



K'asho Got'ine (Charter Community of  
Fort Good Hope) 2018 Water License  
Annual Report

S15L3-002

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**K'ASHO GOT'INE (CHARTER COMMUNITY OF FORT GOOD HOPE) 2018 WATER LICENSE ANNUAL REPORT**

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# K'ASHO GOT'INE (CHARTER COMMUNITY OF FORT GOOD HOPE) 2018 WATER LICENSE ANNUAL REPORT

Introduction

## 1.0 INTRODUCTION

The Charter Community of K'asho Go'tine, NT operates under Municipal type B water licence S15L3-002 issued by the Sahtu Land and Water Board (SLWB). The licence expires December 15, 2020.

Water License S15L3-002 Part B, Item 4 requires that K'asho Got'ine prepare an Annual Water License Report for the 2018 reporting year for submittal to the SLWB. The following report has been prepared as per the SLWB Annual Report Template provided by the SLWB in March 2016.

This report covers the period January 1 to December 31, 2018.

## 2.0 ANNUAL REPORTING REQUIREMENTS

The municipal facilities discussed in this annual report include the Solid Waste Disposal Facility (SWDF), the Sewage Disposal Facility (SF) and Water Treatment Plant (WTP).

### 2.1 WATER USAGE

The annual allowable water use for FGH is 31,500 m<sup>3</sup>. In 2018, the total volume withdrawn from the Mackenzie River, the designated water source was not directly recorded. Water withdrawn from the Mackenzie River is transferred to a reservoir. An estimated 16,059 m<sup>3</sup> was withdrawn from the reservoir.

During 2018, no other water sources were used. No modifications to water withdrawal procedures or facilities occurred in 2018.

### 2.2 DISCHARGES TO WASTE DISPOSAL FACILITIES

#### 2.2.1 Solid Waste Disposal

As K'asho Got'ine does not have a metered garbage truck, the volume of waste deposited into the SWDF has been developed based on the formula provided by the Government of the Northwest Territories (GNWT) Department of Municipal and Community Affairs (MACA). The MACA formula is outlined below:

$$\text{Volume per person per day} \times \text{days in month} \times \text{total population} = \text{Monthly waste}$$

Where:

- Monthly waste is measured in cubic metres (m<sup>3</sup>)
- Volume per person per day is a constant rate of 0.015 m<sup>3</sup>

Table 2-1 indicates the monthly estimated solid waste deposited to the SWDF.



# K'ASHO GOT'INE (CHARTER COMMUNITY OF FORT GOOD HOPE) 2018 WATER LICENSE ANNUAL REPORT

Annual Reporting Requirements

**Table 2-1 Estimated Monthly Solid Waste Volumes Deposited to the SWDF**

Month	Volume of Solid Waste Deposited (m <sup>3</sup> ) <sup>1</sup>
January	265.05
February	239.40
March	265.05
April	256.50
May	265.05
June	256.50
July	265.05
August	265.05
September	256.50
October	265.05
November	256.50
December	265.05
<b>Total 2018 Volume</b>	<b>3120.75</b>

Note: 1. The population of Fort Good Hope in 2018 was 570 (GNWT 2018).

No waste was removed from the Solid Waste Facility in 2018.

## 2.2.1.1 Industrial and Commercial Solid Waste Disposal

The quantity of waste disposed at the SWDF by Industrial and/or Commercial Operators was not recorded during 2018. K'asho Got'ine is currently drafting a solid waste disposal bylaw, which will introduce restrictions to the types of wastes accepted at the Solid Waste Facility, including those originating from industrial and commercial operators.

## 2.2.2 Sewage Disposal

The total volume of sewage deposited into the exfiltration trench sewage facility (SF) is unknown. As the population of FGH has not risen substantially since 2017, the total volume of sewage deposited is likely to be similar to, or marginally more than what was deposited in 2017 (22,923.4 m<sup>3</sup>).

No records are available for sludge or sediments removed from the SF in 2018.

## 2.3 SURVEILLANCE NETWORK PROGRAM (SNP)

During 2018, no samples were collected in support of the SNP as all nine SNP stations were reported by K'asho Got'ine personnel to be dry. The SNP locations and map are provided in the powerpoint outlining the SNP program.



**K'ASHO GOT'INE (CHARTER COMMUNITY OF FORT GOOD HOPE) 2018 WATER LICENSE ANNUAL REPORT**

Annual Reporting Requirements

**2.4 WORK COMPLETED DURING 2018**

Table 2-2 summarizes the work completed at K'asho Got'ine facilities in 2018.

**Table 2-2 Work Completed in 2018**

<b>Infrastructure</b>	<b>Work Completed in 2018</b>
Water Supply Facilities	None
Solid Waste Facilities	None
Sewage Disposal	None
Hazardous Waste Storage Facility	None

**2.5 CLOSURE AND RECLAMATION ACTIVITIES**

No closure and reclamation activities were completed at K'asho Got'ine facilities in 2018. No closure and reclamation activities are anticipated to be conducted in 2019 at the facilities.

**2.6 UNAUTHORIZED DISCHARGES**

No unauthorized discharges were reported during 2018.

**2.7 UPDATES OR REVISIONS TO APPROVED PLANS**

No updates to Operations and Maintenance Plans were made in 2018.

**2.8 SUMMARY OF CONSTRUCTION ACTIVITIES**

No construction activities were completed at the WTP, SWDF or SF in 2018. Under separate permit, GNWT Municipal and Community Affairs (MACA) installed nine groundwater wells in the vicinity of the SWDF.

**2.9 ACTIONS REQUIRED**

An inspection report issued May 31, 2018 identified items to be addressed by K'asho Got'ine. Table 2-3 below outlines the status of actions taken in response to the report.

**Table 2-3 Status of Actions Required**

<b>Action</b>	<b>Status</b>
Waste Disposal Facilities Flow Pathway Study	In 2018, GNWT Municipal and Community Affairs (MACA) initiated well installation in the vicinity of the SWDF. Data collected from wells may be used for future studies.
Surveillance Network Program	New SNP stations 2015-7 and 2015-9 were identified and FGH staff participated in training with the Water Resources Officer



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Annual Reporting Requirements

<b>Action</b>	<b>Status</b>
Closure and Reclamation Plan is required to be submitted	Not completed in 2018
Hazardous Waste Manifest and Action Plan is required to be submitted	Not completed in 2018
Waste Facilities Flow Pathway Study is required to be submitted	Not completed in 2018
Commercial and Industrial Operators Waste Management Plan is required to be submitted	Not completed in 2018
Annual Reports for 2015, 2016, 2017	Submitted 2015, 2016 and 2017 Annual Reports for review
Fencing Action Plan addressing fencing around exfiltration trench and solid waste facility	Not completed in 2018
Permanent measuring device for freeboard in exfiltration trench	Not completed in 2018
Pipe intake point to sewage exfiltration trench needs to be repaired	Not completed in 2018
Signage in SWDF for bagged toilet waste area, segregated waste area, hazardous waste storage area	Not completed in 2018



## **3.0 REFERENCES**

Government of the Northwest Territories (GNWT). 2020. Northwest Territories Bureau of Statistics, Fort Good Hope. Accessed July 2020. < [https://www.statsnwt.ca/community-data/infrastructure/Fort\\_Good\\_Hope.html](https://www.statsnwt.ca/community-data/infrastructure/Fort_Good_Hope.html) >

