NIRB Monitoring Updat

Kitikmeot Region

Hope Bay NIRB File No. 05MN047 & 12MN001

Back River NIRB File No. 12MN036

Jericho NIRB File No. 00MN059

Public Health Recommendations:

- While at the meeting, please be considerate of public health recommendations including:
  - Masks are not mandatory but are recommended
  - hand washing,
  - cover your cough, and
  - regular use of hand sanitizers

Hunaugamik Nunavut Avatiliqinikkut Katimayit? Who Is the NIRB?

Timiuyut kitunuliqaak kavamaliqiniuyut amiqhaiyut avatingnut aktuqtaunikkut ihivriuqtauningit havaariyauyumayu tukhiutit Nunavunmi

Turaarutaa: Hapumminahuarlugit akhuurnahuarlugillu inuuhianit haffuminngat avatingnut Nunavunmiunullu aktuqtaunianut ihivriurnikkut pivallianingit

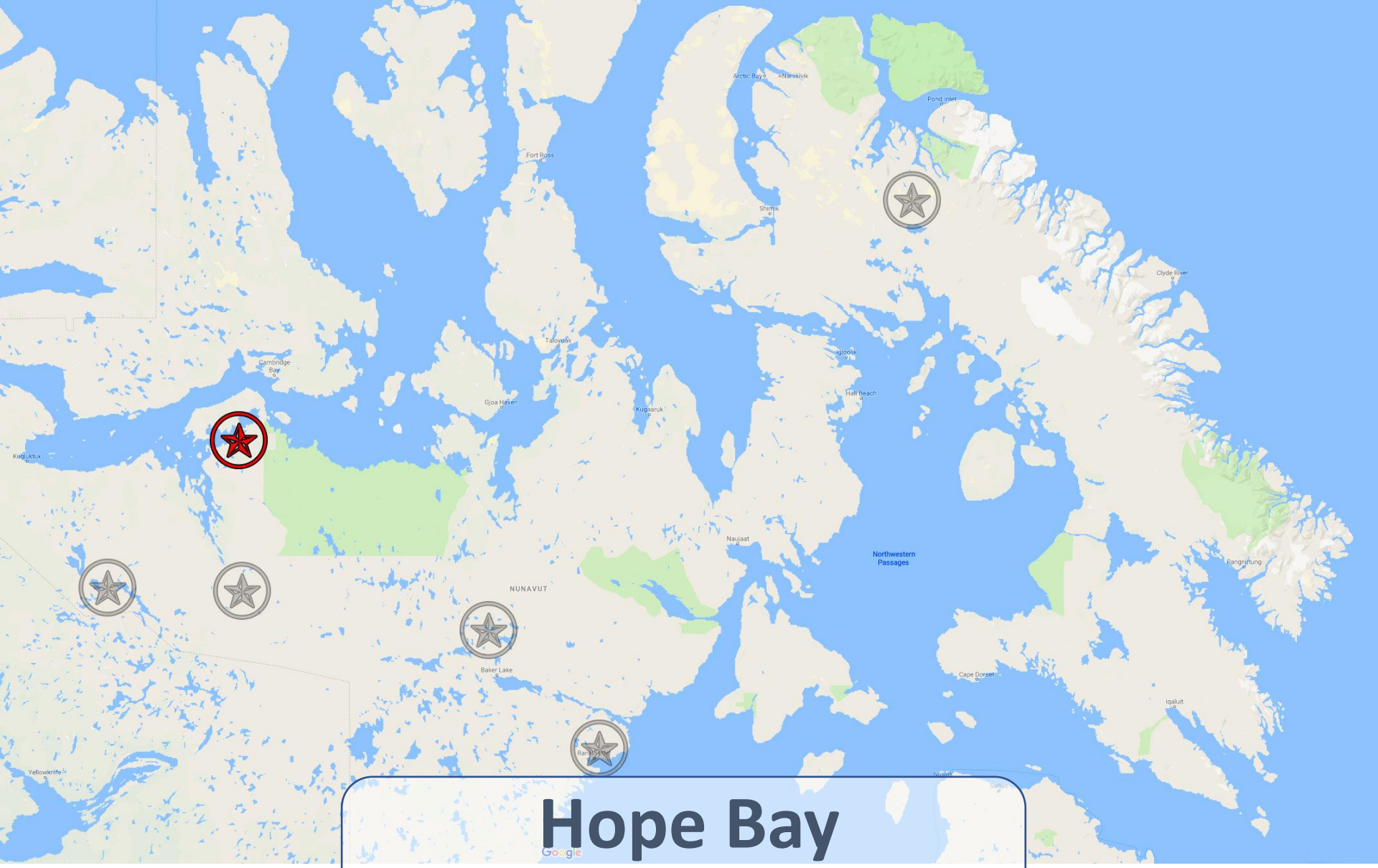
An institution of public government responsible for environmental impact assessment of proposed projects in Nunavut

Mission: To protect and promote the well being of the environment and Nunavummiut through the impact assessment process

Nakuutqiyahiuqtut Munariyaghait
Monitoring Responsibilities

NIRB	Havaaghaliuqtuq	Ataniqtuqtuiyut Havakviit
▪ Naunaitkutanik tuniqhainiq ▪ Ihivriuqhiyut Ukiuq Nunngutaanut Naunaitkutanik ▪ Havakvingnut pulaaqtut ▪ Ukiuq nunngutaanut naunaitkutat ilitturihimayainik ▪ Katimayiit pitquhimayait	▪ Naunaiqhitihimmaaqtut NIRB-kunnut ▪ Ukiuq Nunngutaanut Naunaitkutat ▪ Nakuutqiyahiuqtut Atannguyallu Parnaiyautait ▪ Pilutik pihimalugillu angiqtauhimayut ▪ Naunaiqhitiyut laisitaqvingnik	▪ Tuniqhaivaktut piinnarialiutinik angiqhivaghutiklu ▪ Ilittuqhitivaktut havaaghanit Ihuilutinik ▪ Malittiariaghainik munaqhivaktut

NIRB	Proponent	Authorizing Agencies
▪ Information distribution ▪ Review of Annual Reports ▪ Site visit(s) ▪ Annual report of findings ▪ Board recommendations	▪ Ongoing reporting to NIRB ▪ Annual Report ▪ Monitoring and Management Plans ▪ Obtain and maintain authorizations ▪ Reporting to licensing agencies	▪ Issue authorizations and approvals ▪ Report on project Effects ▪ Monitor Compliance



Hope Bay

2021 Annual Monitoring Update

NIRB File No. 05MN047 & 12MN001

Doris North

In the matter of the
Agreement Between the Inuit of the Nunavut Settlement Area
and Her Majesty the Queen in right of Canada (Nunavut Agreement),
Nunavut Agreement, S.C., 1993, c. 29
Article 12, Part 5

And

In the matter of an application by
Sabina Gold & Silver Corp.
for development of the
Back River Gold Mine Project
in the
Kitikmeot Region of Nunavut

NIRB PROJECT CERTIFICATE [NO.: 007]

December 19, 2017

- 2006: Havaaghanut Ilitaqhitjutinik / Project Certificate #003
- 2016: Ihuaqhaqtauhimayut Havaaghanut Ilitaqhitjutit / Amended Project Certificate
- 48 Uqauhiq Maliktaghaqlu Terms and Conditions

Hope Bay Phase 2

In the matter of the
Agreement Between the Inuit of the Nunavut Settlement Area
and Her Majesty the Queen in right of Canada (Nunavut Agreement),
Nunavut Agreement, S.C., 1993, c. 29
Article 12, Part 5

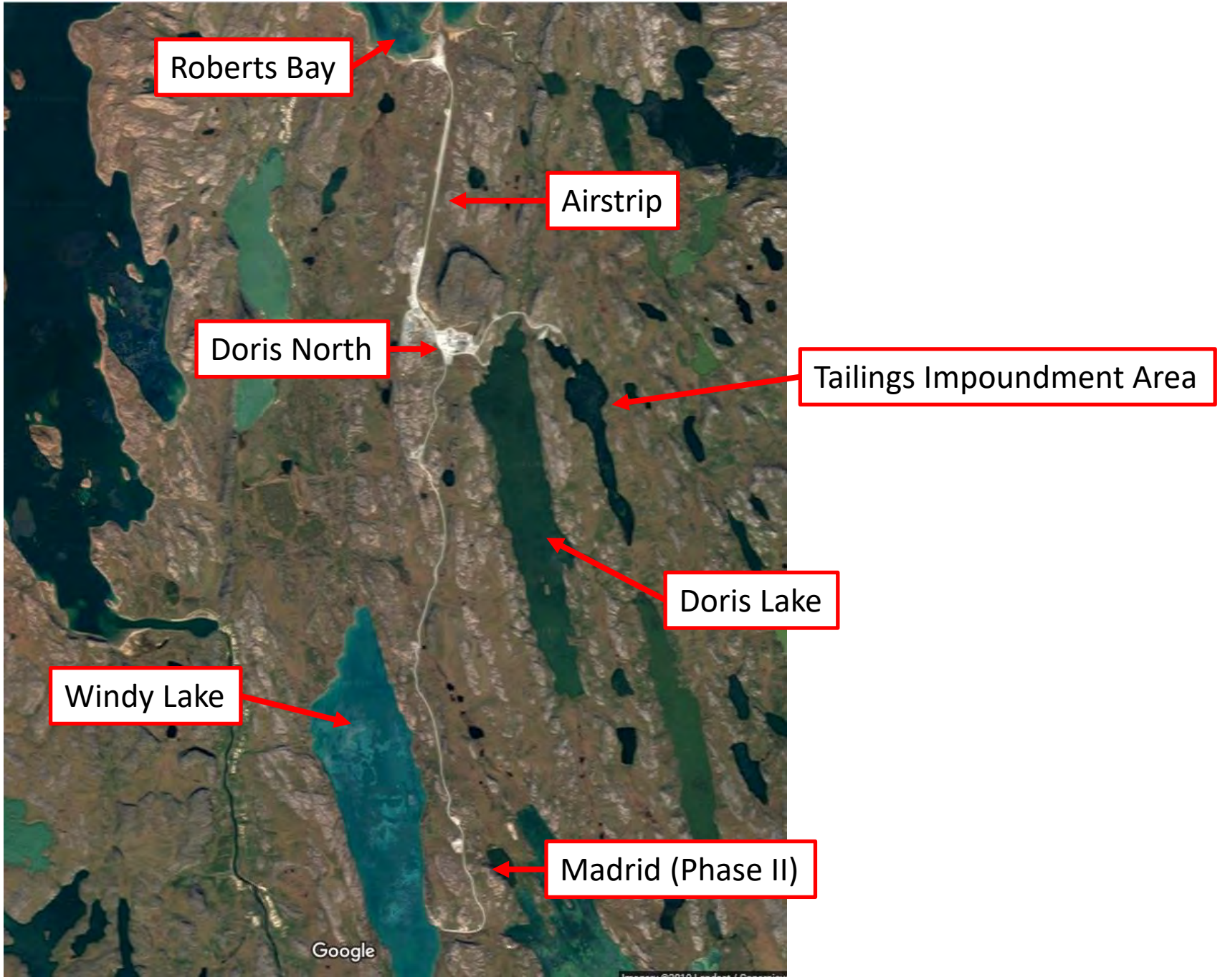
And

In the matter of an application by
Sabina Gold & Silver Corp.
for development of the
Back River Gold Mine Project
in the
Kitikmeot Region of Nunavut

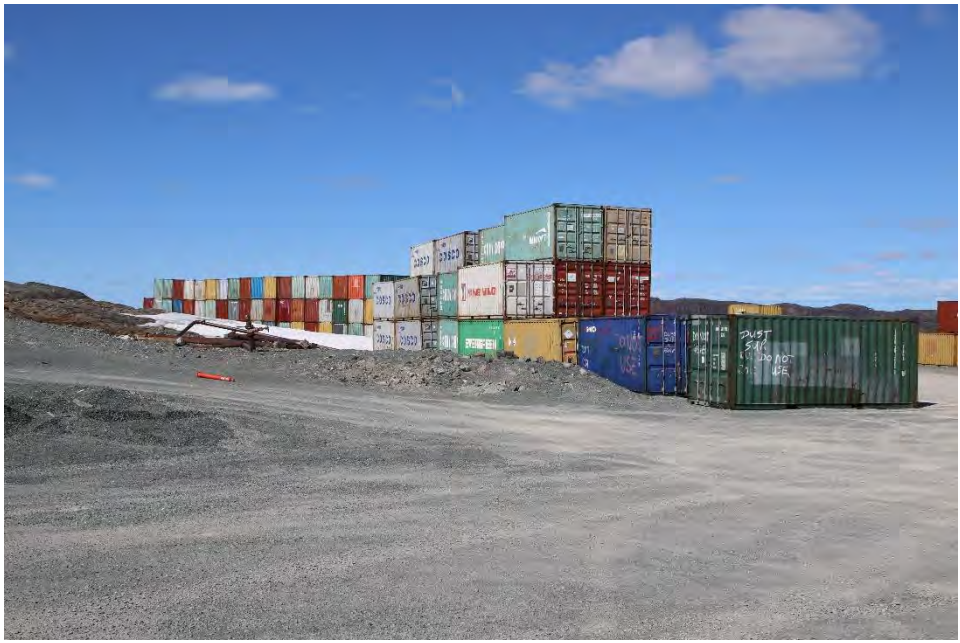
NIRB PROJECT CERTIFICATE [NO.: 007]

December 19, 2017

- 2018: Havaaghanut Ilitaqhitjutinik / Project Certificate #009
- 86 Uqauhiq Maliktaghaqlu / Terms and Conditions


Roberts Bay
Airstrip
Doris North
Tailings Impoundment Area
Doris Lake
Windy Lake
Madrid (Phase II)
Google

IT'S SAFETY FIRST AT MIRAMAR CON MINE



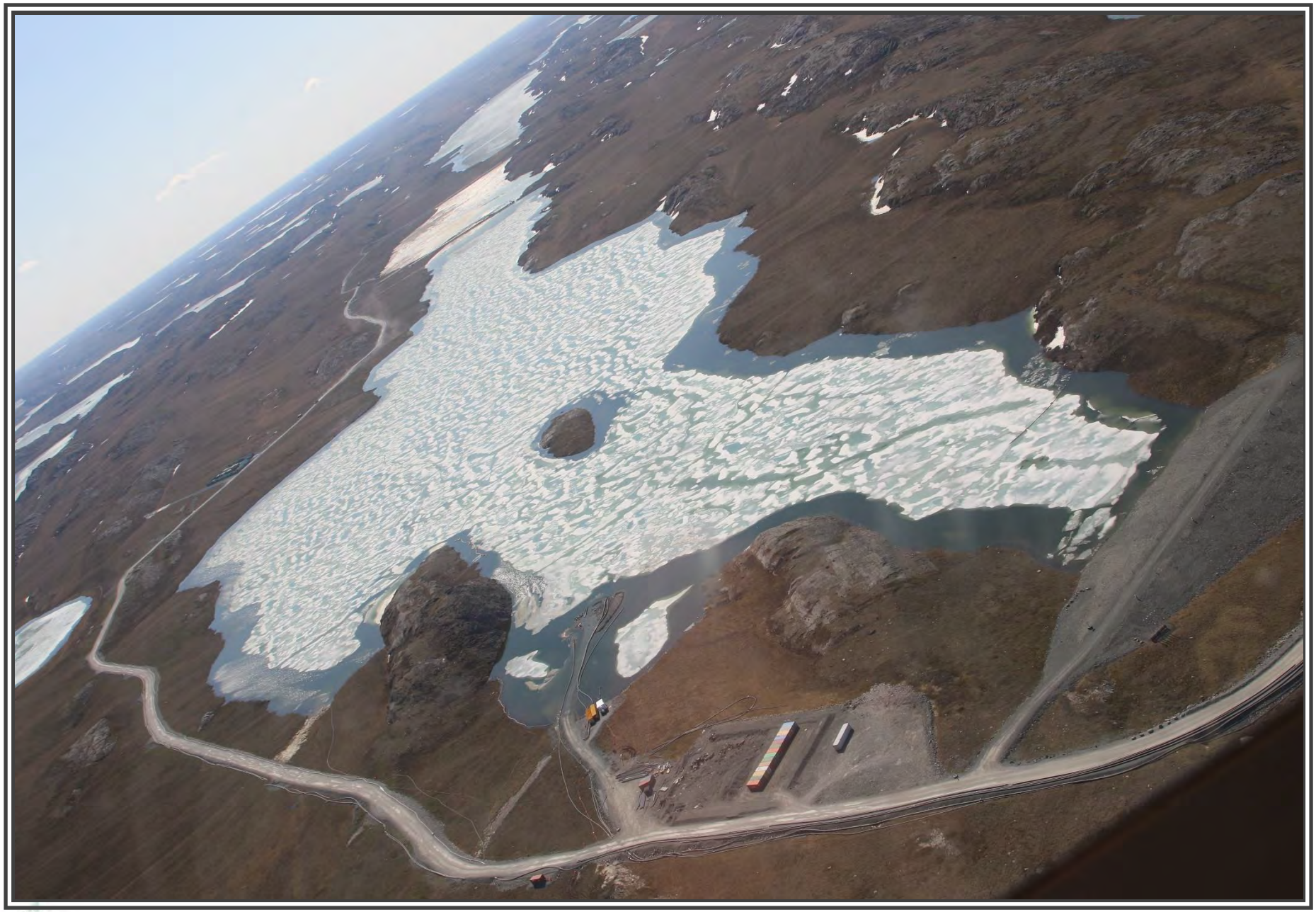
2018

2019

2020

2021

2022



2018

2019

2021

2022

GMO

Socio-Economic Summary 2021

- $7.9 Million to KIA/NTI/KC
- $2.9 Million GN taxes
- $44.9 Million in contracts, $91.5 Million Inuit-owned businesses

- 689 Workers (Jan 2020) > 300 (Q2-Q4 2020)
  - 83 Inuit (66 Kitikmeot) > 12
- Employee turnover 35% for TMAC direct employees, 40% for Inuit

2021 Report Card

2020 NIRB Recommendations		
Recommendation	**Rating**	**Comments**
1. Report on dustfall monitoring and comparison with other projects.	Complete	TMAC provided report to the NIRB with 2020 annual report

2021 Report Card

NIRB's 2020 Evaluation of the Hope Bay Projects

Indicator	Rating	Comments
Air Quality	Satisfactory	Recorded dustfall within project predictions
Wildlife	Satisfactory	Recorded interactions with wildlife are low, and the site is dealing with interactions well.
Marine Environment	Good	Regular training carried out on spills. Installation of outfall pipe completed but not used.
Fuel/Chemical Spills	Needs Improvement	Spill response on reportable spills is good, however small non-reportable spills needs reduction.

2021 Report Card

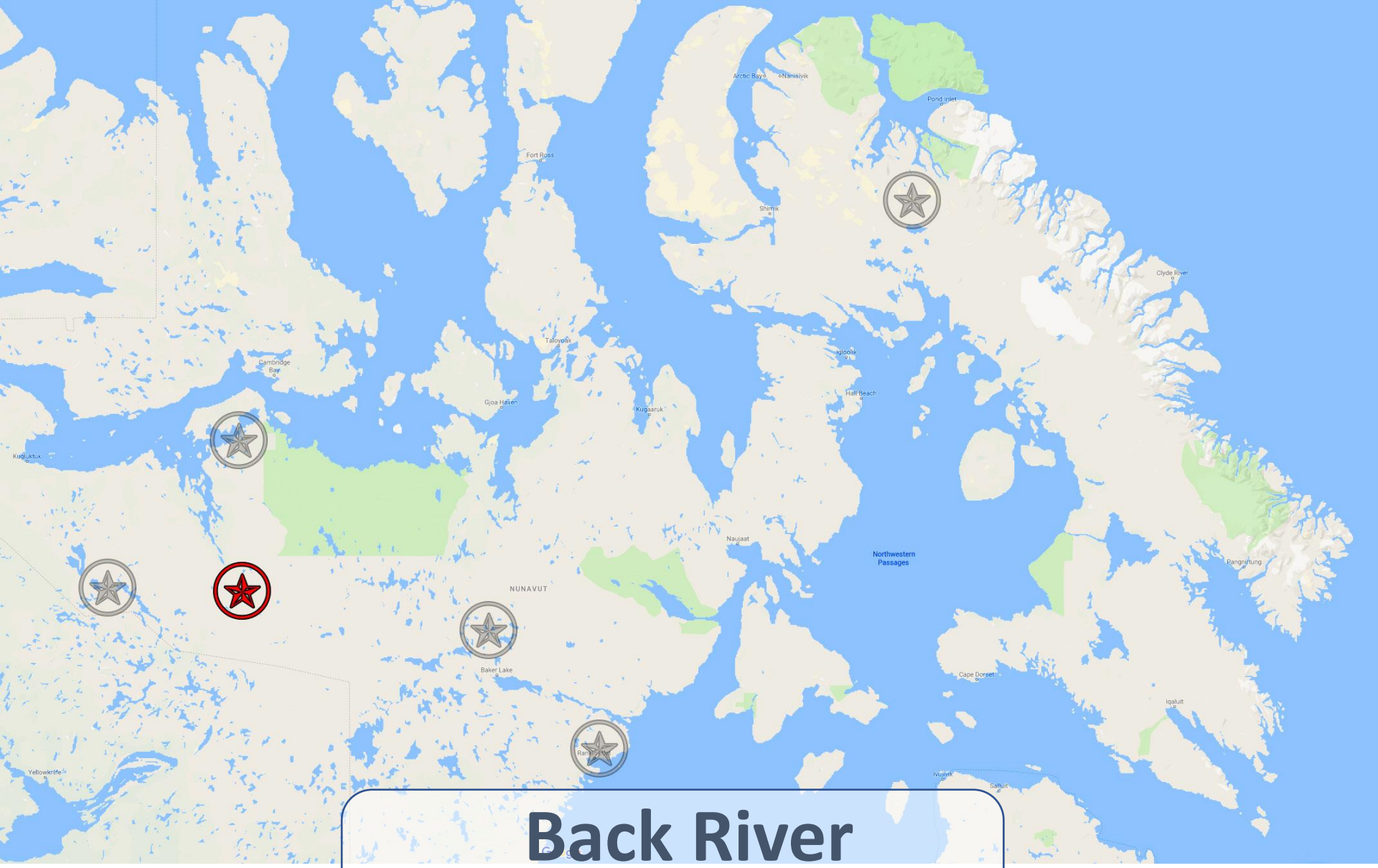
NIRB's 2020 Evaluation of the Doris North Project

Indicator	Rating	Comments
Site Appearance	Good	From photos received in 2020-2021 the site appeared well-organized and neat.
Water	Good	No significant issues identified. Containment of contact water is carried out, ponds well-maintained. Silt fences in use when necessary (Madrid)
Ground Disturbance	Good	Operations confined to approved footprint.
Socio-ec topics	Needs Improvement	Nunavut employment cut due to COVID restrictions.

COVID-19

- All Nunavut employees sent home
- Site closed to the public
- Workers monitored and tested
- Operation slowdown
- Some projects needing many people deferred

Questions?



Back River

2021 Annual Monitoring Update
NIRB File No. 12MN036

Hannigayuq Havauhikhaq Ilitaridjutaa
Back River Project Certificate

In the matter of the
Agreement Between the Inuit of the Nunavut Settlement Area
and Her Majesty the Queen in right of Canada (Nunavut Agreement),
Nunavut Agreement, S.C., 1993, c. 29
Article 12, Part 5

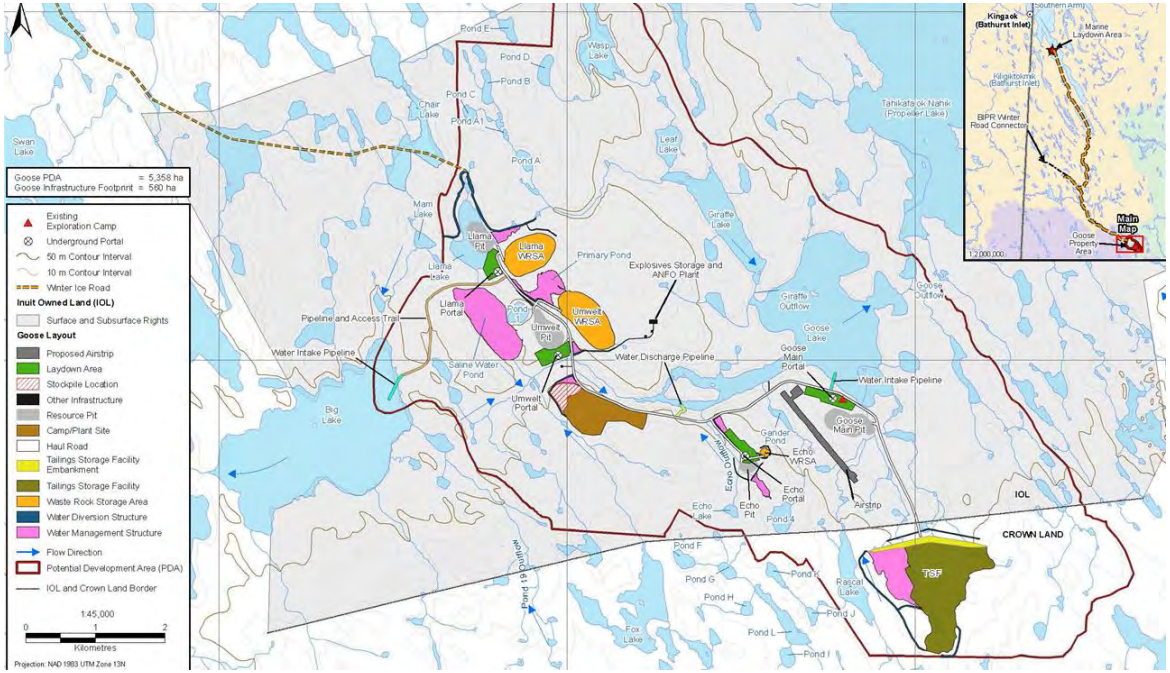
And

In the matter of an application by
Sabina Gold & Silver Corp.
for development of the
Back River Gold Mine Project
in the
Kitikmeot Region of Nunavut

NIRB PROJECT CERTIFICATE [NO.: 007]

December 19, 2017

- December 19, 2017: NIRB Havaaq Ilitaridjutaa 007 titiraqhimayangit uvunga Sabina Kulu unalu Havigalik Kuapuriisan
  - 94 tukilutaa qanurilinganillu ikivalliaqhimayakhaat ayuqhautiyut nunap avataita unalu inungnut ikayuutikhait atuliqtauyut
- December 19, 2017: NIRB Project Certificate 007 issued to Sabina Gold & Silver Corp.
  - 94 terms and conditions to limit adverse ecosystemic and socioeconomic effects
- 2020: Modification
  - NIRB approved changes to the Project



Back River Gold Mine Project Overview

- 400 km south of Cambridge Bay
- Four mining areas within the Goose Property
  - Umwelt, Llama, Goose Main and Echo
  - Open pits and Underground mines
- Phases:
  - Construction: 4 years
  - Operations: 10 years, Projected 350,000 oz of gold
  - Reclamation / Closure: 8 years
  - Post Closure Monitoring: 5 years

Hanningayuk Kuugaa Kuulu Uyaraqtarvik Havaaq Nainaaqhimayuq

- 400 km hivuraanit Iqaluktuuttiarmit
- Hitamat uyaraqtarviuyut nunami iluaniittut Goose Nanminiriyaani
  - Umwelt, Llama, Goose Main and Echo
  - Angmaumayuq hauvikhangit unalu nunami iluaniittut uyaraqtarvit
- Ilanganit:
  - Igluqpiliurniq: 4 ukiungani
  - Aulapkaininnga: 10 ukiunganit, Havaariyauyukhaq 350,000 oz kulunit
  - Himmauhirninga/Umigutaa: 8 ukiungani
  - Kinguani Umigutaa Munariyauyukhat: 5 ukiungani

Goose Lake

Urhuqyuaqarvingit
Fuel Tank Farm / Fuel Storage

Goose Lake Exploration Decline

Area beside Goose Lake Exploration Decline

George – Exploration Camp

Imarmiunut Tulagvikhaat Ininga
Marine Laydown Area

Anginiqhautaa Havaaq Ilaliutingit – Imarmiunut Tulagvikhaat Ininga

- Auyaq Agyaqtuiyut
- Tulagvia maniraa
- Urhuqyuaqarvingit
- Uuyagaaktakvik
- Iglukakviit
- Milvinga
- Ukiuq Upqutaa uvunga Goose Tahiq

Major Project Components Marine Laydown Area

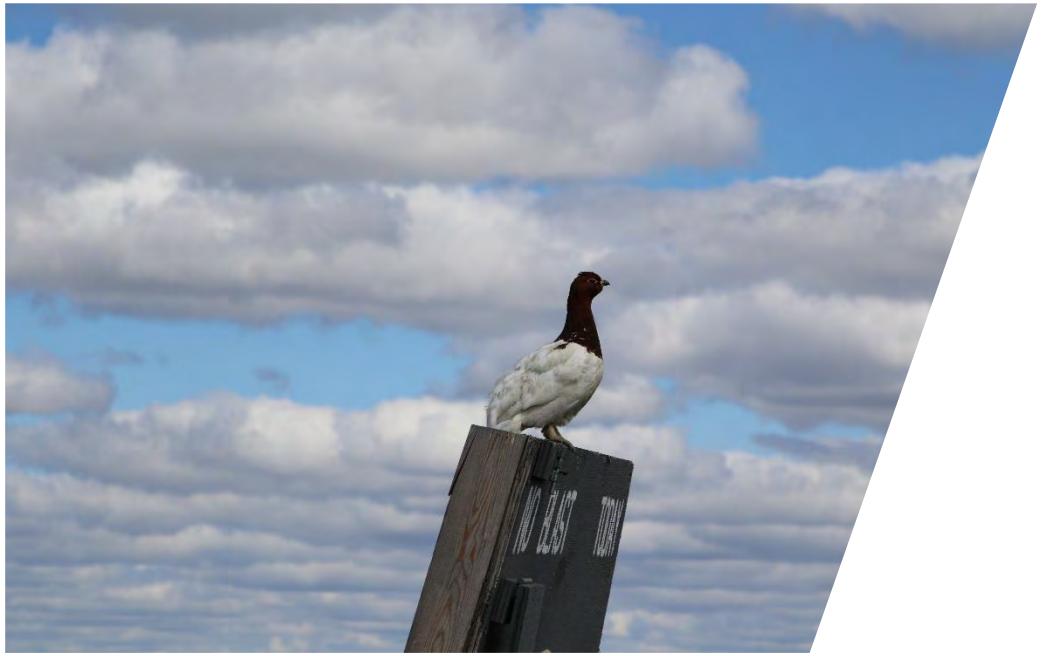
- Summer Sealift
- Laydown yard
- Fuel tank farm
- Quarry
- Camp
- Airstrip
- Winter Road to Goose Lake

Imarmiunut Tulagvikhaat Ininga
Marine Laydown Area

Imarmiunut Tulagvikhaat Ininga - Iglukakviit Marine Laydown Area - Camp

Imarmiunut Tulagvikhaat Ininga
Marine Laydown Area

Wildlife at Site



Socio-Economic Summary

- Inuit Impact Benefit Agreement (IIBA) signed April 2018

- Inuit Employment (2019)
  - 310 employees worked at the project ,
  - 49 (16%) of which were Inuit

- Contracting (2019)
  - $27.1 million in expenditures
  - 59% of total made to 86 northern businesses including Kitikmeot Qualified Business

2021 Report Card

EVALUATION OF THE PERFORMANCE OF SABINA'S BACK RIVER GOLD MINE

Indicator	Rating	Comments
Operational Plans	Need improvement	▪ All the plans required by the Project Certificate for construction have not yet been submitted and updated. A full review of plans was to be carried out in 2021.
Wildlife	Good	▪ Wildlife Mitigation and Monitoring Program. A full review of plans was to be carried out in 2021.
Water	Good	▪ Type A Water Licence amended (2021) ▪ 2018 baseline sampling conducted (Aquatic Effects Monitoring Plan) ▪ Risk and Emergency Response Plan ▪ Water Management Plan updated following amendment to water license
Vegetation	Good	▪ Some damage due to previous ice-road use ▪ Pre-shipment equipment cleaning protocol in place to reduce invasive plant introduction
Marine Environment	Good	▪ Shipping Management Plan, Marine Monitoring Plan, Oil Pollution Emergency Plan
Community Engagement	Needs improvement	▪ Community interaction restricted in 2021 due to COVID
Inuit Hire/Contracting	Needs improvement	▪ Nunavummiut laid off due to COVID restrictions

COVID-19

- All Nunavut employees sent home
- Site closed to the public
- Workers monitored and tested

Questions?

Jericho

2021 Annual Monitoring Update

NIRB File No. 00MN059

Uyagakhiuktit Havaangit
Jericho Diamond Mine Project

- Approximately 240km SE of Kugluktuk / Haniani 240 km-nik ungahiaqtuq hivuraanit kivalliqhianit Qurluqtum
- Single Open Pit Mine / Avaliittuq Hauyauyuq Uyaraghiuqvik
- Processing Facility / Amiqhaiqarviuyuq
- Processed kimberlite containment areas / Hiqupluqtiqhimayut kimberlite-mik tutquumaviat
- Camp and Supporting Buildings / Hiniktarviat Atuqtauyullu Ikluqpait
- Fuel Tank Farm / Urhuqyuaqarvingit
- Airstrip / Milvinga
- Roads connecting infrastructure / Apqutit atatapkaiyut ikluqpangnik

Initurlinga Qanuritpa

- July 2004 – Tahapkuat NIRB tunihimayut Havakhautikhanik Naunaitkutak Atugakhanik Nungudjutilingnik Ubluinik Nunguumaanut Atuknianut Naunnaitkutak 002 tahapkununga Tahera Katimayit.
- January 2005 – Havaaghanut Titirautit 002 nuutitauyut talvunga Benachee Resources Inc-kunnut
- August 2010 – Shear Diamonds (Nunavunmi) Kuapuriissat niuviqtaat Jericho-kut
- August 2011 – NIRB-kut nuutittiyaat Havaaghanut Titirautit 002 talvunga Shear-kunnut
- October 2012 – Havakvik umiktikaffuktauhimayuq Shear-kunnit
- January 2014 – AANDC qimaktauyuliqutigiyaat havakvik munaliqhugulu
- September 2016 – NIRB-kut ihivriuqhimayait INAC-kut “Jericho Uyaraghiuqvianik Aulapkaittiarniqmut Havaaghainik”
  - Amihut havaangit iniqtauhimayut auyami 2017-mi
  - Ikittut havaaghait iniqtauyughat huli auyami 2018-mi
- NIRB-kut pulaaqhimayait Havakviat June 2018-mi

Project Certificate Ilitaridjutaa [No. 002] Compliance Summary

In the Matter of the
Nunavut Land Claims Agreement,
Nunavut Land Claims Agreement Act, S.C., 1993, c. 29
Article 12, Part 5

And

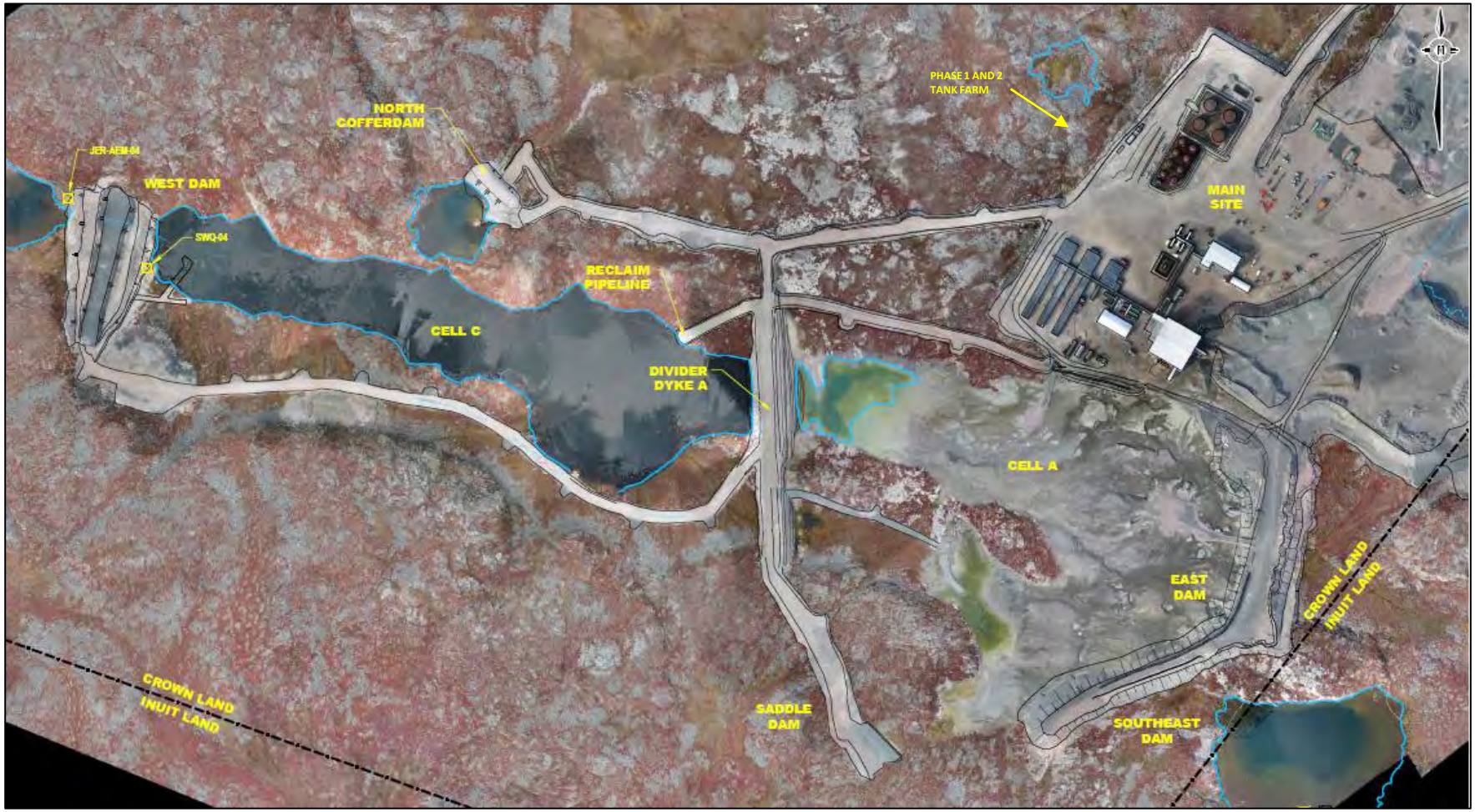
In the matter of an
Application by
Shear Diamonds (Nunavut) Corporation
for
Mine Development
of the
Jericho Diamond Project Proposal
in the
Kitikmeot Region of Nunavut

PROJECT CERTIFICATE NIRB [NO.: 002]

July 20, 2004

- Proponent is not compliant with Project Certificate [No. 002]
- No updates from the Proponent
- CIRNAC has assumed management role

CIRNAC's Site Stabilization Project (File No. 16UN058)



CIRNAC's Site Stabilization Project (File No. 16UN058)

Ihumagiyatit Ihumagiyaulluaqtut!
Your Ideas are Important!

Taminnut naunaitkutit Inuit Qaujimajatuqangit ihumagiyaulluaqtut NIRB'nut
General information and Inuit Qaujimajatuqangit is important to the NIRB!

Qanuq ilaunginnarialiuvit?

- Ihivriuqlugit TMAC-kut ukiuq nunngutaanut naunaitkutait
- Tunilugit titiraqhimayut uqauhiit apiqhuutillu **info@nirb.ca**
- Hivayaqlugu NIRB-kut havakviat akiittukkut hivayautaat Havaaghat mighaagut unipkaarutigilugu havaktiptingnut: **1-866-233-3033**

How can you get involved?

- Review TMAC's annual reports
- Submit written comments and questions **info@nirb.ca**
- Phone the NIRB's office toll-free to talk about the Project with our staff: **1-866-233-3033**

Qanuq ilitpaalliqniaqqit NIRB-kut qauyihaqtainik?
How can you learn more about NIRB's assessments?

- Inuit Titiraqviat
  - Qiniqluhi havaaghaqnik titiraqmikluuniit
  - Atiliqtuqtauluhi naunaitkutanik tuniyauqattariami
- Tatqiqhiut
  - Aulayut havaaghat umikvighaillu

- Public Registry
  - Search for project or document
  - Register to receive notifications
- Calendar
  - Active projects and deadlines

www.nirb.ca

Questions?

Thank You –Koana!