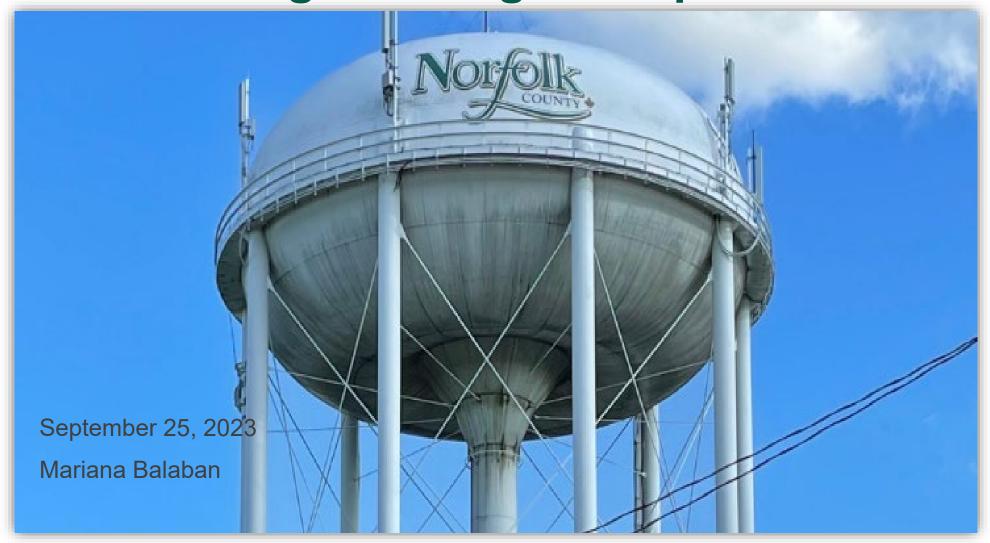
### **IUWS Program Progress Update**





### **IUWS Program Objectives**

NORFOLK COUNTY COUNCIL PRIORITY

Deliver safe drinking water

Ensure fire flow to all urban centres

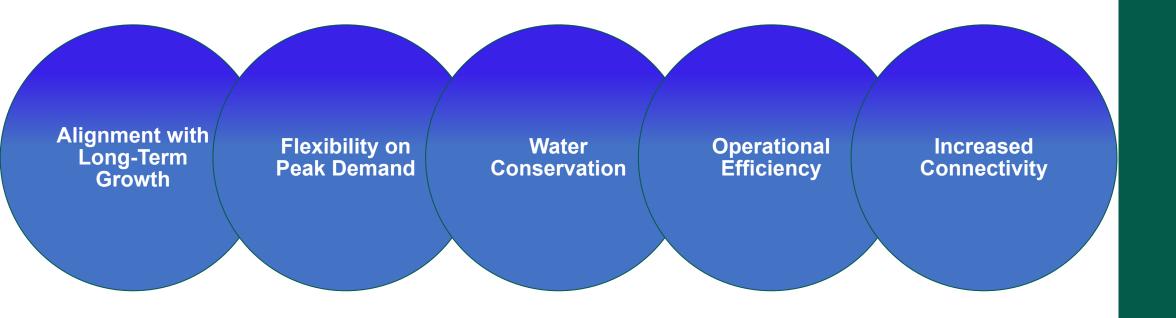
Ensure water supply for long-term growth

Build reliable infrastructure

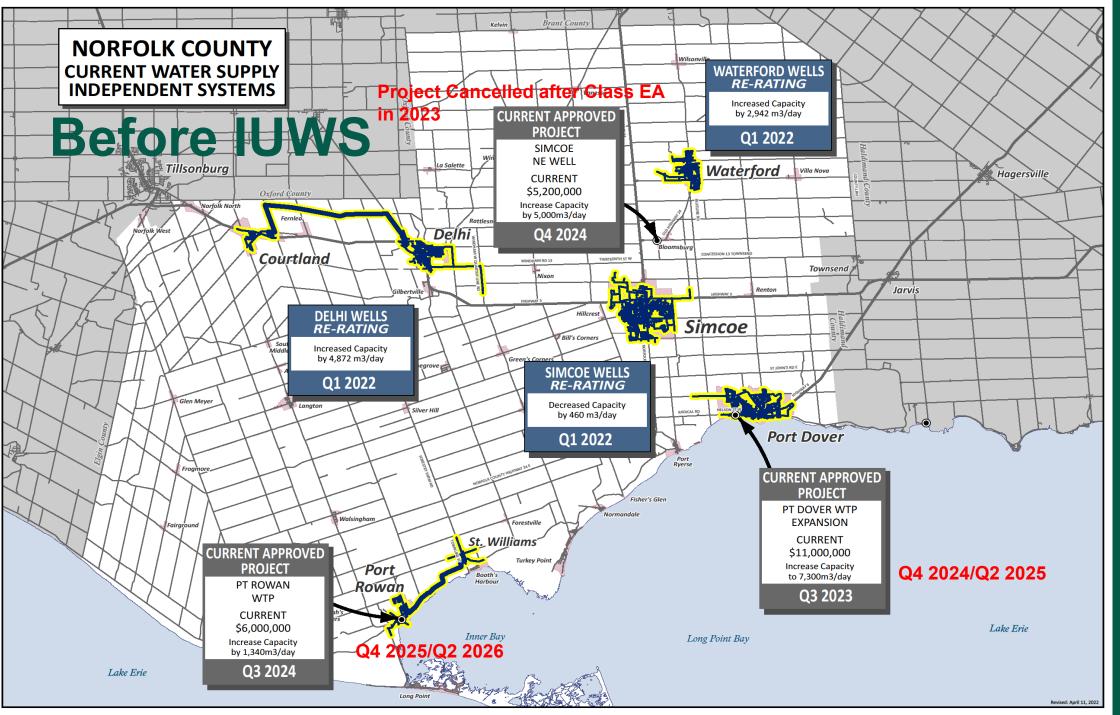
2



#### **Program Benefits – Focus on Sustainability**







2021 State:

66.4K population

23.4 k jobs

19.5 km of local watermains

288.4 km of distribution network

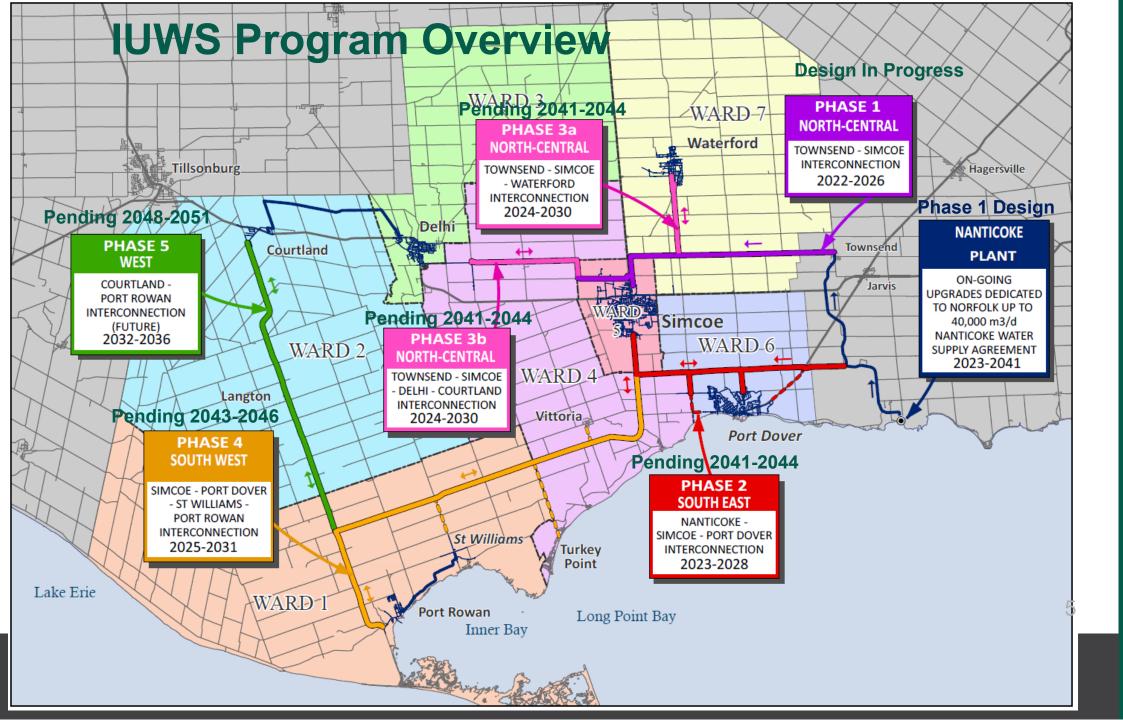
5 water treatment facilities

21,000 m<sup>3</sup>/d treatment capacity

2021 rate: \$1.624/m<sup>3</sup>

2022 rate: \$1.722/m<sup>3</sup>

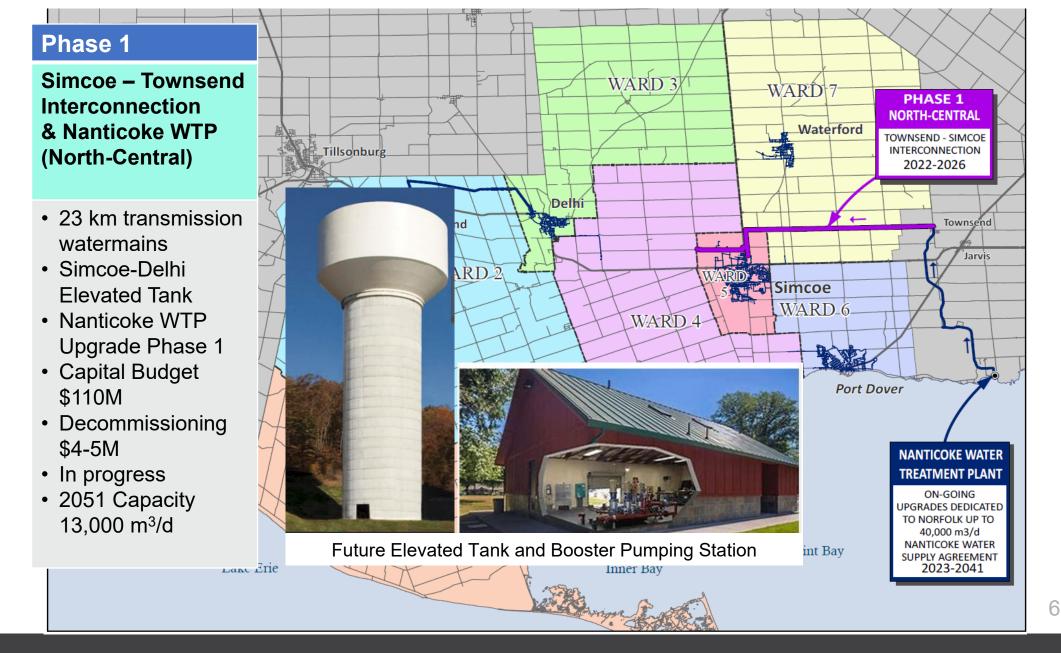




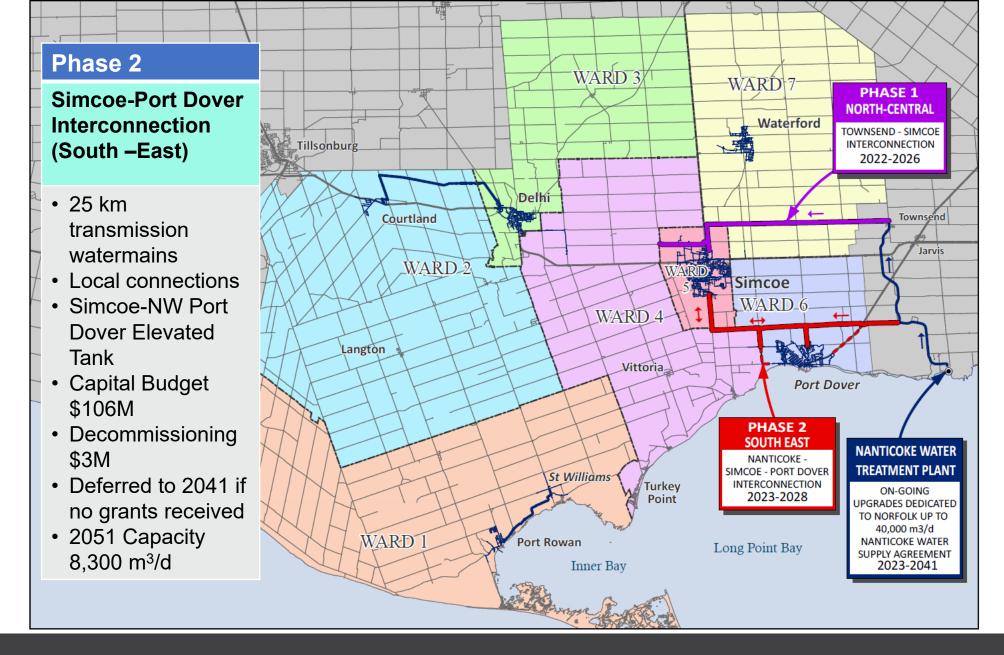
#### 2041-2051 Outlook

- 90,000 population
- **32.6k jobs**
- 130 km IUWS transmission watermain
- 10,000 new housing units
- 10,000 new jobs
- 40,000 m<sup>3</sup>/d treatment capacity at the Nanticoke WTP
- \$450M Budget Estimate (2023\$)







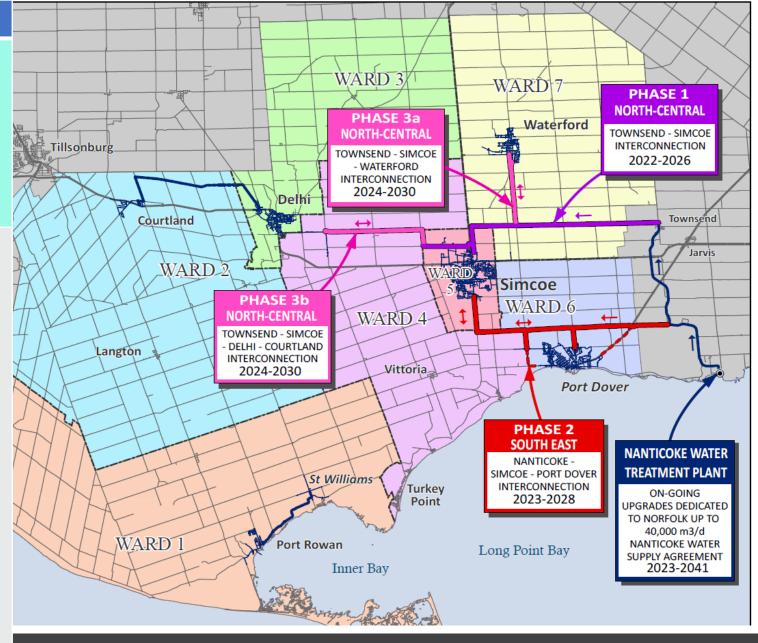




#### Phase 3

#### Simcoe - Delhi-Courtland and Simcoe - Waterford Interconnections (North Central Expansion to West and East)

- 21 km transmission watermains to Delhi and Waterford
- Waterford Elevated Tank
- Courtland Elevated Tank
- Nanticoke WTP Upgrade Phase 2
- Capital Budget \$60M
- Decommissioning \$3M
- Deferred to 2041 if no grants received
- 2051 Capacity to Delhi-Courtland 7,050 m<sup>3</sup>/d
- 2051 Capacity to Waterford 3,700 m<sup>3</sup>/d



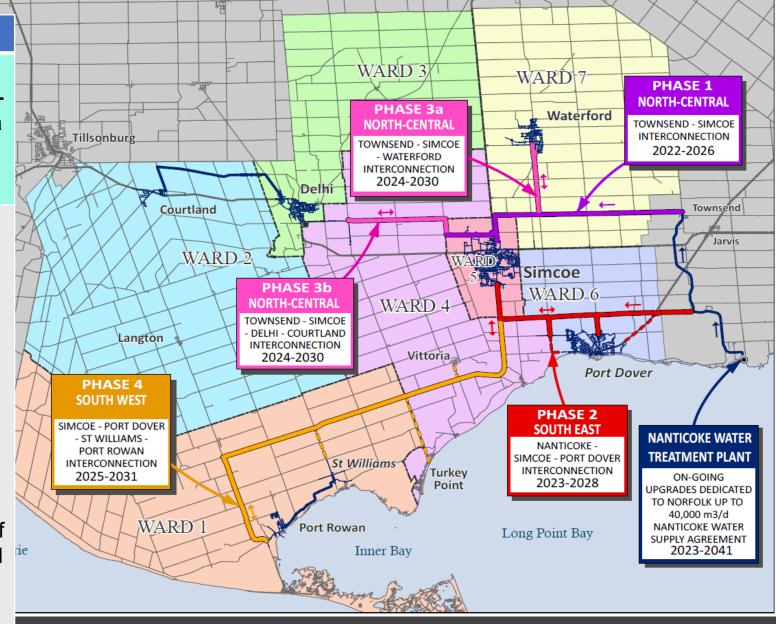
norfolkcounty.ca



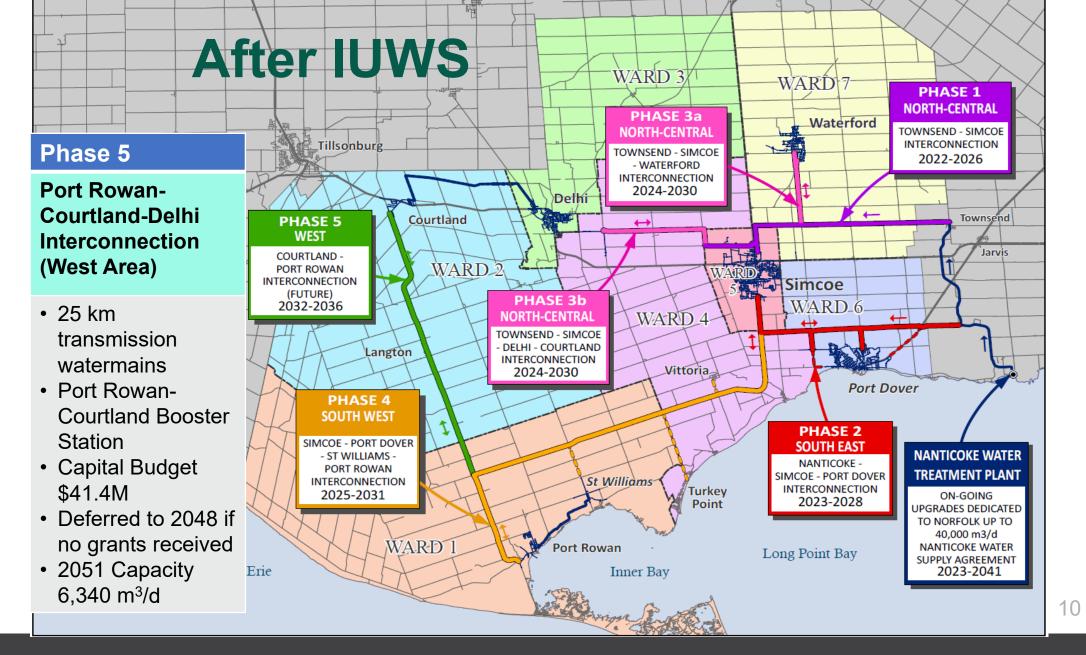
#### Phase 4

Simcoe - Port Dover-St. Williams-Port Rowan & Area Interconnection (South-West)

- 36 km transmission watermains
- Booster Station
- Local connections
- Phase 3
   Nanticoke WTP
   Upgrade
- Capital Budget \$116M
- Decommissioning \$3M
- Deferred to 2043 if no grants received
- 2051 Capacity 3,040 m<sup>3</sup>/d







#### 2041-2051 Targets

- 90,000 population
- 32.6k jobs
- 130 km IUWS transmission watermain
- 10,000 new housing units
- 10,000 new jobs
- 40,000 m<sup>3</sup>/d treatment capacity at the Nanticoke WTP
- \$450M Budget Estimate (2023\$)



### **IUWS Scope Overview**

Dates and timelines are subject to Council approval

\$456M Budget 130 Km Pipelines & Fire Flow Storage 40,000 m<sup>3</sup>/d from Nanticoke WTP

Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Simcoe – Townsend Interconnection & Nanticoke WTP (North-Central)	Simcoe-Port Dover Interconnection (South –East)	Simcoe - Delhi- Courtland and Simcoe - Waterford Interconnections (North Central Expansion to West and East)	Simcoe - Port Dover-St. Williams-Port Rowan & Area Interconnection (South-West)	Port Rowan- Courtland-Delhi Interconnection (West Area)
<ul> <li>23 km transmission watermains</li> <li>Simcoe-Delhi Elevated Tank</li> <li>Nanticoke WTP Upgrade Phase 1</li> </ul>	<ul> <li>25 km transmission watermains</li> <li>Local connections</li> <li>Simcoe-NW Port Dover Elevated Tank</li> </ul>	<ul> <li>21 km transmission watermains to Delhi and Waterford</li> <li>Waterford Elevated Tank</li> <li>Courtland Elevated Tank</li> <li>Nanticoke WTP Upgrade Phase 2</li> </ul>	<ul> <li>36 km transmission watermains</li> <li>Booster Station</li> <li>Local connections</li> </ul>	<ul> <li>25 km transmission watermains</li> <li>Port Rowan- Courtland Booster Station</li> <li>Nanticoke WTP Upgrade Phase 3</li> </ul>
2026	2029	2031	2031	2036 – Norfolk Linear 2041 – Nanticoke Plant

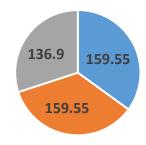


### **IUWS Budget and Funding Needs**

Priority/Project	Estimated Total Value	35% Provincial Grant Ask (\$M)	35% Federal Grant Ask (\$M)	30% County* (\$M)
Norfolk – New Transmission Mains, Elevated Tanks, Booster Stations including connections to Haldimand System	\$271M	94.8	94.8	81.4
Nanticoke Treatment Plant Upgrade (Norfolk-Haldimand Agreement)	\$165M	57.75	57.75	49.5
Decommissioning of Norfolk Assets	\$20M	7	7	6
Total	\$456M	159.55	159.55	136.9

<sup>\*</sup>Projected 35-50% Development Charges for Growth

## **IUWS \$456M Proposed Grant Funding Strategy**



■ 35% Provincial Grant Ask

■ 35% Federal Grant Ask

■ 30% County\*



#### Norfolk – Linear Infrastructure Capital Delivery Plan

Priority/Project	Estimated Total Value	RFP & Award	Tender & Award	Substantial Completion	In Service
Phase 1 - Simcoe-Townsend	\$64.6M	2022	2024	Dec 2026	Q1 2027
Phase 2 - Simcoe-Port Dover Nanticoke	\$45.85M	2023	2025	Dec 2027	Q1 2028
Phase 3 - Simcoe-Delhi and Simcoe-Waterford	\$60.02M	2024	2026	Oct 2030	Q1 2031
Phase 4 - Simcoe-Port Dover- St. Williams-Port Rowan	\$55.56M	2027	2029	Dec 2031	Q1 2032
Phase 5 – Port Rowan- Courtland-Delhi	\$41.3M	2032	2034	2036	Q1 2037
Program Support Engineering	\$3.63M	2026	1	ı	-
Total Program including Contingency	\$271M	2023\$ not indexed for inflation			



# Norfolk Vertical Infrastructure Capital Delivery Plan Cost Sharing with Haldimand County

Priority/Project	Estimated Total Value	RFP & Award	Tender & Award	Substantial Completion	In Service
Phase 1 - Nanticoke WTP by Haldimand (add 10MLD* MDD)	\$45M	2023	2024	2026	2026-2027
Phase 2 – Nanticoke WTP by Haldimand (add 15MLD MDD)	\$60M	Pending	Pending	Pending	Pending
Phase 3 – Nanticoke WTP by Haldimand (add 15MLD MDD)	\$60M	Pending	Pending	Pending	Pending
Total Program including Contingency	\$165M	2023\$ not indexed for inflation			

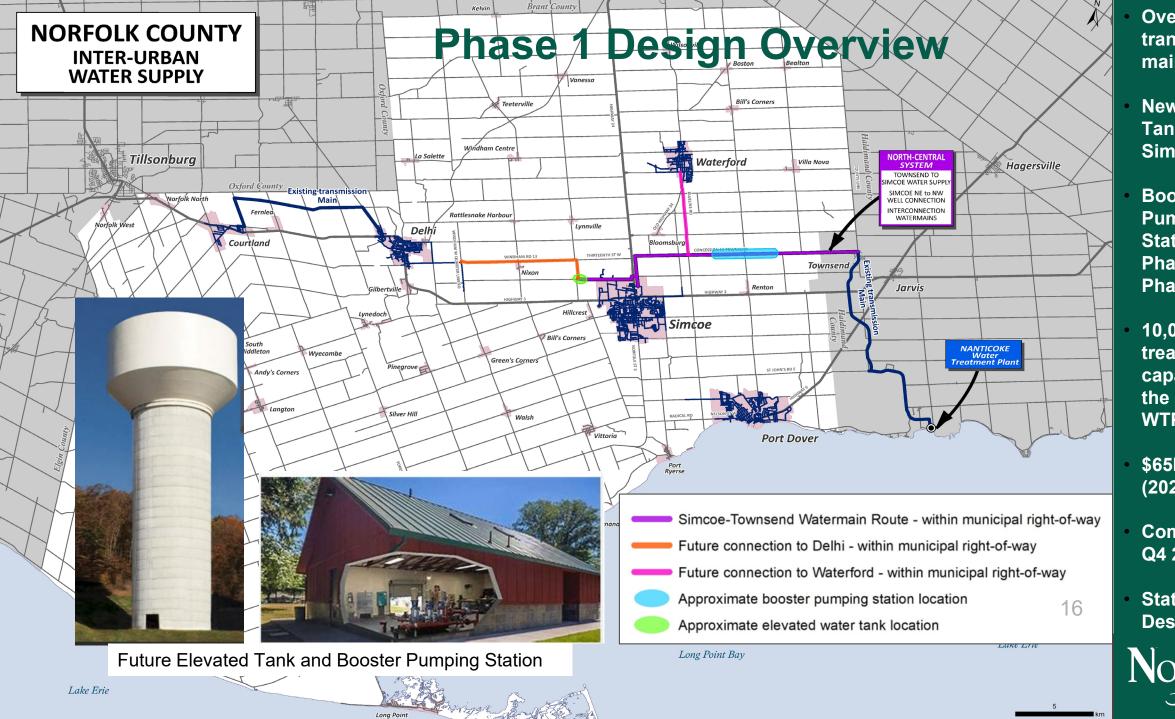
<sup>1</sup> million litres per day (MLD) = 1,000 cubic metres/day



### Norfolk- Decommissioning Delivery Plan

Priority/Project	Estimated Total Value	RFP & Award	Tender & Award	Substantial Completion	Total Performance
Engineering	\$2M	2026	2028	2044	2026-2044
Construction (re-purpose and disposal)	\$18M	2032	Pending	Pending	Pending
Total including contingency and exclusive taxes	\$20M	2023\$ not indexed for inflation			





Over 20 km of transmission mains

New Elevated Tank in Simcoe

Booster
Pumping
Station for
Phase 1 and
Phase 3

10,000 m<sup>3</sup>/d treatment capacity at the Nanticoke WTP

\$65M Budget (2023\$)

Completion Q4 2026

Status: 60% Design



#### Phase 1 – Townsend-Simcoe Delivery Plan

Priority/Project	Estimated Total Value	RFP & Award	Tender & Award	Substantial Completion	Total Performance
Engineering Linear*	\$6.4M	2023	2024	2026	2026-2027
Construction**	\$58.2M	-	Pending	Pending	Pending
Total Program including Contingency	\$64.6M	2023\$ not indexed for inflation			

<sup>\*</sup>Committed \$3.075M – budget to be amended



<sup>\*\*</sup>Council-Approved \$43.94M – budget to be amended

### Norfolk-Haldimand Water Agreement

- Stage 1 by 2026: up to 10,000 m<sup>3</sup>/d 100% Simcoe
- Stage 2 by 2031: up to 25,000 m<sup>3</sup>/d 100% Simcoe, Port Dover Delhi-Courtland, Waterford, Port Rowan-St. Williams plus growth in urban areas
- Stage 3 by 2041: up to 40,000 m³/d 100% Delhi-Courtland, Waterford, Port Rowan-St. Williams plus growth in urban areas and some of the expanded rural hamlets









### Work In Progress by Norfolk County

Continuous wells monitoring and reporting to MECP in Simcoe (one failing well)

Water Treatment Plant (WTP) Upgrades in Port Dover and Port Rowan

Phase 1- Simcoe-Townsend Interconnection – 60% Detailed Design

Phase 2 - Simcoe-Port Dover-Nanticoke Interconnection — ON HOLD

Rehabilitation of watermains and leak detection pilot



### **Next Steps by Norfolk & Haldimand Counties**

Phase 1 - Simcoe-Townsend Interconnection Tender

Financial Analysis and Rate Impact Review

**Execute Norfolk-Haldimand Agreement** 

Finalize Funding Strategy and Council Approval

Consultant Selection for Nanticoke WTP Upgrade by Haldimand

