

Table of Contents

Executive Summary	1
Background	2
Methodology	4
Modeling Configurations	4
Modeling Results	5
Back-to-Back Storms Analysis	7
Master Drainage Plan Improvements	8
Environmental Restoration and Protection Opportunities	11
Contact Information	12

Figures

Figure 1. New Mill Creek Watershed MDPU Map	13
Figure 2. Soils with Wetlands Overlay	14
Figure 3. Existing Conditions Subcatchments with Shaded Imperviousness	15
Figure 4. Future Conditions Subcatchments with Shaded Imperviousness	16
Figure 5. Link-Node Diagram – Existing Conditions	17
Figure 6. Link-Node Diagram – Future Conditions	18
Figure 7. Flooding for 10-Yr and 50-Yr Storms: Existing Hydrology, Existing Drainage	19
Figure 8. Future Improvements	20
Figure 9. Flooding for 10-Yr and 50-Yr Storms: Future Hydrology, Future Drainage	21
Figure 10. Alternative Water Quality Design Improvements	22
Figure 11. Potential Environmental Restoration and Protection Projects	23

Tables

Table C-1. Existing Conditions Peak Water Surface Elevations	C-1
Table C-2. Future Conditions Peak Water Surface Elevations	C-7
Table C-3. Environmental Restoration Scenario Peak Water Surface Elevations	C-12
Table D-1. Back-to-Back Storms Analysis	D-1

Appendices

A. Photographs	A-1
B. Surveying Data	B-1
C. Maximum Water Surface Elevations	C-1
D. Back-to-Back Storms Analysis	D-1