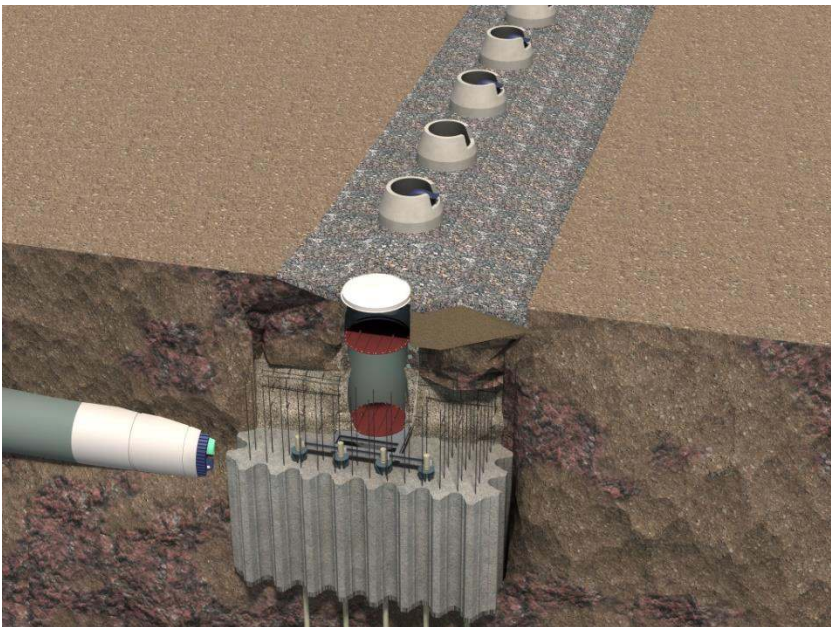


# APPENDIX E TRAFFIC STUDIES

## E.2: Traffic Management Guideline

### Annacis Island WWTP New Outfall System

Vancouver Fraser Port Authority  
Project and Environmental Review Application



 **metrovancover**  
SERVICES AND SOLUTIONS FOR  
A LIVABLE REGION

**CDM  
Smith**

 **bunt  
& associates**

This page intentionally left blank

# Traffic Management Guideline

Annacis Island WWTP  
New Outfall System

CDM Smith Canada ULC

Prepared for:



SERVICES AND SOLUTIONS FOR  
A LIVABLE REGION

October 24, 2017



This page intentionally left blank.

# Table of Contents

---

<b>Section 1 Introduction .....</b>	<b>1-1</b>
1.1 Project Description .....	1-1
1.2 Project Location.....	1-1
1.3 Project Milestones.....	1-1
<b>Section 2 Site Specific Details.....</b>	<b>2-1</b>
2.1 Heavy Construction Equipment .....	2-1
2.2 Construction Vehicle Routes.....	2-1
2.3 Site Access.....	2-1
2.4 Truck Staging.....	2-2
2.5 Disruption to Existing Parking Areas.....	2-2

## List of Figures

Figure 1-1 Project Location.....	1-2
Figure 2-1 Construction Vehicle Routes .....	2-2



# Section 1

## Introduction

This Traffic Management Guideline (TMG) was prepared for the Annacis Island Sewage Treatment Outfall construction project to be located at the Annacis Island Wastewater Treatment Plant (AIWWTP) along the Fraser River in the Corporation of Delta, British Columbia (BC).

The intent of this TMG is to outline traffic management requirements related to the Annacis Island Sewage Treatment Outfall construction project. The requirements noted in this TMG are to be considered when the Contractor prepares a detailed Traffic Management Plan (TMP) to document the processes which are to be utilized to deliver the level of traffic management required by the Contract. The TMP will be submitted to the Corporation of Delta for approval by the contractor.

### 1.1 Project Description

The proposed project includes equipping the existing AIWWTP with a new outfall system to support the anticipated additional discharge associated with the plant Stage V upgrades and future plant flows.

### 1.2 Project Location

The proposed project area is located just downstream of the Alex Fraser Bridge in the Corporation of Delta, on Annacis Island. It is located in the southwest quadrant of the Highway 91 interchange with Cliveden Avenue. The project location is shown in **Figure 1-1** below.

### 1.3 Project Milestones

Construction of the project is anticipated to take place over a three-year period. During this period, many activities will be occurring at and around the project site, including preparations for launching a tunnel boring machine, excavation shaft construction, tunneling work, and tie-in to the AIWWTP, among other activities. Major completion dates, as provided in the contract, are as follows:

- Project Notice to Proceed by January 2019
- Tunnel Boring Machine (TBM) Launch Shaft by January 2020
- TBM Procurement by January 2020
- Complete Plant Receiving Shaft by March 2020
- Complete River Riser by Feb 2020
- TBM Tunneling Activities Complete by Oct 2020
- River Diffusers Connection by September 2021
- Project Completion by June 2022



Source: Google Maps

Figure 1-1 Project Location



## Section 2

### Site Specific Details

This section provides site specific details the contractor shall consider in their Traffic Management Plan.

#### 2.1 Heavy Construction Equipment

During the construction of the proposed project, the following heavy equipment are anticipated to access the project site:

- Tunnel boring machine
- Batch plant
- Slurry separation plant
- Power sub-station

This equipment is expected to be delivered in pieces. The heaviest parts of the tunnel boring machine could be around 5-10 tons, batch and a slurry separation plants around 5-10 tons, and power sub-station around 2-10 tons. Some pieces of the equipment will require special transportation due to their weight and size. As part of the TMP, the contractor will develop a large/heavy equipment hauling plan that will discuss their proposed routing as well. The contractor will submit the hauling plan to the Corporation of Delta for their approval.

#### 2.2 Construction Vehicle Routes

The anticipated construction travel routes for construction workers and equipment/trucks going to/from the project site are shown in **Figure 2-1**.

Construction traffic is anticipated to mostly arrive and depart Annacis Island via the Alex Fraser Bridge and the interchange at Cliveden Avenue. Vehicles coming from Highway 91 would use either of the following routes to access the project site:

- Westbound Cliveden Avenue, southbound Eaton Way, and eastbound Derwent Way, or
- Eastbound Cliveden Avenue, southbound Chester Road, and westbound Derwent Way

#### 2.3 Site Access

Construction-related vehicles would access the project site using the driveway located along Eaton Place, which intersects Derwent Way to the south. This driveway location is shown in **Figure 2-1**. Local traffic requirements in the project area will be provided by the Contractor in the TMP and share with the Corporation of Delta for their approval.

## 2.4 Truck Staging

Truck staging for loading/unloading activities would occur inside the project site, and would not occur along any of the nearby roadways. Truck staging areas have not been identified yet; the contractor is expected to identify these prior to the commencement of project construction. The contractor will show the staging area in the TMP and share with the Corporation of Delta for their approval.



Source: Google Maps

**Figure 2-1 Construction Vehicle Routes**

## 2.5 Disruption to Existing Parking Areas

Parking for construction personnel vehicles will be provided outside of the project site on the Annacis Island. The parking facility near the project site that will be used for parking of construction personnel vehicles has not been determined yet; the contractor is expected to determine the location of the parking facility prior to construction of the project. It is expected that the contractor will be able to establish a parking lease agreement to use an available parking facility for construction worker use with sufficient parking capacity to supply the expected parking

demand. Should the facility be further than walking distance from the project site, the contractor will provide a shuttle or alternative method of construction personnel access to the site.

