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REPORT

Government of Northwest Territories Department of Infrastructure

Inuvik Mike Zubko Airport Water Licence G23L8-002 Engagement Plan (Version 1.1)



MARCH 2024



Platinum
member

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REVISIONS PAGE

This plan was submitted as part of the Government of Northwest Territories – Department of Infrastructure regulatory process for the Water Licence G23L8-002 Engagement Plan (Version 1.1) and was current at the time of submission. Once the Type B water licence is issued, the plan will continue to guide engagement activities required over the life of the project. The plan will be reviewed and updated as required by the Gwich'in Land and Water Board.

Inuvik Mike Zubko Airport Water Licence G23L8-002 Engagement Plan (Version 1.1)

Client:	Consultant:
Government of Northwest Territories Department of Infrastructure (GNWT-INF)	Associated Engineering (B.C.) Ltd. (Associated)

Revision/ Issue	Date	Description	Prepared by/ Reviewed by	Client Review
1.0	2023-05-26	Issued for the water licence application to the Gwich'in Land and Water Board	Associated	GNWT-INF
1.1	2024-03-29	2023 annual review. Updated Table 4-1 to include the notifications required by the licence.	Associated	GNWT-INF

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1 INTRODUCTION

The Government of Northwest Territories (GNWT) – Department of Infrastructure (INF) retained Associated Engineering (B.C.) Ltd. (Associated) to prepare an engagement plan for the infrastructure upgrades (the project) at the Inuvik Mike Zubko Airport (Inuvik Airport), located approximately 12 km east of Inuvik, NT. The project includes necessary upgrades to the drainage system that will change the paths and discharge locations of runoff, and requires a Type B water licence to be issued from the Gwich'in Land and Water Board (GLWB) under the *Northwest Territories Waters Act* (SC 1992, c. 39) and regulations. The GLWB issued Type B Water Licence G23L8-002 (the licence) on September 23, 2023, and approved Version 1.0 of this engagement plan.

The purpose of this engagement plan is to summarize the engagement activities completed as a component of the water licence application submission to the GLWB and to detail the continued approach to engagement now that the licence has been issued.

1.1 Background

Before the start of the infrastructure upgrades project, GNWT-INF and Associated conducted early engagement activities related to the infrastructure upgrades at the airport with Indigenous Knowledge holders, local community members, businesses, and contractors in 2020 (Section 3.1).

The GNWT-INF requires a Type B water licence to be issued by the GLWB under the *Northwest Territories Waters Act* (SC 1992, c. 39) and regulations to complete drainage upgrades at the Inuvik Airport due to the “deposit of waste” (e.g., total suspended solids) trigger from run-off. The GLWB requires that pre-application engagement be completed with the potentially affected parties.

Transport Canada's *Canadian Aviation Regulations*, SOR/96-433 (CAR) require that pre-consultation be completed for a period of 45 days before proceeding with the runway extension. The pre-consultation activities for the runway extension were combined with the pre-application engagement activities for the drainage upgrades, which is why the list of potentially affected parties includes organizations that may not be concerned with the drainage upgrades. Under the CAR, a summary report must be submitted to Transport Canada. Details of the engagement activities completed specifically for the CAR are not included in this engagement plan, unless they were also relevant to the water licence pre-application engagement activities.

1.2 Engagement Objectives

The engagement process was guided by the following objectives:

- Increasing the potentially affected parties' understanding of the civil infrastructure upgrades and runway extension at the Inuvik Airport;
- Obtaining feedback from potentially affected parties on the upcoming drainage upgrades and runway extension and to provide an opportunity for potentially affected parties to ask questions; and
- Fulfilling the GLWB pre-application engagement requirements.

2 POTENTIALLY AFFECTED PARTIES

The GLWB and the Gwich'in Tribal Council provided input into identifying the potentially affected parties for the Inuvik Airport water licence application in 2023. These parties include local Indigenous organizations, surrounding

communities, and users of the Inuvik Airport (Table 2-1). Select potentially affected parties were identified as primary potentially affected parties, based on proximity and likelihood of potential impacts. Note that GNWT-INF may engage with other parties, as appropriate.

Table 2-1 Potentially Affected Parties Identified for the Inuvik Airport Water Licence Application

Potentially Affected Party	Potentially Affected Party
Air North	*Gwich'in Tribal Council
Air Tindi	*Gwich'in Tribal Council – Department of Cultural Heritage
Aklak Air	Gwichya Gwich'in Renewable Resources Council
Aklavik Indian Band	Hamlet of Aklavik
Arctic Petroleum Services	Hamlet of Fort McPherson
BBE Expediting	International Logistical Support
Canadian Helicopters	Inuvialuit Development Corporation
Canadian North	*Inuvialuit Environmental Impact Screening Committee
Charter Community of Tsiigehtchic	*Inuvik Native Band
Cloud Nine Restaurant (inside the airport terminal building)	Nav Canada
Ehdiitat Gwich'in Council	*Nihtat Gwich'in Council
Ehdiitat Gwich'in Renewable Resources Council	*Nihtat Gwich'in Renewable Resources Council
Fisheries and Oceans Canada	North Central Helicopters
Government of Canada – Department of National Defence	North-Wright Airways Ltd.
*GNWT – Department of Environment and Climate Change	Prince of Wales Northern Heritage Centre
GNWT – Department of Infrastructure – Air, Marine, and Safety	Residents of Inuvik and surrounding area
GNWT – Department of Lands	Royal Canadian Mounted Police – Air Services Division
GNWT – Department of Municipal and Community Affairs	Teetl'it Gwich'in Band Council
Gwich'in Helicopters	Teetl'it Gwich'in Renewable Resource Council
Gwich'in Land and Water Board	*Town of Inuvik
Gwich'in Land Use Planning Board	Transport Canada – Aerodromes and Air Navigation

Potentially Affected Party	Potentially Affected Party
*Gwich'in Renewable Resources Board	Transport Canada – Navigation Protection Program

* These parties were followed-up with before the engagement period was over. GNWT – Government of Northwest Territories

3 PRE-APPLICATION ENGAGEMENT APPROACH

3.1 Early Engagement Activities

Early engagement for the airport civil infrastructure upgrades began in 2020 that included an open house presentation, an informal coffee conversation with Elders, and a meeting with local contractors. The early engagement activities are summarized in Table 3-1. Engagement activities related to the drainage upgrades for the water licence application are discussed in Section 3.2.

Table 3-1 Summary of Previous Engagement Activities

Engagement Type	Summary of Engagement	Date
Community open house presentation held at the community hall in Inuvik	Presented an overview of the project, including project objectives, community involvement, project scope, project schedule, operational impacts, and next steps; followed by a question-and-answer period	February 18, 2020
Informal coffee and conversation meeting with Elders at the Mackenzie Grill	Provided project information; notable engagement included: <ul style="list-style-type: none"> • Patrice Stuart, of ICEDO, provided a list of names of people to follow up with. • Fran Haughian, of ICEDO, was interested in local employment and training opportunities that the project could bring to the community. • Elder Glen Alexie, of GNWT – Environment and Climate Change, noted that permafrost has left sumps everywhere and that airport upgrades are necessary. 	February 19, 2020
Meeting with local contractors at the airport terminal building	Presented an overview of the project, followed by a question-and-answer period	February 20, 2020
Visual poster displayed at the airport terminal building	A poster was displayed at the airport terminal building, which included an aerial visual of the runway and taxiway widening and a cross-section.	September 2020

Engagement Type	Summary of Engagement	Date
Email and phone discussion with Naomi Smethurst, PWNHC	<p>Archaeological requirements for the infrastructure upgrades and geotechnical drilling program for the quarry, which required a land use permit from the GLWB, were discussed:</p> <ul style="list-style-type: none"> An AIA was required for the geotechnical drilling program near the quarry. The AIA was completed December 2020 and submitted to PWNHC. PWNHC issued a permit, with management recommendations for setback distances. 	February 26, 2020, to March 31, 2021
<p>Town hall presentation for identified potentially affected parties, including:</p> <ul style="list-style-type: none"> Inuvialuit Regional Corporation, Gwich'in Tribal Council Interested local community members Town of Inuvik mayor Contractors 	Presented an overview of the runway extension and updates on the civil infrastructure improvements, followed by a question-and-answer period	April 2021

AIA – archaeological impact assessment; GLWB – Gwich'in Land and Water Board; ICEDO – Inuvialuit Community Economic Development Organization; PWNHC – Prince of Wales Northern Heritage Centre

3.2 Pre-application Engagement Activities

The pre-application engagement activities are summarized in Table 3-2. The engagement period for the water licence application was open for 21 days, from March 2 to March 23, 2023.

Table 3-2 Summary of Engagement Activities

Activity	Details	Timing
Confirm archaeological requirements	An email was submitted to the PWNHC with a map and shapefile of the proposed project footprint to confirm any archaeological requirements. PWNHC reviewed the footprint and had no concerns.	February 15, 2023
Notification letter	<p>A formal notification letter, including figures that showed the proposed changes to the drainage paths, was submitted to the potentially affected parties on March 2, 2023. The email included an invitation to attend a virtual information session on March 9, 2023.</p> <p>The email and notification letter are included as part of the Engagement Record in Appendix A.</p>	March 2, 2023

Activity	Details	Timing
Media advisory	<p>A ¼-page announcement was published in the Inuvik Drum (local newspaper) to notify potentially affected parties of the upgrades and water licence application, and to provide an opportunity for potentially affected parties to attend the information session. The announcement included contact information for providing feedback or asking questions.</p> <p>The announcement is included as part of the Engagement Record in Appendix A.</p>	March 2, 2023
Virtual information session	<p>GNWT – Department of Infrastructure and Associated Engineering (B.C.) Ltd. hosted a virtual information session. An overview of the proposed upgrades, water licence application, and construction schedule was provided, followed by a question-and-answer period.</p> <p>The presentation and record of meeting are included as part of the Engagement Record in Appendix A.</p>	March 9, 2023
Visual poster displayed at the airport terminal building	A poster including information on the proposed work, project schedule, and feedback contact information was affixed in the airport terminal building, in English and French.	March 16, 2023
Follow-up to notification letter	A follow-up email was sent to the primary potentially affected parties to confirm that they received the notification letter and to ask if they were planning to provide feedback or if they had questions before the engagement period was over.	March 22, 2023
Email discussion	An email was sent to Transport Canada – Navigation Protection Program to confirm the result of the Navigation Protection Program Project Review Tool as a No Interference with Navigation Notification of Work	March 30, 2023

GNWT – Government of Northwest Territories; PWNHC – Prince of Wales Northern Heritage Centre

3.3 Engagement Record

A detailed engagement record for pre-application engagement activities, following the GLWB template, is provided in Appendix A. Note that the engagement record includes attachments, such as the full list of email addresses that received the notification letter, the newspaper announcement, and the record of meeting from the virtual information session.

A summary of the engagement activities conducted each year under the licence will be included in the annual reports, as required under Schedule 2 of the licence. The engagement record will not be updated each year with the engagement activities conducted post-issuance of the licence.

3.4 Engagement Outcomes

Feedback received during the virtual information session included questions about the following topics:

- Targeted submission date of the water licence application;

- Material availability in the quarry;
- Asphalt paving schedule;
- Earlier engagement activities; and
- A question about what a check dam is.

A copy of the record of meeting is included in the Engagement Record in Appendix A.

The Inuvialuit Environmental Impact Screening Committee responded by email on March 23, 2023, indicating that it did not have comments at the time.

Neither GNWT-INF nor Associated received any other responses.

4 WATER LICENCE ENGAGEMENT APPROACH

The GNWT-INF believes that meaningful community engagement is crucial in building and maintaining good relationships with communities and community members. The GNWT-INF regional offices are open for residents to provide comments and concerns, or to ask questions regarding GNWT-INF activities. As a result of the Department's open lines of communication, well-established relationships have been built with the people and communities of the Northwest Territories.

4.1 Activities That Will Prompt Engagement and Engagement Approach

GNWT anticipates that engagement will continue after the water licence is issued. A summary of potential activities that will prompt engagement and the proposed methods of engagement are provided in Table 4-1.

Table 4-1 Water Licence Activities Engagement Triggers and Methods

Engagement Trigger	Primary Purpose	Primary Method	Primary Participants
Start and completion of construction activities for the west ditch to Chii Zhìt Van (Airport Lake or Dolomite Lake) and the east ditch to East Lake (Part B, Condition 19; Part E, Condition 3)	To advise potentially affected parties of construction activities	Verbal and/or written notification 10 days before construction	Potentially affected parties identified as primary potentially affected parties in Table 2-1, GLWB, GNWT-ECC water resources officer (i.e., Inspector), Fisheries and Oceans Canada, and Transport Canada – Navigation Protection Program
Temporary access restrictions to public places, such as Chii Zhìt Van	To advise potentially affected parties and the public of temporary closures that might affect access to public places	Verbal and/or written notification	Primary potentially affected parties and the public

Engagement Trigger	Primary Purpose	Primary Method	Primary Participants
Amendments to the water licence	To advise potentially affected parties of the amendments and allow an opportunity for them to provide feedback	Verbal and/or written notification	GLWB and primary potentially affected parties
Renewal of the water licence	To advise potentially affected parties of GNWT-INF's intention to renew the water licence	Verbal and/or written notification	GLWB and primary potentially affected parties
Occurrence of reportable spills	To advise affected parties and the public of spills if surface water is impacted	Verbal and/or written notification	NWT Spill Line, GNWT-ECC water resource officer, potentially affected parties identified as primary potentially affected parties, and the public if water resources are impacted and a risk to the public or the environment is identified
Other	To discuss any concerns or other topics that may arise during Inuvik Airport operations	Written, verbal, or as required by affected parties	Gwich'in Tribal Council, or any organization or individual
Non-compliance with licence (Part B, Condition 20)	To notify the GLWB and the GNWT-ECC water resources officer (i.e., Inspector) of non-compliance with the licence	Written notification and verbal, if required	GLWB and GNWT-ECC water resources officer

ECC – Department of Environment and Climate Change; GLWB – Gwich'in Land and Water Board; GNWT – Government of Northwest Territories; INF – Department of Infrastructure

CLOSURE

This report was prepared for the Government of Northwest Territories – Department of Infrastructure to describe the engagement approach for the water licence submission to the Gwich'in Land and Water Board.

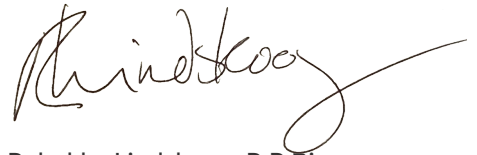
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Respectfully submitted,

Associated Engineering (B.C.) Ltd.



Caitlin McKenzie, BIT
Environmental Scientist



Rebekka Lindskoog, R.P.Bio.
Manager, Northern Environment

REFERENCES

Canadian Aviation Regulations, SOR/96-433.

Northwest Territories Waters Act, SC 1992, c. 39.

Waters Regulations, NWT Reg 019-2014.

APPENDIX A – ENGAGEMENT RECORD

Government of Northwest Territories – Department of Infrastructure Inuvik Airport Water Licence Pre-application Engagement Record

1 **AFFECTED PARTIES**

Name of Proponent: Government of Northwest Territories (GNWT) – Department of Infrastructure

The potentially affected parties that were identified are listed in Table 1-1.

Table 1-1 List of Potentially Affected Parties

Potentially Affected Party	Potentially Affected Party
Air North	*Gwich'in Tribal Council
Air Tindi	*Gwich'in Tribal Council – Department of Cultural Heritage
Aklak Air	Gwichya Gwich'in Renewable Resources Council
Aklavik Indian Band	Hamlet of Aklavik
Arctic Petroleum Services	Hamlet of Fort McPherson
BBE Expediting	International Logistical Support
Canadian Helicopters	*Inuvialuit Development Corporation
Canadian North	*Inuvialuit Environmental Impact Screening Committee
Charter Community of Tsiigehtchic	*Inuvik Native Band
Cloud Nine Restaurant (inside the airport terminal building)	Nav Canada
Ehdiitat Gwich'in Council	*Nihtat Gwich'in Council
Ehdiitat Gwich'in Renewable Resources Council	Nihtat Gwich'in Renewable Resources Council
Fisheries and Oceans Canada	North Central Helicopters
Government of Canada – Department of National Defence	North-Wright Airways Ltd.

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Inuvik Airport Water Licence Application Pre-submission Proponent Engagement Record

Potentially Affected Party	Potentially Affected Party
*GNWT – Department of Environment and Climate Change	Prince of Wales Northern Heritage Centre
GNWT – Department of Infrastructure – Air, Marine, and Safety	Residents of Inuvik and surrounding area
GNWT – Department of Lands	Royal Canadian Mounted Police – Air Services Division
GNWT – Department of Municipal and Community Affairs	Teetl'it Gwich'in Band Council
Gwich'in Helicopters	Teetl'it Gwich'in Renewable Resource Council
Gwich'in Land and Water Board	*Town of Inuvik
Gwich'in Land Use Planning Board	Transport Canada – Aerodromes and Air Navigation
*Gwich'in Renewable Resources Board	Transport Canada – Navigation Protection Program

* These parties were identified as primary potentially affected parties and were followed-up with before the engagement period was over. Note that a follow-up email to the Gwich'in Tribal Council – Department of Cultural Heritage was mistakenly not sent. GNWT – Government of Northwest Territories

2 ENGAGEMENT RECORD

The engagement record for engagement activities that began specifically for the drainage upgrades is provided in Table 2-1.

Table 2-1 Summary of Engagement Records

Name of Representative of Potentially Affected Party Who Participated in Engagement	Date of Engagement	Reason for Engagement	Overview of Issues Resolved	Overview of Issues Unresolved
AlecSandra Macdonald, Regulatory Specialist, Gwich'in Land and Water Board Amacdonald@glwb.com	January 20, 2023	To confirm water licence pre-application engagement approach and stakeholder list	<ul style="list-style-type: none"> AlecSandra sent a community contact list, including contacts for surrounding communities that should be notified. She agreed that it would be ok to combine engagement with Transport Canada's requirements. She suggested we reach out to Gwich'in Tribal Council to confirm the engagement approach. She confirmed that no closure and reclamation plan, closure cost security estimate, or financial capacity is required for the application. 	None

Government of Northwest Territories – Department of Infrastructure
Inuvik Airport Water Licence Application Pre-submission Proponent Engagement Record

Name of Representative of Potentially Affected Party Who Participated in Engagement	Date of Engagement	Reason for Engagement	Overview of Issues Resolved	Overview of Issues Unresolved
Leigh-Ann Williams-Jones, Director, Lands and Resources, Gwich'in Tribal Council Leighann.williamsjones@gwichintribal.ca	January 20, 2023	To confirm water licence pre-application engagement approach and stakeholder list	<ul style="list-style-type: none"> Leigh-Ann responded with an updated DGO RRC band council members list as of February 2023. She cc'd Darren Campbell, whom she said could weigh in on some of the engagement approach questions; however, no additional information was received. During the virtual information session (March 2023), Kelly McLeod mentioned that the Indigenous acknowledgement could have been improved. Kelly requested we follow up with GTC through Leigh-Ann, who provided her email in the virtual information chat. Associated recognized this and asked for suggestions for improvement but did not receive a response. Kelly McLeod also requested a summary of the early engagement with Indigenous communities be sent to Leigh-Ann, GTC. Rebekka Lindskoog, Associated, emailed a summary of the engagement activities completed. No response was received. 	N/A

Government of Northwest Territories – Department of Infrastructure
Inuvik Airport Water Licence Application Pre-submission Proponent Engagement Record

Name of Representative of Potentially Affected Party Who Participated in Engagement	Date of Engagement	Reason for Engagement	Overview of Issues Resolved	Overview of Issues Unresolved
Naomi Smethurst, Assessment Archaeologist NWT, Prince of Wales Northern Heritage Centre naomi_smethurst@gov.nt.ca	February 15, 2023	To confirm archaeological requirements for expanded airport boundary	<ul style="list-style-type: none"> Associated emailed a map with project footprint and shapefile that included the new stormwater drainage ditches and drilling locations to Naomi. Naomi reviewed and indicated that there were no concerns. 	N/A
AlecSandra Macdonald, Regulatory Specialist, Gwich'in Land and Water Board Amacdonald@glwb.com	February 15, 2023	To confirm whether the existing land use permit will cover drilling for a Phase II environmental site assessment	<ul style="list-style-type: none"> Associated emailed map with potential drilling locations. AlecSandra confirmed that there are no concerns with drilling under the existing land use permit and requested to receive a map showing final drill locations once it is available. 	N/A

Government of Northwest Territories – Department of Infrastructure
Inuvik Airport Water Licence Application Pre-submission Proponent Engagement Record

Name of Representative of Potentially Affected Party Who Participated in Engagement	Date of Engagement	Reason for Engagement	Overview of Issues Resolved	Overview of Issues Unresolved
Potentially affected parties listed in Table 1-1* who were emailed a notification letter and invitation to attend a virtual information session (Attachment A)	02-Mar-23	<p>To provide notification letter of water licence application that included information on the drainage upgrades and runway extension and an opportunity for affected parties to provide feedback or ask questions</p> <ul style="list-style-type: none"> • Invitation sent to virtual information session on March 9 • Engagement period was open for 21 days 	<ul style="list-style-type: none"> • EISC@jointsec.nt.ca responded on March 23 stating that they do not have any comments at this time (email attached). • No other responses received. • The notification distribution list (Attachment A), notification letter (Attachment B), and email responses (Attachment C) are attached. 	N/A
<ul style="list-style-type: none"> • Members of the public who identify as stakeholders • Inuvik Drum (which published the announcement) 	02-Mar-23	To provide notice of project, water licence application, and virtual information session	<ul style="list-style-type: none"> • The announcement from the Inuvik Drum is provided in Attachment D. 	N/A

Government of Northwest Territories – Department of Infrastructure
Inuvik Airport Water Licence Application Pre-submission Proponent Engagement Record

Name of Representative of Potentially Affected Party Who Participated in Engagement	Date of Engagement	Reason for Engagement	Overview of Issues Resolved	Overview of Issues Unresolved
<p>Individuals who chose to attend virtual information session presented by Associated and GNWT-INF:</p> <ul style="list-style-type: none"> Grant Hood, Town of Inuvik Leigh-Ann Williams-Jones, Gwich'in Tribal Council Darren Campbell, Gwich'in Tribal Council Kelly McLeod, Nihtat Gwich'in Council Myron Thiessen, Government of Canada – Department of Defence Ken McIntyre, Government of Canada – Department of Defence Kristi Benson, Aurora Research Institute Jen Reynolds, Air Tindi Norman Snowshoe, GNWT – Environment and Climate Change Dana Moran, GNWT – Department of Municipal and Community Affairs 	09-Mar-23	To present PowerPoint presentation on the project and allow opportunity to provide feedback and ask questions	<ul style="list-style-type: none"> The virtual information session presentation and meeting minutes are attached (Attachments E and F, respectively). No other comments were received. 	N/A
<ul style="list-style-type: none"> Members of the public who access the Inuvik Airport terminal building and identify as stakeholders Poster displayed in airport terminal building 	16-Mar-23	To present poster notifying stakeholders of the infrastructure upgrades, including improving stormwater drainage and provide contact information for them to provide feedback	<ul style="list-style-type: none"> Poster was displayed in English and French. No feedback has been received yet. The poster is provided in Attachment D. 	N/A

Government of Northwest Territories – Department of Infrastructure
Inuvik Airport Water Licence Application Pre-submission Proponent Engagement Record

Sent follow up email to the following organizations:	22-Mar-23	To forward original notification letter, remind of the engagement period deadline, and ask if they will be providing any feedback	<ul style="list-style-type: none"> • EISC@jointsec.nt.ca responded on March 23 stating that they do not have any comments at this time (email attached). • Angela Tripathy mentioned that she could not open the attachments. The attachments were re-sent, and no further response was received. • No other comments were received. 	N/A
<ul style="list-style-type: none"> • Leigh-Ann Williams-Jones, Gwich'in Tribal Council Leighann.williamsjones@gwichintribal.ca • Angela Tripathy, Gwich'in Tribal Council angela.tripathy@gwichintribal.ca • Susan McKenzie, Gwich'in Land Use Planning Board planner@gwichinplanning.nt.ca • Gwich'in Renewable Resources Board chair@grrb.nt.ca • Kelly McLeod, Nihtat Gwich'in Council President@nihtatgwichin.ca • Nihtat Gwich'in Renewable Resources Council rrc@nihtatgwichin.ca • Michel Lindsay, Inuvialuit Environmental Impact Screening Committee eisc@jointsec.nt.ca • Denny Rodgers, IDC drodgers@inuvialuit.com • Johanna Mitchener, IDC jmitchener@inuvialuit.com • Jenn Parrott, IDC jparrott@inuvialuit.com • Edward Wright, Inuvik Native Band bandmanager@inbnt.ca • Grant Hood, Town of Inuvik sao@inuvik.ca 				

Government of Northwest Territories – Department of Infrastructure
Inuvik Airport Water Licence Application Pre-submission Proponent Engagement Record

Name of Representative of Potentially Affected Party Who Participated in Engagement	Date of Engagement	Reason for Engagement	Overview of Issues Resolved	Overview of Issues Unresolved
<ul style="list-style-type: none"> Norman Snowshoe, GNWT – Department of Environment and Climate Change Norman.Snowshoe@gov.nt.ca 				
Kelly McLeod, President, Nihtat Gwich'in Council President@nihtatgwichin.ca	30-Mar-23	To send summary of earlier engagement activities regarding Inuvik Airport infrastructure upgrades	<ul style="list-style-type: none"> Kelly requested a summary of the engagement activities completed from the beginning of the infrastructure upgrades at the airport in 2020 be sent to Leigh-Ann Williams-Jones, Gwich'in Tribal Council. Associated did not receive a response. 	N/A
Racquel Creces, Navigation Protection Officer, Transport Canada – Navigation Protection Program racquel.creces@tc.gc.ca	30-Mar-23	To provide brief overview of project and confirm result of the Navigation Protection Program Project Review Tool	<ul style="list-style-type: none"> Racquel confirmed that that work is not considered on the bed of a navigable water because the outfalls will be 3 m above the ordinary high-water mark. She confirmed that if Associated believes that the work does not interfere with navigation, then the Project Review Tool result of submitting a No Interface with Navigation Notification of Work would be a likely fit. 	N/A

* The following affected parties were not emailed the engagement notification letter: Fisheries and Oceans Canada, Prince of Wales Northern Heritage Centre, Gwich'in Land and Water Board, and Transport Canada – Navigation Protection Program. DGO RRC – Designated Gwich'in Organizations Renewable Resources Council; GNWT – Government of Northwest Territories; IDC – Inuvialuit Development Corporation; INF – Department of Infrastructure

Attachments:

- Attachment A – Notification Letter Distribution List
- Attachment B – Notification Email
- Attachment C – Email Responses
- Attachment D – Newspaper Announcement and Poster
- Attachment E – Virtual Information Session Presentation
- Attachment F – Virtual Information Session Record of Meeting

ATTACHMENT A – NOTIFICATION LETTER DISTRIBUTION LIST

Inuvik Airport Water Licence and CAR 307 Potentially Affected Party Distribution List for the Notification Letter Sent March 2, 2023

Pre-application Engagement

Potentially Affected Party*	Contact Title	Contact Name	Phone	Cell Phone	Email
Gwich'in Tribal Council*, Gwich'in Land Use Planning Board*, and Gwich'in Renewable Resources Board*					
Gwich'in Tribal Council	Director, Lands & Resources	Leigh-Ann Williams-Jones^	867-777-7927		Leighann.williamsjones@gwichintribal.ca
Gwich'in Tribal Council – Department of Cultural Heritage	Executive Director	Sharon Snowshoe^	867-952-2524		SSnowshoe@Gwichin.nt.ca
Gwich'in Land Use Planning Board	Executive Director	Susan McKenzie^	867-777-3506		planner@gwichinplanning.nt.ca
Gwich'in Renewable Resources Board	Executive Director^	Vacant but contact board chair	867-777-6600		chair@grrb.nt.ca
Nihtat Gwich'in Council (NGC)*					
Nihtat Gwich'in Council	President	Kelly McLeod^~	867-777-6650		President@nihtatgwichin.ca
Nihtat Gwich'in Council	Vice President	Chris Smith~	867-777-6650		vicepresident@nihtatgwichin.ca
Nihtat Gwich'in Council	Director	Barry Greenland~	867-777-6650		BGreenland@gwichin.nt.ca
Nihtat Gwich'in Renewable Resources Council (NRRC) (Inuvik)*					
NRRC	RRC Coordinator^	None identified – currently vacant~	867-777-6652		rrc@nihtatgwichin.ca
NRRC	Chair	Barry Greenland~	867-777-6650		rrc@nihtatgwichin.ca
NRRC	Vice-chair	Simon Hagen~	867-777-6650		rrc@nihtatgwichin.ca
Inuvialuit Screening Committee*					
Inuvialuit Screening Committee	Coordinator	Michel Lindsay^			eisc@jointsec.nt.ca
Inuvialuit Development Corporation*					
Inuvialuit Development Corporation	General contact		867-777-7050		idc@inuvialuit.com
Inuvialuit Development Corporation	Director Business Development, Northern Operations	Denny Rodgers	867-777-7035		drodgers@inuvialuit.com
Inuvialuit Development Corporation	Commercial Projects Manager	Johanna Mitchener	867-777-7025		jmitchener@inuvialuit.com
Jenn Parrott	Director, Innovation, Science & Climate Change	Jenn Parrott	867-777-7053		jparrott@inuvialuit.com
Inuvik Native Band*					
Inuvik Native Band	Band Manager	Edward Wright~	867-777-5868		bandmanager@inbnt.ca
Aklavik Organizations					
Aklavik Indian Band	Reception – General Inquiries		867-777-2340		aibreceptionist@gmail.com
Ehdiitat Gwich'in Council (Aklavik)	President	Michael Greenland^	867-978-2340		michael.greenland@gwichintribal.ca
Ehdiitat Gwich'in Council (Aklavik)	Executive Director	Debbie Greenland^	867-978-2340		egc.director.aklavik@gmail.com
Ehdiitat Gwich'in Renewable Resources Council (Aklavik)	RRC Coordinator	Eugene Pascal^	867-978-2336		errccoord@northwestel.net
Hamlet of Aklavik	Senior Administrative Officer	Tom Ng^	867-978-2351		saoaklavik@permafrost.com
Tsiigehtchic Organizations					
Charter Community of Tsiigehtchic	Senior Administrative Officer	Jeff Mercier^	867-953-3201		sao@tsiigehtchic.ca
Gwichya Gwich'in Band (Tsiigehtchic)	Band Manager	Jeff Mercier^	867-953-3011		sao@tsiigehtchic.ca
Gwichya Gwich'in Council (Tsiigehtchic)	President^	Interim	867-620-0097		president@gwichyagwichin.ca
Gwichya Gwich'in Renewable Resources Council (Tsiigehtchic)	RRC Coordinator	Roxanne McLeod^	867-953-3608		gwichyarrcb@hotmail.com
Fort McPherson Organizations					
Hamlet of Fort McPherson	Senior Administrative Officer	Vacant - sent to additional email	867-952-2428		sao@fortmcperson.ca; dirfinance@fortmcperson.ca
Tetlit Gwich'in Band Council	Band Manager	George Nerysoo^~	867-952-2330		tgcbandmanager@gmail.com
Tetlit Gwich'in Renewable Resource Council	RRC Coordinator	Laura Nerysoo~	867-952-2330		rrccordinator@tgcouncil.ca
Tetlit Gwich'in Renewable Resource Council	President	Deborah Peterson~	867-952-2330		RRCCoordinator@tgcouncil.ca
Tetlit Gwich'in Council	Executive Director	Anita Koe (acting)^~	867-952-2384		AnitaK@tgcouncil.ca
Tetlit Gwich'in Council	President	Abe Wilson^~	867-952-2425		Abe.Wilson@gwichintribal.ca
Tetlit Gwich'in Council	Vice President	Grace Martin~	867-952-2330		Grace.martin@gwitchintribal.ca
Town of Inuvik*					
Town of Inuvik	Senior Administrative Officer	Grant Hood^	867-777-8600		sao@inuvik.ca
Government of Northwest Territories (GNWT) Environment and Climate Change (ECC) - previously ENR*					
GNWT ECC	Regional Superintendent	Norman Snowshoe^	867-678-6990		Norman_Snowshoe@gov.nt.ca
GNWT ECC	Regional Environmental Assessment Coordinator (Inuvik)	Alicia McRae			Alicia_McRae@gov.nt.ca
GNWT ECC	Water Resources Officer, Inuvik	Lloyd Gruben			Lloyd_Gruben@gov.nt.ca
Government of the Northwest Territories (GNWT) Department of Infrastructure (INF)					
GNWT INF Asset Management Division	Construction Project Management, Superintendent,	Charlotte Brockman, P.Eng.	867-767-9048	867-446-4115	Charlotte_Brockman@gov.nt.ca
GNWT INF	Regional Superintendent	Merle Carpenter^	867-777-7348		merle_Carpenter@gov.nt.ca
GNWT INF Air, Marine & Safety Division	Director	Kevin Dragon, P.Eng.	867-767-9084		Kevin_Dragon@gov.nt.ca
GNWT INF Air, Marine & Safety Division	Project Officer	Rodney Hildebrandt		867-445-8892	Rodney_Hildebrandt@gov.nt.ca

Potentially Affected Party	Contact Title	Contact Name	Phone	Cell Phone	Email
GNWT INF Inuvik Mike Zubko Airport	Regional Airport Manager	Jason McNeil	867-777-2467	867-678-0791	jason_macneil@gov.nt.ca
GNWT INF Inuvik Mike Zubko Airport	Airport Electrician	John Boudreau			John_Boudreau@gov.nt.ca
GNWT INF Air, Marine & Safety Division	Air Operations Officer	Hareg Omar	867-767-9084 X 31090		Hareg_Omer@gov.nt.ca
GNWT INF Department of Infrastructure Air, Marine & Safety Division	Manager, Air, Safety & Security	Dennis Rajasekar	867-767-9084 X31008	867-445-8379	Dennis_Rajasekar@gov.nt.ca
GNWT INF Air, Marine & Safety Division	Project Engineer, Civil	John Clark	867-767-9084 x31074		John_Clark@gov.nt.ca
GNWT INF Air, Marine & Safety Division	Technical Services, CAD	Jessica Casey			Jessica_Casey@gov.nt.ca
Government of Northwest Territories (GNWT) Department of Lands - now part of GNWT ECC					
GNWT Department of Lands (now GNWT ECC)	Acting Regional Superintendent	Donald Arey^	867-777-8900		don_arey@gov.nt.ca
Government of Northwest Territories (GNWT) Department of Municipal and Community Affairs					
GNWT Department of Municipal and Community Affairs	Regional Superintendent	Dana Moran^	867-777-7120		Dana_moran@gov.nt.ca
Transport Canada					
Transport Canada Aerodromes and Air Navigation	Civil Aviation Safety Inspector	John McFee	204-228-8255		john.mcfee@tc.gc.ca
Government of Canada Department of National Defence (DND)					
Government of Canada DND	Airfield Pavements and Standards Officer	Myron Thiessen, M.Sc., P.Eng.	204-833-2500 x 4039		MYRON.THIESSEN@forces.gc.ca
DND		David Smith			David.Smith6@forces.gc.ca
DND		Michael Ulloa			Michael.Ulloa@forces.gc.ca
DND	Senior Project Technician, Real Property Operations North Detachment Yellowknife	Ken McIntyre, CD	867-873-0700 X6073	867-445-7271	kenneth.mcintyre@forces.gc.ca
Nav Canada					
Nav Canada Commercial Relations	Manager	Janelle Denton		613-290-8085	Janelle.Denton@navcanada.ca
Nav Canada Aeronautical Information Management	Instrument Flight Procedure Analyst	William Heath	613-222-3981		heathw@navcanada.ca
Nav Canada Deployment Services Planning & Design		Patrick de Regt, P.Eng.		780-708-2125	Patrick.deRegt@navcanada.ca
Nav Canada Aeronautical Information Management	Supervisor, Instrument Flight Procedure Design	Greg Evans	613-248-3893	613-583-8695	Greg.Evans@navcanada.ca
Aerodrome Users					
Aklak Air	Chief Pilot YYC		403-291-3300		Basemanager@aklakair.ca; kdalton@aklakair.ca
Air North	Flight Ops		867-668-2228 x737 and x 748		YXYOPS@flyairnorth.com
Air Tindi			888-545-6794		occ@airtindi.com
Canadian Helicopters	Base Manager			867-678-0409	info@canadianhelicopters.com
Canadian North	O.C.C. Ops YYC		403-503-3361		YEVOPS@canadiannorth.com
North-Wright Airways Ltd.			867-587-2288		ops@north-wrightairways.com; dispatch@north-wrightairways.com
RCMP Air Services Division			867-765-3888		airservicesyellowknife@rcmp-grc.gc.ca
BBE Expediting			867-777-2309		sgray@bbex.com
Nav Canada FSS			867-777-2522		Gavin.VanKuppeveld@navcanada.ca
DND			705-494-2001 or x7628		fol_inuvik@northwestel.net; steve.penney@forces.gc.ca
Arctic Petroleum Services			867-777-2682		yev@arcticpetroleumservices.ca
Gwich'in Helicopters			867-678-2270		Inuvik@greatslaveheli.com; cgandy@greatslaveheli.com
International Logistical Support			867-777-4171		Freight@telus.net
North Central Helicopters			306-425-3100		Pilond@htsc.ca
Terminal Restaurant		Paul Clark			paul@pc-consulting.ca

Note:

All potentially affected parties on this list were provided with a notification letter and invitation to attend a virtual information session.

* indicates that a potentially affected party was identified as a primary potentially affected party and sent a follow up email to confirm recipient of the letter and whether they had questions or are planning to provide feedback. Note that a follow-up email to the Gwich'in Tribal Council – Department of Cultural Heritage was mistakenly not sent.

^ indicates contact was provided by the Gwich'in Land and Water Board

~indicates contact was provided by the Gwich'in Tribal Council as per the DGO RRC Band Council Members as of Feb 2023 list

ATTACHMENT B – NOTIFICATION EMAIL AND LETTER

Adrian Wasawo

From: Jon Posynick <Jon_Posynick@gov.nt.ca>
Sent: March 3, 2023 11:58 AM
Cc: Rebekka Lindskoog; Caitlin McKenzie; Alexis Campbell
Subject: FW: Inuvik Airport Runway Extension and Drainage Upgrades: Information Session
Attachments: Inuvik Airport Engagement Letter Figures.pdf;
ltr_written_notification_Inuvik_Airport_water_licence_CAR.pdf

Good Afternoon,

The Government of Northwest Territories – Department of Infrastructure (GNWT–INF) would like to advise you that the GNWT–INF is preparing to complete infrastructure upgrades and constructing a 914-metre runway extension at the Inuvik Mike Zubko Airport (Inuvik Airport). This work requires submission of an application for a Type B water licence to the Gwich'in Land and Water Board (the Board) and pre-consultation under Transport Canada's Canadian Aviation Regulations, Section 307.

Please see the attached notification letter which provides details about the project and an upcoming information session that will be held online on March 9th, 2023; an invitation to attend the info session will follow this email.

This notification formally initiates the engagement process for the water licence pre-application related to drainage upgrades at the Inuvik Airport and the pre-consultation process for the runway extension. The purpose of the engagement is to provide the interested parties with information on the project and give them an opportunity to provide input and ask questions.

If you have comments or questions, please contact Alexis Campbell, Environmental Analyst, Department of Infrastructure, via telephone 867-767-9083 ext. 31055 or via email Alexis_Campbell@gov.nt.ca.

Thank you,

Jon

Mársı | Kinanāskomitin | Thank you | Merci | Hąǰı' | Quana | Qujannamiik | Quyanainni | Máhsı | Máhsı | Mahsi

Jon Posynick
Manager
Design and Technical Services – Environmental Affairs
Department of Infrastructure
Government of the Northwest Territories

4th floor, New Government Building
PO Box 1320
5015 49th Street
Yellowknife, NT X1A 2L9

Phone: 867-767-9083 Ext. 31052
www.gov.nt.ca

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Via Email

DISTRIBUTION LIST:

RE: Notification of the Inuvik Mike Zubko Airport Runway Extension and Drainage Upgrades

The Government of Northwest Territories – Department of Infrastructure (GNWT–INF) would like to advise you that the GNWT–INF is completing infrastructure upgrades and constructing a 914-metre runway extension at the Inuvik Mike Zubko Airport (Inuvik Airport). Notably, this project includes necessary upgrades to the drainage system that will change the paths and discharge locations of runoff from the Inuvik Airport and upland areas.

This work requires submission of an application for a Type B water licence to the Gwich'in Land and Water Board (the Board) and pre-consultation under Transport Canada's *Canadian Aviation Regulations*, Section 307.

The GNWT–INF understands the importance of engaging with any potentially affected parties. Early engagement related to the infrastructure upgrades at the Inuvik Airport was done in 2020 and took place as informal meet-and-greets with Indigenous Knowledge holders, an open house presentation for local residents, businesses, and contractors, and a meeting with local contractors.

This notification formally initiates the engagement process for the water licence pre-application related to drainage upgrades at the Inuvik Airport and the pre-consultation process for the runway extension.¹ The purpose of the engagement is to provide the interested parties with information on the project and give them an opportunity to provide input and ask questions.

1 PROJECT DESCRIPTION

1.1 RUNWAY EXTENSION

The upgrades to the infrastructure and runway at the Inuvik Airport include the following:

- Extending Runway 06-24 by 914 metres, including aircraft turning bays at each end of the runway;
- Resurfacing the existing runway, taxiway, and apron pavements;
- Relocating Nav Canada facilities;

¹ Required by the Board under the NWT *Waters Act* and *Waters Regulations*, and Transport Canada's *Canadian Aviation Regulations*, Section 307.



- Improving airfield lighting and electrical systems;
- Implementing new pavement markings;
- Widening the runway safety area to meet current Transport Canada standards;
- Widening Taxiway C to accommodate larger aircraft (Aircraft Group Number IV);
- Improving airport stormwater drainage so that it directs runoff away from runway and taxiways and prevents standing water from negatively affecting the permafrost; and
- Developing climate design information for the runway that considers climate change.

Figure 1 (attached) shows the existing runway footprint, and Figure 2 (attached) shows the proposed runway extension.

1.2 DRAINAGE

The drainage upgrades at the Inuvik Airport will involve constructing new ditches and culverts at the airport and to the east and west of the airport in commissioner's land held under a reserve by the Inuvik Airport and within property boundaries held by GNWT Department of Lands.

Currently, rain and snowmelt runoff from the airport surfaces and surrounding land drains to Chii Zhìt Van (Dolomite Lake) and East Lake. The new drainage ditches will change the paths of some of this runoff and where it enters the lakes.

The existing drainage system does not function in its current condition. Runoff does not drain properly and forms areas of standing water, which causes the land around the runway and taxiways to sink. The existing drainage system is not adequate for the current development and climate conditions, and its performance would continue to degrade as climate change effects increase and as the airport is improved and further developed.

1.2.1 Existing Drainage System

Currently, runoff flows along the existing drainage paths and enters the lakes at locations called outfalls (OF), as follows:

- Through a natural drainage path west of the main quarry that drains to Dolomite Lake (OF_01);
- Through a natural drainage path on the east side of Public Quarry Road that drains to Dolomite Lake (OF_02);



- Through a natural drainage path east of the airport that drains around Runway 24 and then south to Dolomite Lake (OF_03); and
- Directly into East Lake (OF_04).

Figure 1 shows the existing drainage conditions and outfall locations at the Inuvik Airport.

1.2.2 Proposed Drainage System

Defined ditches will be constructed to transport runoff outside the airport property. The drainage design focuses on preventing standing water around the runway, taxiways, and related facilities in the long term. Standing water in these areas could impact the stability of the runway and embankments, and the support facilities, such as buildings. The proposed drainage paths and outfall locations are as follows:

- Runoff that used to flow over the Public Quarry Road to OF_01 will be diverted south, to OF_02, which will reduce the flow to the natural drainage path west of the quarry and increase the flow at OF_02;
- The ditch on the east side of the Public Quarry Road will be realigned to drain approximately 175 m east of the Public Quarry Road to avoid needing to blast into the existing bedrock (OF_02); and
- Stormwater that used to flow to Dolomite Lake from OF_03 will be diverted to East Lake by the newly constructed OF_04, which will increase the flow to East Lake.

Figure 2 shows the proposed drainage ditch alignments and outfall locations.

The design of the ditches addresses the water quality of the runoff. The ditch design incorporates the following erosion control measures:

- Ditches will be armoured with screened rock over non-woven geotextile in sections where water velocity will be greater than 1 metre per second (m/s);
- Gabion basket check dams, which are rocks typically encased in wire mesh, will be installed at intervals where water velocity will be greater than 2 m/s;
- A screened rock apron will be installed around the culverts;
- Gabion baskets will be installed at the end of the two new outfall locations and will be placed approximately 3 metres above the ordinary high-water mark of both lakes; and
- Where screened rock is not required, ditches will be hydroseeded with a native grass mix.

The contractor will need to comply with the contract environmental specifications, which will include developing a construction environmental management plan. This plan will include an erosion and sediment control plan, a requirement to monitor



water quality during construction (such as turbidity, which is the cloudiness of the water), and a spill contingency plan.

2 WATER LICENCE

The Inuvik Airport has been operating without a water licence; however, the Board and GNWT Environment and Natural Resources have identified that a water licence is required to complete the drainage upgrades and for normal operation of the airport. The water licence *may* specify:

- The quality of runoff water that may be released to the environment (e.g., total suspended solids); and
- Terms and conditions for constructing the drainage ditches and operating conditions of the Inuvik Airport, such as requirements for water quality monitoring and plans for erosion and sediment control and spill contingency.

The documents that will form part of the water licence application for construction and operation of the airport include the following:

- Drainage design drawings
- Sediment and erosion control plan
- Waste management plan
- Spill contingency plan
- Stormwater monitoring plan

3 PROJECT TIMELINE

The GNWT-INF anticipates completing the pre-application engagement for the water licence by the end of March 2023 (21 days after this notification letter is sent) and the pre-consultation process for the runway extension by mid-April 2023 (45 days after this notification letter is sent).² The GNWT-INF plans to submit the water licence application to the Board by the beginning of April 2023. If it is successful, GNWT-INF anticipates that the Board will issue the water licence between June and July 2023.

The construction of the runway extension is anticipated to begin on May 1, 2023, and be completed by December 30, 2027. Construction of the drainage improvements is anticipated to begin on August 1, 2023, or after the water licence is issued, and be completed by September 30, 2024.

² The difference in engagement length is required to accommodate the time for the water licence to be processed.



4 ENGAGEMENT APPROACH

The GNWT-INF will hold a virtual information session using the Microsoft Teams app to summarize the project information and allow the interested parties to request a one-on-one meeting or provide input and ask questions. You can request a one-on-one meeting to discuss project details, provide input, or ask questions at any time.

Please submit all comments, questions, concerns, or recommendations by:

- **March 23, 2023** (21 days after this letter is issued) for feedback related to the water licence; and
- **April 16, 2023** (45 days after this letter is issued) for feedback related to the runway extension to:

Alexis Campbell, Environmental Analyst

Government of Northwest Territories – Department of Infrastructure

Phone number: 867-767-9083 ext. 31055

Email address: Alexis.Campbell@gov.nt.ca

Or by mail:

Government of Northwest Territories – Department of Infrastructure

PO Box 1320

5015 49th Street, Yellowknife, NT

X1A 2L9

A summary of the responses received will be submitted to the Board with the water licence application, and to Transport Canada for review.

4.1 VIRTUAL INFORMATION SESSION

Please join GNWT-INF by attending the following virtual information session. A brief overview of the design will be presented, followed by an opportunity for you to ask questions or provide feedback.

When: March 9, 2023, 3:00 pm local time

Where: From your computer or phone

How: Click the link below (you do not need the Teams app to join) or dial in to the number below

Link: [Click here to join the meeting](#)

Phone number: 867-675-0083 Yellowknife

Phone conference ID: 485 264 280#



The Teams invitation will be included in the email sent with this notification letter. If you did not receive the invitation, you can request one by reaching out to the contact above.

Thank you. GNWT-INF looks forward to talking with you.

Sincerely,

Alexis Campbell
Environmental Analyst
Design and Technical Services
Department of Infrastructure

Attachments:

Figure 1 – Existing Airport and Drainage Conditions

Figure 2 – Proposed Runway Extension and Drainage Conditions




File: \\ae.ca\data\working\van2019-2772-00\civil\model\GIS\QGIS\map_inuvik_airport_20200113_nv.qgz
Date: 2023-02-21T13:46:33.328

NO.	DATE	ENG	BY	SUBJECT
REVISIONS				

Data Sources

1. Orthographic imagery courtesy of ESRI Satellite.

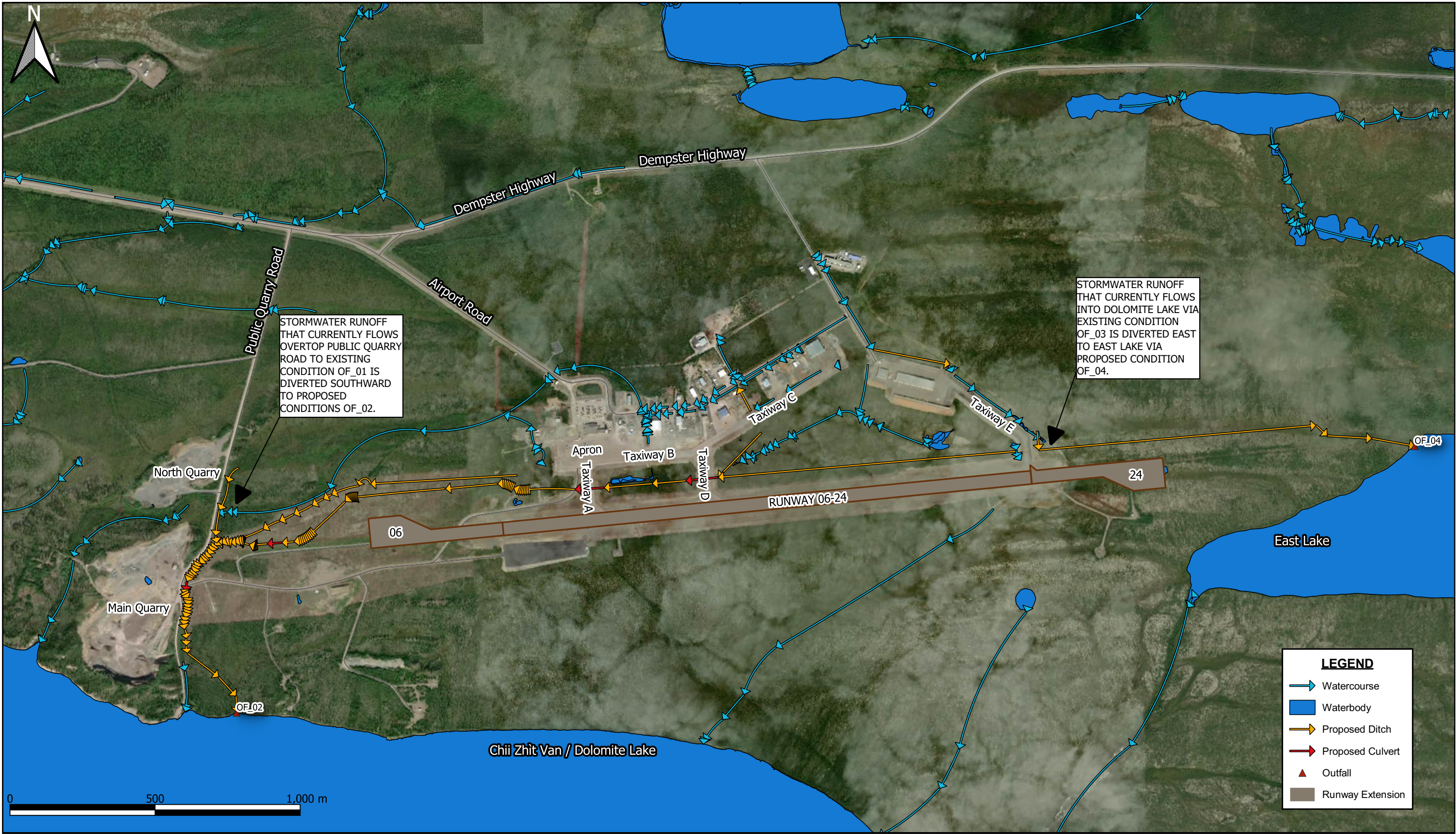
2. Existing, watercourse, waterbodies, and infrastructure shapefiles provided by the Government of Northwest Territories ATLAS.





Government of Northwest Territories

Project No.	2020-2886-00	INUVIK AIRPORT - CIVIL INFRASTRUCTURE IMPROVEMENTS & INUVIK MIKE ZUBKO AIRPORT RUNWAY 06-24 EXTENSION		
Scale:	1:12500			
Drawn:	N. VAN DER MARK			
Approved:	M. MACLATCHY	EXISTING DRAINAGE CONDITIONS		
Projection:	UTM ZONE 8N	DRAWING	REV NO.	SHEET
Date:	2023/02/21	FIGURE 1	A	



File: \\ae.ca\data\working\van\2019-2772-00\civil\model\GIS\QGIS\map_inuvik_airport_20200113_nv.qgz
Date: 2023-02-21T13:54:41.182

REVISIONS				
NO.	DATE	ENG	BY	SUBJECT

Notes

1. Precise alignment and location of ditches and culverts can be seen in the "ISSUED FOR TENDER WORK PACKAGE 3 & 4 - EMBANKMENT CONSTRUCTION AND AIRFIELD STORMWATER DRAINAGE" drawings.

Data Sources

1. Orthographic imagery courtesy of ESRI Satellite.

2. Existing, watercourse, waterbodies, and infrastructure shapefiles provided by the Government of Northwest Territories ATLAS.

Government of Northwest Territories

Project No.	2020-2886-00
Scale:	1:12500
Drawn:	N. VAN DER MARK
Approved:	M. MACLATCHY
Projection:	UTM ZONE 8N
Date:	2023/02/21

INUVIK AIRPORT - CIVIL INFRASTRUCTURE IMPROVEMENTS & INUVIK MIKE ZUBKO AIRPORT RUNWAY 06-24 EXTENSION		
PROPOSED DRAINAGE CONDITIONS		
DRAWING	REV NO.	SHEET
FIGURE 2	A	

ATTACHMENT C – EMAIL RESPONSES

Adrian Wasawo

From: Naomi Smethurst <Naomi_Smethurst@gov.nt.ca>
Sent: February 23, 2023 10:47 AM
To: Caitlin McKenzie
Cc: Rebekka Lindskoog
Subject: RE: Inuvik Airport - Archaeology Review

Hi Caitlin,

My apologies for the delay. We've reviewed the revised footprint and have no concerns.

Thank-you for forwarding us the information on the project for review.

Naomi

Mársi | Kinanāskomitin | Thank you | Merci | Hą́' | Quana | Qujannamiik | Quyanainni | Máhsi | Masi

Naomi Smethurst, MA

Assessment Archaeologist | Archéologue Assessment
NWT Cultural Places Program | Programme des sites culturels des TNO
Culture and Heritage | culture et patrimoine
Prince of Wales Northern Heritage Centre | Centre du patrimoine septentrional Prince-de-Galles
Education, Culture and Employment | Education, Culture et Formation
Government of the Northwest Territories | Gouvernement des Territoires du Nord-Ouest

PO Box 1320 | C.P. 1320
Yellowknife, NT X1A 2L9 Canada
Phone | Tél. : 867-767-9347, ext. 71255 | poste 71255
Fax | Téléc. : 867-873-0205
T: + 1-867-767-9347. Ext. 71255
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From: Caitlin McKenzie <mckenziec@ae.ca>
Sent: February 22, 2023 2:57 PM
To: Naomi Smethurst <Naomi_Smethurst@gov.nt.ca>
Cc: Rebekka Lindskoog <lindskoogr@ae.ca>
Subject: RE: Inuvik Airport - Archaeology Review

Hi Naomi,

Do you have a timeline for when we might receive a response on this?

Thank you,

Caitlin McKenzie, A.Ag., B.I.T.
Environmental Scientist
Associated Environmental Consultants Inc.
Suite 204 - 4109 4th Avenue, Whitehorse, YT Y1A 1H6
Tel: 867.456.2711 | Cel: 867.687.2854 | Dir: 867.457.5760



Associated
Environmental



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MANAGED
COMPANIES

Platinum
member

From: Naomi Smethurst <Naomi_Smethurst@gov.nt.ca>
Sent: February 15, 2023 10:26 AM
To: Caitlin McKenzie <mckenziec@ae.ca>
Cc: Rebekka Lindscoog <lindscoogr@ae.ca>
Subject: RE: Inuvik Airport - Archaeology Review

Hi Caitlin,

We will get back to you shortly,

Thanks,
Naomi

From: Caitlin McKenzie <mckenziec@ae.ca>
Sent: February 15, 2023 10:13 AM
To: Naomi Smethurst <Naomi_Smethurst@gov.nt.ca>
Cc: Rebekka Lindscoog <lindscoogr@ae.ca>
Subject: Inuvik Airport - Archaeology Review

EXTERNAL: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender's name and email address and know the content is safe.

Good morning Naomi,

Associated is assisting GNWT with the Inuvik Airport civil infrastructure improvements and runway extension project. The project requires that the footprint be extended beyond what may have been previously assessed for archaeology requirements.

See Figure 1, attached for the proposed footprint (labelled as work area boundaries).

The shapefile can be downloaded from this link: <https://smex-ctp.trendmicro.com:443/wis/clicktime/v1/query?url=https%3a%2f%2fassoceng%2dmy.sharepoint.com%2f%3af%3a%2fg%2fpersonal%2fmckenziec%5fae%5fca%2fEnZjlcSO6v5GnlfMwMsj4uMBL8BzWO46gb5zPB9keRa5YQ%3fe%3dx4HGPG&umid=3b95fc55-16dd-4175-808b-6599229e758c&auth=1c4337358902dda1e7c32be21da7d9106e0c1295-d668226890862cea27f6bba2c6c134bf64d69ede>

Can you review and let us know if you have any comments or concerns?

Also let me know if you have any issues downloading the shapefile. I noticed from a previous request that emails with zipped attachments do not go through to GNWT.

Thank you,

Caitlin McKenzie, A.Ag., B.I.T.

Environmental Scientist

Associated Environmental Consultants Inc.

Suite 204 - 4109 4th Avenue, Whitehorse, YT Y1A 1H6

Tel: 867.456.2711 | Cel: 867.687.2854 | Dir: 867.457.5760



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Environmental**



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Adrian Wasawo

From: Caitlin McKenzie <mckenziec@ae.ca>
Sent: March 23, 2023 10:39 AM
To: Michel Lindsay
Subject: RE: Inuvik Airport Runway Extension and Drainage Upgrades: Information Session

Good morning Michel,

I appreciate the response.

Have a good day,

Caitlin McKenzie, A.Ag., B.I.T.
Environmental Scientist

Associated Environmental Consultants Inc.

Suite 204 - 4109 4th Avenue, Whitehorse, YT Y1A 1H6
Tel: 867.456.2711 | Cel: 867.687.2854 | Dir: 867.457.5760



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member

From: Michel Lindsay <eisc@jointsec.nt.ca>
Sent: March 23, 2023 8:54 AM
To: Caitlin McKenzie <mckenziec@ae.ca>
Subject: Fwd: Inuvik Airport Runway Extension and Drainage Upgrades: Information Session

Good morning Caitlyn,

The Environmental Impact Screening Committee (EISC) is mandated to determine whether a development proposed in the Inuvialuit Settlement Region could have a significant negative impact to the environment or wildlife harvesting. Projects that could cause transboundary impacts within the Inuvialuit Settlement Region may also be considered by the EISC.

At this time, the EISC does not have any comments but will contact you if any concerns should arise.

Quyanainni - Thank you,

Michel Lindsay (she/her)
Coordinator, Environmental Impact Screening Committee
Joint Secretariat
L.F. Semmler Building, 2nd Floor
68 Mackenzie Road
PO Box 2120, Inuvik, Northwest Territories, Canada X0E 0T0
Phone: (867) 777-2828 Ext 2138
Fax: (867) 777-2610

Website: www.screeningcommittee.ca

Begin forwarded message:

From: Caitlin McKenzie <mckenziec@ae.ca>

Subject: FW: Inuvik Airport Runway Extension and Drainage Upgrades: Information Session

Date: March 22, 2023 at 4:58:13 PM MDT

To: "<eisc@jointsec.nt.ca>" <eisc@jointsec.nt.ca>

You don't often get email from mckenziec@ae.ca. [Learn why this is important](#)

Good afternoon,

I am following up on behalf of GNWT regarding the Inuvik Airport water licence pre-application notification letter that was sent on March 3, 2023.

Does the Inuvialuit Screening Committee have any feedback at this point in the application process?

The engagement period closes tomorrow, March 23.

Thanks,

Caitlin McKenzie, A.Ag., B.I.T.

Environmental Scientist

Associated Environmental Consultants Inc.

Suite 204 - 4109 4th Avenue, Whitehorse, YT Y1A 1H6

Tel: 867.456.2711 | Cel: 867.687.2854 | Dir: 867.457.5760



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member

From: Jon Posynick <Jon_Posynick@gov.nt.ca>

Sent: March 3, 2023 11:58 AM

Cc: Rebekka Lindscoog <lindscoogr@ae.ca>; Caitlin McKenzie <mckenziec@ae.ca>; Alexis Campbell <Alexis_Campbell@gov.nt.ca>

Subject: FW: Inuvik Airport Runway Extension and Drainage Upgrades: Information Session

Good Afternoon,

The Government of Northwest Territories – Department of Infrastructure (GNWT–INF) would like to advise you that the GNWT–INF is preparing to complete infrastructure upgrades and constructing a 914-metre runway extension at the Inuvik Mike Zubko Airport (Inuvik Airport). This work requires submission of an application for a Type B water licence to the Gwich'in Land and Water Board (the Board) and pre-consultation under Transport Canada's Canadian Aviation Regulations, Section 307.

Please see the attached notification letter which provides details about the project and an upcoming information session that will be held online on March 9th, 2023; an invitation to attend the info session will follow this email.

This notification formally initiates the engagement process for the water licence pre-application related to drainage upgrades at the Inuvik Airport and the pre-consultation process for the runway extension.

The purpose of the engagement is to provide the interested parties with information on the project and give them an opportunity to provide input and ask questions.

If you have comments or questions, please contact Alexis Campbell, Environmental Analyst, Department of Infrastructure, via telephone 867-767-9083 ext. 31055 or via email Alexis_Campbell@gov.nt.ca.

Thank you,

Jon

Mársı | Kinanāskomitin | Thank you | Merci | Hą́ı' | Quana | Qujannamiik | Quyanainni | Máhsı | Máhsı | Mahsi

Jon Posynick
Manager
Design and Technical Services – Environmental Affairs
Department of Infrastructure
Government of the Northwest Territories

4th floor, New Government Building
PO Box 1320
5015 49th Street
Yellowknife, NT X1A 2L9

Phone: 867-767-9083 Ext. 31052
www.gov.nt.ca

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Caitlin McKenzie

Subject: FW: Inuvik Airport

From: Rebekka Lindskoog
Sent: March 30, 2023 2:23 PM
To: 'leighann.williamsjones@gwichintribal.ca' <leighann.williamsjones@gwichintribal.ca>
Subject: RE: Inuvik Airport

Good afternoon – further to my email below and as requested by Kelly McLeod in the engagement meeting, see here a list of the general engagement activities completed for this project:

Date	Engagement Type	Summary of Engagement
February 18, 2020	Community open house presentation held at Community Hall: Inuvik Community Corporation	Presented an overview of the project including project objective, community involvement, project scope, project schedule, operational impacts, and next steps. Followed by a question and answer period followed.
February 19, 2020	Informal coffee and conversation meeting with Elders at the Mackenzie Grill	Provided information on project. Notable engagement included: -Patrice Stuart with Inuvialuit Community Economic Development Organization (ICEDO) provided a list of names of people to follow up with. -Fran Haughian with ICEDO was interested in local employment and training opportunities that the project could bring to the community. -Glen Alexie (Elder and GNWT ENR) noted that permafrost has left sumps everywhere and that the airport upgrades are necessary.
February 20, 2020	Meeting with local contractors at the airport terminal building (ATB)	Presented an overview of the project followed by a question and answer period.
September 2020	Visual poster displayed at the ATB	Displayed poster at the ATB included an aerial visual of the runway and taxiway widening and a cross section.
April 2021	Town hall presentation for stakeholders including the Inuvialuit Regional Corporation, Gwich'in Tribal Council, interested local community members, Town of Inuvik mayor, and contractors.	Presented an overview of the runway extension and updates on the civil infrastructure improvements, followed by a question and answer period.
March 2, 2023	Notification letter emailed to identified stakeholders	To support the Type B Water Licence for the airport drainage upgrades. Sent engagement letter which included a project overview and invitation to a Teams virtual information meeting
March 2, 2023	Newspaper ad posted in the Inuvik Drum.	Provided notification of project and virtual information session.

March 9, 2023	Virtual information session with identified stakeholders	Provided an overview of the project information and session followed by a question and answer period.
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Rebekka Lindskoog, R.P.Bio.
Manager, Northern Environment
Associated Environmental Consultants Inc.
Cel: 250.938.5528



From: Rebekka Lindskoog
Sent: March 9, 2023 2:54 PM
To: leighann.williamsjones@gwichintribal.ca
Subject: Inuvik Airport

Hi Leighann – thank you for your time today. As requested by Kelly McLeod in today’s meeting, I will compile the information about the pre-engagement for you.

I would be interested to understand how we could have done the land acknowledgment better.

Much appreciated.

Rebekka Lindskoog, R.P.Bio.
Manager, Northern Environment
Associated Environmental Consultants Inc.
Cel: 250.938.5528



ATTACHMENT D – NEWSPAPER ANNOUNCEMENT AND POSTER

Larga House eases medical travel



Staff of Larga House from the Beaufort Delta say hello and are ready to help Elders and anyone else who travels south for medical travel. From left, drivers Violet Greenland and Pat Kasook, hospitality-services staffer Patricia Arey-McCarthy, patient services and operations Denise Jerome and sous chef Emerald Modeste. Eric Bowling/NNSL photo

Edmonton facility aids Elders and others traveling to city for treatment

By Eric Bowling
Northern News Services

Medical problems can be scary, particularly as we get older and especially in remote parts of the country like the Beaufort Delta where emergencies usually require a trip to Edmonton for treatment.

This only complicates matters, as many people are not used to, or prepared for, the crowded chaotic streets of the big city, making the whole process quite daunting. And if you happen to have mobility or other health issues, it can be overwhelming.

Enter Larga House, a joint venture by the Gwich'in Development Corporation, Nunatsi-

aq Corporation and Kitikmeot Corporation, to provide Elders and Northerners with as many comforts as they can while staying down south.

"There's some some Elders that are well versed ... and quite comfortable coming to the city," said general manager Jenn Wilkinson. "And then there's some that may be a bit more anxious. If they require more assistance, or they just want to talk to people more, we're here to take care of them."

"We pick up at the airport, we bring them here and get them accommodated and settled. We also take them to all of their appointments, pick them up from appointments and make sure that they're comfortable. Maybe they don't have equipment with them to travel, maybe they need a walker or wheelchair — we would provide that, make sure that we have that available for them as well."

Located a short walk away from the Royal Alexandra Hospital in downtown Edmonton, Larga House aims to be a home away from home for Northerners.

It also allows many who have moved south for work, education or other opportunities to keep in touch with their roots. Some staff have been working at the facility for up to 30 years. Many have family connections with guests from up North.

"You can often hear staff on the phone saying things like 'I love you too,' — it's very meaningful for people," said Wilkinson. "But not only that, people will see other people that they grew up with in other communities. So you'll see guests connect and they'll say things like 'I haven't seen you since I was a little girl.' I think that's pretty cool."

Sporting an elevator, a fully staffed kitchen providing free breakfast, lunch and dinner daily, a prayer room and kitchenettes for those

who would like to cook for themselves, there is room for up to 56 people at any time in the building.

Wilkinson said on average of 400 to 600 guests a month, and that was steadily increasing.

Because of the close connection staff have with their guests, Wilkinson said the staff of Larga House were happy to go the extra mile to assist guests. From picking patients up at the airport to helping Elders with mobility issues around the city to getting emergency items ranging from toothbrushes to medication, the services offered to those in need are endless. Guests are given a survey at the end of their stay to provide feedback on what they liked and what can be improved, and Wilkinson said guests can raise concerns with staff at any time.

Making the medical travel experience a more friendly experience with familiar faces also provides emotional support for guests, noted Wilkinson, as many Elders who come down get a chance to see old friends and relatives they may not have seen for some time.

"If you talk to a majority of staff that work here, a lot of them will say they've come here for this reason, because they want to provide services to people from home," she added. "It absolutely makes a difference for somebody's grandma, grandpa, uncle, aunt, sister or brother. I think people feel more appreciated being provided services by people that they know from their communities."

"These hospitals have more people in them than in some communities, at least some that I've lived in. So it's really overwhelming. I think when guests see people from home they know they're going to be looked after and be cared for. People here understand."

Virtual Information Session

Inuvik Mike Zubko Airport runway extension and drainage upgrades

The Government of Northwest Territories is inviting stakeholders to attend a virtual information session on the Inuvik Mike Zubko airport runway design and drainage upgrades.

This work requires submission of an application for a Type B Water Licence and pre-consultation under Transport Canada's Canadian Aviation Regulations.

Join us virtually to share your feedback and ask questions.

Where: Online (Microsoft Teams)

When: Thursday, March 9, 2023 at 3 p.m.

To RSVP or for more information, please email:
Alexis_Campbell@gov.nt.ca

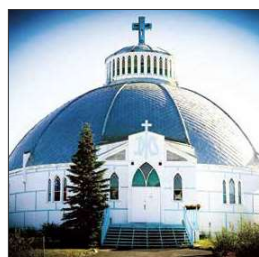
Community Calendar

Igloo Church

- Services in main church — when daily service is in church hall, hall lights will be on
- Sunday mass - 11 a.m.
- Weekday Masses: Feb 23, 24 and Mar 1, 2, 3 at 6:30 pm

Hope House

- Drop-in centre hours 9 a.m. to 9 p.m.
- Monday through Friday
- Located at 83 Inuit Road
- Phone



To have an event listed in this free feature, call 867-777-4545, or email inuvikdrum@nnsi.com. Submissions should be received two weeks prior to the event. Non-profit or community events only please. There is no guarantee submissions will be published.





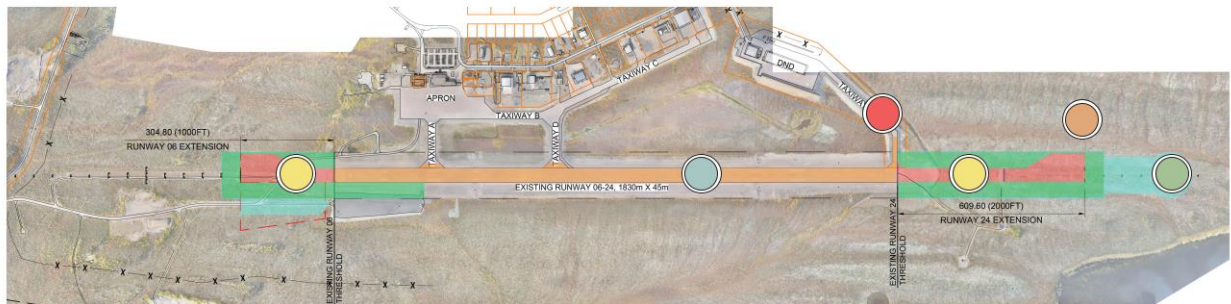
Canadian Aviation Regulations, Section 307.04 (1): Runway 06-24 Extension

To: Inuvik (Mike Zubko) Airport Stakeholders

The Government of Northwest Territories (GNWT) is completing infrastructure upgrades and constructing a 914-metre runway extension of Runway 06-24 at the Inuvik Mike Zubko Airport (Inuvik Airport).

Work to be completed includes:

- Extending Runway 06-24 by 914 metres, including aircraft turning bays at each end of the runway, to increase the capability of the airport
- Resurfacing the existing runway, taxiway, and apron pavements to increase airport efficiency
- Improving airfield lighting and electrical systems
- Implementing new pavement markings
- Widening the runway safety area to meet current Transport Canada standards
- Widening Taxiway C to accommodate larger aircraft (Aircraft Group Number IV)
- Improving airport stormwater drainage so that it directs runoff away from runway and taxiways, and prevents standing water from negatively affecting the permafrost
- Developing climate design information for the runway that considers the impacts of climate change.



Mittarvik takliyaksaq / Iitsii Nahandit'ee Gwitaii Gwindoo
Ninjuu Tr'igwahahtsah / Runway Extension / Prolongement
de la piste



Nutaat mittarvium qul'lingit / Iitsii Nahandit'ee Gwitaii
Gwi'aadrii K'eejit / New Runway Lighting / Nouveau balisage
de piste



Savaqilugu Tingmiyualuit Apqutingat E Imiktaq / Iitsii
Nahandit'ee Gwitaii E Goo'aii Sreetr'iheelyah / Repair
Taxiway E Settlement / Réparation de l'affaissement de la
voie de circulation E



Nutaamik Savangniagaat Immam Supiviksaanik / Ahchin
Gwichu' Gwizhit Niinlaih Geenjit Goo'aii K'eejit / New
Stormwater Infrastructure / Nouvelles infrastructures de
drainage des eaux de ruissellement



Nuktaqtat Nalunaitkutut / Nijin Ts'aii Iitsii Nahandit'ee
Nahdinaadhak Geenjit Gwits'at Tr'injii Ejuk Nitr'inji'aih
/ Relocated Navigational Aids / Aides à la navigation
déplacées



This project includes necessary upgrades to the drainage system that will change drainage paths and discharge locations of runoff from the Inuvik Airport and upland areas. This work requires submission of an application for a Type B water licence to the Gwich'in Land and Water Board, and pre-consultation under Transport Canada's Canadian Aviation Regulations, Section 307.

Early engagement related to the infrastructure upgrades at the Inuvik Airport was done in 2020 and took place as informal meet-and-greets with Indigenous Knowledge holders, an open house presentation for local residents, businesses, and contractors, and a meeting with local contractors. The purpose of this engagement is to provide interested parties with information on the project and give them an opportunity to provide input and ask questions.

Project Schedule

Runway construction is anticipated to begin May 1, 2023 and be completed by December 30, 2027. Drainage improvements are anticipated to begin August 1, 2023 (or following issue of the water license) and be completed by September 30, 2024.

Interested Party Feedback Period

The GNWT-INF understands the importance of engaging with any potentially interested parties, and encourages feedback, questions, or concerns as it relates to the Runway 06-24 extension and civil infrastructure improvements project. Information received will be considered and provided to the project team for awareness.

Please submit inquiries via one of the following ways by:

- **March 23, 2023** for feedback related to the water license
- **April 16, 2023** for feedback related to the runway extension

Via Email:

Alexis Campbell, Environmental Analyst
Government of Northwest Territories – Department of Infrastructure
Alexis.Campbell@gov.nt.ca

Via Mail:

Government of Northwest Territories – Department of Infrastructure
PO Box 1320
5015 49 Street
Yellowknife, NT 0X1A 2L9
RE: Alexis Campbell



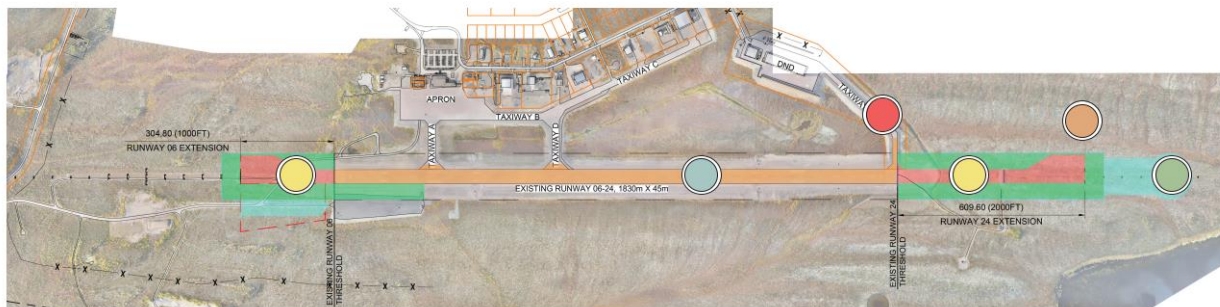
Règlement de l'aviation canadien, article 307.04 (1) : prolongement de la piste 06-24

Aux : Parties intéressées de l'aéroport d'Inuvik (Mike Zubko)

Le gouvernement des Territoires du Nord-Ouest (GTNO) effectue la modernisation des infrastructures et le prolongement de 914 mètres de la piste 06-24 de l'aéroport Mike Zubko d'Inuvik (aéroport d'Inuvik).

Les travaux comprennent notamment :

- Prolongement de la piste 06-24 de 914 mètres, y compris les aires de virage des avions à chaque extrémité de la piste, afin d'accroître la capacité de l'aéroport;
- Resurfacement des pistes, voies de circulation et aires de trafic existantes afin d'accroître l'efficacité de l'aéroport;
- Modernisation du balisage lumineux et du système électrique;
- Traçage de nouvelles marques de chaussée;
- Élargissement de l'aire de sécurité de la piste pour répondre aux normes actuelles de Transports Canada;
- Élargissement de la voie de circulation C pour accueillir des avions plus grands (numéro de groupe d'aéronefs IV);
- Amélioration du drainage des eaux pluviales de l'aéroport de manière à éloigner les eaux de ruissellement des pistes et des voies de circulation et à éviter que l'eau stagnante n'affecte le pergélisol;
- Collecte d'informations climatiques techniques pour la piste qui tiennent compte du changement climatique.



 Mittarvik takliyaksaq / Iitsii Nahandit'ee Gwitaii Gwindoo Ninjuu Tr'igwahahtsa / Runway Extension / Prolongement de la piste

 Nutaat mittarvium qul'ingit / Iitsii Nahandit'ee Gwitaii Gwi'aadrii K'eejit / New Runway Lighting / Nouveau balisage de piste

 Savaqilugu Tingmiyualuit Apqutingat E Imiktaq / Iitsii Nahandit'ee Gwitaii E Goo'aii Sreetr'ihelyah / Repair Taxiway E Settlement / Réparation de l'affaissement de la voie de circulation E

 Nutaamik Savangniagaat Immam Supiviksaanik / Ahchin Gwichu' Gwizhit Niinlaii Geenjit Goo'aii K'eejit / New Stormwater Infrastructure / Nouvelles infrastructures de drainage des eaux de ruissellement

 Nuktaqtat Nalunaitkutut / Nijin Ts'aii Iitsii Nahandit'ee Nahdinaadhak Geenjit Gwits'at Tr'injii Ejuk Nitr'inji'aih / Relocated Navigational Aids / Aides à la navigation déplacées

Ce projet comprend les améliorations nécessaires du système de drainage qui modifieront les voies d'écoulement et les lieux d'évacuation des eaux de ruissellement provenant de l'aéroport d'Inuvik et des hautes terres. Ces travaux exigent la présentation d'une demande de permis d'utilisation des eaux de type B à l'Office des terres et des eaux des Gwich'in et une consultation préalable conformément au Règlement de l'aviation canadien, article 307, de Transports Canada.

Les premiers échanges liés à la modernisation des infrastructures de l'aéroport d'Inuvik ont eu lieu en 2020 et ont pris la forme de rencontres informelles avec les détenteurs du savoir traditionnel, d'une journée portes ouvertes pour les résidents, les entreprises et les entrepreneurs locaux, et d'une réunion avec les entrepreneurs locaux. L'objectif de ces échanges est de fournir aux parties intéressées des informations sur le projet et de leur donner l'occasion d'apporter leur contribution et de poser des questions.

Calendrier d'exécution

La construction de la piste devrait commencer le 1^{er} mai 2023 et être achevée le 30 décembre 2027. Les travaux d'amélioration du drainage devraient commencer le 1^{er} août 2023 (ou après la délivrance du permis d'utilisation des eaux) et être achevés le 30 septembre 2024.

Période de rétroaction des parties intéressées

Le GTNO et le ministère de l'Infrastructure comprennent l'importance d'échanger avec toutes les parties potentiellement intéressées, et sollicitent des commentaires, des



questions ou des préoccupations concernant le projet de prolongement de la piste 06-24 et d'amélioration des infrastructures civiles. Les informations reçues seront examinées et communiquées à l'équipe du projet.

Veillez soumettre vos demandes de renseignements d'ici le :

- **23 mars 2023** pour des commentaires sur le permis d'utilisation des eaux;
- **16 avril 2023** pour des commentaires sur le prolongement de la piste.

Par courriel :

Alexis Campbell, analyste de l'environnement
Gouvernement des Territoires du Nord-Ouest – Ministère de l'Infrastructure
Alexis.Campbell@gov.nt.ca

Par la poste :

Gouvernement des Territoires du Nord-Ouest – Ministère de l'Infrastructure
C. P. 1320
5015, 49^e Rue
Yellowknife NT X1A 2L9
A/S : Alexis Campbell

ATTACHMENT E – VIRTUAL INFORMATION SESSION PRESENTATION



Inuvik Airport

Runway 06-24 Extension & Civil Infrastructure Improvements – Stakeholder Information Session

Government of Northwest Territories

March 09, 2021

1

Land Acknowledgement

2

Agenda

- Introductions
- Consultation & Project Objectives
- Project Scope
- Project Schedule
- Water License
- Q & A



3

Introductions

4

Consultation & Project Objectives

5

Consultation Objectives

- Provide stakeholders with information regarding the project
- Meet Transport Canada CAR 307 requirements for the runway extension
- Obtain feedback related to the Inuvik Airport water license from the Gwich'in Land and Water Board
- Conduct consultation required by the Government of Northwest Territories to obtain the Inuvik Airport water license



6

Project Objectives

- Strengthen the Inuvik Airport's resilience against climate change and extreme weather
- Protect and maintain essential infrastructure and allow continued safe aircraft operations
- Complete a 3000 ft runway extension while maintaining safe and constant aircraft operational conditions
- Update airport electrical infrastructure, lighting systems, Nav Canada facilities



7

Project Scope

8

Runway 06-24 Extension

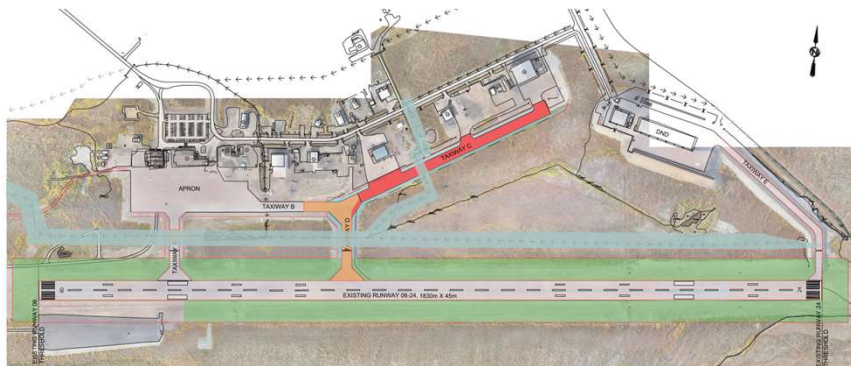


- Runway 06-24 Extension - 1,500' X 150' at each end
- New Stormwater Infrastructure
- New Airfield Lighting; Runway, Taxiways, Apron, Approach Lighting
- Relocated Navigational Aids
- Taxiway E Rehabilitation



9

Civil Infrastructure Improvements



- Taxiway C Widening and Relocation
- Taxiway B and D Rehabilitation
- Runway Safety Area Widening
- Stormwater Improvements



10

Project Scope

- Runway extension grading, granular base, and pavement structure using fill obtained from airport quarry including aircraft turnarounds at each end of the runway
- Resurfacing existing runway, taxiway, and apron pavements, and pavement markings
- Airfield drainage system improvements, relocation of Nav Canada facilities, and airfield electrical system & lighting improvements
- Widening Taxiway C to accommodate larger aircraft (AGN IV)
- Widening runway safety area to meet current Transport Canada requirements



11

Project Scope con't

- Thermal analysis of the extension area completed to determine the potential impact to the runway extension over the next 50 years.
- Design and construction sequence consider mitigative and adaptive measures for the protection of the permafrost regime below the runway extension and strip surface.
- Drainage solution to the problem of an existing dip in the Taxiway E surface near the runway.



12

Project Scope con't

- Direct surface drainage away from runway and strip infrastructure and prevent ponding water from impacting the permafrost regime.
- Establish proper drainage channels to accommodate changes in hydrology both within and beyond airport boundaries
- Establish drainage outfall structures to slow velocity and increase water quality before discharge



13

Project Scope con't

- Ensure regulatory compliance.
- Consider possible future airport development to avoid unnecessary re-work at a later date



14

Project Schedule

15

Project Schedule

Work Package	2022	2023	2024	2025	2026	2027
WP1 Clearing and Tree Removal	Minor					
WP2A Advance Works	Major	Major				
WP3&4 Embankment Construction & Airfield Drainage		Major	Major	Minor		
WP5A Advance Contract - Airfield Electrical		Minor	Minor	Minor		
WP5B Airfield Electrical					Major	Major
WP5C Field Electric Centre				Major		
WP6A Advance Contract - Airfield Pavements		Minor				
WP6B Airfield Pavements				Minor	Major	Major
WP6C Pavement Markings						Minor



16

Water License

17

Water License Application

- Drainage system improvements require realignment of ditches and culverts to maintain proper airfield drainage and avoid standing water
- The Airport does not currently hold a water license
- A water license application is being submitted to address a change in flow patterns and ensure environmental regulatory requirements are met



18

Current Drainage Conditions



19

Proposed Drainage Conditions



20

Water License Application

- The drainage design includes several erosion control measures:
 - Ditch armoring
 - Check dams
 - Screened rock culvert aprons
 - Outfall structures
 - Hydroseeding
- Temporary erosion and sediment control measures and water quality testing will be implemented during construction



21

Water License Application

- Work which may impact water quality released directly to the environment (such as new ditches and outfalls) will be completed after the water license is issued
- The water license may also dictate:
 - Construction staging limitations
 - Additional or more frequent water quality testing
 - Spill contingency requirements



22

Water License Application

- Project team anticipates application submission by early April 2023



23

Feedback

24

Stakeholder Feedback

- Please submit feedback related to the water license by **March 23, 2023**
- Please submit feedback related to the runway extension by **April 16, 2023**
 - By email: Alexis_Campbell@gov.nt.ca
 - By mail: Government of Northwest Territories
Department of Infrastructure
PO Box 1320
5015 49 Street
Yellowknife, NT X1A 2L9



25

Q & A Session

26

ATTACHMENT F – VIRTUAL INFORMATION RECORD OF MEETING

Inuvik Airport Runway Extension and Drainage Upgrades: Information Session
Record of Meeting

Date: March 9, 2023

Time: 3 PM MT

1 ATTENDEES

Table 1-1 Virtual Information Session Attendees

Name	Organization
Rebekka Lindscoog	Associated
Brandon Martin	Associated
Dave Anderson	Associated
Nicola Van Der Mark	Associated
Michael MacLatchy	Associated
Charlotte Brockman	GNWT-INF
Alexis Campbell	GNWT-INF Environmental Affairs
Rodney Hildebrandt	GNWT-INF
Tim Nichols	GNWT-INF
Dennis Rajasekar	GNWT-INF
Hareg Omer	GNWT-INF
Jason MacNeil	GNWT-INF
John Clark	GNWT-INF
Dana Moran	GNWT Department of Municipal and Community Affairs
Norman Snowshoe	GNWT- Environment and Climate Change
Kristi Benson	Aurora Research Institute
Leigh-Ann Williams	Gwich'in Tribal Council
Darren Campbell	Gwich'in Tribal Council
Myron Thiessen	Government of Canada Department of National Defence
Ken McIntyre	Government of Canada Department of National Defence
Grant Hood	Town of Inuvik
Jen Reynolds	Air Tindi
Kelly McLeod	Nihtat Gwich'in Council

Associated – Associated Group; GNWT – Government of Northwest Territories; INF – Department of Infrastructure

2 PRESENTATION

2.1 INTRODUCTIONS

Associated Engineering (BC) Ltd. and Associated Environmental Consultants Ltd.

- Brandon Martin
- Dave Anderson
- Rebekka Lindscoog
- Nicola Van der Mark
- Michael Maclatchy

GNWT-INF

- Rod Hildebrant
- Charlotte Brockman

2.2 PRESENTATION CONTENT

Brandon presented PowerPoint presentation (attached on page 19)

- **Consultation Objectives**
- **Project Objectives**
- **Project Scope**
- **Extension**
- **Water Licence**
 - Avoids standing water
 - The airport does not currently have a water licence
 - Submitted because of change in flow patterns and to ensure environmental regulatory requirements are met
- **Current drainage conditions**
 - Towards Dolomite Lake
- **Proposed drainage conditions**
 - Increase distance on airside to improve drainage and avoid ponding
 - East ditch to East Lake
- **Erosion control measures**
 - Construction sediment and erosion control plan and water quality monitoring
- **Work scheduled after water licence**
- **Water licence may dictate:**
 - Construction limitations
 - Additional or more frequent WQ testing
 - Spill contingency
- **Water licence application is in the works**
 - Plan to submit early April 2023
- **Feedback will be incorporated from this session and affected stakeholders**
- **Two different engagement deadlines**
 - Water licence by March 23
 - Runway extension by April 16

Confirmed that everyone on the call had the letter and contact information for Alexis Campbell.

3 QUESTIONS, ANSWERS, AND COMMENTS

Table 3-1 Questions, Answers, and Comments Received During the Information Session

Question or Comment	Answer
Leigh-Ann Williams-Jones, Gwich'in Tribal Council: <ul style="list-style-type: none"> Stakeholder feedback by March 23 – apply in April? 	Associated: <ul style="list-style-type: none"> Part of engagement log will be included in the water licence application
Grant Hood, Town of Inuvik: <ul style="list-style-type: none"> Would like to be kept up to date with paving to coordinate with town paving Quarry – for expansion – do they know if it must go North and infringe on that quarry? Town had a lease on it and some granular material in there. 	Dave Anderson, Associated: <ul style="list-style-type: none"> Will make note of that North quarry has higher quality material – will keep Grant in the loop and will make note of the existing stockpile
Grant Hood, Town of Inuvik: <ul style="list-style-type: none"> Not sure how much is there, could move all into town Losing quarry has high impact on the town – hoping something left for them 	Dave Anderson, Associated: <ul style="list-style-type: none"> Will work towards optimizing both quarries and will reach out about existing stockpiles
Ken McIntyre, DND – Yellowknife : <ul style="list-style-type: none"> Would also like info on paving schedule to coordinate. 	Associated: <ul style="list-style-type: none"> Noted
Kristi Benson, Aurora Research Institute: <ul style="list-style-type: none"> Some of the terms used were technical, like "check dam". Can you go back to that slide and explain those in a bit more plain-language terms and why they would be chosen/used? If there isn't time now, please include this information in your application. 	Nicola Van Der Mark, Associated: <ul style="list-style-type: none"> Described check dam and how it reduces water flow velocities
Kelly McLeod, NGC <ul style="list-style-type: none"> What is the team going to be doing to engage with Indigenous communities? Land Acknowledgment could be modified. 	Rebekka Lindscoog, Associated: <ul style="list-style-type: none"> Rebekka described engagement completed in 2020. Kelly would like copies of that documentation sent to Leigh-Ann Williams-Jones, Gwich'in Tribal Council. Associated emailed this summary on

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Question or Comment	Answer
	<p>March 30, 2023 but did not receive a response.</p> <ul style="list-style-type: none"> • Sent an email to Leigh-Ann Williams-Jones, Gwich'in Tribal Council on March 9, 2023 asking how the land acknowledgement could have been improved. No response was received.
<p>Grant Hood, Town of Inuvik:</p> <ul style="list-style-type: none"> • Is it possible to get a copy of the presentation? 	<p>Associated:</p> <p>Yes.</p>

Meeting ended: 3:42 pm MT