

Volume 3

Niagara  Region

South Niagara Falls Wastewater Solutions

Supporting Documents

SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS REPORT OUTLINE

The Environmental Study Report (ESR) for the South Niagara Falls Wastewater Solutions (SNFWWS) Class Environmental Assessment (EA) is a comprehensive document that describes the planning, evaluation, and decision-making process for the recommended SNFWWS program components including the new wastewater treatment plant (WWTP) site, plant outfall location, and associated sewer servicing strategy. The SNFWWS documentation is compliant with the requirements of the Environmental Assessment Act (EAA) and is being placed on public record for a 45-day review period.

The ESR is organized into four volumes:

Volume 1 – Executive Summary

Provides a brief overview of the SNFWWS program. It summarizes the information contained in Volumes 2, 3, and 4 including the problem and opportunity statement, purpose of the study, planning, policy and technical considerations, and description of the recommended SNFWWS program components.

Volume 2 – Comprehensive Overview

Provides the full planning and decision-making process for the SNFWWS program components. Presents the results through each Phase of the Class EA process including the site selection process for the new WWTP facility, the plant outfall receiving waterbody, the deep trunk sewer, Thorold South servicing strategies, costing review, and next steps for implementation.

Volume 3 – Supporting Documents

Includes a complete list of documents, including all supporting technical memoranda and discipline investigation reports that supported the evaluation of siting, outfall locations, sewer alignments, and design concepts including technical considerations, treatment technologies, and considerations for natural environment, cultural heritage, archaeological significance, agricultural considerations, risk management, and more.

Volume 4 – Public and Agency Consultation

Contains all relevant documentation of the public consultation process including notices, comments and responses, and distributed information. Presentation material from all Public Information Centres (PICs) held during the process is included. Additional presentation materials and discussion information from workshops held with indigenous communities, approval agencies, and other stakeholders are also included.

This report is the complete **Volume 3 – Supporting Documents** which is one of the four volumes that make up the complete South Niagara Falls Wastewater Solutions Environmental Study Report and should be read in conjunction with the other volumes.

LIST OF APPENDICES

Appendix V3.1 Natural Environment

- V3.1.1 Natural Environment Baseline Report
- V3.1.2 Natural Environment Assessment Report

Appendix V3.2 Archaeological Assessments

- V3.2.1 Stage 1 AA – Long List of WWTP Sites
- V3.2.2 Stage 1 AA (Marine) – Preferred Outfall Location
- V3.2.3 Stage 1 & 2 AA – Preferred WWTP Site
- V3.2.4 Stage 1 AA – Preferred Trunk Sewer
- V3.2.5 Stage 1 AA – Preferred Thorold South Servicing Strategy
- V3.2.6 Stage 2 AA – Preferred Black Horse SPS Site (Thorold South)

Appendix V3.3 Cultural Heritage Assessments

- V3.3.1 Cultural Heritage Screening Report – Study Area
- V3.3.2 Cultural Heritage Assessment Report – Preferred WWTP Site
- V3.3.3 Cultural Heritage Evaluation Report – Preferred WWTP Site
- V3.3.4 Cultural Heritage Assessment Report – Preferred Trunk Sewer
- V3.3.5 Cultural Heritage Assessment Report – Preferred Thorold South Servicing Strategy

Appendix V3.4 Contamination Review

- V3.4.1 ERIS Contamination Screening – Short Listed WWTP Sites
- V3.4.2 ERIS Contamination Screening – Preferred WWTP Site
- V3.4.3 Phase I Environmental Site Assessment – Preferred WWTP Site
- V3.4.4 Phase II Environmental Site Assessment – Preferred WWTP Site
- V3.4.5 Phase I Environmental Site Assessment – Preferred Trunk Sewer
- V3.4.6 Phase II Environmental Site Assessment – Preferred Trunk Sewer

Appendix V3.5 Assimilative Capacity Studies

- V3.5.1 ACS Modelling Approach
- V3.5.2 ACS Screening
- V3.5.3 ACS Detailed Assessment

Appendix V3.6 Air, Odour, and Noise Assessments

- V3.6.1 Air and Odour Impact Assessment – Preferred WWTP Site
- V3.6.2 Odour Control Technology – Preferred WWTP Site
- V3.6.3 Noise Impact Assessment – Preferred WWTP Site

Appendix V3.7 Planning

- V3.7.1 Growth and Flow Projections
- V3.7.2 Wet Weather Flow Management
- V3.7.3 Grassy Brook Service Area Review

Appendix V3.8 Agricultural Screening

- V3.8.1 Agricultural Screening Report – Short Listed WWTP Sites

Appendix V3.9 Geotechnical Investigations

- V3.9.1 Geotechnical Baseline – Study Area
- V3.9.2 Preliminary Geotechnical Investigations – Preferred WWTP Site & Trunk Sewer

Appendix V3.10 Hydrogeological Investigations

- V3.10.1 Hydrogeological Baseline – Study Area
- V3.10.2 Preliminary Hydrogeological Investigations – Preferred WWTP Site & Trunk Sewer

Appendix V3.11 WWTP Design Basis

- V3.11.1 Design Basis – New WWTP
- V3.11.2 Technology Review – New WWTP