

Appendix C

Waste Management Plan

**Geotechnical Drilling Program
Waste Management Plan**

Prepared for:
Mackenzie Valley Land and
Water Board

March 15, 2019

**GEOTECHNICAL DRILLING PROGRAM
WASTE MANAGEMENT PLAN**

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Introduction
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1.0 Introduction

This Waste Management Plan (WMP) has been developed for use by Stantec Architecture Limited (Stantec) and the drilling contractor, Northtech Drilling, during the proposed geotechnical drilling project in Fort Providence, NWT. Project activities to be undertaken at the sites in Fort Providence include clearing of access trails, mobilization of the drill, drilling of boreholes in soil and collection of soil samples from the boreholes; backfilling of boreholes and demobilization.

The purpose of the WMP is to provide a guide to all site personnel on the waste management objectives and procedures to be followed during the Project. The WMP has been developed in accordance with the *Guidelines for Developing a Waste Management Plan* prepared by the Mackenzie Valley Land and Water Board (2011).

1.1 EFFECTIVE DATE

The WMP will be in effect between March 2 and March 16, 2020.

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2.0 Project Details

The geotechnical drilling project will be undertaken at two sites within the Hamlet of Fort Providence as described in the land use application. Land use activities at the sites will involve the following activities:

- Clearing of vegetation to allow access
- Mobilization of the drill rig to the sites
- Drilling of boreholes and collection of soil samples
- Backfilling of boreholes with drill cuttings
- Demobilization of the drill rig

Activities are proposed to occur between March 2 and March 16 , 2020. Drilling activities will be conducted during daylight hours, between 8:00 and 6 pm daily. Project personnel will stay in commercial accommodation in Fort Providence.

2.1 POTENTIAL WASTES

Wastes generated during the Project are expected to include:

- Cleared vegetation
- Domestic Wastes

Drilling fluids will not be used in the drilling operation. No hazardous wastes are expected to be generated during the Project. Estimated waste volumes are presented in Table 2-1.

Table 2-1 Estimated Waste Volumes

Waste Type	Anticipated Volume	Disposal Method
Cleared vegetation	8m ³	Windrow on site
Domestic Waste	<1m ³	Municipal Landfill

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3.0 Management of Wastes

The following procedures will be undertaken to minimize the amount of wastes generated and provide for proper disposal.

3.1 CLEARED VEGETATION

Clearing will be required to access the investigation sites and to access drilling locations within each investigation site. The following waste management practices will be undertaken:

- Utilize existing roads, cut lines and trails to reduce the amount of clearing required
- Cleared vegetation will be windrowed along the side of each access route cleared.

3.2 DOMESTIC WASTES

Domestic wastes will be generated from:

- Packaging of equipment and sample supplies
- Food and beverage containers consumed by program workers

The following waste management practices will be undertaken:

- Minimizing the packaging and wastes which are brought to the project site
- Separating recyclable material and transferring to recycling depot in Fort Providence or Yellowknife
- Keeping on-site wastes in secure containers or inside vehicles to avoid attracting wildlife
- Daily inspection of the worksite and collection of any wastes
- Daily disposal of wastes in municipal facilities

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4.0 References

Mackenzie Valley Land and Water Board (MVLWB). 2011. Guidelines for Developing a Waste Management Plan. MVLWB, Yellowknife, NT. Retrieved August 2018 from: <http://mvlwb.com/resources/policy-and-guidelines>.