



November 4, 2022

BY EMAIL

Mark Cliffe-Phillips
Executive Director
Mackenzie Valley Environmental Impact Review Board
200 Scotia Centre
PO BOX 938
YELLOWKNIFE NT X1A 2N7

Dear Mark Cliffe-Phillips:

Government of the Northwest Territories' 2021 annual environmental assessment measures report for the Tłı̨chǫ All-season Road Project (EA1617-01, Measures 14-1 and 14-2)

On behalf of the Government of the Northwest Territories (GNWT), we are pleased to provide the 2021 annual environmental assessment measures report (the Annual Report) for the Tłı̨chǫ All-season Road Project. The Annual Report describes the implementation of measures directed to the developer (Measure 14-1) and to the GNWT (Measure 14-2), as required by EA1617-01. Where the measures are directed to the developer, the Department of Infrastructure (INF) has provided the response; where the measures are directed to the GNWT or specific departments within the GNWT, departments with mandates related to the measure have provided the response.

The Annual Report lists all measures as adopted by the responsible ministers and Tłı̨chǫ Government and summarizes the GNWT action to date, along with links to relevant documents. Suggestions from EA1617-01 directed to the developer or the GNWT are being considered as appropriate and are not captured in the Annual Report. For continuity with the 2020 Annual

Report, submitted on October 25, 2021, the reporting period covers activities between August 1, 2021 and July 31, 2022. The GNWT shared this submission with the Tłchq Government staff and has not received any comments.

Should the Mackenzie Valley Environmental Impact Review Board or any parties have any questions, please contact Marie-Christine Belair, Project Assessment Analyst, by email at Marie-Christine_Belair@gov.nt.ca or (867) 767-9180 Ext. 24025, or Benjamin Bey, Environmental Analyst, by email at Benjamin_Bey@gov.nt.ca or by phone at (867) 767-9083 Ext. 31058.

Sincerely,



Lorraine Seale
Director, Securities and
Project Assessment
Lands



Muhammad Abu Bakar
A/Manager, Surface Design and
Construction
Infrastructure

Attachment

- 2021 annual environmental assessment measures report for the Tłchq All-season Road Project.



Government of the Northwest Territories'

Tłıchq All-Season Road Project
2021 Annual Environmental Assessment Measures
Report

(as required by Measures 14-1 and 14-2)

EA1617-01

SUBMITTED TO

Mackenzie Valley Environmental Impact Review Board

200 Scotia Centre, P.O. Box 938

YELLOWKNIFE, NT X1A 2N7

November 4, 2022

Tłıchǫ All-Season Road: GNWT Annual Environmental Assessment Measures Report

This tabular report summarizes the Government of the Northwest Territories' (GNWT) 2021-2022 performance on twenty-three Tłıchǫ All-Season Road (TASR, the Project) environmental assessment measures (EA1617-01). Reporting is made on behalf of the GNWT, both as the developer (Measure 14-1) and as Government and Regulatory Authorities (Measure 14-2). For reference, the reporting period spans from August 1, 2021 to July 31, 2022.

The measures that stipulated annual reporting be provided to the Mackenzie Valley Environmental Impact Review Board (the Review Board) are as follows:

MEASURE		MEASURE SPECIFICS
Adaptive management, follow-up, and monitoring		
Measure 14-1	Annual reporting from the developer	<p>To demonstrate how measures are being implemented and to evaluate the effectiveness of the developer's efforts to prevent or minimize impacts on the environment, the developer will, throughout all phases of the development, prepare an annual report on the implementation of measures. The report will address the measures that the developer is responsible for and will:</p> <p>a) describe the actions, including actions implemented through adaptive management, being undertaken to implement the measures; and, b) evaluate how effective the implementation actions are in reducing or avoiding the impact (considering the results of monitoring programs and adaptive management frameworks). Where applicable, provide references to further information contained in other management plans or monitoring reports.</p> <p>The developer will provide its annual report to the Review Board one year from the date of the final approval of this <i>Report of Environmental Assessment</i>, and annually thereafter.</p>
Measure 14-2	Annual reporting from government and regulatory authorities	<p>To help evaluate the effectiveness of mitigation measures for the protection of the environment, each regulatory authority or government that is wholly or partly responsible for implementation of any measure in this <i>Report of Environmental Assessment</i> will prepare an annual report on implementation of measures. The report will:</p> <p>a) describe the actions being undertaken to implement the measures or the part(s) of the measures for which the regulatory authority or government is responsible; and, b) explain how these actions, including those implemented through adaptive management, fulfill the intent of the EA measures, including consideration of the following questions:</p> <p style="padding-left: 20px;">i. How are implementation actions addressing a likely significant adverse impact on the environment? ii. How effective are implementation actions at reducing or avoiding the impact or its likelihood?</p> <p>Government and regulators are only responsible for reporting on the implementation actions they take, not actions taken by the developer. For example, if a regulator does not issue an authorization, provide direction to the developer, approve a management plan, or take other actions that relate to an EA measure(s) in a given year, the regulator will not need to submit a report for that year.</p> <p>The governments and regulators will provide their annual reports to the Review Board one year from the date of the final approval of this <i>Report of Environmental Assessment</i>, and annually thereafter.</p>

DESCRIPTION OF HOW MEASURES ARE BEING SATISFIED AND UNDER WHICH MEASURE (14-1 OR 14-2) THE REPORT IS BEING MADE

MEASURE		MEASURE SPECIFICS
Community well-being		
Measure 5-1	<p>Developer's support of monitoring and adaptive management of adverse health and well-being impacts</p> <p>Part 1 Monitor adverse health and well-being impacts to the Community of Whatì</p> <p>Part 2 Reporting</p> <p>Part 3 Adaptive management and re-evaluation</p>	<p>5-1. Part 1: Monitoring adverse health and well-being impacts to the Community of Whatì</p> <p>To inform mitigation of significant cumulative and project-specific adverse impacts on the health and well-being of the Community of Whatì, the developer will support the Tłıchǝ Government and Community Government of Whatì in the monitoring and evaluation of direct and indirect impacts of the Project on the health and well-being of the Community of Whatì. These will include:</p> <ul style="list-style-type: none"> the anticipated initial spike in harmful behaviours associated with increased access to drugs and alcohol; traffic accidents on the road; change in safety of young women and other vulnerable groups; and, change in harvest success rates and availability of country foods in Whatì. <p>Monitoring will meet the requirements of Appendix C.</p> <p>5-1. Part 2: Reporting</p> <p>The developer will support the Tłıchǝ Government and Community Government of Whatì in preparing an annual progress report on their efforts to mitigate impacts on health and well-being to the Community of Whatì.</p> <p>5-1 Part 3: Adaptive management and re-evaluation</p> <p>The developer, in collaboration with the Tłıchǝ Government and Community Government of Whatì, will support the adaptive management of health and well-being impacts, following guidance in Appendix B.</p> <p>The developer will support the Tłıchǝ Government and Community Government of Whatì, in the monitoring, engagement, reporting and adaptive management described in this measure for each year of construction and for a minimum of ten years of Project operations.</p>

DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE

2020-2021 DETAIL ON MEASURE PROGRESS	2021-2022 DETAIL ON MEASURE PROGRESS
<p>This Measure is directed to the developer, reporting under Measure 14-1</p> <p>a) 5-1 Part 1: Monitoring adverse health and well-being impacts to Whatì: The developer continues to provide funding for a position within the GNWT for the implementation and adaptive management of the framework to monitor any health and well-being impacts associated with the road.</p> <p>5-1 Parts 2 and 3: Reporting and adaptive management: The developer will continue to support and collaborate with the TG, the CGW, the CGB, the TCSA and GNWT-HSS as the monitoring framework nears finalization and a schedule for public engagement and reporting is completed. Following implementation, the plan will be monitored, reviewed and adapted as necessary.</p> <p>b) It is still too early to determine the effectiveness of the actions taken as the monitoring has not yet been fully prepared or implemented.</p>	<p>This Measure is directed to the developer, reporting under Measure 14-1</p> <p>a) 5-1 Part 1: Monitoring adverse health and well-being impacts to Whatì: The developer continues to provide funding for a position within the Government of the Northwest Territories (GNWT) for the development of a monitoring and adaptive management framework associated with the road. This funding continues until 2024. The developer is working with GNWT-Health and Social Services (HSS) to improve support for implementation, including long-term planning and financial contributions. The developer is working to provide long-term support for the Tłıchǝ Government (TG), the Community Government of Whatì (CGW) and the Community Government of Behchokǝ (CGB), and the Tłıchǝ Community Services Authority (TCSA) alongside the GNWT-HSS.</p> <p>5-1 Parts 2 and 3: Reporting and adaptive management: The developer is working to provide long-term support for the TG, the CGW and CGB, and the TCSA alongside the GNWT-HSS for reporting. The developer will include social and health issues in the Corridor Working Group Discussions in addition to the existing health and well-being working group that implements Measures 5-1 and 5-2.</p> <p>b) As the road has been open for one year, it is still too early to properly assess effectiveness of the actions already taken. However, preliminary concerns from the community may require immediate actions to ensure that mitigation measures are implemented to address these concerns related to the opening of the road. The developer and GNWT-HSS have identified areas that need improvement and have received feedback from the working group about the need for adequate plans to implement the program for the period outlined in the Measure.</p>

MEASURE		MEASURE SPECIFICS
Community well-being		
Measure 5-2	<p>Tłchq monitoring, engagement and reporting of adverse health and well-being impacts</p> <p>Part 1 Tłchq monitoring of adverse health and well-being impacts</p> <p>Part 2 Public engagement</p> <p>Part 3 Reporting</p>	<p><u>5-2, Part 1: Tłchq monitoring of adverse health and well-being impacts</u> The Tłchq Government, Government of the Northwest Territories, Tłchq Community Services Agency and Community Government of Whatì, with the support of the developer, will establish and implement a framework to monitor and evaluate health and well-being impacts associated with the road, and will adaptively manage health and well-being impacts as described in Measure 5-1 and following guidance in Appendices B and C, for each year of construction and for a minimum of ten years of operations. Following ten years of Project operations, the Community Government of Whatì, Government of the Northwest Territories, Tłchq Community Services Agency and Tłchq Government in collaboration with the developer, will re-evaluate the need for, and frequency of, monitoring, engagement, reporting and adaptive management. If the monitoring of harvest success rates and availability of country foods in Whatì (in Measure 5-1, Part 1, above) indicates a declining trend in harvest success and the consumption of country foods, the Tłchq Government and the Community Government of Whatì will develop and implement a strategy to address the decline in the availability of country foods for those most affected.</p> <p><u>5-2, Part 2: Public engagement</u> The Tłchq Government, Government of the Northwest Territories, Tłchq Community Services Agency and Community Government of Whatì, with the participation of the developer and the P3 operator, will meet with the residents of Whatì at least once per year to discuss: a) priority health and well-being impacts at the individual, family and community level related to the Project; b) the effectiveness of programs or mitigations used to address these impacts; and, c) the need to adjust programs or implement additional mitigations.</p> <p><u>5-2, Part 3: Reporting</u> The Tłchq Government, Government of the Northwest Territories, Tłchq Community Services Agency and Community Government of Whatì, with the support of the developer, will prepare and make publicly available an annual progress report on their efforts to mitigate impacts on health and well-being to the Community of Whatì. The report will describe engagement, current management and plans for future adaptive management. The findings of the report will be presented to the residents of Whatì, provided to the Whatì Inter-Agency Committee and provided to the Tłchq All-Season Road Corridor Working Group (see Measure 14-3).</p>
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This Measure is directed at the Tłchq Government, TCSA and whole of the GNWT (with support of the developer). As such, it is being reported on under both Measures 14-1 and 14-2.</p> <p>Reporting under Measure 14-1</p> <p>a) The developer continues to provide funding for the implementation and adaptive management of the framework to monitor any health and well-being impacts associated with the road, including ongoing collaboration with the TG, CGW, CGB, the TCSA and the GNWT as the monitoring framework nears finalization.</p> <p>b) It is still too early to determine the effectiveness of the implementation actions, as road operations have not yet commenced.</p> <p>Reporting under Measure 14-2</p> <p>a) Collaboration between the Tłchq Government, the TCSA, the CGW and the GNWT-HSS on the development and implementation of a monitoring framework, for evaluating and responding to health and well-being impacts associated with the road, continues and is nearing completion. Baseline data has been collected and a suite of indicators to monitor, including response thresholds and mitigative actions, have been identified and is nearly complete, with the objective of responding to and mitigating potentially adverse impacts associated with the operations of the road.</p> <p>b) The responsible governments continue to collaborate on finalizing a framework for monitoring and evaluating health and well-being impacts, which is very nearly complete. It remains too early to assess how effective the identified implementation actions are with respect to reducing or avoiding impacts, as operations of the road have not yet commenced.</p>		<p>This Measure is directed at the Tłchq Government, TCSA and whole of the GNWT (with support of the developer). As such, it is being reported on under both Measures 14-1 and 14-2.</p> <p>Reporting under Measure 14-1</p> <p>a) The developer funded one position in the GNWT-HSS to support the coordination of this work from late 2019 onwards. GNWT-HSS provided preliminary funds to support work on Measure 5-1 and 5-2 for the period of March 2021 through March 2023. The developer and GNWT-HSS are working together to identify a long-term plan for implementation funding to support the monitoring framework based on information provided from the Tłchq Government and the Community Government of Whatì and the Community Government of Behchokò.</p> <p>b) As the road nears one year of operations it is too early to determine with confidence the effectiveness of implementation. It is evident, however, that further work and immediate action is required to ensure that mitigations are implemented to address preliminary concerns related to the opening of the road.</p> <p>Reporting under Measure 14-2</p> <p>a) The Tłchq Government, Government of the Northwest Territories, Tłchq Community Services Agency (TCSA), Community Government of Whatì (CGW) and Community Government of Behchokò (CGB) have finalized a set of primary and secondary indicators to be used in monitoring and responding to health and well-being impacts associated with the road and are nearing the first year of monitoring road operations. The working group has completed two progress reports for the Tłchq leadership and public and are preparing for community engagement on the results of the first year of monitoring in late 2022. GNWT-HSS, TCSA and the Office of the Chief Public Health Officer are meeting in October 2022 to identify health related mitigative actions that will be implemented in 22-23 fiscal year based on initial changes identified through the monitoring program and qualitative reports from the community. GNWT-HSS will be working with the Tłchq Government and the Community Governments of Whatì and Behchokò to solidify the monitoring framework and support for adaptive management.</p> <p>b) It is early in project implementation; however preliminary findings are indicating that the initial spike in harmful behaviours and adverse effects that was predicted in the EA is occurring. The working group has been focused on: identifying the priority health and wellbeing indicators and effects; developing an action-focused adaptive management approach; and, most importantly, increasing the community engagement post-COVID lockdowns to receive community feedback on actions taken thus far. The working group will use this engagement to feed into the</p>

	planning of adaptive management approaches to ensure that these are based on community priorities. With more time, the working group, led by GNWT and Tłchq Government will be able to assess the effectiveness of implementation with more confidence.
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MEASURE		MEASURE SPECIFICS
Community well-being		
Measure 5-3	Safety of young women in relation to work camps	To mitigate the Project's impact on the physical and mental health and safety of women, the developer will require that the successful P3 operator has gender appropriate and gender-specific policies in place that promote a safe, respectful and inclusive environment for women at work and in communities near work camps. The developer will consult with the Tłchq Government and Community Government of Whatì in establishing core elements of these policies.
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) Hiring for the construction of the road has been ongoing to meet construction staffing demands. Women have been hired from the Tłchq communities and there are currently 16 Tłchq women working on the TASR project. Senior Management from the P3 Operator (North Star Infrastructure), acting on behalf of the developer, continues to consult on a bi-weekly basis with the Tłchq Government Client Services Directors who represent the Tłchq Government's four communities. Initiatives to "improve opportunities for Woman in the Trades Industry" are items on the bi-weekly agenda. During these discussions, any employee grievances, safety issues or incidents are supposed to be brought up and resolved.</p> <p>Gender-specific policies developed are still being applied and appear to be working effectively.</p> <p>No safety issues or concerns have been raised by any female employees since the implementation of the policies and during the bi-weekly meetings.</p> <p>b) The actions taken to reduce or avoid impacts on the physical and mental safety of women appear to have been successful as no issues have been raised so far.</p> <p>The developer's Community Coordination Lead is coordinating with the Tłchq Government Career Development Manger to identify potential female candidates to fill positions during the operational phase of the project when the construction is complete. The project hired a total of 72 female craft and subcontractor Tłchq citizen workers since the beginning of the project.</p>		<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) Hiring for the construction of the road has been ongoing to meet construction staffing demands. Women have been hired from the Tłchq communities. Senior Management from the P3 Operator (North Star Infrastructure), acting on behalf of the developer, continues to consult on a bi-weekly basis with the Tłchq Government Client Services Directors who represent the Tłchq Government's four communities. Initiatives to "improve opportunities for Women in the Trades Industry" are items on the bi-weekly agenda. During these discussions, any employee grievances, safety issues or incidents are supposed to be brought up and resolved.</p> <p>Gender-specific policies developed are still being applied and appear to be working effectively.</p> <p>No safety issues or concerns have been raised by any female employees since the implementation of the policies and during the bi-weekly meetings.</p> <p>b) The actions taken to reduce or avoid impacts on the physical and mental safety of women appear to have been successful as no issues have been raised so far.</p>

MEASURE		MEASURE SPECIFICS
Community well-being		
Measure 5-4	Employee awareness training and policies	<p>To promote a positive, safe and inclusive work environment, the developer will ensure that the P3 operator:</p> <ul style="list-style-type: none"> • establishes a workplace environment that prevents assault, harassment and racism; • has a zero-tolerance harassment policy for racial or sexual discrimination; and, • requires employees to take a training course designed to promote cultural and gender awareness. <p>The developer will develop appropriate training materials, in consultation with the Tłıchǝ Government and the Tłıchǝ Community Services Agency, that reflect the factors that increase risks of sexual assaults on Aboriginal women. The developer, the Tłıchǝ Government and the Tłıchǝ Community Services Agency will coordinate course delivery. The developer will fund the training course.</p>
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) No change from the 2019-2020 response.</p> <p>b) The actions taken to implement this measure appear to have been effective. The grievance process has proven to work as the ones brought forward were resolved rapidly. No incidents of racial or sexual discrimination, sexual assault or harassment were reported during the 2020-2021 reporting period nor have any incidents been reported since the commencement of construction on September 2, 2019.</p>		<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) No change from the 2020-2021 response.</p> <p>b) No incidents of racial or sexual discrimination, sexual assault or harassment were reported during the 2021-2022 reporting period nor have any incidents been reported since the commencement of construction on September 2, 2019.</p>

MEASURE		MEASURE SPECIFICS
Community well-being		
Measure 5-5	Community engagement and grievance mechanisms	<p>The developer will hold public engagement sessions with the Communities of Whatì and Behchokò to discuss project-related community concerns.</p> <p>The developer will have a camp grievance mechanism and a community grievance mechanism that allow individuals and communities to raise concerns in a timely and open manner. These will be in place before the start of Project construction.</p>
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) Due to COVID-19, in-person Community Engagement has been challenging during the 2020-2021 reporting period. The Tłıchǵ Government Client Services Directors have developed a process for outside companies to conduct Community Engagement. The engagement process is updated during the Tłıchǵ Government Client Service bi-weekly meetings. The developer followed all guidelines for the Tłıchǵ Government Community Engagement process. On July 12, 2021, the developer hosted a TASR site tour for the Whatì Chief and Council members as part of the engagement process for the community to assess the construction progress.</p> <p>The developer designed a camp-grievance mechanism and a community-grievance mechanism. The camp-grievance mechanism was put in place prior to September 3, 2019 and is included as an element of the onsite orientation. The grievance policies were reviewed with the Tłıchǵ Government Client Service Department as and when necessary. The Tłıchǵ Government Client Services meets bi-weekly or as needed with the developer to review events, grievances, and policies.</p> <p>b) The implementation of the grievance mechanisms at the beginning of the project have proven to be successful, as demonstrated during the reporting period of 2019-2020. There were no grievances during the 2020-2021 reporting period but there is no indication of ineffectiveness in the grievance resolution mechanisms.</p>		<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) Due to COVID-19, in-person Community Engagement has been challenging during the 2021-2022 reporting period. The Tłıchǵ Government Client Services Directors have developed a process for outside companies to conduct Community Engagement. The engagement process is updated during the Tłıchǵ Government Client Service bi-weekly meetings. The developer followed all guidelines for the Tłıchǵ Government Community Engagement process.</p> <p>The developer designed a camp-grievance mechanism and a community-grievance mechanism. The camp-grievance mechanism was put in place prior to September 3, 2019, and is included as an element of the onsite orientation. The grievance policies were reviewed with the Tłıchǵ Government Client Service Department as and when necessary. The Tłıchǵ Government Client Services meets bi-weekly or as needed with the developer to review events, grievances, and policies.</p> <p>b) The implementation of the grievance mechanisms at the beginning of the project have proven to be successful, as demonstrated during the reporting period of 2019-2022. There were no grievances during the 2021-2022 reporting period but there is no indication of ineffectiveness in the grievance resolution mechanisms.</p>

MEASURE		MEASURE SPECIFICS
Community well-being		
Measure 5-6	Include Behchokò in accident response planning	The Government of the Northwest Territories will develop and implement an effective ground ambulance and highway rescue action plan along the road that will be designed in collaboration with the Tłıchǵ Government (TG), Tłıchǵ Community Services Agency (TCSA), Community Government of Whatì, and Community Government of Behchokò.
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to the GNWT, reporting under Measure 14-2</p> <p>a) Current actions and progress on implementation of Measure 5-6, Ground Ambulance Highway Rescue (GAHR) Action Plan Project for the TASR:</p> <ul style="list-style-type: none"> Key activities completed to date include an assessment of the current operating environment, local capacity and resource considerations, service level options and key decision points. MACA has updated the Tłıchǵ Highway Working Group and the elected officials of the Community Governments of Whatì and Behchokò, on assessment findings and the proposed approach going forward. MACA has also completed an operational risk assessment for the Tłıchǵ Highway Working Group related to the types of traffic, hazards, response distances, and other risk considerations to further support decision making on a desired service level. MACA has developed and provided an action plan for the delivery of ground ambulance and highway rescue along the TASR and has identified local capacity challenges that currently exist in the communities of Behchokò and Whatì. As such, MACA has recommended to the Tłıchǵ Government, TCSA, CGW, and CWB to continue efforts to develop their local fire services in attaining industry best practices and safety related foundational elements prior to considering implementation and delivery of ground ambulance and highway rescue services. <p>b) Effectiveness of these actions towards meeting the intent of Measure 5-6, GAHR Action Plan Project for the TASR:</p> <ul style="list-style-type: none"> Considering the above, MACA feels it has met the intent of Measure 5-6 and will continue collaborative efforts with the communities of Whatì and Behchokò in achieving necessary fire service foundational elements and support and guide efforts as community capacity expands to include decisions on emergency services that consider GAHR. The GNWT continues to collaborate with the working group throughout the project to provide clarity on the current operating environment, response capacity, service level options, resource needs, budget impacts, and other important safety considerations required to develop safe, effective and sustainable emergency response services for the TASR. 		<p>This measure is directed to the GNWT, reporting under Measure 14-2</p> <p>a) Current actions and progress on implementation of Measure 5-6, Ground Ambulance Highway Rescue (GAHR) Action Plan Project for the TASR:</p> <ul style="list-style-type: none"> The Department of Municipal and Community Affairs (MACA) has developed and provided an action plan for the establishment and delivery of GAHR services along the Tłıchǵ Highway, including the identification of local capacity challenges that currently exist. MACA's recommendation to the Tłıchǵ Government, Tłıchǵ Community Service Agency, Community Government of Whatì, and Community Government of Behchokò is to continue efforts to build local fire service capacity in attaining territorial safety requirements and industry best practices prior to considering GAHR service expansion. <p>b) Effectiveness of these actions towards meeting the intent of Measure 5-6, GAHR Action Plan Project for the TASR:</p> <ul style="list-style-type: none"> The decision on whether to expand local emergency services to include GAHR rests with community governments. MACA feels it has met the intent of Measure 5-6 and will continue to work closely with the communities of Whatì and Behchokò to strengthen their fire service, while supporting and guiding efforts as community capacity expands to include decisions on emergency services that consider GAHR.

MEASURE		MEASURE SPECIFICS																																																																																																																																																			
Community well-being																																																																																																																																																					
Measure 5-7	Prioritize Northern hiring	The developer will prioritize Northern hiring, and Tłchq citizen hiring in particular, in its contract with the P3 operator.																																																																																																																																																			
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<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) The developer has prioritized Northern hiring and ensures Northern employment opportunities are fulfilled by onsite management by reviewing and considering all resumes received from Northern applicants. To encourage Northern hiring during the COVID pandemic, the developer, in consultation with the TCSA developed and organized Virtual Training for the Tłchq community members. The purpose of this program was to provide community citizens an introduction to the construction industry. Furthermore, once selected for employment, training was provided in a hands-on manner to increase understanding. Assistance was provided to review and complete hire-on paperwork as needed. In addition to other initiatives identified, the Developer has identified and is utilizing Tłchq workers with strong communication skills to help communicate tasks to other Tłchq citizens with less advanced English language skills.</p> <p>b) The developer prioritized Northern hiring and was actively hiring Tłchq and Northern employees each month in the 2020-2021 reporting period. Positions were advertised on the Tłchq Government Facebook page. So far, the actions taken to ensure prioritizing Northern hiring have been effective as reflected in the increasing number of Tłchq workers being employed on the project. The table below shows a breakdown and percentage of Tłchq workers. Tłchq workers are made up of Tłchq residents plus Tłchq Investment Corporation (TIC) approved workers.</p> <p style="text-align: center;">Number and Percentage of Tłchq and Northern Workers between September 2020 and July 2021</p> <table border="1"> <thead> <tr> <th>Month of Year</th> <th>Total Workers on Project</th> <th>Tłchq Residents +TIC-Approved Workers</th> <th>% of Tłchq Residents +TIC-Approved Workers</th> <th>Northern Residents</th> <th>% of Northern Residents</th> </tr> </thead> <tbody> <tr><td>Sept - 2020</td><td>264</td><td>177</td><td>67%</td><td>40</td><td>15%</td></tr> <tr><td>Oct - 2020</td><td>227</td><td>160</td><td>70%</td><td>24</td><td>11%</td></tr> <tr><td>Nov - 2020</td><td>150</td><td>103</td><td>69%</td><td>17</td><td>11%</td></tr> <tr><td>Dec - 2020</td><td>45</td><td>25</td><td>55%</td><td>7</td><td>16%</td></tr> <tr><td>Jan - 2021</td><td>3</td><td>2</td><td>67%</td><td>1</td><td>33%</td></tr> <tr><td>Feb - 2021</td><td>3</td><td>2</td><td>67%</td><td>1</td><td>33%</td></tr> <tr><td>Mar - 2021</td><td>8</td><td>7</td><td>88%</td><td>3</td><td>38%</td></tr> <tr><td>April - 2021</td><td>8</td><td>7</td><td>88%</td><td>3</td><td>38%</td></tr> <tr><td>May - 2021</td><td>122</td><td>59</td><td>48%</td><td>3</td><td>2%</td></tr> <tr><td>June - 2021</td><td>115</td><td>47</td><td>41%</td><td>14</td><td>12%</td></tr> <tr><td>July - 2021</td><td>129</td><td>73</td><td>57%</td><td>20</td><td>16%</td></tr> </tbody> </table> <p>The Virtual community training program has proven to be effective. The targeted number of enrollments was twenty-two candidates. A total of twenty-four students were selected and a total of seven students attended. After a 24-hour online training was provided, they were awarded a certificate and invited to a site tour of the project on June 24, 2021.</p>			Month of Year	Total Workers on Project	Tłchq Residents +TIC-Approved Workers	% of Tłchq Residents +TIC-Approved Workers	Northern Residents	% of Northern Residents	Sept - 2020	264	177	67%	40	15%	Oct - 2020	227	160	70%	24	11%	Nov - 2020	150	103	69%	17	11%	Dec - 2020	45	25	55%	7	16%	Jan - 2021	3	2	67%	1	33%	Feb - 2021	3	2	67%	1	33%	Mar - 2021	8	7	88%	3	38%	April - 2021	8	7	88%	3	38%	May - 2021	122	59	48%	3	2%	June - 2021	115	47	41%	14	12%	July - 2021	129	73	57%	20	16%	<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) The developer has prioritized Northern hiring and ensures Northern employment opportunities are fulfilled by onsite management by reviewing and considering all resumes received from Northern applicants. 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MEASURE		MEASURE SPECIFICS
Boreal caribou		
Measure 6-1	<p>Implementation of the Recovery Strategy for the Boreal Caribou in the NWT, and required range plans, for boreal caribou affected by the Project</p> <p>Part 1 Develop and implement range plans</p> <p>Part 2 Information and adaptive management requirements</p>	<p><u>6-1, Part 1: Develop and implement range plans</u> The GNWT-ENR will develop and implement a range plan for boreal caribou (t̄d̄z̄ı) in the North Slave portion of the NT1 range, as required by the Recovery Strategy for the Boreal Caribou in the NWT. The GNWT-ENR will also develop and implement a range plan for any other region where boreal caribou (t̄d̄z̄ı) may experience impacts related to the Project.</p> <p>The range plan(s) will be developed collaboratively with Aboriginal groups and co-management partners. GNWT-ENR will complete and submit a range plan for the North Slave portion of the NT1 range to the Wek'èezhì Renewable Resources Board for review under section 12.5.1 of the T̄h̄ch̄ Agreement a minimum of 90 days before the Project is opened for public use.</p> <p>The GNWT will work collaboratively with the T̄h̄ch̄ Government, and other relevant Aboriginal and federal land management authorities to manage habitat to achieve the habitat disturbance threshold set out in this range plan to the greatest extent possible. The GNWT will consult with applicable Aboriginal groups as required.</p> <p><u>6-1, Part 2: Information and adaptive management requirements</u> For the area identified by the range plan(s) in measure 6-1, part 1 the following must be included in the development and implementation of the Recovery Strategy for the Boreal Caribou in the NWT or range plan(s):</p> <ul style="list-style-type: none"> • monitoring to determine population trends, abundance and distribution; • determination of population thresholds and triggers to inform adaptive management; • harvest monitoring and reporting; • determining sustainable harvest levels; • identifying critical habitat; • ongoing habitat disturbance monitoring; • setting disturbance thresholds for critical habitat and, to the greatest extent possible, managing habitat towards meeting these disturbance thresholds for each range planning region; and, • monitoring predator populations including densities, movements and predation rates. <p>Monitoring will meet the requirements of Appendix C. GNWT-ENR will work with the developer to adaptively manage Project impacts on boreal caribou (t̄d̄z̄ı) (following guidance in Appendix B).</p>

DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE

2020-2021 DETAIL ON MEASURE PROGRESS	2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to the GNWT-ENR, reporting under Measure 14-2</p> <p>a) 6-1 Part 1: Develop and implement range plans: The Interim Wek'èezhì Boreal Caribou Range Plan was submitted to the Wek'èezhì Renewable Resources Board (WRRB) for review under section 12.5.1 of the T̄h̄ch̄ Agreement on August 17, 2021, 105 days before the anticipated opening of the TASR for public use.</p> <p>The Interim Wek'èezhì Boreal Caribou Range Plan was developed through collaboration with Indigenous Governments and co-management partners. The Wek'èezhì Boreal Caribou Range Plan Working Group met on April 22-23, 2021 and on May 12-13, 2021 to provide input into the plan. The T̄h̄ch̄ Government and North Slave Métis Alliance provided spatial data from traditional knowledge mapping workshops/interviews they conducted and the information was included in the interim range plan.</p> <p>The GNWT will continue to work with Indigenous governments and co-management partners to complete a full range plan that will replace the interim range plan. The full range plan will include additional consideration of Indigenous knowledge shared at future community meetings.</p> <p>6-1 Part 2: Information and adaptive management requirements: <u>Monitoring to determine population trends, abundance and distribution</u></p> <ul style="list-style-type: none"> • ENR deployed 23 collars on adult female boreal caribou within the TASR study area in March 2021. These collars were put out to replace collars that had been deployed in 2017 and were scheduled to drop-off on March 01, 2021, as well as collars lost due to mortality during the reporting period. There are currently 32 active collars in the study area. Spring classification surveys were completed in February 2021 to estimate calf:cow ratios. <p><u>Determination of population thresholds and triggers to inform adaptive management</u></p> <ul style="list-style-type: none"> • Population thresholds and triggers have not yet been defined for the region. Instead, regional habitat disturbance thresholds which are tied to the likelihood of population self-sustainability have been defined in the NWT range planning framework (A Framework for Boreal Caribou Range Planning). 	<p>This measure is directed to the GNWT-ENR, reporting under Measure 14-2</p> <p>a) 6-1 Part 1: Develop and implement range plans A final draft of the interim Wek'èezhì range plan was completed at the end of June 2021, and was submitted to the Wek'èezhì Renewable Resources Board (WRRB) on August 17, 2021. At the same time, ENR initiated a public review period for the interim range plan, with comments accepted until early October 2021. On November 03, 2021, the Department of Environment and Natural Resources (ENR) submitted a revised version of the interim range plan to the WRRB along with a summary of how comments from the public review period had been addressed. On December 09, 2021, WRRB notified ENR that they had approved the interim range plan. The final interim Wek'èezhì range plan is available at: https://www.enr.gov.nt.ca/en/interim-wekeezhii-boreal-caribou-range-plan-plan-provisoire-pour-laire-derepartition-du-caribou On April 28, 2022 the Wek'èezhì Boreal Caribou Range Planning Working Group met to resume work on the full Wek'èezhii range plan.</p> <p>6-1 Part 2: Information and adaptive management requirements: <u>Monitoring to determine population trends, abundance and distribution</u></p> <ul style="list-style-type: none"> • ENR initiated a boreal caribou monitoring program in the North Slave region focused on the TASR corridor in March 2017. Annual survival rates of collared female caribou, as well as spring classification surveys used to estimate calf:cow ratios conducted in February or March each year, are used to estimate annual rates of population trend (λ =adult female survival/[1-female calf recruitment]) following Latham et al.'s (2010) modification of Hatter and Bergerud's (1991) equation. To date ENR has observed high annual female survival rates, and a stable to increasing population trend in all five years, but the calf recruitment rate was lower in 2019-20 and 2021-22 than the other three years of the program, and adult female survival was lower in 2021-22 than in previous years. • ENR deployed 10 collars on adult female boreal caribou within the TASR study area in March 2022. These collars were put out to replace collars that had been deployed in 2018 and were scheduled to drop-off on March 01, 2022, as well as collars lost due to mortality during the reporting period. Spring classification surveys were completed in March 2022 to

Harvest monitoring and reporting

- The Tłı̨chǫ Government developed a proposal for a monitoring program to address Measures 7-1 and 9-1 of the Report of EA. In August 2020, GNWT-INF committed funds to support the Tłı̨chǫ Government to undertake this program. Measure 9-1 relates to the development of a non-mandatory harvest monitoring and reporting program. The information from this program will provide information that will also support implementation of Measures 6-2 and 7-2, as well as inclusion of traditional knowledge as required by Measures 9-3 and 10-2.

Determining sustainable harvest levels

- See Measure 6-2 regarding activities related to determination of sustainable harvest levels.

Identifying critical habitat

- GNWT-ENR completed a range-wide (NT1) habitat selection analysis (resource selection functions) project using boreal caribou collar data from across the NWT to model and generate predictive maps of boreal caribou habitat selection during different seasons (NWT CIMP Project #202). The predictive habitat selection maps are being used to assist with identifying important areas for boreal caribou to support range planning and were also used in the draft TASR habitat offset plan for boreal caribou.

Ongoing habitat disturbance monitoring

- ENR measures and updates fire disturbance on an annual basis and contributes this data to the National Burn Area Composite (NBAC) and Canadian National Fire Database (CNFDB) datasets maintained by Natural Resources Canada. ENR uses a combination of the NBAC (1986-2019) and CNFDB (pre-1986) datasets to calculate fire disturbance within the NT1 boreal caribou range. The NBAC data was last updated in 2019. In fall 2019, the Wek'èezhì portion of the boreal caribou range had 31.9% fire disturbance (≤40 yrs old; current to 2019), 0.8% human disturbance (including 500 m buffer; data current to 2015 [source ECCC]), and 32.3% total combined fire/human disturbance. These regional estimates do not include the projected footprint of the TASR project. The NT1 range as a whole had 23.1% fire disturbance, 9.1% human disturbance and 30.5% total disturbance.

Setting disturbance thresholds for critical habitat and, to the greatest extent possible, managing habitat towards meeting these disturbance thresholds for each range planning region

- Disturbance limits and human disturbance management thresholds have been defined for each boreal caribou range planning region within the NWT Framework for Boreal Caribou Range Planning.

Monitoring predator populations including densities, movements and predation rates

- A wolf aerial abundance survey was completed within a 5000 km² block centered on the TASR corridor in March 2020. A similar sized block was surveyed within the Mackenzie boreal caribou monitoring study area to serve as a reference site. Wolf densities were estimated to be 2.2 wolves/1000 km² in the TASR survey block and 1.8 wolves/1000 km² in the Mackenzie survey block.

b) No change from 2018-2019 response.

estimate calf:cow ratios. As of September 2022, there are 35 active collars in the study area.

- No boreal caribou abundance surveys took place in 2021 or 2022.

Determination of population thresholds and triggers to inform adaptive management

- Population thresholds and triggers have not yet been defined for the region. Instead, regional habitat disturbance thresholds which are tied to the likelihood of population self-sustainability have been defined in the NWT range planning framework ([A Framework for Boreal Caribou Range Planning](#)).

Harvest monitoring and reporting

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- In addition to the program led by the Tłı̨chǫ Government, Renewable Resources Officers from GNWT-ENR have been conducting patrols along the TASR following the opening of the road to public use. Patrols vary from daily to about three times a week, depending on the time of year.

Determining sustainable harvest levels

- See Measure 6-2 regarding activities related to determination of sustainable harvest levels.

Identifying critical habitat

- GNWT-ENR completed a range-wide (NT1) habitat selection analysis (resource selection functions) project using boreal caribou collar data from across the NWT to model and generate predictive maps of boreal caribou habitat selection during different seasons (NWT CIMP Project #202). The predictive habitat selection maps are being used to assist with identifying important areas for boreal caribou to support range planning and were also used in the draft TASR habitat offset plan for boreal caribou.

Ongoing habitat disturbance monitoring

- ENR measures and updates fire disturbance on an annual basis and contributes this data to the National Burn Area Composite (NBAC) and Canadian National Fire Database (CNFDB) datasets maintained by Natural Resources Canada (NRCan). ENR uses a combination of the NBAC (1986-2020) and CNFDB (pre-1986) datasets to calculate fire disturbance within the NWT boreal caribou range.

- The interim Wek'èezhì range plan contains fire data as of 2020. As of fall 2020, the Wek'èezhì portion of the boreal caribou range had 31.9% fire disturbance (≤40 yrs old), 0.8% human disturbance (including 500 m buffer; data current to 2015 [source ECCC]), and 32.3% total combined fire/human disturbance. These regional estimates do not yet include the final footprint of the TASR project (road alignment and borrow sources plus a 500 m buffer); however, based on the proposed alignment and all 21 potential borrow sources, the human disturbance footprint in the region would increase to 0.92%, and the total disturbance footprint (fire/human combined) would remain roughly the same at 32.3%. The NT1 range as a whole had 21.5% fire disturbance, 9.1% human disturbance and 29.0% total disturbance.

- For general awareness, ENR is reporting on firewood harvesting. Currently any NWT resident can get a free timber cutting permit for km 0-5 on the TASR. There is an allowable 40 free timber cutting permits available to be issued for two months and up to five cords of firewood for km 8-12 of the TASR. There cannot be more than 40 permits issued at any given time for this user group. Indigenous harvesters can harvest from km 0-75 with a free permit but must not cut within 500m of a designated cabin. ENR and the Tłı̨chǫ Government are working together to develop a Forest Management Plan for the Wek'èezhì area.

Setting disturbance thresholds for critical habitat and, to the greatest extent possible, managing habitat towards meeting these disturbance thresholds for each range planning region

- Disturbance limits and human disturbance management thresholds have been defined for each boreal caribou range planning region within the NWT Framework for Boreal Caribou Range Planning.

Monitoring predator populations including densities, movements and predation rates

- As part of the TASR WMMP and research program in partnership with Laval University (funded by the Sentinel North program), ENR deployed six culvert traps along Highway 3 between Fort Providence and Behchoko, and along the TASR corridor, to deploy GPS collars on black bears. Traps were deployed in different locations between September 8th and October 8th, 2021. The purpose of this program is to evaluate the influence of the TASR and Highway 3 on black bear movements and to assess predation rates of black bears on boreal caribou, moose and bison calves. The broader purpose of the Sentinel North project is to study food web dynamics between boreal caribou, moose, bison, wolves and bears and to understand how the food web is influenced by natural and human landscape disturbance as well as climate change. The black bear collars are equipped with a video camera to capture short video clips at regular intervals to document black bear predation events as well as to learn more about their behaviour and food habits. A total of seven bears were captured and fitted with GPS collars in 2021 – six males and one female. An additional female black bear was captured and collared in Yellowknife and was released inside the study area. One male bear was captured and fitted with a GPS collar in spring 2022. Additional collaring is planned for autumn 2022 to reach a target sample size of 20 individuals.
 - ENR completed a wolf survey in the TASR area February 26-March 1, 2022, using the same survey area as the 2020 survey. The wolf density estimate was 2.0-2.8 wolves/1000 km². A second 2022 wolf survey in the Mackenzie area east of Highway 3 acted as a control. The wolf density estimate in this area was 1.4 wolves/1000 km². Four wolves in two different packs were collared in the study area in February 2022. One collared wolf died in March 2022 of a vehicle collision and one wolf collar is stationary in a remote location. As of Sept 2022, there are two collared wolves in the study area.
- b) Measure 6-1 directs the GNWT-ENR to develop and implement a range plan for boreal caribou in the North Slave portion of the NT1 range. The actions taken to date outline the progress the GNWT-ENR has made, in collaboration with Indigenous governments and Indigenous organizations, renewable resources boards, land use planning boards, regulatory boards, industry and non-governmental organizations, in working towards the development of boreal caribou range plans. The development and implementation of range plans will help address Project impacts as range plans are tools for decision-makers, developers and communities to help manage activities on the land in a way that supports caribou conservation. The effectiveness of this measure cannot be determined until after the boreal caribou range plan for the Wek'èezhì region is completed and fully implemented.

MEASURE		MEASURE SPECIFICS
Boreal caribou		
Measure 6-2	Determine sustainable harvest levels for boreal caribou (t̄d̄z̄i) and implement measures to ensure harvest is sustainable if required	<p>To mitigate significant adverse impacts from the project on boreal caribou (t̄d̄z̄i), the GNWT-ENR, in collaboration with Aboriginal groups and in accordance with the requirements of the T̄h̄ch̄q Agreement, will determine sustainable harvest levels for boreal caribou in the North Slave portion of the NT1 range prior to the road being opened to the public.</p> <p>In that same period, if current harvest levels are determined to exceed sustainable levels, management action will be undertaken in conjunction with the T̄h̄ch̄q Government.</p> <p>If harvest levels are observed to increase towards unsustainable levels once the road is opened to the public, GNWT-ENR and T̄h̄ch̄q Government will submit a wildlife management proposal under section 12.5.1 of the T̄h̄ch̄q Agreement to the Wek'èezhì Renewable Resources Board for the timely implementation of any measures necessary to ensure boreal caribou harvest in the region is kept within sustainable levels. Such measures may include the establishment of a no-hunting corridor along the Project route.</p>
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to the GNWT-ENR, reporting under Measure 14-2</p> <p>a) ENR's contractor completed the report on population modeling to assess sustainable harvest rates for boreal caribou in March 2020. ENR has developed a Plain Language Summary of the report and a 2-page Factsheet. ENR will share the report, Plain Language Summary and Factsheet with Indigenous governments in the South Slave, Dehcho and North Slave regions, as well as the Wek'èezhì Renewable Resource Board, to initiate engagement on the findings of the report and discuss management options. ENR will offer to meet with each Indigenous government and the Wek'èezhì Renewable Resource Board in fall 2021.</p> <p>b) No change from the 2018-19 response.</p>		<p>This measure is directed to the GNWT-ENR, reporting under Measure 14-2</p> <p>a) ENR hired a contractor to conduct population modeling to evaluate sustainable harvest levels using available demographic data from boreal caribou monitoring programs in the Dehcho, South Slave and North Slave regions. The report was completed as of March 31, 2020. On September 27, 2021, GNWT circulated the report to Indigenous Governments and Indigenous Organizations (IGs and IOs) and released the report on ENR's website. The findings of the report were presented on November 10, 2021 at the Wildlife Act Section 15 meeting, as well as at specific meetings with the T̄h̄ch̄q Government and North Slave Métis Alliance on October 28, 2021. ENR also held meetings to discuss the report with four IGs and IOs from the South Slave and Dehcho regions in fall 2021. Engagement on the report will continue in 2022. Copies of the full report, plain language summary and fact sheet can be found at:</p> <ul style="list-style-type: none"> • https://www.enr.gov.nt.ca/sites/enr/files/resources/gnwt_boreal_caribou_population_model_report_final_bil_1.pdf • https://www.enr.gov.nt.ca/sites/enr/files/resources/plain_lanugage_summary_boreal_caribou_sustainable_harvest_report_sep2021_0.pdf • https://www.enr.gov.nt.ca/sites/enr/files/resources/boreal_caribou_sustainable_harvest_fact_sheet.pdf <p>b) The actions taken to date outline the progress the GNWT-ENR has made in implementing this measure and has established a baseline understanding for sustainable harvest levels in the North Slave regions of the NT1 range. The effectiveness of this measure cannot be determined until future harvest level data is available for comparison against the baseline data.</p>

MEASURE		MEASURE SPECIFICS
Boreal caribou		
Measure 6-3	Habitat offset and restoration plan	<p>The developer will offset effective boreal caribou (t̄q̄dzi) habitat lost because of disturbance from the Project.</p> <p>The developer, with the involvement of GNWT-ENR, will prepare and implement a habitat offset plan. This plan will describe how the required habitat offset area will be determined and how it will be achieved. In preparing the plan, the developer will collaborate with T̄ich̄q̄ Government and the Wek'èezhì Renewable Resources Board, and consult with the following participants to this environmental assessment:</p> <ul style="list-style-type: none"> • Environment and Climate Change Canada; • Yellowknives Dene First Nation; and, • North Slave Métis Alliance. <p>The developer will make funding available to the parties to support this consultation and collaboration. The developer will submit a draft and a final plan as described below. Once approved, the developer will operate in accordance with the plan.</p> <p>The developer will submit a draft plan to the Wek'èezhì Renewable Resources Board a minimum of 30 days prior to commencement of construction. The developer will submit the final habitat offset plan to the Wek'èezhì Renewable Resources Board for review under section 12.5.1 of the T̄ich̄q̄ Agreement, as soon as possible, and no later than 90 days prior to public use of the road. This final plan will include, at a minimum:</p> <ul style="list-style-type: none"> • the goals and objectives of the plan; • a discussion on the expected effectiveness of mitigations and offsets; • a decision framework to prioritize restoration areas, mitigations, and offsets, including references to the research on which the decision framework was based; • a discussion of how any proposed mitigations or offsets align with the Recovery Strategy for the Boreal Caribou in the NWT and range plans; • details of proposed ways to offset habitat disturbance including restoration sites, mitigation measures, offsets, forest fire fighting policies, or habitat management approaches; • a description of the spatial scale of the proposed offset, the habitat quality and type, site specific restoration activities, and any challenges; • a timeline for offsetting; • a quantitative and qualitative assessment of the total area of boreal caribou habitat proposed for restoration and the timeframe required for restoration; • a summary of consultation feedback that was integrated into the draft and final plans; • a description of any Traditional Knowledge that was considered in the development of the plan, and how it was incorporated; and, • a description of any resources provided to Aboriginal groups to support their involvement in the drafting of the final plan, and for any involvement in the implementation of the plan.
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is primarily directed to the developer, but requires the involvement of GNWT-ENR. The developer and ENR worked collaboratively to provide the information as summarized below, reporting under Measures 14-1 and 14-2.</p> <p>a) The Boreal Caribou Habitat Offset Plan was submitted to the WRRB for review under section 12.5.1 of the T̄ich̄q̄ Agreement on July 16, 2021. Prior to submission, the developer's consultant (Associated Environmental) had shared a draft of the final plan with the T̄ich̄q̄ Government, North Slave Métis Alliance, Yellowknives Dene First Nation, Wek'èezhì Renewable Resource Board, Environment and Climate Change Canada and the GNWT on September 11, 2020 and incorporated feedback into the plan. The consultant then continued to collaborate with ENR and INF to finalize the plan and develop a framework for implementing the Boreal Caribou Habitat Offset Plan.</p> <p>Updates on the status and development of the final plan were provided by the consultant to the Corridor Working Group members at the December 1, 2020 and June 16, 2021 Corridor Working Group meetings.</p> <p>b) No change from the 2019-2020 response.</p>		<p>This measure is primarily directed to the developer, but requires the involvement of GNWT-ENR. The developer and ENR worked collaboratively to provide the information as summarized below, reporting under Measures 14-1 and 14-2.</p> <p>a) The Final Boreal Caribou Habitat Offset Plan was completed and submitted to the Wek'èezhì Renewal Resources Board (WRRB) on July 16, 2021. On September 2, 2021, the WRRB approved the final plan which paved the way for the road to be opened to the public on November 30, 2021. The Final Plan and WRRB's letter of approval can be found here.</p> <p>The next steps in the offsetting program are:</p> <ol style="list-style-type: none"> 1. Development of Implementation Plan 2. Field Implementation of the Plan <p>To undertake the full scope of steps 1 & 2 above, INF sought the services of a consultant to estimates the costs associated with implementation plan development and implementation of the plan. Once funding is secured, Request for Proposals (RFP) will be sent out in 2023/24 for the offsetting program to move forward.</p> <p>b) No change from the 2019-2020 response.</p>

MEASURE		MEASURE SPECIFICS
Barren-ground caribou		
Measure 7-1	Incorporate Traditional Knowledge into monitoring of barren-ground caribou (ʔekwò)	To improve and inform mitigation of significant adverse impacts to barren-ground caribou (ʔekwò) resulting from increased access due to the Project, the developer will include Traditional Knowledge in barren-ground caribou (ʔekwò) monitoring and management. Prior to operations, the developer will: a) support the Tłıchʔ Government in the design and implementation of a program that uses Tłıchʔ harvesters' traditional knowledge and methods to monitor the state of barren-ground caribou (ʔekwò) winter habitat, during and after the construction of the Project; b) fund the implementation of the program in paragraph a); and, c) incorporate the findings of the program in paragraph a) into the Wildlife Management and Monitoring Plan while it is in place, and into any other barren-ground caribou (ʔekwò) management if the Wildlife Management and Monitoring Plan is not extended.
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
This measure is directed to the developer, reporting under Measure 14-1 a) Same as Measure 9-1. b) No change from the 2019-2020 response.		This measure is directed to the developer, reporting under Measure 14-1 a) Same as Measure 9-1. b) No change from the 2019-2020 response .

MEASURE		MEASURE SPECIFICS
Barren-ground caribou		
Measure 7-2	Barren-ground caribou mitigation and policy changes	To manage significant adverse impacts to barren-ground caribou (ᐱᑦᐅᐅᐅ) resulting from the Project, GNWT-ENR and ᑕᐅᐅᐅ Government, along with their co-management partners in the Wek'èezhì area, will: a) complete the Bathurst Caribou Range Plan as soon as possible and prior to the expiry of the Wildlife Management and Monitoring Plan; and, b) consider protecting barren-ground caribou (ᐱᑦᐅᐅᐅ) historic winter habitat from fires when determining where and when fires are fought, to offset effective habitat loss from the Project.
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to the GNWT-ENR and the ᑕᐅᐅᐅ Government, reporting under Measure 14-2</p> <p>a) 7-2, Part a: complete the Bathurst Caribou Range Plan: No changes or updates since the 2018-2019 response.</p> <p>7-2, Part b: consider protecting barren-ground caribou historic winter habitat from fires: ENR did not fight any fires in the areas identified by the ᑕᐅᐅᐅ Government as a priority for boreal caribou or barren ground caribou. ENR did suppress one fire south of Whatì, half way up the TASR road, which had grown to 550 hectares. This is the only fire that started in what is considered to be prime boreal caribou habitat. There were a total of seven forest fires reported in 2020 in barren ground caribou habitat, but the fires did not reach a significant size due to frequent precipitation events. Together these seven fires burned collectively a total of 2297 hectares. Three of these fires were located northeast of Wekweèti and were extinguished shortly after they started by rain at a combined size of nine hectares. The other four fires were north of Whatì and Gamèti with a combined total area burned of 2287 hectares. No new priority areas were identified by any other organizations or governments in 2020.</p> <p>b) No change from the 2018-2019 response.</p>		<p>This measure is directed to the GNWT-ENR and the ᑕᐅᐅᐅ Government, reporting under Measure 14-2</p> <p>a) 7-2, Part a: complete the Bathurst Caribou Range Plan: The Bathurst Caribou Range Plan (BCRP) was released on August 21, 2019. The BCRP was developed by a multi-stakeholder working group and will help decision-makers manage activities on the land in a way that supports the recovery of the Bathurst herd, while providing clarity on land use and access for developers, regulators and residents of the Northwest Territories (NWT). It includes guidance for managing the overall amount of disturbance on the land, as well as seven management tools to reduce and manage impacts to caribou and caribou habitat. Actions are currently underway to support implementation of the recommendations contained in the BCRP. The BCRP is available on ENR's website at https://www.enr.gov.nt.ca/sites/enr/files/resources/bathurst_caribou_range_plan_2019_-_plan_pour_laire_de_repartition_des_caribous_de_bathurst_2019.pdf.</p> <p>In 2021, GNWT-ENR, with an Industry partner, has developed two guidance documents for the implementation of Mobile Caribou Conservation Measures (MCCM). A Framework Document describes the intent of MCCM and how they would operate, and an Operational Guidance document provides direction for companies with exploration camps that might need to implement MCCM at their site. GNWT-ENR conducted a desktop pilot project of MCCM in Fall 2020. The pilot project was conducted as a desktop exercise as exploration camps were not operational due to COVID-19. Results of the pilot project are reported in the MCCM Operational Guidance document and show how often caribou interacted with the sites, how long they resided nearby, what type of mitigation measures would have been triggered and for how long. GNWT-ENR plans to work with an Industry partner to test the MCCM and Operational Guidance document at an active exploration camp in 2022.</p> <p>7-2, Part b: consider protecting barren-ground caribou historic winter habitat from fires: The BCRP contains a recommendation to: "On an annual basis, identify large, strategically-</p>

located patches of forest in the central Bathurst winter range for the GNWT fire management “Values at Risk” database. Response to fires in these areas would be based on an analysis of the current fire load, fire environment, resource availability and similar considerations of the management options at the time of the fire event.”

ENR has been exploring ways to identify areas as values at risk for boreal and barren-ground caribou based on habitat selection models, areas identified as important habitat by communities, availability and location of fire management resources, and logistical constraints. ENR staff met in summer and fall 2019 to discuss different options and this work is ongoing. The Tłıchǵ Government held a workshop to identify areas of critical winter habitat for boreal and barren-ground caribou and shared the spatial data from the workshop with ENR in late summer 2019.

A total of 44 forest fires were reported in the North Slave region in 2021, with a total area burned of 34,865 ha. This was below the 10-year average of 57 fires per year and 287,000 ha burned per year. Several fires around Yellowknife, Behchokǵ and Whatı received fire suppression actions. ENR fought a fire (Zf035-21) that occurred south of Whatı and east of the TASR which was within a large patch of high suitability late-winter habitat for boreal caribou identified as Value at Risk in the interim Wek’èezhıı range plan. It took over 10 days to have the fire controlled and the fire burned an area of 2699 ha. Two fires that occurred within the barren-ground caribou winter range (Zf036-21 and Zf037-21) northeast of Whatı and southwest of Gamètı were suppressed during the same period but did not coincide with areas identified by the Tłıchǵ Government as a priority barren ground caribou habitat. Two fires in the Wek’èezhıı Management area that were human caused were quickly suppressed and did not reach a significant size. 2022 fire data has not yet been fully analyzed and will be reported on in future reports.

- b) The actions taken to date outline the progress the GNWT-ENR has made in implementing this measure. The development and implementation of range plans will help address this impact as range plans are tools for decision-makers, developers and communities to help manage activities on the land in a way that supports caribou conservation. The effectiveness of the BCRP cannot be assessed because the BCRP is relatively recent (August 21, 2019).

MEASURE		MEASURE SPECIFICS
Fish and water		
Measure 8-1	Fisheries Management Plan	<p>Fisheries and Oceans Canada and the Tłıchq Government, with the support of the developer, will develop and implement a Fisheries Management Plan for fisheries in the project area. This will prevent significant adverse impacts from additional fishing pressure that will likely result from increased access via the Project. In designing the plan, Fisheries and Oceans Canada will engage with the Tłıchq Government, the Wek'èezhì Renewable Resources Board, the Community of Whati and other affected Aboriginal groups. Fisheries and Oceans Canada and the Tłıchq Government will submit the plan to the Wek'èezhì Renewable Resources Board for review under section 12.5.1 of the Tłıchq Agreement.</p> <p>As part of this plan, Fisheries and Oceans Canada and the Tłıchq Government will complete the following work:</p> <p>a) Complete work to understand baseline fishery and harvest conditions. This work will include, at a minimum:</p> <ol style="list-style-type: none"> i. assessing yield and harvest; ii. identifying management issues; iii. establishing fisheries objectives; and, iv. clarifying management and stewardship arrangements. <p>b) Design and implement, with support of the developer, mitigation to prevent or manage project impacts (which may include a regulatory and compliance plan).</p> <p>c) Design and implement monitoring plans, meeting the requirements of Appendix C.</p> <p>d) Design and implement an adaptive management plan (following guidance in Appendix B).</p> <p>Fisheries and Oceans Canada and the Tłıchq Government will provide opportunity for the working group (required by Measure 14-3) and other interested parties to review and comment on this plan.</p>
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to Fisheries and Oceans Canada and the Tłıchq Government, with support of the developer. As such, the GNWT is reporting under Measure 14-1, while the other regulators will, in their own report(s), report under Measure 14-2.</p> <p>a) INF continues to work with Fisheries and Oceans Canada (DFO), the Tłıchq Government, and WRRB to develop the Fisheries Management Plan. The Working Group meets monthly to discuss and review the progress of the Fisheries Management Plan. On June 16, 2021, a PowerPoint presentation was made on the Plan at the Corridor Working Group meeting. The Plan is currently undergoing final reviews by DFO Science after which it will be distributed to the CWG for comments. In addition to the Plan, other informational materials such as signage, brochure/pamphlet, and Angler diary are being developed to enhance the effectiveness of the FMP. The final Plan is expected to be submitted to the WRRB by December 31, 2021</p> <p>b) No change from the 2019-2020 response.</p>		<p>This measure is directed to Fisheries and Oceans Canada and the Tłıchq Government, with support of the developer. As such, the GNWT is reporting under Measure 14-1, while the other regulators will, in their own report(s), report under Measure 14-2.</p> <p>a) INF continues to work collaboratively with Fisheries and Oceans Canada (DFO), the Tłıchq Government, and the Wek'èezhì Renewal Resources Board (WRRB) to develop the Fisheries Management Plan (FMP). The Working Group meets monthly to discuss and review the progress of the FMP. The Working Group updated the Corridor Working Group at its June 13, 2022 meeting.</p> <p>On January 24, 2022, INF submitted the final FMP to the WRRB for their review and approval. On February 15, 2022, the WRRB approved the final Plan. In addition to the Plan, other informational materials such as signage, brochure/pamphlet, and an Angler diary are being developed to enhance and effectively disseminate the information in the FMP. Currently, the FMP Working Group is working with two companies to complete the design and production of the signage and pamphlet, and the Angler diary.</p> <p>b) No changes or updates since the 2019-2020 response.</p>

MEASURE		MEASURE SPECIFICS
Cultural well-being		
Measure 9-1	<p>Monitoring harvest and managing wildlife to maintain successful harvest</p> <p>Part 1 Aboriginal harvest monitoring and reporting program</p> <p>Part 2 Use monitoring to inform management</p>	<p><u>9-1, Part 1: Aboriginal harvest monitoring and reporting program</u> To mitigate impacts on Aboriginal harvesters and to effectively inform management of wildlife populations in the area of the Project, GNWT-ENR will work together with the Tłıchǫ Government and Wek'èezhì Renewable Resources Board to develop and implement a non-mandatory Aboriginal harvest monitoring and reporting program. The harvest monitoring and reporting program will: a) focus on boreal caribou, barren-ground caribou and moose population trends in areas accessed by winter roads and trails from the Project; b) be community-based and involve collaboration between Tłıchǫ Government and the developer; c) involve Traditional Knowledge holders and harvesters in monitoring wildlife harvesting trends; and, d) report on wildlife harvesting numbers and trends from monitoring checkpoints and/or other harvest monitoring methods annually to the Tłıchǫ Government, Wek'èezhì Renewable Resources Board, GNWT-ENR and other wildlife co-management partners.</p> <p>The developer will fund this harvest monitoring and reporting related to the project. The harvest monitoring will meet the requirements of Appendix C.</p> <p><u>9-1, Part 2: Use monitoring to inform management</u> GNWT-ENR, in collaboration with the Tłıchǫ Government and Wek'èezhì Renewable Resources Board, will consider wildlife management actions and mitigations based on the results of the monitoring above and the information collected by the GNWT's existing Resident Hunting Reporting Program, to help ensure sustainable Aboriginal harvesting of wildlife and report on monitoring results and management actions in the annual reviews of the Wildlife Management and Monitoring Plan.</p>
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed at the GNWT-ENR, WRRB and the Tłıchǫ Government, reporting under Measure 14-2</p> <p>a) With the support of the developer and ENR, the Tłıchǫ Government undertook the following activities:</p> <ul style="list-style-type: none"> January 2021 – Hired a Wildlife Monitoring Program Coordinator and established Elder/harvester committee to provide advice and oversight for harvest monitoring. February 2021 – Animal-track surveys and interviews for habitat report completed. Added two youth to the committee. April 2021 – Second committee meeting was held with Elders, harvesters, and youth. A baseline habitat report was completed. June 2021 – The committee toured the TASR project site with the P3 Operator to assess conditions of the habitat along the alignment. <p>The following activities are also ongoing and expected to be completed by November 2021:</p> <ul style="list-style-type: none"> Developing voluntary harvest reporting program. Completing current state of habitat report based on tracks, trails, Traditional Knowledge, and cameras. This would help identify changes after the road is open. Determining current harvesting levels for comparison after road is open. 		<p>This measure is directed at the GNWT-ENR, WRRB and the Tłıchǫ Government, reporting under Measure 14-2</p> <p>a) <u>9-1, Part 1: Aboriginal harvest monitoring and reporting program</u> The non-mandatory Aboriginal harvest monitoring and reporting program required by Measure 9-1 is being implemented by the Tłıchǫ Government. ENR is providing technical input and support to the Tłıchǫ Government as required. For example, ENR provides technical updates to the Tłıchǫ Monitoring Committee twice a year on all related wildlife monitoring activities led by ENR, shares technical reports, such as the harvest sustainability report, and administers the funding contribution agreement. The Department of INF provides funding related to the program.</p> <p><u>9-1, Part 2: Use monitoring to inform management</u> The information from the Aboriginal harvest monitoring and reporting program will provide information that will also support implementation of Measures 6-2, as well as inclusion of traditional knowledge as required by Measures 9-3 and 10-2. Future versions of the Wildlife Management and Monitoring Plans will be updated with any recommendations from the study.</p>

<ul style="list-style-type: none"> • Training wildlife monitors. • Establishing a checkpoint for harvest monitoring on the completed Tłıchǫ Highway. • Encouraging voluntary harvest reporting <p>b) No change from the 2018-2019 response.</p>	<p>b) The effectiveness of the actions taken to implement this measure cannot be assessed yet, as measure implementation is in the early stages.</p>
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MEASURE		MEASURE SPECIFICS	
Cultural well-being			
Measure 9-2	Cultural sensitivity in work camps and communities	To mitigate the Project's impact on Tłıchǫ culture and well-being of Tłıchǫ residents, the developer will require that the P3 operator has culturally appropriate and specific policies in accordance with those set out by the Tłıchǫ Government, GNWT departments and federal government. The P3 operator will have policies and programs in place for employee cultural orientation, approved by the Tłıchǫ Government, for all non-Tłıchǫ workers, including awareness of special cultural norms and practices.	
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE			
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS	
<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) No change from the 2019-2020 response.</p> <p>b) The actions taken to implement this measure appeared to have been effective. At the time of this report, no incidences of cultural insensitivity, cultural discrimination, have been reported since commencement of construction activities on September 2, 2019. There is a growing interest among external workforce to learn about the Tłıchǫ culture. There is mutual respect among workers with different cultural backgrounds.</p>		<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) No change from the 2020-2021 response.</p> <p>b) The actions taken to implement this measure appeared to have been effective. At the time of this report, no incidences of cultural insensitivity, cultural discrimination, have been reported since commencement of construction activities on September 2, 2019. There is a growing interest among external workforce to learn about the Tłıchǫ culture. There is mutual respect among workers with different cultural backgrounds.</p>	

MEASURE		MEASURE SPECIFICS
Cultural well-being		
Measure 9-3	Include Traditional Knowledge from all relevant groups	To mitigate impacts from the Project to culture and harvesting, the developer will incorporate Traditional Knowledge into the Project design and management from all Aboriginal groups that traditionally use the area. The developer will: a) support the collection of Traditional Knowledge related to traditional use, and compile it with information already acquired; b) thoroughly consider any Traditional Knowledge that is made available, and, where applicable, incorporate Traditional Knowledge into Project design, mitigations, monitoring and adaptive management; and, c) do this in a culturally-appropriate way that respects applicable Traditional Knowledge policies and protocols. The GNWT-ENR and Wek'èezhì Land and Water Board will consider these findings in the Wildlife Management and Monitoring Plan and in permitting.
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed primarily to the developer, but requires GNWT-ENR to consider the findings in the Wildlife Management and Monitoring Plan (WMMP) and in permitting. As such, it is being reported on under both Measures 14-1 and 14-2.</p> <p>Reporting under Measure 14-1</p> <p>a) Traditional Knowledge was incorporated into policies and training materials to ensure cultural awareness and sensitivity onsite and within the community as reported under Measure 9-2 for the 2020-2021 reporting period.</p> <p>INF continues to use the Traditional Knowledge incorporated into the WMMP, Project design, mitigation measures, and monitoring during construction.</p> <p>b) No change from the 2019-2020 response.</p> <p>Reporting under Measure 14-2</p> <p>a) ENR has not received or been made aware of any new Traditional Knowledge reports or findings during the reporting period that could have been incorporated into of the TASR WMMP, which was last circulated for public review on September 15, 2020 (v.4.0), and approved on March 1, 2020 (v.4.2). The next public review of the TASR WMMP should take place in September 2021.</p> <p>b) Not applicable as this measure is primarily directed to the developer.</p>		<p>This measure is directed primarily to the developer, but requires GNWT-ENR to consider the findings in the Wildlife Management and Monitoring Plan (WMMP) and in permitting. As such, it is being reported on under both Measures 14-1 and 14-2.</p> <p>Reporting under Measure 14-1</p> <p>a) Traditional Knowledge was incorporated into policies and training materials to ensure cultural awareness and sensitivity during construction both onsite and within the community. INF continues to use the existing Traditional Knowledge incorporated into the Wildlife Management and Monitoring Plan (WMMP), Project design, mitigation measures, and monitoring during construction and operations. INF also continues to solicit for Traditional Knowledge input from the community during TASR Corridor Working Group Meetings.</p> <p>b) No change from the 2019-2020 response.</p> <p>Reporting under Measure 14-2</p> <p>a) ENR has not received or been made aware of any new Traditional Knowledge reports or findings during the reporting period that could have been incorporated into of the TASR WMMP, which was last circulated for public review in September, 2021. The WLWB approved version 5.2 on February 09, 2022, while ENR approved the same version on March 21, 2022.</p> <p>b) Not applicable as this measure is primarily directed to the developer.</p>

MEASURE		MEASURE SPECIFICS
Species at risk and wildlife, other than caribou		
Measure 10-1	Bird species at risk and migratory bird data, mitigation, monitoring and adaptive management Part 1 Pre-construction bird surveys Part 2 Mitigation Part 3 Monitoring and reporting Part 4 Adaptive management	<p><u>10-1, Part 1: Pre-construction bird surveys</u> The developer will conduct pre-construction field surveys of bird species at risk and migratory birds prior to disturbing potential habitat, including any clearing of the right-of way, quarry sites, camps, access routes, or other project infrastructure. The developer will consult with Environment and Climate Change Canada (ECCC) and GNWT-ENR about methods and timing for a field survey(s). The developer will conduct the survey using methods derived from peer-reviewed scientific literature and best practices.</p> <p><u>10-1, Part 2: Mitigation</u> The developer will use the results from surveys in 10-1 Part 1 to inform mitigations. The mitigations will help protect bird species at risk and migratory birds and ensure habitats and nesting sites are protected. For all project-related infrastructure and activities during the construction and operations phase, the developer will: a) use the information from the survey(s) to inform and adjust proposed mitigations; b) implement mitigations as described in its commitments table and its Wildlife Management and Monitoring Plan; c) implement additional mitigations to eliminate or reduce impacts, if warranted based on surveys; d) halt all disruptive activities, in consultation with ECCC, in an area if nests or young are discovered; and e) determine and implement, in consultation with ECCC and GNWT-ENR, appropriate species-specific buffer zones or setbacks, until the young have naturally and permanently left the vicinity of the nest taking into consideration the intensity of the disturbance and the surrounding habitat.</p> <p><u>10-1, Part 3: Monitoring and reporting</u> The developer will: a) implement monitoring in section 5 and Appendix C of the Wildlife Management and Monitoring Plan and Chapter 14 of this report; b) monitor nests using non-intrusive search methods at quarry sites immediately prior to commencing any disruptive activities during the nesting period; and c) report weekly and annually as described in section 6 of the Wildlife Management and Monitoring Plan, including findings of baseline surveys in 10-1 Part 1. Monitoring will meet the requirements of Appendix C.</p> <p><u>10-1, Part 4: Adaptive management</u> The developer will implement adaptive management as described in section 6 of the Wildlife Management and Monitoring Plan and following guidance in Appendix B of this report.</p>
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to the developer, but requires the developer to consult with ECCC and GNWT-ENR. As such, it is being reported on by GNWT under both Measures 14-1 and 14-2.</p> <p>Reporting under Measure 14-1 a) 10-1, Part 1: Pre-construction bird surveys: No change from the 2019-2020 response.</p> <p>10-1, Part 2: Mitigation: No change from the 2019-2020 response. No active bird nests were encountered during this reporting period.</p> <p>10-1, Part 3: Monitoring and reporting: No change from the 2019-2020 response. No active bird nests were encountered during this reporting period.</p> <p>10-1, Part 4: Adaptive management: No change from the 2019-2020 response.</p> <p>b) No change from the 2019-2020 response.</p> <p>Reporting under Measure 14-2 a) ENR was not consulted on appropriate species-specific buffer zones or setbacks for bird species at risk and migratory birds. As to ENR's knowledge, no active bird nests were encountered or reported by the developer during the reporting period.</p> <p>b) Not applicable as this measure is primarily directed to the developer.</p>		<p>This measure is directed to the developer, but requires the developer to consult with ECCC and GNWT-ENR. As such, it is being reported on by GNWT under both Measures 14-1 and 14-2.</p> <p>Reporting under Measure 14-1 a) 10-1, Part 1: Pre-construction bird surveys: No change from the 2019-2020 response.</p> <p>10-1, Part 2: Mitigation: No change from the 2019-2020 response. No active bird nests were encountered during this reporting period</p> <p>10-1, Part 3: Monitoring and reporting: No change from the 2019-2020 response. No active bird nests were encountered during this reporting period</p> <p>10-1, Part 4: Adaptive management: No change from the 2019-2020 response. Mitigation measures put in place appear to be working effectively.</p> <p>b) No change from the 2019-2020 response.</p> <p>Reporting under Measure 14-2 a) ENR was not consulted on appropriate species-specific buffer zones or setbacks for bird species at risk and migratory birds. As to ENR's knowledge, no active bird nests were encountered or reported by the developer during the reporting period.</p> <p>b) Not applicable as this measure is primarily directed to the developer.</p>

MEASURE		MEASURE SPECIFICS
Species at risk and wildlife, other than caribou		
Measure 10-2	Wildlife Management and Monitoring Plan approval, annual review and reporting Part 1 WMMP update prior to permitting Part 2 WMMP update during permitting Part 3 Annual review of the WMMP during construction and operations.	<p><u>10-2, Part 1: Wildlife Management and Monitoring Plan update prior to permitting</u> The developer will update its Wildlife Management and Monitoring Plan prior to permitting to include the developer's commitments and Review Board's measures from this <i>Report of Environmental Assessment</i>.</p> <p>Prior to permitting, the developer will, where appropriate, include Traditional Knowledge from all Aboriginal groups that harvest in the area on ways to mitigate, monitor and adaptively manage impacts from the Project to wildlife.</p> <p><u>10-2, Part 2: Wildlife Management and Monitoring Plan update during permitting</u> During permitting, the developer will involve Environment and Climate Change Canada, GNWT-ENR, Wek'èezhì Renewable Resources Board, Tłı̨chǫ Government and Aboriginal groups that harvest in the area, in developing an updated Wildlife Management and Monitoring Plan. Monitoring will meet the requirements of Appendix C.</p> <p>When updating the Wildlife Management and Monitoring Plan, the developer will, where appropriate, include Traditional Knowledge from all Aboriginal groups that harvest in the area on ways to mitigate, monitor, and adaptively manage impacts from the Project to wildlife. The Wildlife Management and Monitoring Plan will be updated based on the results of available surveys and monitoring, such as caribou, bird (Measure 10-1), and moose surveys.</p> <p>The Wildlife Management and Monitoring Plan will require that construction activities, including clearing, consider sensitive wildlife periods, for example nesting periods of migratory birds.</p> <p><u>10-2, Part 3: Annual review of the Wildlife Management and Monitoring Plan during construction and operations</u> GNWT-ENR will require annual public review of the Wildlife Management and Monitoring Plan and make publicly viewable:</p> <ul style="list-style-type: none"> • recommendations from parties; • responses on how recommendations were incorporated; and, • reasons for recommendations which were not incorporated.
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed primarily to the developer, but requires GNWT-ENR involvement. As such, it is being reported on under both Measures 14-1 and 14-2.</p> <p>Reporting under Measure 14-1 a) 10-2, Part 1: Wildlife Management and Monitoring Plan update prior to permitting: This portion of the measure was completed in the 2018-2019 reporting period and remains the same.</p> <p>10-2, Part 2: Wildlife Management and Monitoring Plan update during permitting: This portion of the measure was completed in the 2018-2019 reporting period and remains the same.</p> <p>10-2, Part 3: Annual review of the Wildlife Management and Monitoring Plan during construction and operations: Version 4.0 of the TASR WMMP was circulated for public review in September 2020, and version 4.2 of the TASR WMMP was approved by ENR on March 01, 2021. The next public review will take place in September 2021.</p> <p>b) No change from the 2019-2020 response.</p> <p>Reporting under Measure 14-2 a) 10-2, Part 1: Wildlife Management and Monitoring Plan update prior to permitting: This portion of the measure is reported on through Measure 14-1 (see above).</p> <p>10-2, Part 2: Wildlife Management and Monitoring Plan update during permitting: This portion of the measure is reported on through Measure 14-1 (see above).</p> <p>10-2, Part 3: Annual review of the Wildlife Management and Monitoring Plan during construction and operations: This portion of the measure is reported on through Measure 14-1 (see above).</p> <p>b) The first annual review of the TASR WMMP was successfully completed in fall 2020, and the most recent version (4.2) of the WMMP was approved in March 2021. The annual review process was effective in incorporating new information into the plan and allowing different parties to recommend changes to the plan or to identify areas where implementation of the plan may have been deficient. During the first annual review, comments were submitted by Environment and Climate Change Canada, the</p>		<p>This measure is directed primarily to the developer, but requires GNWT-ENR involvement. As such, it is being reported on under both Measures 14-1 and 14-2.</p> <p>Reporting under Measure 14-1 a) 10-2, Part 1: Wildlife Management and Monitoring Plan update prior to permitting: This portion of the measure was completed in the last reporting period and remains the same.</p> <p>10-2, Part 2: Wildlife Management and Monitoring Plan update during permitting: This portion of the measure was completed in the last reporting period and remains the same.</p> <p>10-2, Part 3: Annual review of the Wildlife Management and Monitoring Plan during construction and operations: Version 5.0 of the TASR Wildlife Management and Monitoring Plan (WMMP) was circulated for public review in September 2021. Version 5.2 of the TASR WMMP was approved by the WLWB on February 9, 2022, while ENR approved the same Version on March 21, 2022.</p> <p>b) No change from the 2019-2020 response.</p> <p>Reporting under Measure 14-2 a) 10-2, Part 1: Wildlife Management and Monitoring Plan update prior to permitting: This portion of the measures has been completed and there is no change to the previous reporting.</p> <p>10-2, Part 2: Wildlife Management and Monitoring Plan update during permitting: This portion of the measure has been completed and there is no change to the previous reporting.</p> <p>10-2, Part 3: Annual review of the Wildlife Management and Monitoring Plan during construction and operations: In September 2021, INF submitted version 5.0 of the TASR WMMP to the Wek'èezhì Land and Water Board (WLWB). A 30-day public review period was undertaken, with submissions made to the WLWB's Online Review System (ORS) by Environment and Climate Change Canada, the North Slave Métis Alliance, and the Wek'èezhì Renewable Resources Board (WRRB). In consultation with ENR staff, INF developed responses to comments received, revised the WMMP to</p>

Tłıchǫ Government, the Wek'èezhì Land and Water Board and the Wek'èezhì Renewable Resource Board.

address the comments and, on November 12, 2021, submitted Version 5.1 of the TASR WMMP to the WRRB as a management proposal under Section 12.5.1 of the Tłıchǫ Agreement. In a letter to INF on December 09, 2021, the WRRB indicated its approval of Version 5.1 of the TASR WMMP as submitted. On January 28, 2022, INF submitted Version 5.2 of the TASR WMMP to ENR and the WLWB. INF updated Version 5.2 with minor administrative changes. The WLWB approved Version 5.2 of the TASR WMMP on February 09, 2022 [while ENR approved the same version](#) on March 21, 2022.

Construction of the TASR was completed in November of 2021. A comprehensive WMMP report providing a summary and analysis of the wildlife mitigation and monitoring programs undertaken during the pre-construction and construction phase is required to be submitted to ENR by March 31, 2023.

- b) The annual review process was effective in incorporating new information into the plan and allowing different parties to recommend changes to the plan or to identify areas where implementation of the plan may have been deficient.

MEASURE		MEASURE SPECIFICS
Permafrost		
Measure 11-1	Permafrost Management Plan	<p>To minimize permafrost degradation and prevent associated significant adverse impacts on the environment from the Project during construction and operation of the Project, the developer will develop and implement a permafrost management plan for construction and maintenance of the Project. The plan will be submitted for review and approval to the Wek'èezhì Land and Water Board prior to construction.</p> <p>This plan will include monitoring (following the requirements in Appendix C) and adaptive management (following the requirements in Appendix B). It will incorporate the recommendations made by Natural Resources Canada during the environmental assessment process as well as recommendations from the working group (Measure 14-3).</p> <p>The developer will incorporate any relevant information from the permafrost management plan into ongoing monitoring and adaptive management during Project operations.</p>
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) No change from the 2019-2020 response.</p> <p>b) No change from the 2019-2020 response.</p>		<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) No action was taken during the reporting period. Infrastructure is currently examining the operation of the existing thermistors, as there was damage to some of these units during the construction of the highway, and some units were placed off the highway final right-of way based on the original conceptual highway alignment.</p> <p>b) No change from the 2019-2020 response</p>

MEASURE		MEASURE SPECIFICS
Adaptive management, follow-up, and monitoring		
Measure 14-1	Annual reporting from the developer	<p>To demonstrate how measures are being implemented and to evaluate the effectiveness of the developer's efforts to prevent or minimize impacts on the environment, the developer will, throughout all phases of the development, prepare an annual report on the implementation of measures. The report will address the measures that the developer is responsible for and will:</p> <p>a) describe the actions, including actions implemented through adaptive management, being undertaken to implement the measures; and, b) evaluate how effective the implementation actions are in reducing or avoiding the impact (considering the results of monitoring programs and adaptive management frameworks). Where applicable, provide references to further information contained in other management plans or monitoring reports.</p> <p>The developer will provide its annual report to the Review Board one year from the date of the final approval of this <i>Report of Environmental Assessment</i>, and annually thereafter.</p>
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>The reporting requirement from the developer falls under the Environmental Assessment (EA) Measure 14-1, which comprises of the following EA Measures:</p> <ol style="list-style-type: none"> 1. Measure 5-1 2. Measure 5-2 3. Measure 5-3 4. Measure 5-4 5. Measure 5-5 6. Measure 5-7 7. Measure 6-3 8. Measure 7-1 9. Measure 8-1 10. Measure 9-2 11. Measure 9-3 12. Measure 10-1 13. Measure 10-2 14. Measure 11-1 15. Measure 14-1 16. Measure 14-3 17. Measure 14-4 		<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>The reporting requirement from the developer falls under the Environmental Assessment (EA) Measure 14-1, which comprises of the following EA Measures:</p> <ol style="list-style-type: none"> 1. Measure 5-1 2. Measure 5-2 3. Measure 5-3 4. Measure 5-4 5. Measure 5-5 6. Measure 5-7 7. Measure 6-3 8. Measure 7-1 9. Measure 8-1 10. Measure 9-2 11. Measure 9-3 12. Measure 10-1 13. Measure 10-2 14. Measure 11-1 15. Measure 14-1 16. Measure 14-3 17. Measure 14-4

MEASURE		MEASURE SPECIFICS
Adaptive management, follow-up, and monitoring		
Measure 14-2	Annual reporting from government and regulatory authorities	<p>To help evaluate the effectiveness of mitigation measures for the protection of the environment, each regulatory authority or government that is wholly or partly responsible for implementation of any measure in this <i>Report of Environmental Assessment</i> will prepare an annual report on implementation of measures. The report will:</p> <p>a) describe the actions being undertaken to implement the measures or the part(s) of the measures for which the regulatory authority or government is responsible; and, b) explain how these actions, including those implemented through adaptive management, fulfill the intent of the EA measures, including consideration of the following questions:</p> <p>i. How are implementation actions addressing a likely significant adverse impact on the environment? ii. How effective are implementation actions at reducing or avoiding the impact or its likelihood?</p> <p>Government and regulators are only responsible for reporting on the implementation actions they take, not actions taken by the developer. For example, if a regulator does not issue an authorization, provide direction to the developer, approve a management plan, or take other actions that relate to an EA measure(s) in a given year, the regulator will not need to submit a report for that year.</p> <p>The governments and regulators will provide their annual reports to the Review Board one year from the date of the final approval of this <i>Report of Environmental Assessment</i>, and annually thereafter.</p>
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to the regulatory authorities and/or governments, including the GNWT, reporting under Measure 14-2</p> <p>The following Measures fall under the reporting requirements of Measure 14-2 for the Government and Regulatory Authorities:</p> <ol style="list-style-type: none"> 1. Measure 5-2 2. Measure 5-6 3. Measure 6-1 4. Measure 6-2 5. Measure 6-3 6. Measure 7-2 7. Measure 8-1 8. Measure 9-1 9. Measure 9-3 10. Measure 10-1 11. Measure 10-2 12. Measure 14-2 		<p>This measure is directed to the regulatory authorities and/or governments, including the GNWT, reporting under Measure 14-2</p> <p>The following Measures fall under the reporting requirements of Measure 14-2 for the Government and Regulatory Authorities:</p> <ol style="list-style-type: none"> 1. Measure 5-2 2. Measure 5-6 3. Measure 6-1 4. Measure 6-2 5. Measure 6-3 6. Measure 7-2 7. Measure 8-1 8. Measure 9-1 9. Measure 9-3 10. Measure 10-1 11. Measure 10-2 12. Measure 14-2

MEASURE		MEASURE SPECIFICS
Adaptive management, follow-up, and monitoring		
Measure 14-3	Project working group	<p>The developer will establish the Tłıchǝ All-Season Road Corridor Working Group by:</p> <ul style="list-style-type: none"> • funding the Tłıchǝ Government, Wek'èezhì Renewable Resources Board, Yellowknives Dene First Nation and North Slave Métis Alliance to participate in twice annual working group meetings, one of which will annually take place in Whatì; • requiring the participation of the P3 operator; and, • inviting Tłıchǝ Elders to participate. <p>The developer will make meeting minutes publicly available. The developer will maintain the working group throughout the Project construction phase and for five years of Project operations, unless an extended term is agreed to by parties.</p>
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) The Tłıchǝ All-Season Road Corridor Working Group was formed in May 2019. It is made up of representatives from the following interested parties:</p> <ul style="list-style-type: none"> • The Tłıchǝ Government • Yellowknives Dene First Nations • North Slave Métis Alliance • Prince of Wales Northern Heritage Centre • Community Government of Whatì • Community Government of Behchokǝ • Wek'èezhì Renewable Resources Board • Wek'èezhì Land and Water Board • Environmental and Natural Resources • Department of Lands • Department of Infrastructure • Department of Finance • Fisheries and Oceans Canada • Environment and Climate Change Canada • North Star Infrastructure • Associated Engineering <p>Due to COVID-19 restrictions, the Corridor Working Group held virtual meetings on December 1, 2020 and June 16, 2021, respectively. The final meeting minutes for December 1, 2020 can be found here while the minutes for the June 16, 2021 meeting are currently being finalized. The next meeting is schedule for the second week of December 2021.</p> <p>b) No change from the 2019-2020 response.</p>		<p>This measure is directed to the developer, reporting under Measure 14-1</p> <p>a) The Tłıchǝ All-Season Road Corridor Working Group (CWG) was formed in May 2019. It is made up of representatives from the following interested parties:</p> <ul style="list-style-type: none"> • The Tłıchǝ Government • Yellowknives Dene First Nations • North Slave Métis Alliance • Prince of Wales Northern Heritage Centre • Community Government of Whatì • Community Government of Behchokǝ • Wek'èezhì Renewable Resources Board • Wek'èezhì Land and Water Board • Environmental and Natural Resources • Department of Lands • Department of Infrastructure • Department of Finance • Fisheries and Oceans Canada • Environment and Climate Change Canada • North Star Infrastructure • Mackenzie Valley Environmental Impact Review Board (New addition) <p>At their request, the Mackenzie Valley Environmental Impact Review Board has been added to the list of interested parties for subsequent meetings.</p> <p>The CWG met on June 16, 2021, and on December 15, 2021, respectively. The final meeting minutes are yet to be uploaded onto the WLWB's public registry. Another meeting was held on June 13, 2022, and the second meeting for 2022 is scheduled for December 7, 2022. INF is currently taking steps to upload all previous meeting minutes to its website as well. In response to issues arising from the June 13, 2022, meeting, INF intends to amend and update the CWG Terms of Reference to address the issues.</p> <p>a) No change from the 2019-2020 response.</p>

MEASURE		MEASURE SPECIFICS
Adaptive management, follow-up, and monitoring		
Measure 14-4	P3 operator agreement	To ensure that all applicable and relevant commitments of the developer and measures directed at the developer are carried out during the construction and operation phases of the Project, the developer will formalize and include these commitments and measures in its final contract with the P3 operator.
DESCRIPTION OF HOW MEASURE IS BEING SATISFIED and UNDER WHICH MEASURE (14-1 or 14-2) THE REPORT IS BEING MADE		
2020-2021 DETAIL ON MEASURE PROGRESS		2021-2022 DETAIL ON MEASURE PROGRESS
This measure is directed to the developer, reporting under Measure 14-1 The reporting details for Measure 14-4 remain identical to last year's report.		This measure is directed to the developer, reporting under Measure 14-1 The reporting details for Measure 14-4 remain identical to last year's report.

<u>Various Acronyms:</u> Developer = GNWT-INF with NSI (P3 Contractor) where applicable GNWT = Regulatory Authority/Responsible Minister DFO = Fisheries and Oceans Canada ECCC = Environment and Climate Change Canada ENR = GNWT – Environment and Natural Resources INF = GNWT – Infrastructure TCSA = Tłchq Community Services Agency NBAC = National Burn Area Composite CNFDB = Canadian National Fire Database	REA = Report of Environmental Assessment TK = traditional knowledge WLWB = Wek'èezhì Land and Water Board WMMP = Wildlife Management and Monitoring Plan GNWT = Government of Northwest Territories MACA = Municipal and Community Affairs HSS = Health and Social Services CGW = Community Government of Whatì TIC = Tłchq Investment Corporation	AE = Associated Engineering YKDFN = Yellowknives Dene First Nation TG = Tłcho Government NSMA = North Slave Métis Alliance TASR = Tłchq All-Season Road GAHR = Ground Ambulance Highway Rescue WRRB = Wek'èezhì Renewal Resources Board CGB = Community Government of Behchokò CIMP = Cumulative Impact Monitoring Program
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