

6.2 Water Solutions

To identify the required solutions, Civica initially investigated the deficiencies in the study area and reported the possible deficiencies to the City. The recognized areas were reviewed by the City and the final solutions were proposed for the locations where upgrades deemed necessary by the City. **Figure 6-2** illustrates a schematic of the required changes in the water network and **Table 6-3** summarizes the proposed projects. Figures showing the details of each project are presented in **Appendix B**.

Table 6-3. Proposed Projects - Water Distribution System

Project ID	Description	OP Area	Location	Horizon Period
W1	New 150 mm Watermain	Oak Ridges Local Centre	Yonge Street South of Elm Grove Avenue	2041
W2.1	Watermain Replacement (150mm to 300mm)	Regional Mixed Use Corridor	Yonge Street & Murihead Crescent	2041
W2.2	New 300 Watermain	Regional Mixed Use Corridor	Yonge Street between Murihead Crescent and Stouffville Road	2041
W2.3	New 200 mm Watermain	Regional Mixed Use Corridor	Yonge Street North of Murihead Crescent	2041
W3.1	New 250 mm Watermain	Regional Mixed Use Corridor	Yonge Street & Harris Avenue	2041
W3.2	New 300 Watermain	Regional Mixed Use Corridor	Yong Street between Harris Avenue and Jefferson Sideroad	2041
W3.3	New 300 Watermain	Regional Mixed Use Corridor	Yonge Street West Side, North of Gamble Road	2041
W4	New 250 mm Watermain	Regional Mixed Use Corridor	Yonge Street East Side, North of Silverwood Ave	2041
W5	New 300 mm Watermain	Key Development Area	South of Yonge St and Canyon Hill Ave	2041
W6.1	Watermain Replacement (150mm to 300mm)	Regional Mixed Use Corridor	Yonge St. North of Oxford St.	2051
W6.2	Watermain Replacement (150mm to 250mm)	Regional Mixed Use Corridor	Yong St. & Oxford St.	2051
W7.1	Watermain Replacement (150mm to 250mm)	Downtown Local Centre	Lorne Ave & Church St. North of Major Mackenzie	2041
W7.2	Watermain Replacement (150mm to 300mm)	Downtown Local Centre / Regional Mixed Use Corridor	Church St. South of Major Mackenzie	2051
W8.1	Watermain Replacement (150mm to 300mm)	Downtown Local Centre	Yonge St East Side between Major Mackenzie Dr. and Elmwood Ave.	2041

Project ID	Description	OP Area	Location	Year
W8.2	New 300 Watermain	Downtown Local Centre	Yonge St East Side between Major Mackenzie Dr. and Elmwood Ave.	2041
W8.3	New 150 mm Watermain	Downtown Local Centre	Yonge St & Palmer Ave.	2041
W9.1	Watermain Replacement (150mm to 250mm)	Loyal Development Area	Cedar Ave. South of Major Mackenzie Dr.	Ultimate
W9.2	Watermain Replacement (150mm to 250mm)	Loyal Development Area	Norfolk Ave. South of Major Mackenzie Dr.	2051
W10	Watermain Replacement (150mm to 300mm)	Loyal Development Area	Old Markham Rd. & Bayview Ave.	2041
W11.1	Watermain Replacement (150mm to 250mm)	Regional Mixed Use Corridor	Yonghurst Drive at Yonge Street Intersection	2041
W11.2	New 300 Watermain	Regional Mixed Use Corridor	Yonge Street East Side North of Clarissa Dr.	2041
W11.3	Watermain Replacement (150mm to 300mm)	Regional Mixed Use Corridor	Yonge Street East Side North of Clarissa Dr.	2041
W12.1	Watermain Replacement (150mm to 250mm)	Regional Mixed Use Corridor	Spruce Avenue At Yonge St. Intersection	2041
W12.2	Watermain Replacement (150mm to 250mm)	Regional Mixed Use Corridor	Oak Avenue at Yonge St. Intersection	2041
W12.3	Watermain Replacement (150mm to 250mm)	Regional Mixed Use Corridor	Edgar Avenue at Yonge St. Intersection	2041
W13.1	Watermain Replacement (150mm to 250mm)	Regional Mixed Use Corridor / Richmond Hill Centre	Scott Drive at Yonge St. Intersection	2041
W13.2	Watermain Replacement (150mm to 250mm)	Richmond Hill Centre	Mackay Drive at Yonge St. Intersection	Ultimate
W14.1	Watermain Replacement (150mm to 300mm)	Richmond Hill Centre	High Tech Road between Yonge St and Red Maple Rd.	2041
W14.2	New 300 Watermain	Richmond Hill Centre	High Tech Road between Yonge St and Red Maple Rd.	2041
W14.3	Watermain Replacement (150mm to 300mm)	Richmond Hill Centre	High Tech Road between Yonge St and Red Maple Rd.	2041
W15	Watermain Replacement (150mm to 250mm)	Richmond Hill Centre	Garden Avenue At Yonge St. Intersection	2041