



# Back River Project Type A Water Licence Amendment

Public Hearing and Community Session – July 13/14, 2021



# Forward Looking Information

Statements relating to our belief as to the timing of completion of the environmental assessment, the results of the final public hearings, the timing of receipt of a project certificate and permits and the timing of the start of construction and the first gold pour, and the results of further optimization studies to the feasibility study, the potential tonnage and grades and contents of deposits and the potential production from and viability of Sabina's properties are forward looking information within the meaning of securities legislation of certain Provinces in Canada. Forward looking information are statements that are not historical facts and are generally, but not always identified by the words "expects," "plans," "anticipates," "believes," "intends," "estimates," "projects," "potential," "opportunities," and similar expressions, or that events or conditions "will," "would," "may," "could," or should occur. The forward looking information is made of the date of this presentation. This forward looking information is subject to a variety of risks and uncertainties which could cause actual events or results to differ materially from those reflected in the forward looking information, including, without limitation: the effects of general economic conditions; changing foreign exchange rates; risks associated with exploration and project development; the calculation of mineral resources and reserves; risks related to fluctuations in metal prices; uncertainties related to raising sufficient financing to fund the planned work in a timely manner and on acceptable terms; changes in planned work arising from weather, logistical, technical or other factors; the possibility that results of work will not fulfill expectations and realize the perceived potential of the Company's properties; risk of accidents, equipment breakdowns and labour disputes; access to project funding or other unanticipated difficulties or interruptions; the possibility of cost overruns or unanticipated expenses in the work program; title matters; government regulation; obtaining and receiving necessary licenses and permits; the risk of environmental contamination or damage resulting from Sabina's operations and other risks and uncertainties including those described in Sabina's annual information form for the year ended December 31, 2019 available at [www.sedar.com](http://www.sedar.com)

Forward looking information is based on the beliefs, estimates and opinions of Sabina's management on the date the statements are made. Sabina undertakes no obligation to update the forward looking information should management's beliefs, estimates or opinions, or other factors, change, except as required by applicable law

# Technical Meeting Presentation Outline

- Sabina Gold & Silver Corp.
- Back River Project Overview
- Modification/Amendment Overview
- Mitigation, Management, and Monitoring Plans
- Technical Comments
- Consultation and Engagement Summary

# Sabina Gold & Silver Corp.

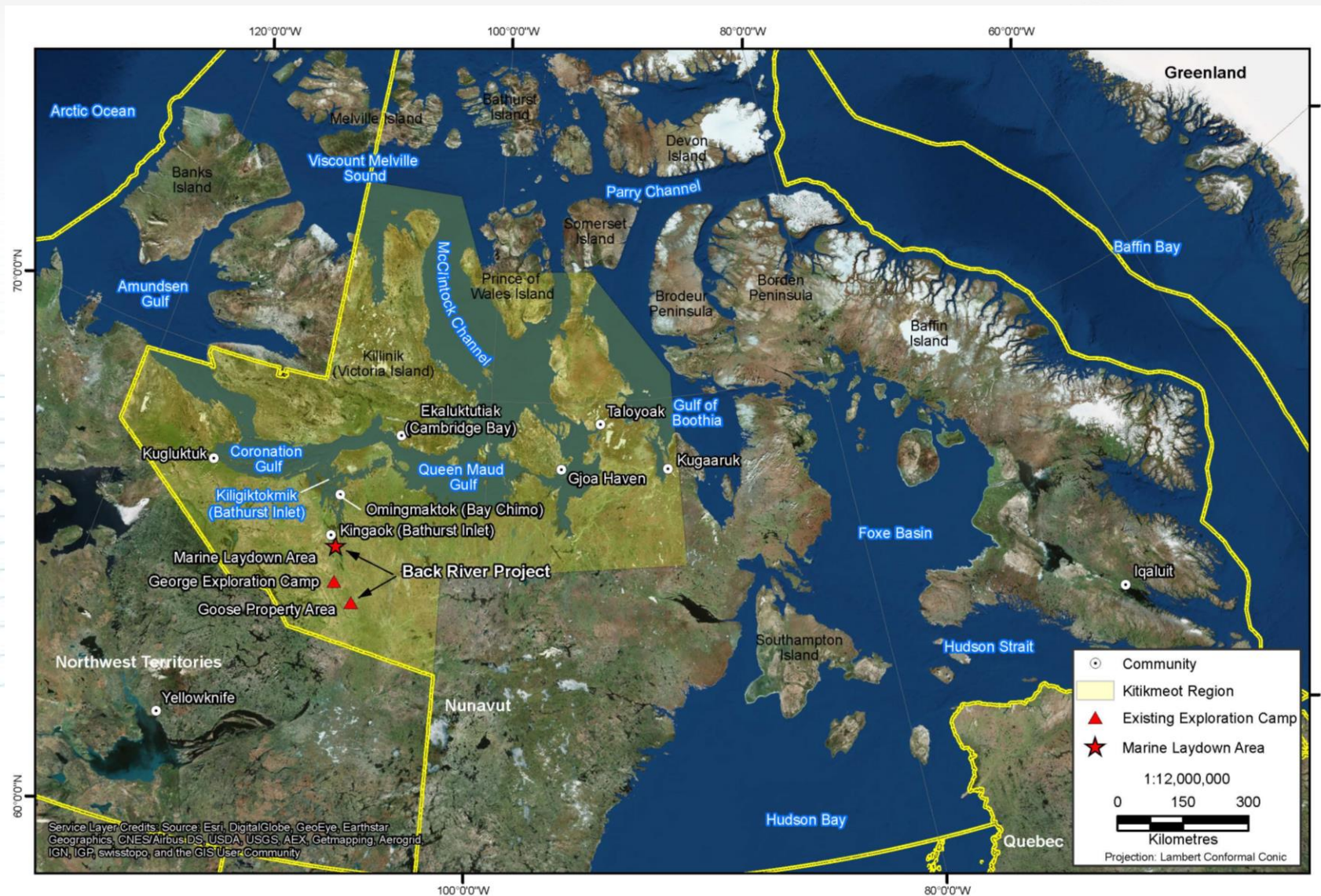
- Sabina is a Vancouver, Canada based precious metals company on track to become a mid-tier gold producer
- Listed on the Toronto Stock Exchange (TSX: SBB)
- Skilled staff with extensive northern experience
- Sabina is committed to sustainable northern development and acknowledges the need for effective community engagement
- Projects in Nunavut
  - **Back River Gold Project, Nunavut**
  - Wishbone Greenstone Belt, Nunavut
  - A significant silver royalty on the Hackett River Project, Nunavut







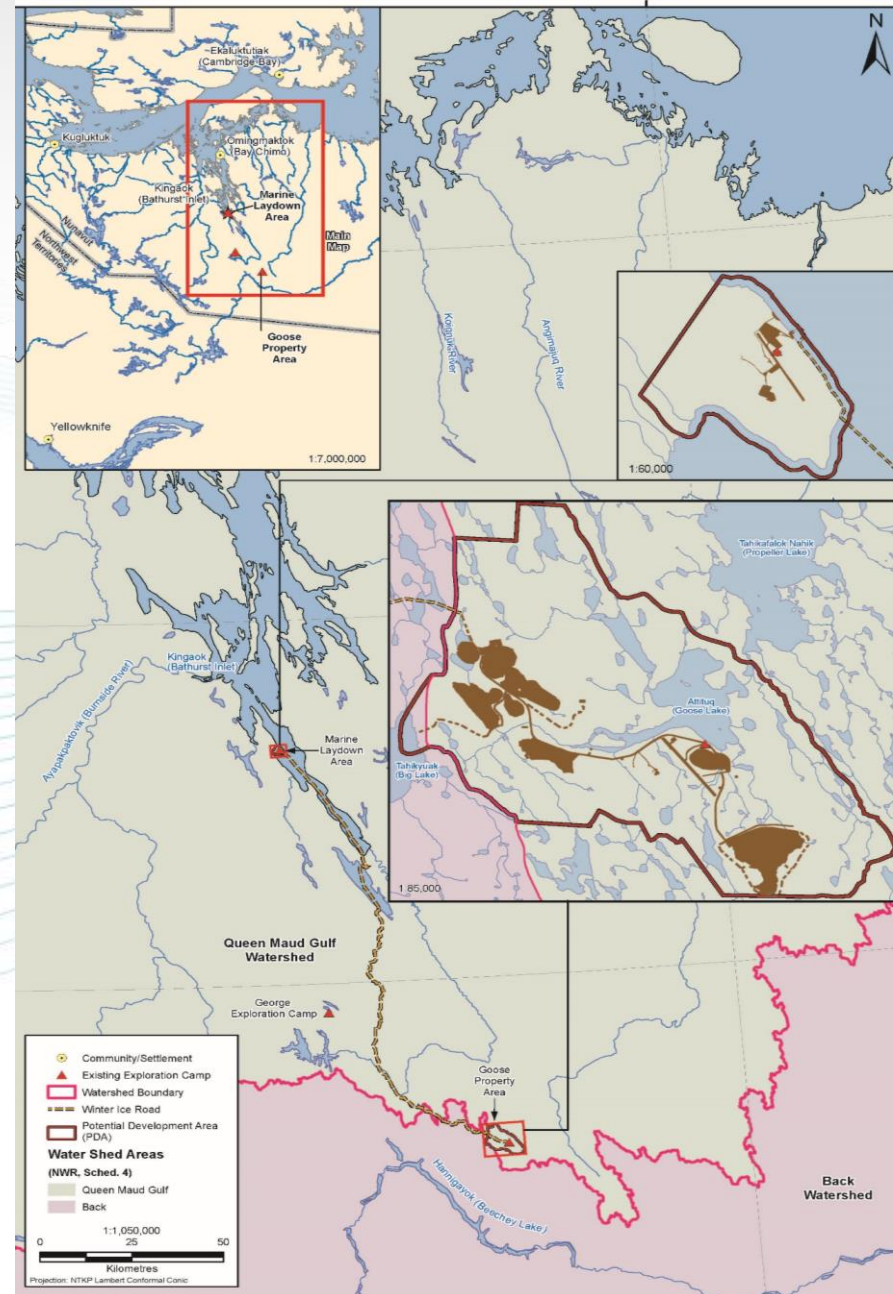
# Back River Project Location and Kitikmeot Communities





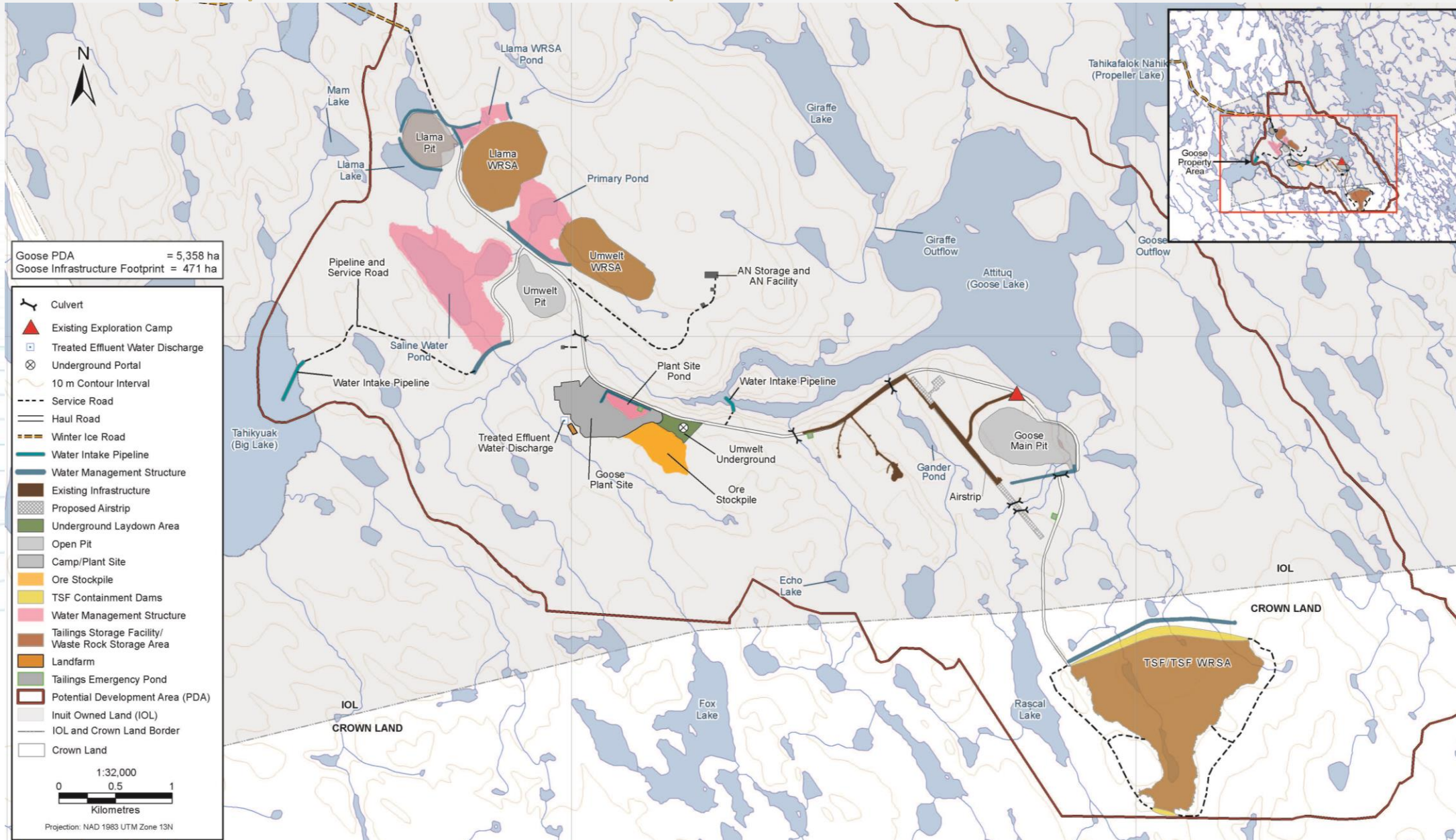
# Back River Project

- Goose Property
- Marine Laydown Area
- Winter Ice Road



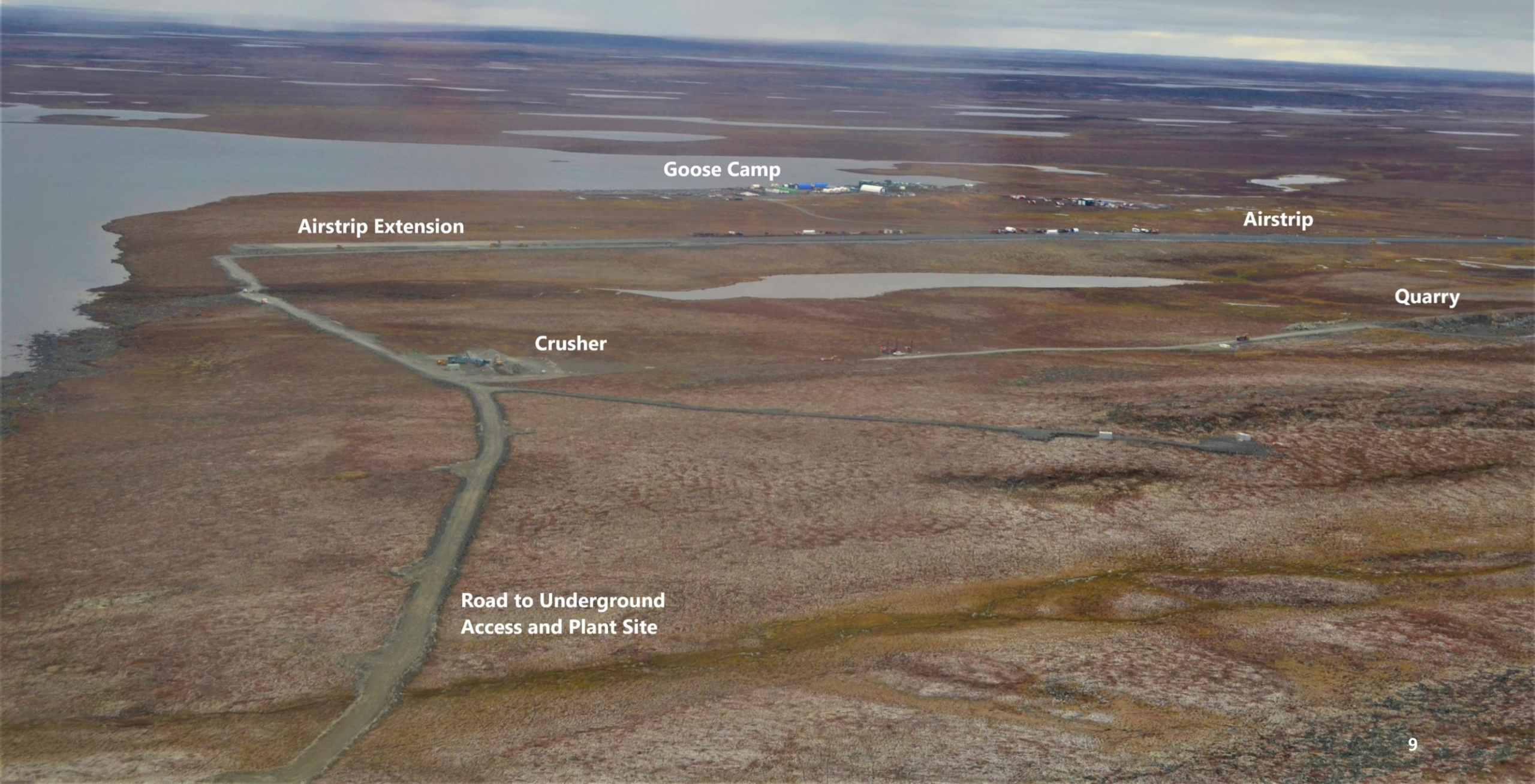


# Goose Property Area – Potential Development Area & Layout – 2020 Modification Package



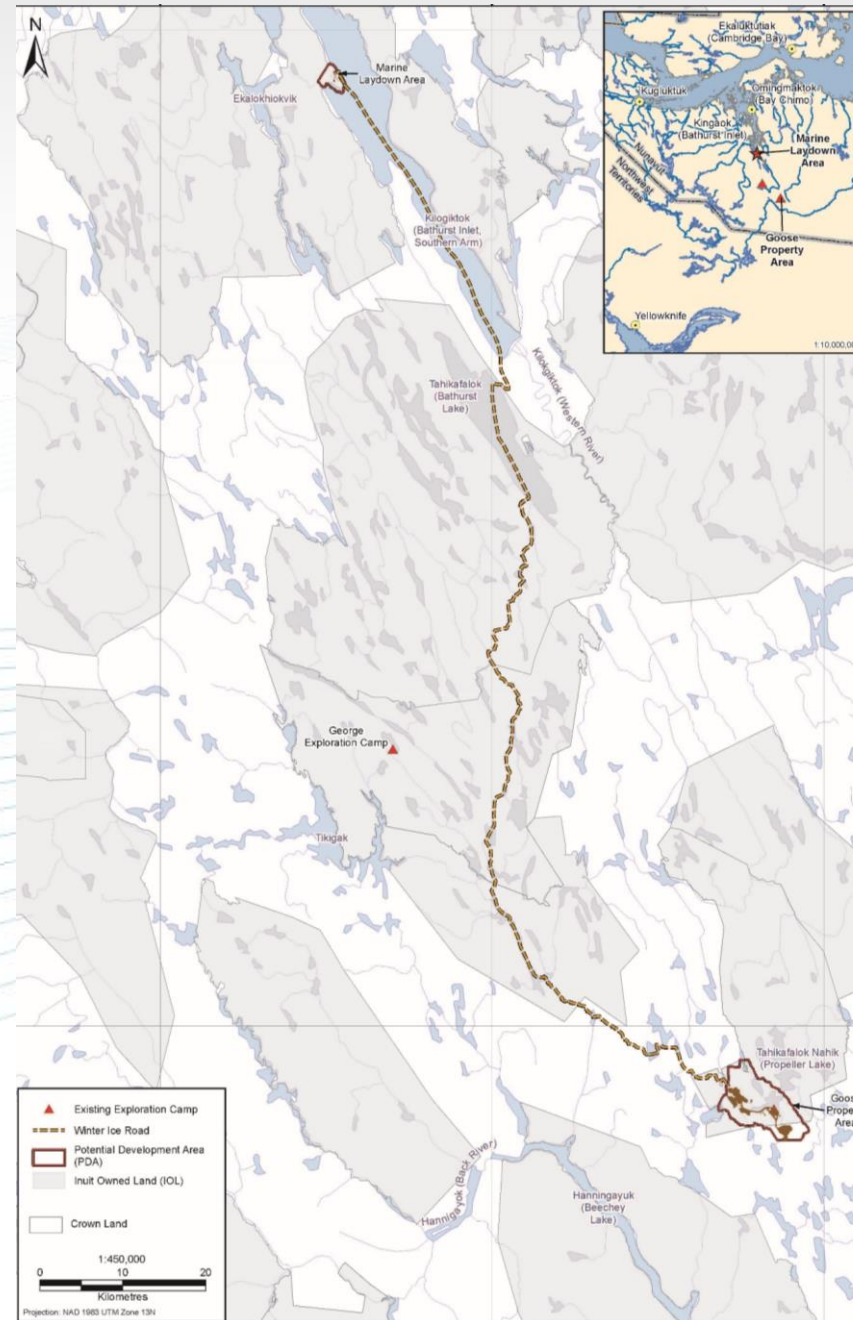


# Goose Property Area – September 2020





# Winter Ice Road Corridor – 2020 Modification Package



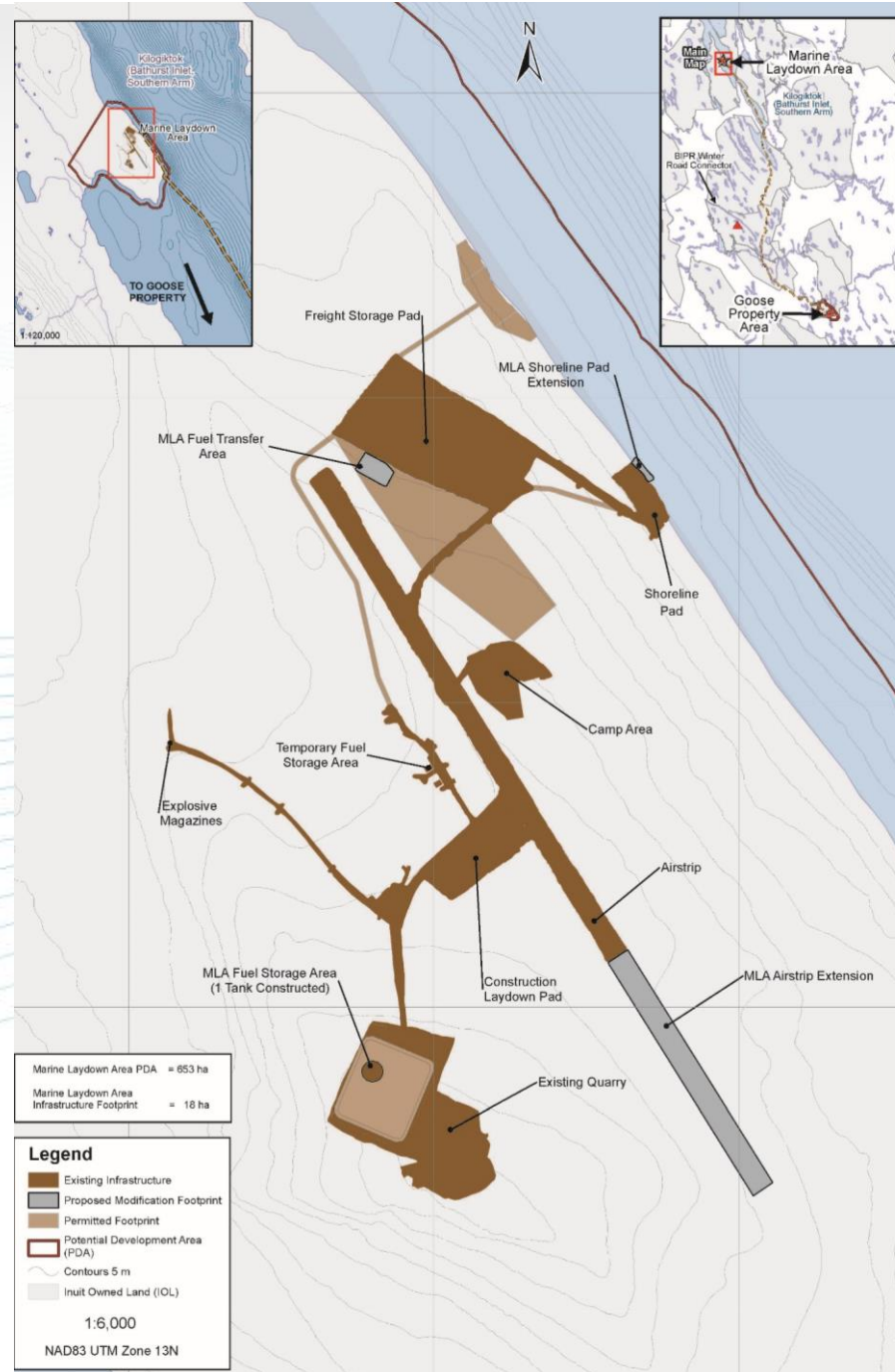


# Winter Ice Road – March 2019





# Marine Laydown Area – 2020 Modification Package





# Marine Laydown Area – September 2020





# Back River Project Regulatory History

2013  
Environmental  
Assessment  
began

2015  
Sabina  
submitted FEIS

2017  
NIRB issued  
final hearing  
report and PC  
workshop held

2017  
KIA  
Framework  
Agreement

2017 October  
Sabina  
submitted  
Type A Water  
Licence  
Application

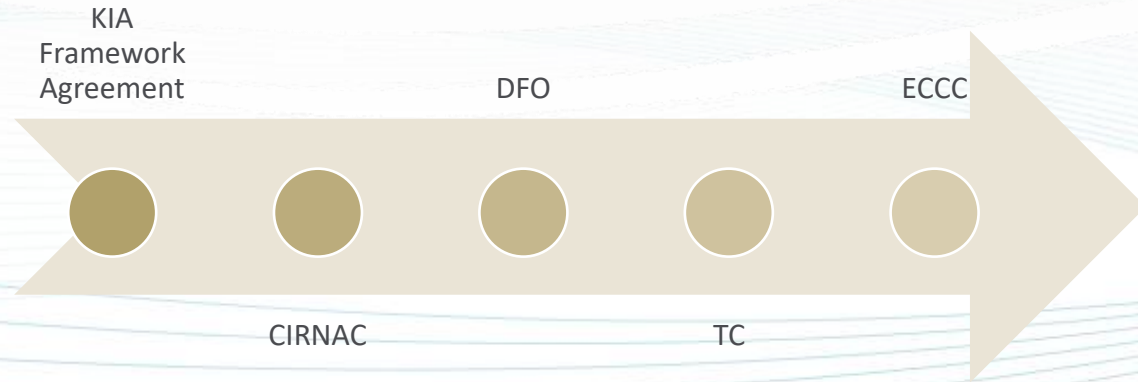
2017  
December  
Project  
Certificate  
issued

2018  
NWB Issued  
Type A and  
Minister  
approved

2020 October  
Modification  
Package  
submitted to  
NWB



# Regulatory History



- Additional Back River Project permits and authorizations

## Sabina Authorization Registry

| Authorization No.    | Expiry (yr-mo-day)          | Agency | Description   |
|----------------------|-----------------------------|--------|---|
| PC No. 007           | N/A                         | NIRB   | Back River Project NIRB Project Certificate                             |
| 2AM-BRP1831          | 2031-12-31                  | NWB    | Back River Type A Water License   |
| N/A                  | 2038-06-31                  | KIA    | Inuit Impact and Benefit Agreement                                      |
| KTCL-18D001          | 2038-04-20                  | KIA    | Commercial Lease - Goose  |
| KTCL-18D002          | 2038-04-20                  | KIA    | Commercial Lease - MLA  |
| KTCL-18D003          | 2038-04-20                  | KIA    | Commercial Lease - Winter Road  |
| KTAEL-18C001         | 2023-04-20                  | KIA    | Advanced Exploration Lease - George                                     |
| LUL-XX               | 5 years from Effective Date | KIA    | Land Use Licence as per KIA Framework Agreement                         |
| KTL312C004           | 2021-10-15                  | KIA    | Wishbone-Malley Exploration Activities                                  |
| N2018F0021           | 2023-10-29                  | CIRNAC | CAT Train Beechy Lake Area  |
| N2017F0016           | 2022-07-20                  | CIRNAC | CAT Train connecting Bathurst Inlet - Back River Project                |
| N2016C0011           | 2021-10-26                  | CIRNAC | Back River Exploration Activities                                       |
| N2018F0017           | 2023-10-11                  | CIRNAC | Winter Ice Road Back River Project                                      |
| Lease No. 76J/12-7-2 | 2048-08-14                  | CIRNAC | Marine environment land lease - adjacent to MLA                         |
| Lease No. 76J/9-1-2  | 2048-04-26                  | CIRNAC | Goose Lake Tailings Storage Facility                                    |
| 2BE-GOO2028          | 2028-02-18                  | NWB    | Goose Water Licence (Type B)  |
| 2BE-GEO2025          | 2025-05-29                  | NWB    | George Water Licence (Type B)   |
| 2BE-MLL1722          | 2022-06-29                  | NWB    | Wishbone-Malley Water Licence (Type B)                                  |
| 2BC-BRP1819          | 2019-04-30                  | NWB    | Type B Development Works Water Licence (Replaced by Type A)             |
| 12-HCAA-CA7-00007    | 2031-12-31                  | DFO    | <i>Fisheries Act</i> Authorization - Back River Project                 |
| 18-HCAA-00185        | N/A                         | DFO    | Letter of Authorization - Gander Culvert                                |
| 18-HCAA-00971        | N/A                         | DFO    | Letter of Authorization - MLA   |
| 18-HCAA-01626        | N/A                         | DFO    | Letter of Authorization - Winter Ice Road                               |
| 12-HCAA-CA7-00007    | N/A                         | DFO    | Letter of Authorization - Rascal Stream Diversion                       |
| 04 009 19R-M         | 2020-12-31                  | NRI    | Back River Project Scientific Research License                          |
| 2012-600767-002      | N/A                         | TC     | <i>Navigation Protection Act</i> - MLA Discharge Pipeline Authorization |
| 2012-600767-003      | N/A                         | TC     | <i>Navigation Protection Act</i> - MLA Intake Pipeline Authorization    |
| 2012-600767-006      | N/A                         | TC     | <i>Navigation Protection Act</i> - MLA Lightering Barge Authorization   |
| 2012-600767-004      | N/A                         | TC     | <i>Navigation Protection Act</i> - Umwelt Lake Dewatering Authorization |
| 2012-600767-005      | N/A                         | TC     | <i>Navigation Protection Act</i> - Llama Lake Dewatering Authorization  |

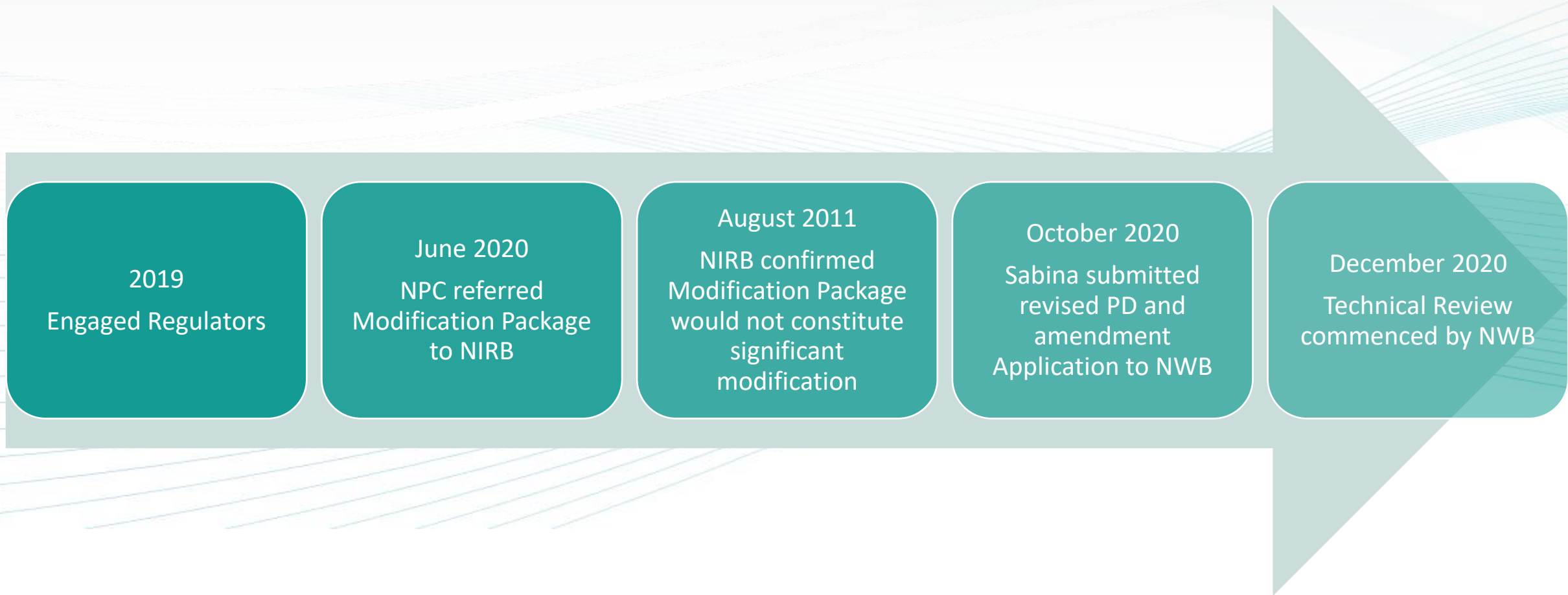




# Modification/Amendment Overview



# Modification Package – Regulatory History





## Overarching Qualification

- Sabina clarifies that mining areas and associated infrastructure already included in the Project Certificate (PC No. 007; NIRB File No. 12MN036) and the Type A Water Licence (2AM-BRP1831) will remain in the amended licence.
- Sabina confirms that the scope of activities in Part A, Item 1 of licence, 2AMB RP1831, remains unchanged, that Sabina is not requesting a reduction in Project scope, and that the new scope of activities associated with the 2020 Modification Package will be added to the licence as part of this amendment application.



# Scope of Type A Water License Amendment

- Sabina is seeking approval to include amendment activities for three main components of the Back River Project:
  - Goose Property
  - Marine Laydown Area
  - Winter Ice Road



# Goose Property

1. Goose Property Airstrip Extension
2. Umwelt Underground Extension
3. Goose Property Total Water Use Increase
4. Waste and Water Management Infrastructure





# Goose Property Amendment

- Airstrip Extension

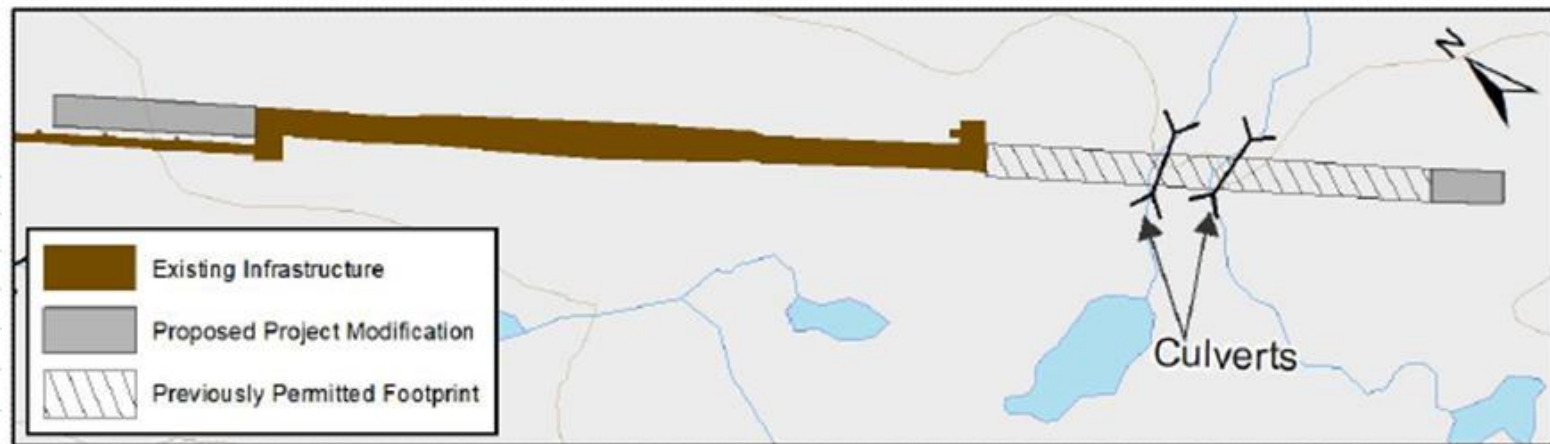
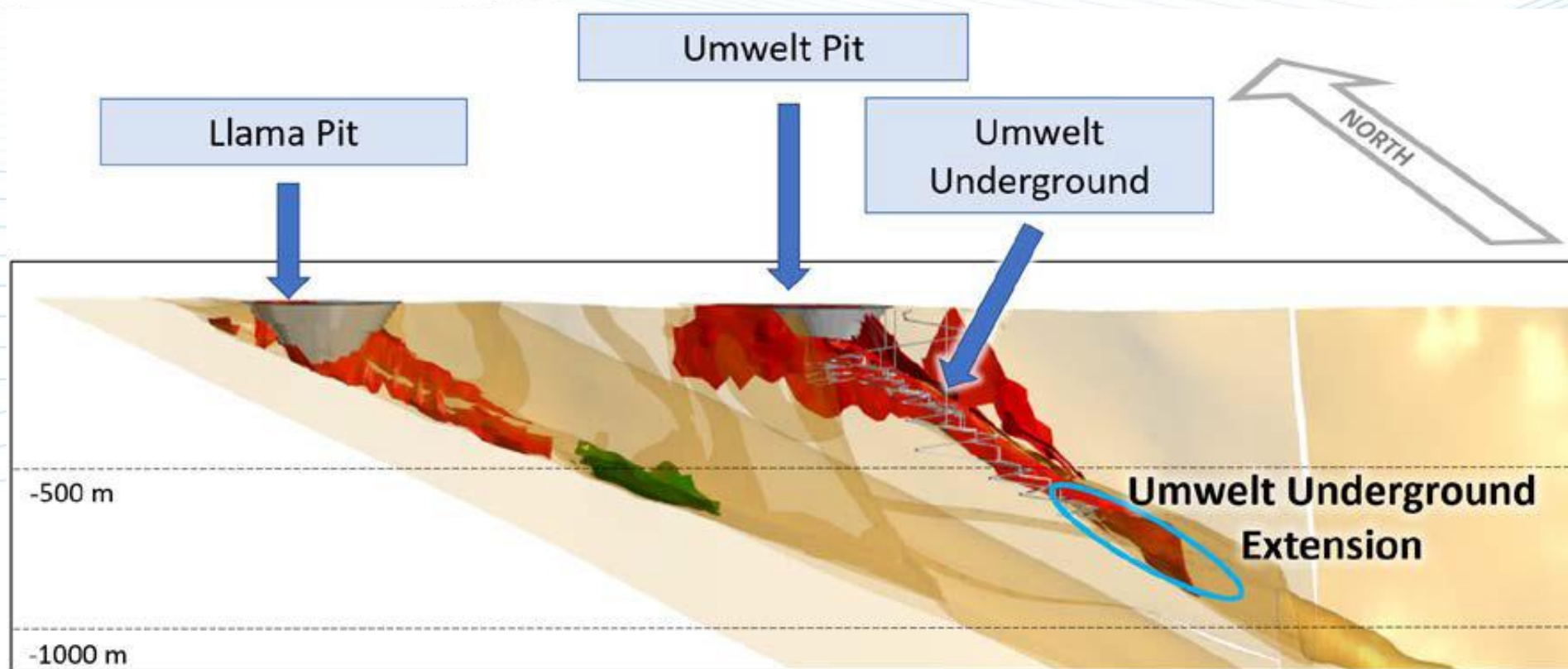


Image 2.1-1. Goose Property Airstrip - Permitting Overview



# Goose Property Amendment

- Umwelt Underground Extension





# Goose Property Amendment

- Total Water Use Increase

**Table 2.3-1. Back River Project Current and Proposed Water Usage Summary**

| Water Source                               | FEIS<br>[m <sup>3</sup> /yr] | Type A Water<br>Licence<br>Approved<br>Quantities<br>[m <sup>3</sup> /yr] | Additional<br>Amount<br>Requested<br>[m <sup>3</sup> /yr] | Total Water Use as per<br>Modification Package<br>Type A Water Licence<br>Amendment<br>[m <sup>3</sup> /yr] |
|--|------------------------------|---|---|---|
| Total Water Use: Goose Property<br>and MLA |                              | 578,000 <sup>a</sup>  | 414,450   | 992,450   |
| Total Water Use: Goose Property            | 518,000                      | 468,000   | 414,450   | 882,450   |
| Goose Lake                                 | 390,000                      | 390,000 <sup>b</sup>  | 218,700   | 608,700   |
| Big Lake                                   | 128,000                      | 78,000 <sup>c</sup>   | 195,750   | 273,750   |
| Total Water Use: MLA                       |                              | 110,000 <sup>d</sup>  | No change   | 110,000   |
| Total Water Use: Dewatering                |                              | 1,400,000 <sup>e</sup>  | No change   | 1,400,000   |
| Total Water Use: Winter Ice Road           |                              | 675 m <sup>3</sup> /km <sup>f</sup>                                       | 1,350 m <sup>3</sup> /km                                  | 2,025 m <sup>3</sup> /km  |

a Total Use for domestic, construction operation and associated use including mining and milling as per Type A Water Licence 2AM-BRP1831 Part E, Item 3.

b As per Type A Water Licence 2AM-BRP1831 Part E, Item 3a.

c As per Type A Water Licence 2AM-BRP1831 Part E, Item 3b.

d As per Type A Water Licence 2AM-BRP1831 Part E, Item 3c.

e As per Type A Water Licence 2AM-BRP1831 Part E, Item 4.

f As per Type A Water Licence 2AM-BRP1831 Part E, Item 5.



# Goose Property Amendment

- Waste and Water Management

Table 3.1-1. Back River Project Mine Plan Comparison Table

| Category                         | Type           | Previously Permitted   | 2020 Modification Package  |
|----------------------------------|----------------|--|--|
| Project Schedule                 | Durations      | Construction: 4 years<br>Operations: 10 years<br>Closure: 8 years<br>Post-Closure: 5 years | Construction: 3 years<br>Operations: 12 years<br>Closure: 8 years<br>Post-Closure: 5 years |
|                                  | Life of Mine   | 27 Years   | 28 Years   |
| Open Pit                         | Mining Areas   | Umwelt Open Pit<br>Llama Open Pit<br>Goose Main Open Pit<br>Echo Open Pit                  | Umwelt Open Pit<br>Llama Open Pit<br>Goose Main Open Pit                                   |
| Underground                      | Mining Areas   | Umwelt Underground<br>Llama Underground<br>Goose Main Underground<br>Echo Underground      | Umwelt Underground   |
| Waste Rock Storage Areas (WRSAs) | Locations      | Umwelt WRSA<br>Llama WRSA<br>TSF WRSA<br>Echo WRSA   | Umwelt WRSA<br>Llama WRSA<br>TSF WRSA  |
|                                  | Volumes        | Waste Rock: 59.0 Mt<br>Overburden: 5.3 Mt  | Waste Rock: 86.6 Mt<br>Overburden: 6.5 Mt  |
|                                  | NPAG/PAG Ratio | NPAG <sup>1</sup> : 24.7 Mt (~42%)<br>PAG <sup>2</sup> : 34.3 Mt (~58%)                    | NPAG <sup>1</sup> : 36.2 Mt (~42%)<br>PAG <sup>2</sup> : 50.4 Mt (~58%)                    |
| Tailings Management Facilities   | Locations      | Tailings Storage Facility<br>Umwelt Tailings Facility<br>Goose Main Tailings Facility      | Tailings Storage Facility<br>Llama Tailings Facility                                       |
|                                  | Volumes        | 19.8 Mt  | 12.4 Mt  |
| Process Plant                    | Throughput     | 6,000 tpd  | 3,000 – 4,000 tpd  |

NPAG = Non-potentially acid generating; PAG = Potentially acid generating

# Marine Laydown Area

1. Fuel Transfer Area
2. Airstrip Extension
3. Shoreline Pad Extension





# Marine Laydown Area Amendment

- Fuel Transfer Area

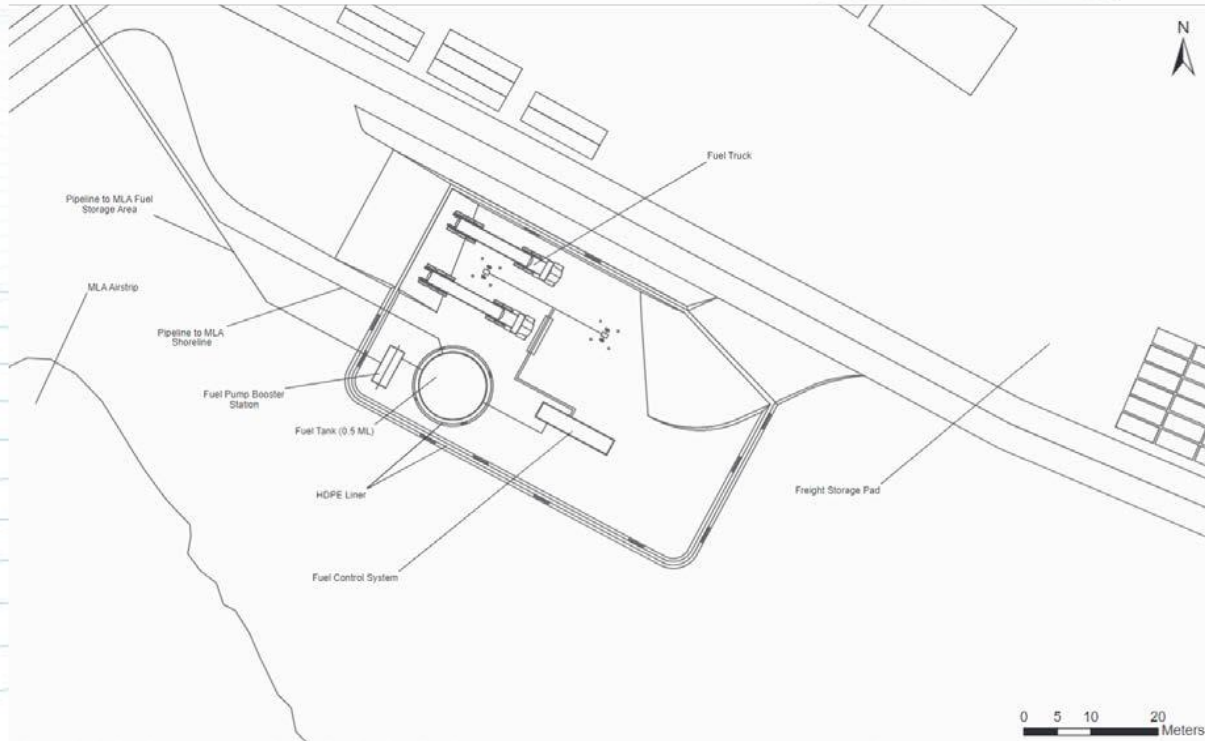


Image 4.1-1. Proposed MLA Fuel Transfer Area (in orange) adjacent to the MLA Freight Storage Pad, looking South

# Marline Laydown Area Amendment

- Airstrip Extension

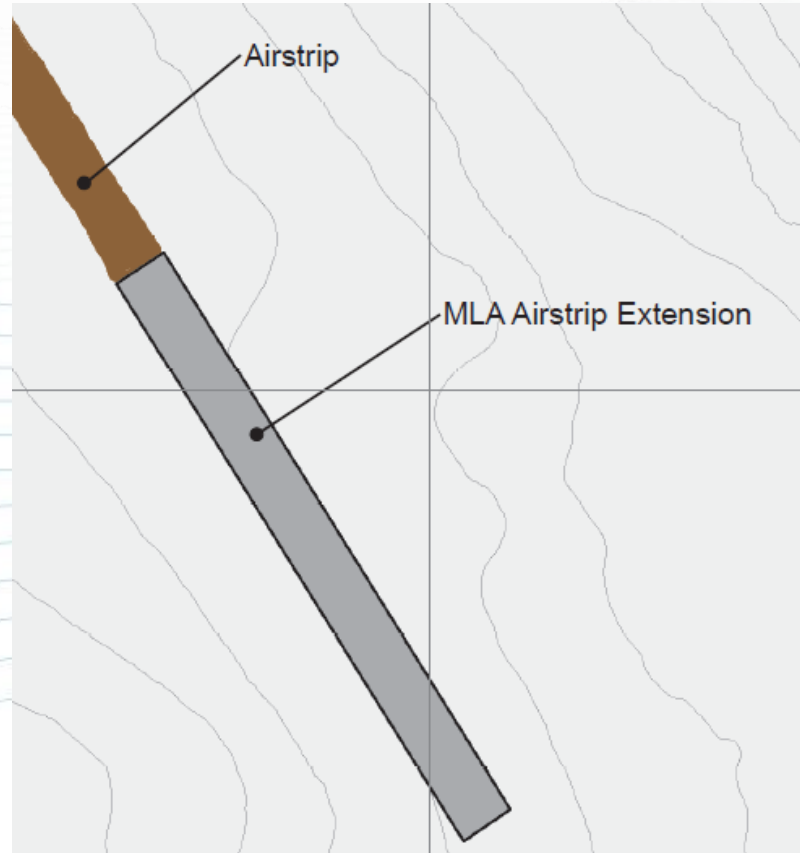


Image 4.2-1. Proposed MLA Airstrip Extension (in orange), overlaying the existing MLA All-weather Airstrip, looking South



# Marine Laydown Area Amendment

- Shoreline Pad Extension



Image 5.1-1. Existing MLA Shoreline Pad Demonstrating Current Gap between Barge and Pad



Image 5.1-2. Proposed MLA Shoreline Pad Extension (in orange) adjacent to the existing MLA Shoreline Pad, looking West

# Winter Ice Road

1. Subbase Upgrade
2. Service/Emergency Camps
3. Total Water Use Increase





# Winter Ice Road Amendment

- Subbase Upgrade



*Section of winter ice road showing typical grades, dense boulders, and undulating terrain*



*Section of winter ice road showing typical steep grades*

# Winter Ice Road Amendment

- Service/Emergency Camps





# Winter Ice Road Amendment

- Total Water Use Increase

Table 2.3-1. Back River Project Current and Proposed Water Usage Summary

| Water Source                               | FEIS<br>[m <sup>3</sup> /yr] | Type A Water<br>Licence<br>Approved<br>Quantities<br>[m <sup>3</sup> /yr] | Additional<br>Amount<br>Requested<br>[m <sup>3</sup> /yr] | Total Water Use as per<br>Modification Package<br>Type A Water Licence<br>Amendment<br>[m <sup>3</sup> /yr] |
|--|------------------------------|---|---|---|
| Total Water Use: Goose Property<br>and MLA |                              | 578,000 <sup>a</sup>  | 414,450   | 992,450   |
| Total Water Use: Goose Property            | 518,000                      | 468,000   | 414,450   | 882,450   |
| Goose Lake                                 | 390,000                      | 390,000 <sup>b</sup>  | 218,700   | 608,700   |
| Big Lake                                   | 128,000                      | 78,000 <sup>c</sup>   | 195,750   | 273,750   |
| Total Water Use: MLA                       |                              | 110,000 <sup>d</sup>  | No change   | 110,000   |
| Total Water Use: Dewatering                |                              | 1,400,000 <sup>e</sup>  | No change   | 1,400,000   |
| Total Water Use: Winter Ice Road           |                              | 675 m <sup>3</sup> /km <sup>f</sup>                                       | 1,350 m <sup>3</sup> /km                                  | 2,025 m <sup>3</sup> /km  |

a Total Use for domestic, construction operation and associated use including mining and milling as per Type A Water Licence 2AM-BRP1831 Part E, Item 3.

b As per Type A Water Licence 2AM-BRP1831 Part E, Item 3a.

c As per Type A Water Licence 2AM-BRP1831 Part E, Item 3b.

d As per Type A Water Licence 2AM-BRP1831 Part E, Item 3c.

e As per Type A Water Licence 2AM-BRP1831 Part E, Item 4.

f As per Type A Water Licence 2AM-BRP1831 Part E, Item 5.





# Mitigation, Management, and Monitoring Plans



# Mitigation, Management, and Monitoring

- Application For Amendment:
  - Water Management Plan included:
    - Saline Management Plan
    - Water and Load Balance
  - Tailings Management Plan
  - Waste Rock Management Plan
  - Borrow Pits and Quarry Management Plan
- Modification details are contained within or are being included in the next iteration of these management plans, where applicable.
- Draft Water Licence Framework (DWLF)

| MMMP   | Version NWB         |
|--|---------------------|
| Aquatic Effects Management Plan              | February, 2021 Ver3 |
| Borrow Pits and Quarry Management Plan       | November 2020 Ver3  |
| Environmental Management and Protection Plan | October 2017 Ver2   |
| Fuel Management Plan ;                       | October 2017 Ver2   |
| Hazardous Materials Management Plan          | October 2017 Ver2   |
| Incineration Management Plan                 | October 2017 Ver2   |
| Interim Closure and Reclamation Plan         | March, 2021 Ver3    |
| (including Interim Closure Cost Estimate)    | March, 2021 Ver3    |
| (included Vegetation Monitoring Plan)        | March, 2021 Ver3    |
| Landfarm Management Plan                     | October 2017 Ver2   |
| Landfill and Waste Management Plan           | October 2017 Ver2   |
| Waste Rock Management Plan                   | November 2020 Ver3  |
| Ore Storage Management Plan                  | October 2017 Ver2   |
| Risk Management and Emergency Response Plan  | August 2018 Ver3    |
| Road Management Plan                         | October 2017 Ver2   |
| Spill Contingency Plan                       | October 2017 Ver2   |
| Tailings Management Plan ; and               | November 2020 Ver3  |
| Water Management Plan                        | October 2020 Ver3   |
| (includes Saline Water Management Plan)      | October 2020 Ver3   |
| Quality Assurance/Quality Control            | October 2017 Ver1   |

# Mitigation, Management and Monitoring

- Sabina commits to provide the next update to the hydrodynamic model following approval of the licence, the updates are to take into account commitments made with respect to the submissions received during the technical review of the Application, as well as final submission and issues raised during the Public Hearing process.
- All applicable management plans will be updated, i.e.:
  - Water Management Plan
  - Tailings Management Plan
  - Waste Rock Management Plan
- The updates are to take into account commitments made with respect to the submissions received during the technical review of the Application, as well as final submission and issues raised during the Public Hearing process, where applicable.







# Final Submission and Technical Review – Overview

- Received initial Technical Comments on January 29, 2021 from CIRNAC and ECCC
- Sabina responded to initial Technical Comments on February 12, 2021 and included updated Hydrodynamic Model Report
- Received Technical Comments on March 2, 2021 from KIA, CIRNAC, and ECCC related to the Hydrodynamic Model
  - Meeting held with ECCC on March 4 to discuss questions and comments
  - Meeting held with CIRNAC on March 8 to discuss questions and comments
- Sabina responded to Hydrodynamic Model Technical Comments on March 12, 2021
- 18 Technical Comments received on the Application and 13 subsequent Technical Comments received on the Hydrodynamic Model
- Final submissions provided on June 15, with responses provided June 25



# Final Submissions – KIA

- 9 Final Submission Comments
- 7 resolved
- 2 unresolved comments in Final Submission
  - Hydrodynamic Model - Sabina provided additional requested information in Final Submission response package as well as committed to providing an updated model
  - Closure Reclamation and Security – total cost estimate has been agreed to by KIA and CIRNAC and ongoing discussion related to staging/splitting with the intent to file a joint submission prior to Public Hearing
- KIA's final presentation confirms remaining technical issues of the Hydrodynamic Model are resolved and the updated of the stage security can be completed

# Final Submissions – CIRNAC

- 9 Final Submission Comments
- 6 resolved
- 3 unresolved comments in Final Submission
  - DWLF – confirming edits to revised Version 2 pending
  - Hydrodynamic Model - Sabina provided additional requested information in Final Submission response package as well as committed to providing an updated model
  - Closure Reclamation and Security – total cost estimate has been agreed to by KIA and CIRNAC and ongoing discussion related to staging/splitting with the intent to file a joint submission prior to Public Hearing
- Sabina provided an updated DWLF (V2), committed to provided an updated Hydrodynamic Model, and anticipate stage security can be completed



## Final Submissions – ECCC

- 5 Final Submission Comments
- Sabina provided responses to all comments within our Final Response Package
- All technical comments and hydrodynamic model comments resolved or conditionally resolved as per ECCC's final presentation







# Consultation & Engagement

- Community Benefits and Engagement
- Employment and Training
- Environmental Management and Monitoring
- Traditional Knowledge
- On-going Socio-Economic Monitoring

- Sabina has engaged communities specifically regarding the Modification Package Application
- Details of the proposed modifications in the Modification Package were presented during public meetings (September 2019) in Cambridge Bay and Kugluktuk
- Sabina discussed its need to complete detailed engineering and further refinement of the Project's execution plan during public meetings held in each Kitikmeot Region community in May 2019: Cambridge Bay, Gjoa Haven, Kugaaruk, Kugluktuk, and Taloyoak



*As of December 2020; Values in black represent the total number of meetings held in or with individual communities*







