



Whitby Water Supply Plant Expansion



Municipal Class EA Addendum

Public Information Centre #1



AECOM

February 25, 2016

Port Whitby Marina, Avalon Lounge

- **Please sign in and take a comment sheet.**
- **If you have any questions, our team is available to help you.**
- **Place completed comments sheets in the Comment Box, or send them to Alfred Ho, P. Eng. by March 11, 2016.**



Looking west at Whitby WSP from Haydenshore Kiwanis Park

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Your concerns are important to us and we value your input in the decision making process. Please fill out a comment sheet or discuss your concerns with one of our study representatives.

Update the public on the Class EA study status and provide an opportunity to comment on study scope; and existing/future conditions

This PIC will present information on:

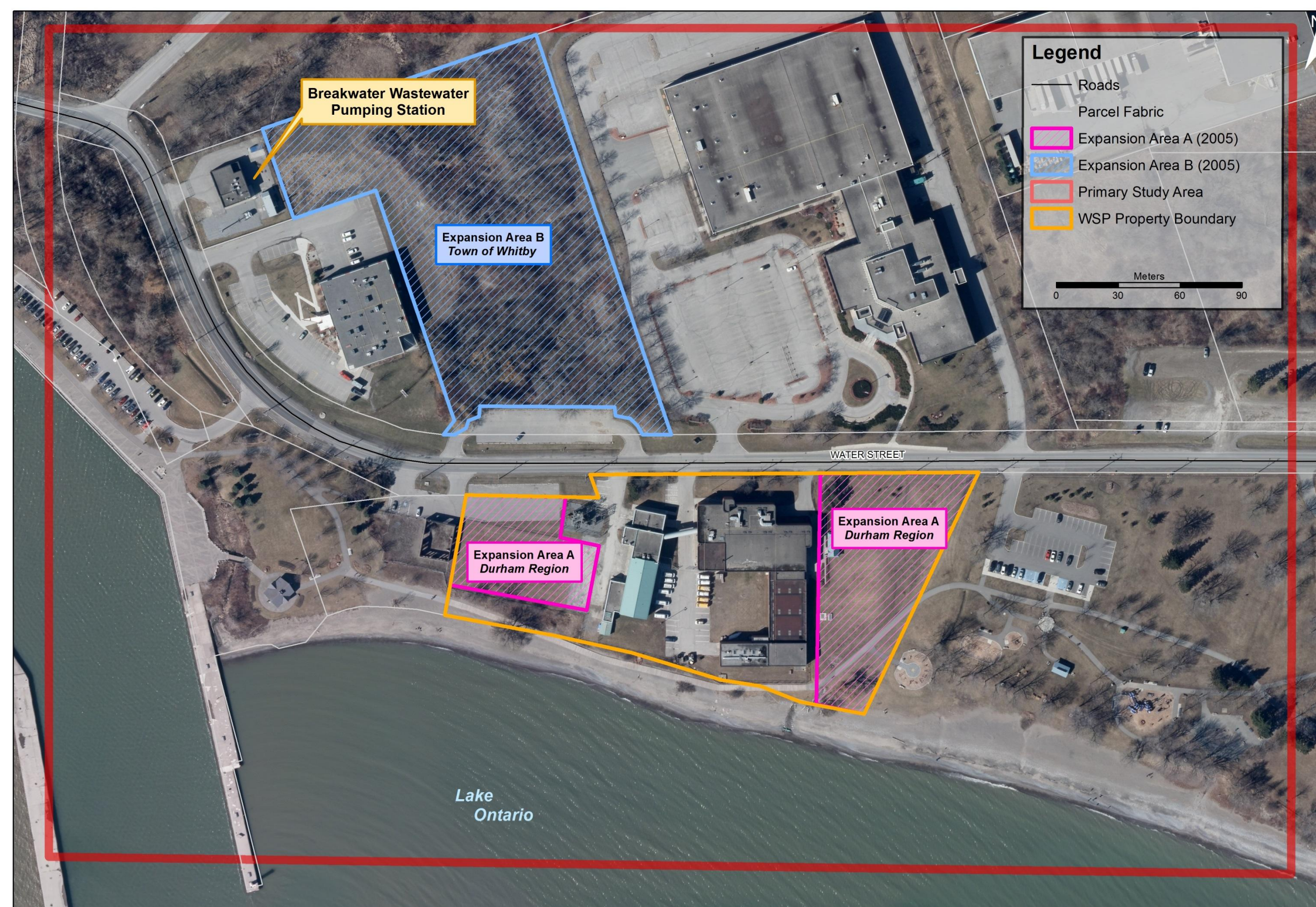
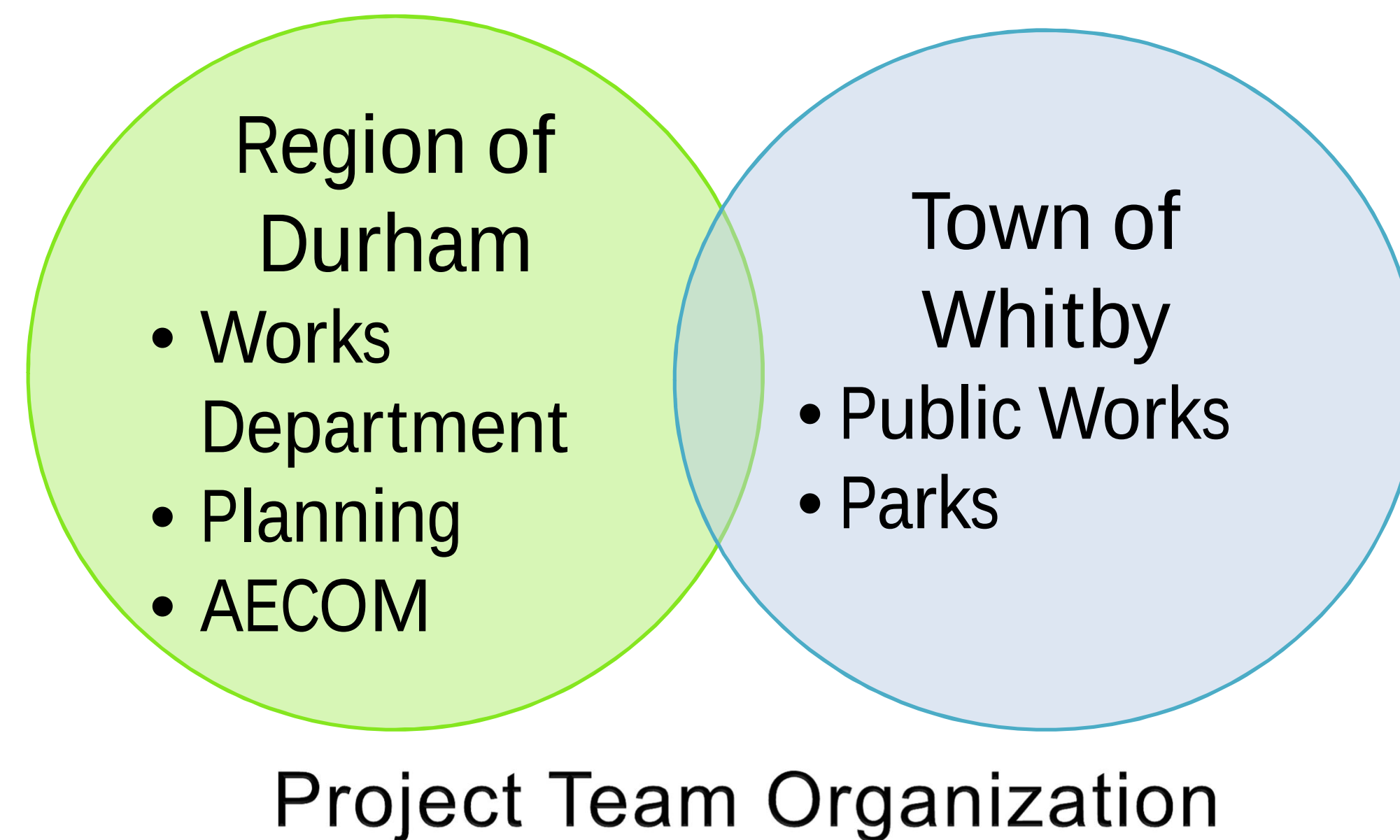
- **What has happened since the completion of the 2005 Class EA;**
- **Existing and future conditions;**
- **Need for Water Supply Plant (WSP) Expansion;**
- **Project scope including WSP expansion components; and**
- **Project schedule/next steps.**



Looking east along Waterfront Trail Boardwalk

Why This Study? Why Now?

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Water Supply Plant History

- The original WSP was constructed in the early 20th century. The stone shell of the original pump house is located just west of the current Whitby WSP.
- The current Whitby WSP was commissioned in the mid 1970's to replace the original WSP. It provides treated water to the interconnected water distribution system that services Pickering, Ajax, Whitby, Oshawa and Courtice. Both the Ajax WSP and the Oshawa WSP also provide treated water to the interconnected water distribution system.



Old Stone Pump House

2005 Class EA

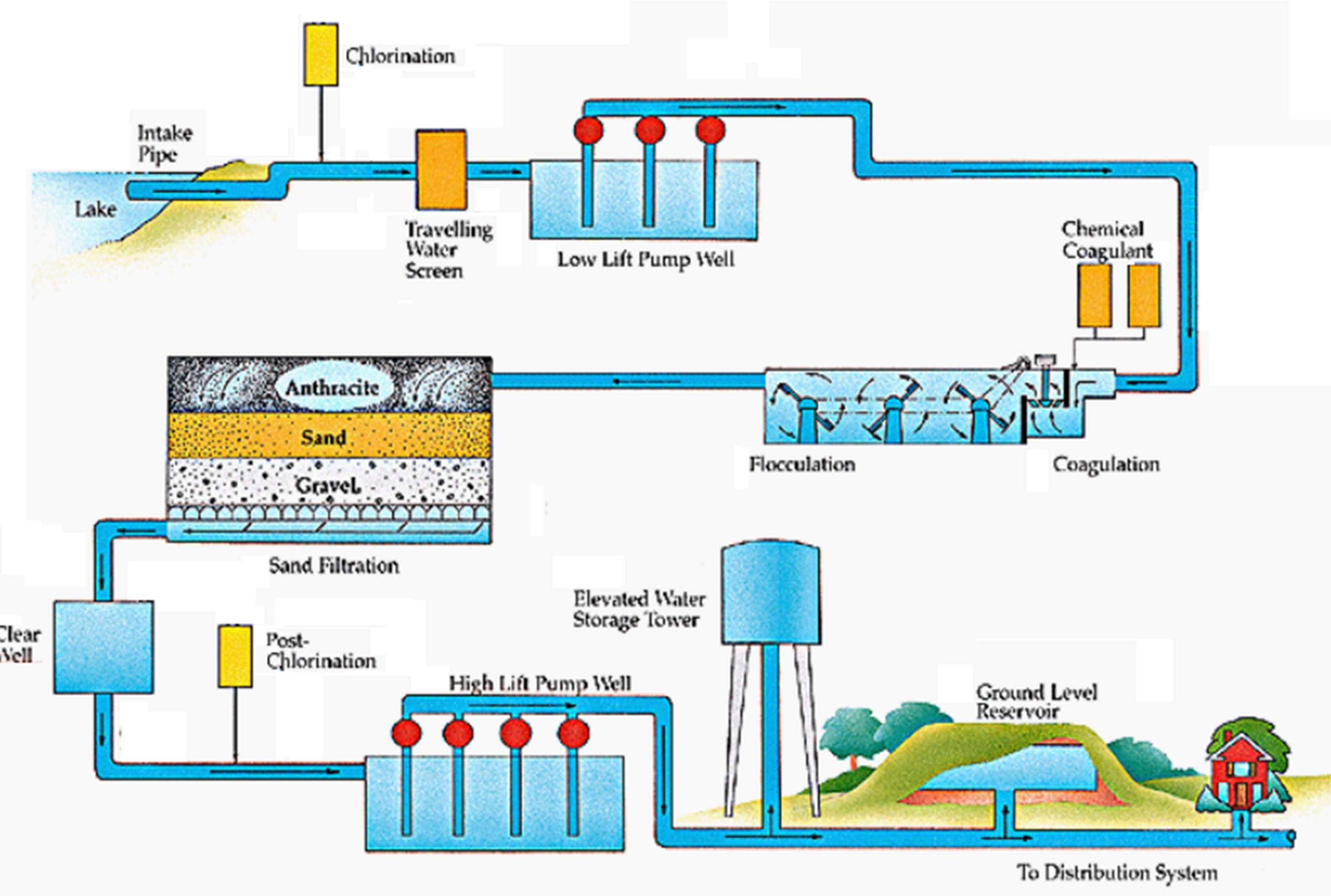
- The 2005 Whitby WSP Environmental Study Report (ESR) evaluated expansion on site (Expansion Area A) and off site (Expansion Area B-north side of Water Street).
- Lower water demands and constructability issues on Expansion Area B, warrant looking at optimizing all of the Region's water supply plant assets, rather than building a Whitby WSP on the north side of Water Street. The Region is looking at expanding the existing WSP by using available vacant lands owned by the Region.

Project Objectives

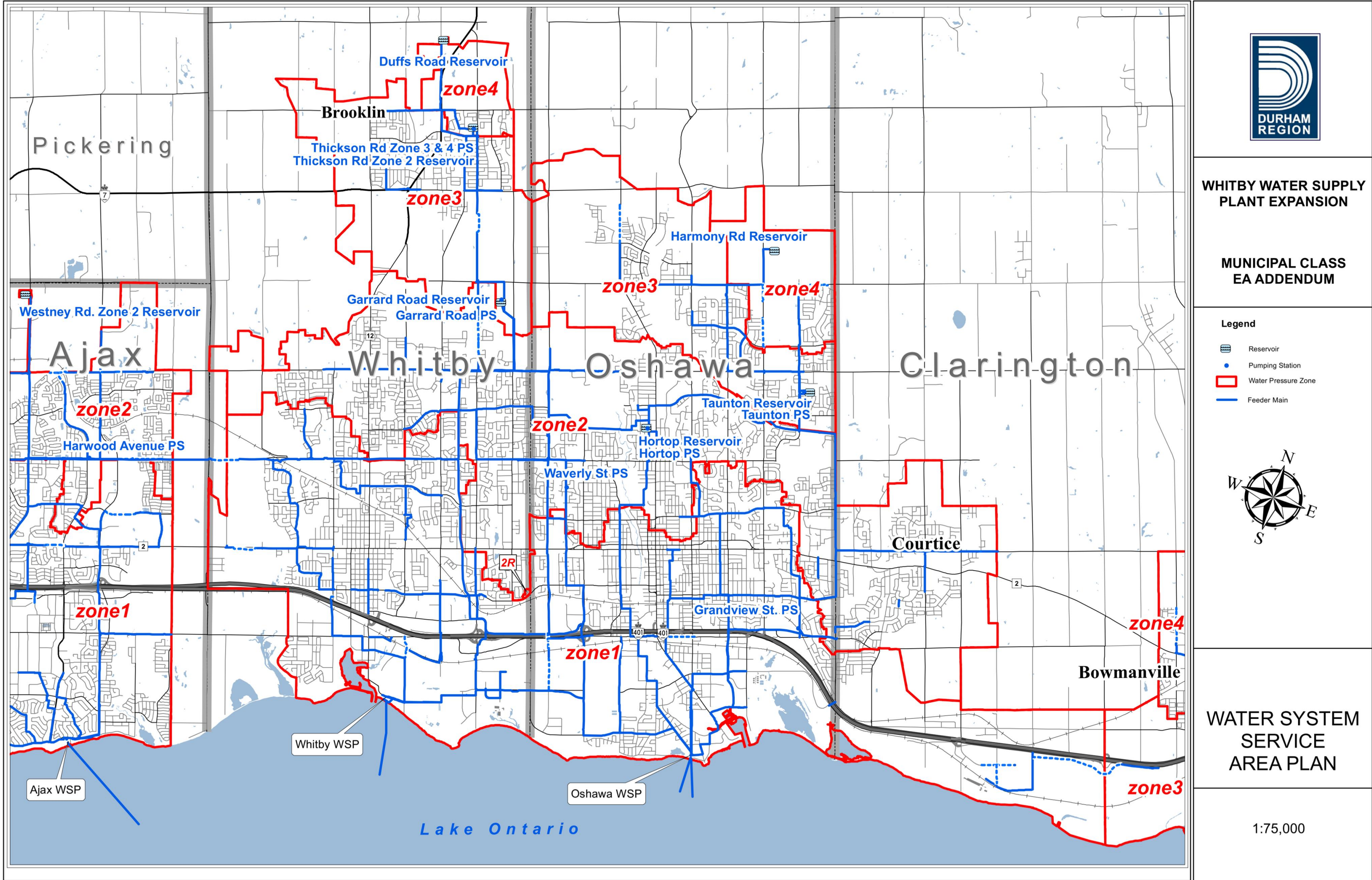
- Meet Durham Region water supply goals, (provide sustainable and cost-effective delivery of water to meet existing and future requirements) and design the project having regard to Town of Whitby Waterfront land use planning objectives.

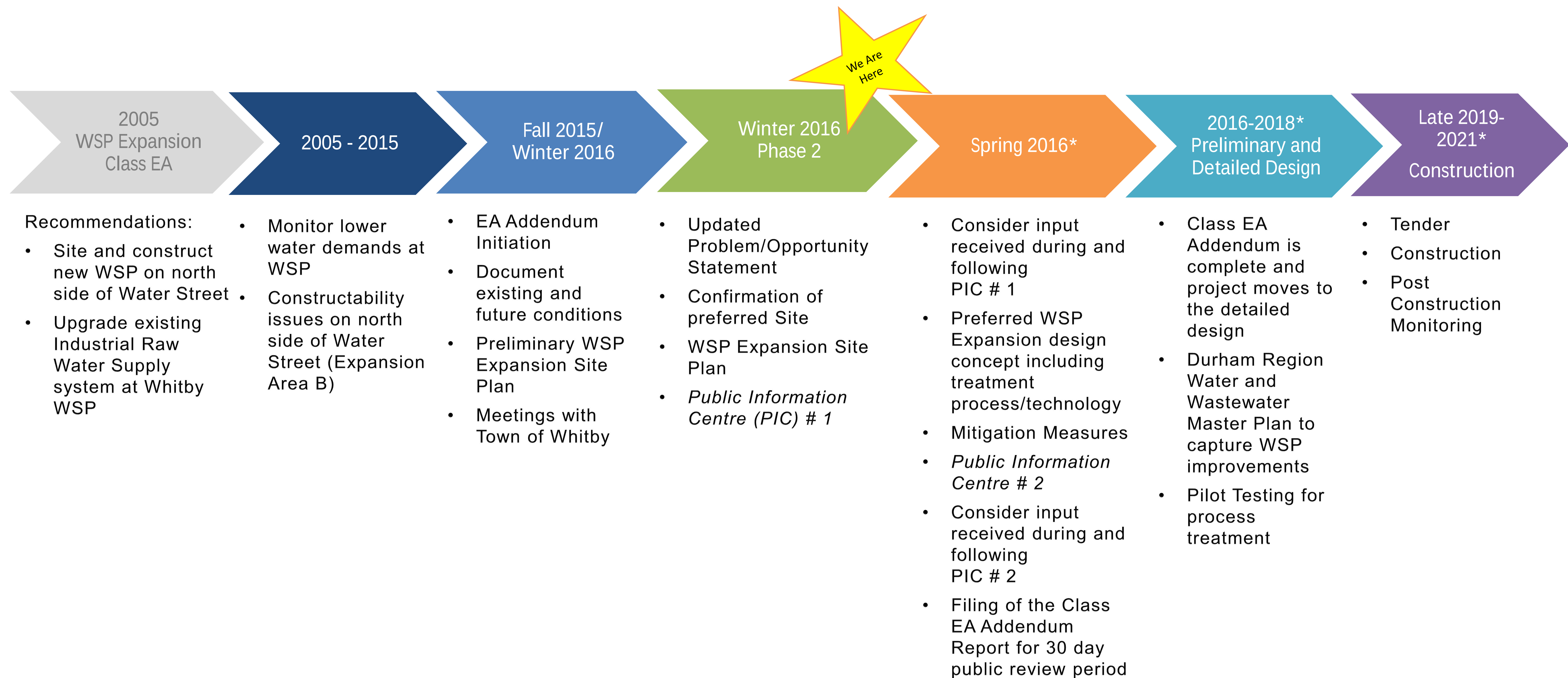
How the WSP Works and WSP Service Area

Process Flow Diagram



Water System Service Area Plan





* Dates noted above are subject to change.

Approved and planned growth within the Whitby WSP service area requires additional municipal water supply capacity and associated infrastructure to meet projected population and flow demands. Treatment upgrades are also required to meet future regulations while addressing Lake Ontario raw water quality concerns.

The proposed expansion and upgrades will improve how the Whitby WSP operates. The existing Industrial Raw Water Supply system at the Whitby WSP site will also be reviewed.

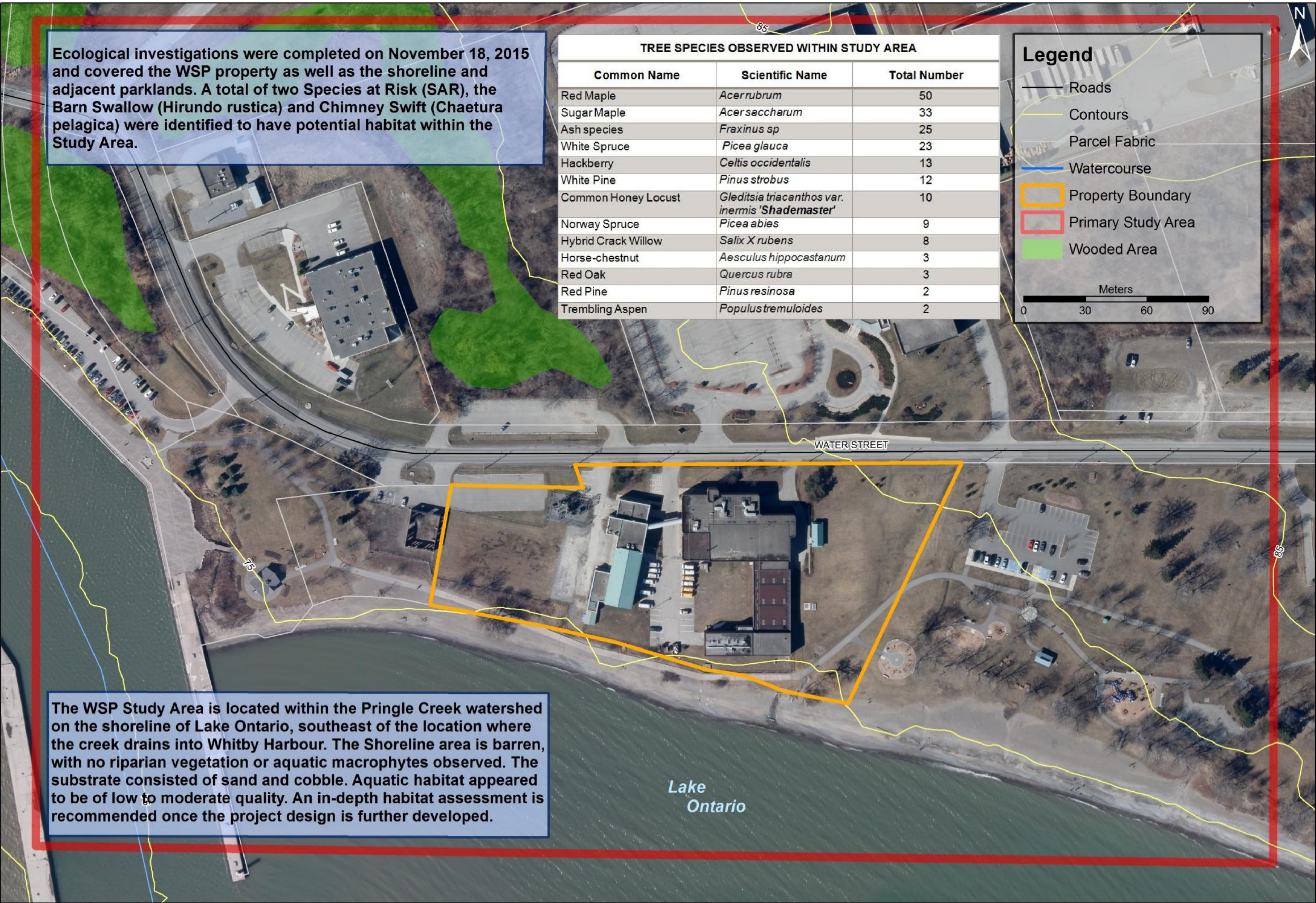




Legend

- Roads
- Primary Study Area
- Property Boundary
- 1 Possible relocation of transformer substation
- 2 Demolish existing facilities building to accommodate new West Side Treatment Plant (remove old reservoir)
- 3 New Administration Building
- 4 Expansion east side - additional treatment capacity or upgrades
- 5 Expansion west side - new West Side Treatment Plant
- 6 Linear works on Water Street - process water forcemain or gravity sewer to Breakwater SSPS and new watermain
- 7 Possible Relocation of Waterfront Trail and new access to playground to provide buffer and landscaping for new administration building
- 8 Temporary closure of Waterfront Trail (approximately 2 years) to allow for construction followed by reinstatement to better condition

The proposed 109 Million Litres per Day (MLD) capacity expansion will be able to meet the projected 20 year water demands for the service area



The EA Addendum has confirmed that expanding the Whitby WSP within existing property limits is preferred for the following reasons:

- Expansion of Oshawa WSP may require additional intake capacity and land area for new treatment facilities.
- Expansion of Ajax WSP not recommended due to allocation of WSP capacity to planned growth in Ajax and Pickering and size of transmission infrastructure between Ajax and Whitby.
- Expansion of the Whitby WSP on the north side of Water Street can be avoided given available lands at the existing Whitby WSP site to service new population projections and flow demands.



Land Use



Archaeological

- The existing WSP property including expansion areas have been cleared of archaeological concerns.

Social/Cultural

- Port Whitby including its harbour was established in the early 1800s and has served as an important centre for commerce.
- The Old Stone Pump House was Whitby's first water pumping station, built in 1904.
- Today the waterfront around the WSP includes many social/cultural heritage resources that are important to the community. These include the Waterfront Trail, Haydenshore Kiwanis Park, Rotary sunrise Lake Park, Lions Promenade, Port Whitby Marina and Whitby Yacht Club.
- The Town of Whitby Waterfront Parks and Master Plan recognizes these assets and has a comprehensive strategy over the next 20 years to enhance the waterfront's unique natural, heritage, cultural, and recreational features.



