b>17.52</b>	<b>17.54</b>	<b>17.57</b>
105	17.80	16.81	17.57	17.62	17.65	17.67	17.69
107	17.40	15.11	15.40	15.53	15.88	16.38	16.89
115	17.30	14.69	15.18	15.49	15.85	16.59	16.83
117	17.00	14.40	14.94	15.26	15.70	16.12	16.42
121	16.50	<b>16.50</b>	<b>16.51</b>	<b>16.52</b>	<b>16.53</b>	<b>16.54</b>	<b>16.55</b>
123	16.50	<b>16.50</b>	<b>16.51</b>	<b>16.52</b>	<b>16.53</b>	<b>16.54</b>	<b>16.55</b>
125	16.30	15.20	15.76	<b>16.31</b>	<b>16.31</b>	<b>16.32</b>	<b>16.33</b>
127	17.00	15.19	15.76	16.31	16.31	16.32	16.33
129	16.50	15.12	15.96	<b>16.50</b>	<b>16.51</b>	<b>16.53</b>	<b>16.55</b>
131	16.50	15.12	15.96	<b>16.50</b>	<b>16.51</b>	<b>16.53</b>	<b>16.55</b>
133	16.50	14.92	15.50	16.08	16.26	16.43	<b>16.50</b>
135	16.70	14.50	15.25	15.93	16.18	16.41	16.51
137	16.70	14.46	15.18	15.81	16.03	16.25	16.36
139	17.00	13.61	14.87	15.86	<b>17.00</b>	<b>17.02</b>	<b>17.03</b>
143	17.50	13.56	14.86	15.85	17.00	17.03	17.05
145	17.00	13.03	13.46	13.72	14.00	14.16	14.32
147	16.50	12.99	13.42	13.68	13.97	14.14	14.30
148	19.10	16.83	17.26	17.50	18.00	18.48	18.70
149	18.20	15.91	16.60	17.11	17.87	<b>18.21</b>	<b>18.28</b>
151	16.50	12.85	13.30	13.59	13.89	14.08	14.26
152	18.40	16.58	17.09	17.38	17.95	18.34	<b>18.44</b>
153	16.50	12.83	13.29	13.58	13.88	14.04	14.18
154	18.00	15.68	16.45	17.02	17.80	<b>18.11</b>	<b>18.21</b>
155	18.30	15.91	16.42	16.91	17.45	17.83	18.12
156	17.80	15.61	16.33	16.78	17.30	17.52	17.63
157	17.00	14.86	15.42	15.70	16.02	16.24	16.44
161	15.90	14.51	15.29	15.67	<b>15.94</b>	<b>16.16</b>	<b>16.39</b>
163	15.00	13.07	13.41	13.73	14.23	14.35	14.46
167	13.80	12.68	13.21	13.53	<b>13.85</b>	<b>13.98</b>	<b>14.11</b>
173	16.20	15.45	15.58	15.65	15.73	15.81	15.88
175	14.50	13.01	13.28	13.60	13.87	14.07	14.23
177	15.00	12.71	13.24	13.56	13.84	14.02	14.16
179	16.00	12.70	13.24	13.56	13.83	14.01	14.15
185	14.00	12.59	13.12	13.44	13.73	13.88	13.99
191	16.30	10.90	11.27	11.49	11.76	11.99	12.15
197	11.60	10.85	11.23	11.46	<b>11.73</b>	<b>11.92</b>	<b>12.07</b>
199	11.60	10.54	10.60	10.47	10.26	10.11	10.15

**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
205	17.50	16.99	17.40	<b>17.50</b>	<b>17.50</b>	<b>17.51</b>	<b>17.51</b>
209	16.00	14.95	15.79	<b>16.00</b>	<b>16.01</b>	<b>16.02</b>	<b>16.04</b>
211	16.00	14.58	15.04	15.11	15.17	15.19	15.21
217	13.00	11.05	11.75	12.05	12.26	12.32	12.41
221	12.00	10.28	10.91	11.23	11.47	11.61	11.86
223	12.00	9.22	9.79	10.08	10.31	10.46	10.80
253	14.00	12.74	13.27	13.32	13.35	13.38	13.42
271	13.30	12.73	13.27	<b>13.31</b>	<b>13.32</b>	<b>13.35</b>	<b>13.40</b>
279	13.00	10.49	11.10	11.51	11.75	11.86	11.97
281	13.00	7.23	7.48	7.99	8.62	9.27	9.79
285	12.00	6.93	7.42	7.97	8.61	9.27	9.79
289	10.00	6.44	7.25	7.82	8.52	9.23	9.77
291	10.00	6.09	6.63	6.92	7.31	7.70	8.01
293	12.00	6.25	6.31	6.61	7.05	7.47	7.79
295	10.00	5.62	6.21	6.61	7.05	7.47	7.79
309	16.30	14.84	15.33	15.65	16.06	<b>16.31</b>	<b>16.35</b>
315	16.30	14.09	14.84	15.28	15.77	16.16	<b>16.31</b>
317	16.30	14.07	14.83	15.25	15.71	16.08	16.26
319	17.10	13.90	14.64	15.08	15.54	15.97	16.21
323	16.70	13.74	14.52	14.96	15.43	15.90	16.14
329	16.50	13.53	14.32	14.91	15.33	15.78	16.01
333	16.40	13.18	14.16	14.91	15.22	15.58	15.76
337	16.00	12.82	14.16	14.90	15.09	15.30	15.47
339	16.60	12.82	14.16	14.90	15.08	15.24	15.47
343	15.60	12.82	14.16	14.90	15.08	15.24	15.44
345	15.50	12.82	14.16	14.90	15.11	15.44	<b>15.52</b>
347	15.50	12.82	14.16	14.90	15.08	15.24	<b>15.50</b>
349	14.40	12.58	12.97	13.17	13.40	13.66	13.94
351	15.80	12.82	14.16	14.90	15.08	15.24	15.46
353	16.00	12.80	14.16	14.86	15.05	15.22	15.41
355	16.00	11.46	12.58	12.85	13.04	13.67	14.32
357	15.10	12.82	14.16	14.90	15.08	<b>15.24</b>	<b>15.44</b>
359	15.03	11.38	11.97	12.20	12.69	13.58	14.29
361	14.90	12.82	14.16	<b>14.90</b>	<b>15.08</b>	<b>15.24</b>	<b>15.44</b>
363	15.00	12.28	12.73	12.97	13.23	13.55	13.87
365	12.50	11.39	11.94	12.29	<b>12.51</b>	<b>12.54</b>	<b>12.61</b>
371	16.95	14.11	14.66	14.98	15.41	15.97	16.53
375	16.40	13.66	14.41	14.79	15.30	15.87	<b>16.40</b>
379	16.30	12.89	13.77	14.26	14.81	15.43	15.95



**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
383	16.10	12.12	13.09	13.63	14.24	14.92	15.49
385	16.10	11.89	12.89	13.45	14.08	14.77	15.36
387	16.10	11.86	12.84	13.35	13.90	14.49	14.96
401	16.20	11.53	12.50	13.01	13.57	14.16	14.63
407	15.60	10.28	11.25	11.76	12.32	12.92	13.43
409	14.60	9.70	10.23	11.06	12.48	13.52	14.26
411	16.00	9.60	10.56	11.06	11.63	12.26	12.79
415	14.60	7.99	9.02	9.57	10.18	10.86	11.42
427	13.00	9.62	9.67	9.74	9.83	10.74	12.04
429	13.00	9.62	9.66	9.72	9.80	10.74	12.03
431	12.00	8.77	8.88	9.03	9.21	10.74	<b>12.00</b>
433	12.00	8.63	8.67	8.73	9.18	9.98	10.54
435	12.30	7.45	7.76	8.45	9.18	9.98	10.54
441	12.30	6.45	7.75	8.45	9.18	9.98	10.54
443	10.40	6.16	7.59	8.30	9.05	9.86	<b>10.43</b>
447	10.40	5.82	7.30	8.03	8.78	9.56	10.09
451	11.20	5.78	7.19	7.91	8.65	9.42	9.92
459	15.00	9.50	9.50	9.50	9.50	9.50	9.93
461	12.40	8.72	8.72	8.72	8.72	8.72	9.81
463	11.50	9.70	9.70	9.70	9.70	9.70	9.77
469	7.00	4.92	5.97	6.39	6.86	<b>7.24</b>	<b>7.48</b>
471	7.00	4.83	5.95	6.38	6.79	<b>7.16</b>	<b>7.43</b>
509	14.70	10.97	11.98	12.51	13.05	13.84	14.16
511	13.90	10.96	11.97	12.50	13.04	13.84	<b>14.15</b>
513	13.90	10.94	11.93	12.43	12.94	13.67	<b>14.03</b>
519	13.90	10.94	11.93	12.43	12.93	13.67	<b>14.03</b>
521	13.90	8.67	10.53	11.23	12.03	12.94	13.26
523	13.00	8.64	10.53	11.22	12.03	12.94	<b>13.26</b>
525	13.00	8.61	10.52	11.21	12.02	12.93	<b>13.26</b>
526	13.00	8.37	9.61	10.01	10.47	11.17	11.98
527	15.60	12.55	13.74	13.81	13.85	13.97	14.08
529	13.50	12.36	<b>13.50</b>	<b>13.51</b>	<b>13.52</b>	<b>13.54</b>	<b>13.56</b>
531	13.50	11.98	12.64	12.67	12.74	12.84	12.85
541	14.50	11.27	12.37	12.97	13.66	14.47	<b>14.72</b>
547	14.30	14.23	<b>14.32</b>	<b>14.33</b>	<b>14.35</b>	<b>14.37</b>	<b>14.40</b>
553	13.70	13.36	13.66	<b>13.70</b>	<b>13.71</b>	<b>13.72</b>	<b>13.73</b>
559	15.70	13.23	13.33	13.46	13.46	13.47	13.50
561	15.80	12.06	12.09	12.18	12.15	12.16	12.18
571	11.00	9.14	9.66	9.91	10.33	10.90	<b>11.05</b>

**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
575	11.00	9.01	9.95	10.28	10.60	<b>11.01</b>	<b>11.57</b>
581	11.00	7.96	8.97	9.56	10.15	10.78	<b>11.02</b>
587	13.00	8.61	10.52	11.21	12.02	12.93	<b>13.26</b>
589	12.00	8.60	9.67	10.07	10.47	10.96	11.57
591	12.00	8.45	9.35	9.71	10.16	10.83	11.59
599	14.30	6.95	8.41	9.09	9.84	10.73	11.61
611	13.50	11.60	12.10	12.35	12.64	13.01	13.29
615	14.50	8.07	9.29	9.71	10.23	11.06	11.91
623	13.90	6.80	8.15	8.80	9.56	10.57	11.63
625	14.30	6.51	7.50	8.07	8.69	9.30	9.74
629	15.00	6.66	7.90	8.53	9.22	9.96	10.70
631	15.10	6.50	7.49	8.07	8.69	9.30	9.73
641	11.70	9.20	9.71	9.96	10.37	10.92	11.18
643	11.70	<b>11.75</b>	<b>11.88</b>	<b>11.97</b>	<b>12.07</b>	<b>12.21</b>	<b>12.35</b>
645	14.00	<b>14.00</b>	<b>14.01</b>	<b>14.01</b>	<b>14.03</b>	<b>14.06</b>	<b>14.09</b>
647	14.00	11.76	11.89	11.97	12.08	12.22	12.37
655	15.00	11.91	12.34	12.55	12.83	13.15	13.45
659	14.20	9.16	9.74	10.20	10.79	11.12	11.30
663	11.00	9.16	9.74	10.20	10.79	<b>11.11</b>	<b>11.29</b>
665	11.00	9.10	9.62	9.85	10.31	10.88	<b>11.03</b>
667	11.00	9.08	9.60	9.82	10.30	10.88	<b>11.02</b>
671	11.60	6.17	7.13	7.79	8.43	9.04	9.43
673	15.70	5.78	7.13	7.79	8.43	9.04	9.43
681	13.00	5.11	6.58	7.20	7.80	8.38	8.77
689	12.90	<b>12.90</b>	<b>12.91</b>	<b>12.91</b>	<b>12.92</b>	<b>12.94</b>	<b>12.96</b>
691	13.50	11.20	11.41	11.53	11.71	11.93	12.15
693	13.00	11.12	11.31	11.41	11.60	11.83	12.04
699	13.00	9.02	9.65	9.95	10.22	10.51	10.76
703	12.50	8.14	8.71	8.98	9.23	9.49	9.72
707	12.10	4.82	6.33	6.89	7.47	8.02	8.41
717	10.00	4.47	5.95	6.39	6.82	7.30	7.67
727	17.00	15.14	16.70	<b>17.00</b>	<b>17.01</b>	<b>17.02</b>	<b>17.03</b>
729	16.50	14.52	15.06	15.33	15.40	15.54	15.67
733	15.50	13.47	14.29	14.78	14.92	15.22	15.42
735	15.50	12.48	12.90	13.10	13.14	13.13	13.13
737	15.50	12.36	12.80	13.00	13.05	13.04	13.04
745	15.00	11.70	12.28	12.54	12.59	12.59	12.59
747	15.00	11.52	12.15	12.43	12.49	12.49	12.49
749	15.00	10.24	10.89	11.33	11.39	11.38	11.38

**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

Junction Number	Ground Elevation (ft)	Maximum Computed Water Surface Elevation					
		2-Yr (ft)	5-Yr (ft)	10-Yr (ft)	25-Yr (ft)	50-Yr (ft)	100-Yr (ft)
751	14.50	9.87	10.69	11.21	11.27	11.25	11.26
753	14.00	8.56	9.50	10.38	11.06	11.08	11.08
761	11.00	8.22	9.39	10.36	<b>11.00</b>	<b>11.00</b>	<b>11.00</b>
763	11.00	6.72	6.97	6.93	7.60	7.81	7.92
769	10.00	4.36	5.82	6.21	6.59	7.05	7.44
775	6.00	4.17	5.58	5.92	<b>6.25</b>	<b>6.59</b>	<b>6.86</b>
779	5.50	4.13	<b>5.52</b>	<b>5.85</b>	<b>6.17</b>	<b>6.49</b>	<b>6.73</b>
787	12.20	11.22	11.71	11.72	11.76	<b>12.20</b>	<b>12.20</b>
789	12.00	10.20	10.19	10.22	10.26	10.27	10.30
793	5.70	4.10	5.49	<b>5.81</b>	<b>6.12</b>	<b>6.42</b>	<b>6.65</b>
809	15.00	13.58	<b>15.00</b>	<b>15.01</b>	<b>15.01</b>	<b>15.02</b>	<b>15.03</b>
811	15.00	11.26	11.86	12.05	11.96	11.90	11.94
821	12.00	4.08	5.46	5.78	6.07	6.37	6.59
831	14.00	5.94	6.52	6.63	6.76	6.89	7.06
835	6.40	5.91	<b>6.40</b>	<b>6.41</b>	<b>6.42</b>	<b>6.43</b>	<b>6.47</b>
837	6.40	5.85	6.30	6.32	6.33	6.35	6.37
845	6.00	4.74	5.25	5.39	5.54	5.70	5.82
847	6.00	4.34	4.70	4.77	4.83	5.12	5.33
855	6.00	3.12	4.23	4.51	4.74	4.97	5.16
863	7.00	2.80	3.73	3.98	4.20	4.43	4.63
865	8.00	2.79	3.71	3.97	4.19	4.41	4.61
875	6.00	2.71	3.57	3.79	3.99	4.18	4.36
885	6.00	2.32	3.13	3.35	3.55	3.75	3.93
895	6.00	1.26	1.63	1.75	1.85	1.95	2.05
897	4.10	1.00	1.12	1.18	1.23	1.28	1.33
899	4.10	0.96	1.01	1.04	1.06	1.09	1.12