



CONNAUGHT PARK AREA SEWAGE UPGRADES

August 20, 2015

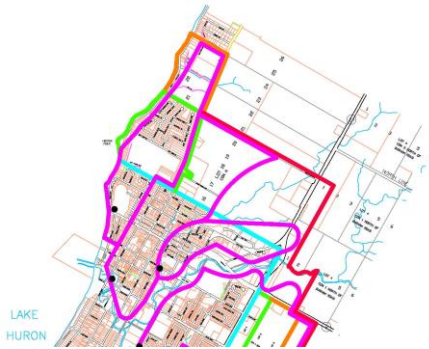


Agenda

- Background
- Municipal Class Environmental Assessment Process
- The Problem
- Servicing Investigation
- Alternative Solutions
- Sewage Pumping Station Examples
- Next Steps

Connaught Park Sewage Pumping Station

- Connaught Park Sewage Pumping Station (SPS) currently serves the northwest portion of Kincardine



Background

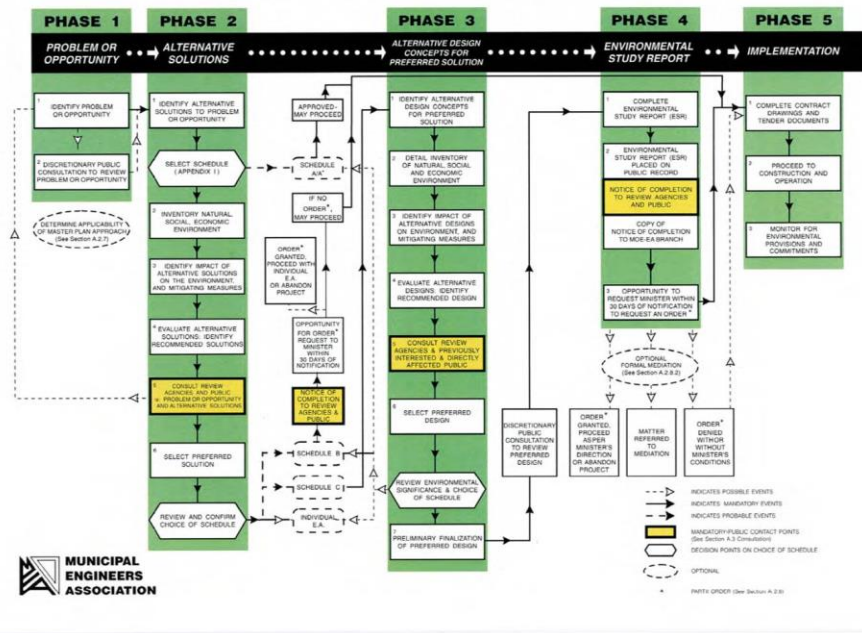
- During periods of heavy rain and thaw conditions, there have been incidents of sewer surcharging in the Huron Ridge area
- To address this, the Municipality has instituted a program (road reconstruction, storm sewer improvements, etc.) to reduce infiltration and inflow into the Connaught Park SPS
 - The result of these works has been some reduction in maximum total daily flows to the sewage pumping station; however, peak instantaneous flows are still expected to be high relative to station capacity
- Next step in the program is examining upgrades to the Connaught SPS and upstream and downstream conveyance system
- The Connaught SPS is aging (constructed 1971) – full or partial replacement is becoming due
- Upgrades will also allow for the expansion of the SPS service area – provide service for future development

Municipal Class Environmental Assessment


- Planning and Design Process for Municipal Water, Wastewater and Road Projects
- Conducted to Evaluate the Potential Impacts of Municipal Projects and Impact Mitigation
- Involves Consultation with the Public, Regulatory Agencies, Adjacent Property Owners, First Nations and Métis communities
- Requires Consideration of Natural, Social, Cultural, Economic and Technical Factors

EXHIBIT A.2 MUNICIPAL CLASS EA PLANNING AND DESIGN PROCESS

NOTE: This flow chart is to be read in conjunction with Part A of the Municipal Class EA



General Approach

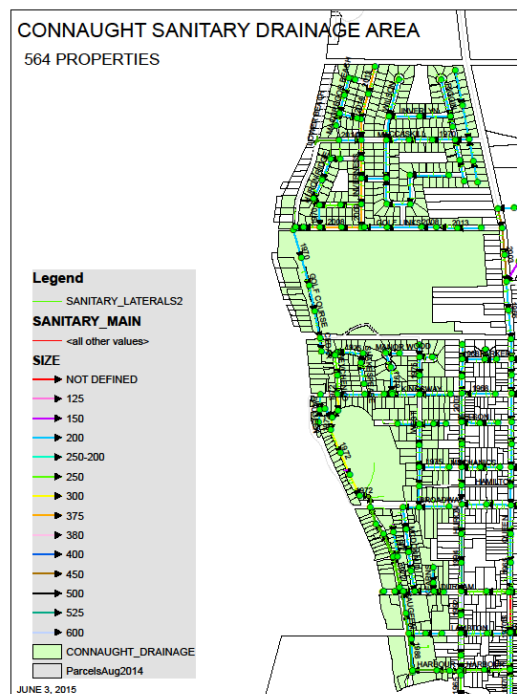
- Reviewed background information re:
 - Project status to date
 - Need for the works
 - Study area and environmental setting
- Issued Initial Notice for Class EA
- Contacted key stakeholders, agencies and First Nations
- Identify problem ←  We are here
- Review alternatives
- Select a preferred alternative
- Further contact with key stakeholders and agencies
- Documented process and findings

The Problem

- Investigations of flows at the Connaught Park Sewage Pumping Station have found that incoming flows are, at times, greater than what can be accommodated by the pumps. Additional pumping capacity is also required for future development in the northwest area of Kincardine. Given the age of the station, partial or full replacement is being considered.

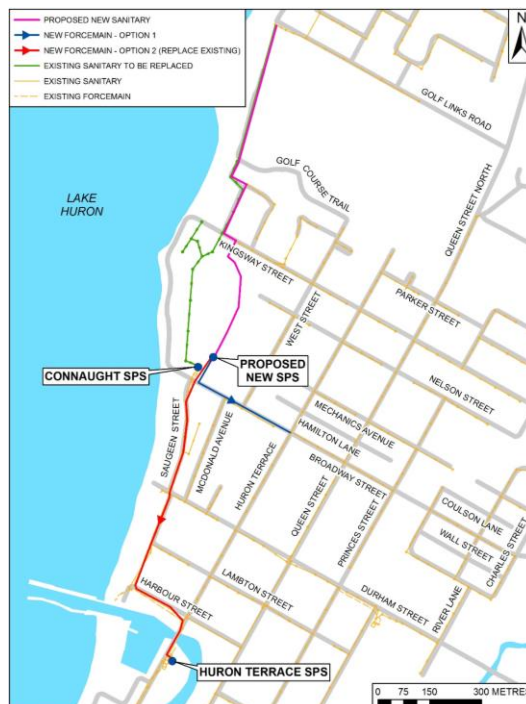
Servicing Investigation

- Upstream gravity sewer (Golf Links Road to SPS)
 - replace to accommodate development within SPS service area
- SPS – upgrade/increase capacity due to age, servicing of current peak flows, and need to service future development
- Downstream – new forcemain with larger capacity
- Consider impacts to Huron Terrace SPS



Alternative Solutions

- Upstream gravity sewer
 - Golf Links Road to Kingsway – generally same route
 - Kingsway to SPS – consider both sides of track
- SPS
 - Upgrades within existing facility (partial replacement)
 - Complete replacement in same location
 - Complete replacement, move location
- Downstream forcemain
 - To Huron Terrace SPS – generally same route
 - To gravity trunk sewer on Huron Terrace





Sewage Pumping Stations





Next Steps

- Compile/review input from Public Information Centre
- Archaeological review of proposed SPS site
- Finalize Class EA Screening Report
- Provide copies of Screening Report for public and agency review
- Finalize engineering design
- Approvals
- Construction



Thank you for your time!

Questions?