Stoughton River Park Hydraulics Video

Link: https://vimeo.com/454876656

Table 1. Modeled Water Surface Elevation Comparisons with winter aquatic plant growth conditions (roughness coefficients calibrated to November & April measurements)

		Water Surface Elevation (ft)									Water Surface Difference between Existing and Proposed (ft)					
		Existing Conditions			with Proposed Project			with full Dam Removal			with Proposed Project			with full Dam Removal		
River Station (ft)	**LOCATION**	650 cfs	380 cfs	150 cfs	650 cfs	380 cfs	150 cfs	650 cfs	380 cfs	150 cfs	650 cfs	380 cfs	150 cfs	650 cfs	380 cfs	150 cfs
88236	Stoughton Mill Pond	841.2	841.4	841.5	840.1	839.4	838.6	837.0	836.1	835.1	-1.1	-2.0	-2.9	-4.2	-5.3	-6.4
89646	Main St	841.3	841.4	841.5	840.3	839.6	838.6	839.0	838.2	837.1	-1.0	-1.9	-2.9	-2.4	-3.3	-4.4
93817	Widening between RR bridge & County Rd B	842.1	841.7	841.5	841.6	840.7	839.5	841.4	840.5	839.4	-0.4	-1.0	-2.1	-0.6	-1.2	-2.2
103439	Widening north of County Rd B	842.4	841.9	841.6	842.1	841.1	840.0	842.0	841.0	840.0	-0.3	-0.8	-1.5	-0.4	-0.9	-1.6
117303	Immediately downstream of Lafollette Dam	843.3	842.6	841.8	843.2	842.3	841.2	843.2	842.3	841.2	-0.1	-0.3	-0.5	-0.1	-0.3	-0.5

Table 2. Modeled Water Surface Elevation Comparisons with peak aquatic plant growth conditions (roughness coefficients calibrated to June measurements)

		Water Surface Elevation (ft)									Water Surface Difference between Existing and Proposed (ft)					
		Existing Conditions			with Proposed Project			with full Dam Removal			with Proposed Project			with full Dam Removal		
River Station (ft)	**LOCATION**	650 cfs	380 cfs	150 cfs	650 cfs	380 cfs	150 cfs	650 cfs	380 cfs	150 cfs	650 cfs	380 cfs	150 cfs	650 cfs	380 cfs	150 cfs
88236	Stoughton Mill Pond	841.2	841.4	841.5	840.1	839.4	838.6	837.0	836.1	835.1	-1.1	-2.0	-2.9	-4.2	-5.3	-6.4
89646	Main St	841.3	841.4	841.5	840.3	839.6	838.6	839.0	838.2	837.1	-1.0	-1.9	-2.9	-2.3	-3.3	-4.4
93817	Widening between RR bridge & County Rd B	843.1	842.3	841.7	843.0	841.8	840.3	842.9	841.7	840.2	-0.2	-0.5	-1.4	-0.3	-0.6	-1.4
103439	Widening north of County Rd B	845.2	843.8	842.3	845.1	843.7	841.7	845.1	843.7	841.7	0.0	-0.1	-0.6	-0.1	-0.2	-0.6
117303	Immediately downstream of Lafollette Dam	846.3	845.1	843.5	846.3	845.1	843.4	846.3	845.1	843.4	0.0	0.0	-0.1	0.0	0.0	-0.1