SCREENING DECISION REPORT
NIRB FILE NO.: 11EN019

AANDC File No: N2011C0011
NWB File No.: 2BE-KLG1116

June 13, 2013

The Honourable Bernard Valcourt
Minister of Aboriginal Affairs and Northern Development
10 Rue Wellington
Gatineau, QC K1A 0H3

Via email: minister@aandc.gc.ca and bernard.valcourt@parl.gc.ca

Re: <u>Screening Decision: Additional Terms and Conditions – for Prosperity Goldfield Corp.'s Amendment request with AANDC for its Kiyuk Lake Project, Kivalliq Region, 11EN019</u>

Dear Mr. Valcourt:

The primary objectives of the Nunavut Impact Review Board (NIRB) are set out in section 12.2.5 of the Nunavut Land Claims Agreement (NLCA) as follows:

> "*In carrying out its functions, the primary objectives of NIRB shall be at all times to protect and promote the existing and future well-being of the residents and communities of the Nunavut Settlement Area, and to protect the ecosystemic integrity of the Nunavut Settlement Area. NIRB shall take into account the well-being of the residents of Canada outside the Nunavut Settlement Area.*"

Section 12.4.3 of the NLCA states that:

> "*Any application for a component or activity of a project proposal that has been permitted to proceed in accordance with these provisions shall be exempt from the requirement for screening by NIRB unless:*
>
> *(a) such component or activity was not part of the original project proposal; or*
>
> *(b) its inclusion would significantly modify the project.*"

NIRB ASSESSMENT AND DECISION

The NIRB has completed a review of Prosperity Goldfields Corp.'s request to Aboriginal Affairs and Northern Development Canada (AANDC) for an amendment to the Land Use Permit (No. N2011C0011) for its "Kiyuk Lake" project.

After a thorough assessment of the project proposal, the amendment application information and the comments received (please see *Procedural History* and *Project Activities* in **Appendix A)**, in accordance with Section 12.4.3 of the NLCA, the Board has determined that this request will result in a change to the original scope of the project. Therefore, the NIRB is re-issuing the recommended project-specific terms and conditions contained in the May 31, 2011 Screening Decision, NIRB file No.: 11EN019 in addition to new terms and conditions which are designed to mitigate any potential impacts to the environment as per Section 12.4.4(a) of the NLCA.

PREVIOUSLY APPROVED PROJECT-SPECIFIC TERMS AND CONDITIONS

The following terms and conditions were previously approved by the NIRB for file **11EN019** in a Screening Decision Report dated May 31, 2011 which is available from the NIRB's public registry at: http://ftp.nirb.ca/01-SCREENINGS/COMPLETED%20SCREENINGS/:

General

1. Prosperity Goldfield Corp. (the Proponent) shall maintain a copy of the Project Terms and Conditions at the site of operation at all times.
2. The Proponent shall forward copies of all permits obtained and required for this project to the Nunavut Impact Review Board (NIRB) prior to the commencement of the project.
3. The Proponent shall operate in accordance with all commitments stated in correspondence provided to the NIRB (NIRB Part 1 Application, April 18, 2011) and to INAC (LUP Application, April 1, 2011).
4. The Proponent shall operate the site in accordance with all applicable Acts, Regulations and Guidelines.

Water Use

5. The Proponent shall not extract water from any fish-bearing waterbody unless the water intake hose is equipped with a screen of appropriate mesh size to ensure that there is no entrapment of fish. Small lakes or streams should not be used for water withdrawal unless approved by the Nunavut Water Board.
6. The Proponent shall not use water, including constructing or disturbing any stream, lakebed or the banks of any definable water course unless approved by the Nunavut Water Board.

Waste Disposal/Incineration

7. The Proponent shall incinerate all combustible wastes daily, and remove the ash from incineration activities and non-combustible wastes from the project site to an approved facility for disposal.
8. The Proponent shall keep all garbage and debris in bags placed in a covered metal container or equivalent until disposed of at an approved facility. All such wastes shall be kept inaccessible to wildlife at all times.
9. The Proponent shall ensure that the incineration of combustible camp wastes comply with the *Canadian Wide Standards for Dioxins and Furans,* and the *Canadian Wide Standards for Mercury*.
10. The Proponent shall ensure that no waste oil/grease is incinerated on site.

Fuel and Chemical Storage

11. The Proponent shall locate all fuel and other hazardous materials a minimum of thirty-one (31) metres away from the high water mark of any water body and in such a manner as to prevent their release into the environment.
12. The Proponent shall ensure that re-fuelling of all equipment occur a minimum of thirty-one (31) metres away from the high water mark of any water body.
13. The Proponent shall store all fuel and chemicals in such a manner that they are inaccessible to wildlife
14. The Proponent shall use adequate secondary containment or a surface liner (e.g. self-supporting insta-berms and fold-a-tanks), when storing barrelled fuel and chemicals at all locations.
15. The Proponent shall use adequate secondary containment or a surface liner (e.g. self-supporting insta-berms and fold-a-tanks) at all refuelling stations. Appropriate spill response equipment and clean-up materials (e.g., shovels, pumps, barrels, drip pans, and absorbents) must be readily available during any transfer of fuel or hazardous substances, as well as at vehicle-maintenance areas and at drill sites.
16. The Proponent shall inspect and document the condition of all fuel storage tanks and fuel caches on a weekly basis. All fuel and chemical storage containers must be clearly marked with the Proponent's name and must be examined for leaks immediately upon delivery.
17. The Proponent shall remove and treat hydrocarbon contaminated soils on site or transport them to an approved disposal site for treatment.
18. The proponent shall not deposit, nor permit the deposit of chemicals, sediment, wastes, or fuels associated with the project into any water body. According to the Fisheries Act. Section 36 (3), the deposition of deleterious substances of any type in water frequented by fish, or in any place under any conditions where the deleterious substance, or any deleterious substance that results from the deposit of the deleterious substance, may enter any such water, is prohibited.
19. The Proponent shall ensure that all personnel are properly trained in fuel and hazardous waste handling procedures, as well as spill response procedures. All spills of fuel or other

deleterious materials of any amount must be reported immediately to the 24 hour Spill Line at (867) 920-8130.

Wildlife - General

20. The Proponent shall ensure that there is no damage to wildlife habitat in conducting this operation.

21. The Proponent shall not harass wildlife. This includes persistently worrying or chasing animals, or disturbing large groups of animals. The Proponent shall not hunt or fish, unless proper Nunavut authorizations have been acquired.

22. The Proponent shall ensure that all project personnel are made aware of the measures to protect wildlife and are provided with training and/or advice on how to implement these measures.

Migratory Birds and Raptors Disturbance

23. The Proponent shall not disturb or destroy the nests or eggs of any birds. If nests are encountered and/or identified, the Proponent shall take precaution to avoid further interaction and or disturbance (e.g., a 100 metre buffer around the nests). If active nests of any birds are discovered (i.e. with eggs or young), the Proponent shall avoid these areas until nesting is complete and the young have left the nest.

Aircraft Flight Restrictions

24. The Proponent shall restrict aircraft/helicopter activity related to the project to a minimum altitude of 610 metres above ground level unless there is a specific requirement for low-level flying, which does not disturb wildlife and migratory birds.

25. The Proponent shall ensure that aircraft maintain a vertical distance of 1000 metres and a horizontal distance of 1500 metres from any observed groups (colonies) of migratory birds. Aircraft should avoid critical and sensitive wildlife areas at all times by choosing alternate flight corridors.

26. The Proponent shall ensure that aircraft/helicopter do not, unless for emergency, touch-down in areas where wildlife are present.

27. The Proponent shall advise all pilots of relevant flight restrictions and enforce their application over the project area, including flight paths to/from the project area.

Caribou and Muskoxen Disturbance

28. The Proponent shall cease activities that may interfere with the migration or calving of caribou or muskox, until the caribou or muskox have passed or left the area.

29. The Proponent shall not block or cause any diversion to caribou migration, and shall cease activities likely to interfere with migration such as airborne geophysics surveys, drilling or movement of equipment or personnel until such time as the caribou have passed.

30. The Proponent shall not construct or operate any camp, cache any fuel or conduct blasting within 10 km, or conduct any drilling operation within 5 km of any paths or crossings known to be frequented by (e.g. designated caribou crossings).

31. During the period of May 15 to July 15, when caribou are observed within 1 km of project operations, the Proponent shall suspend all operations, including low-level over flights,

blasting, and use of snow mobiles and all-terrain vehicles outside the immediate vicinity of the camps. Following July 15, if caribou cows or calves are observed within 1 km of project operations, the Proponent shall also suspend all operations in the vicinity, including low-level over flights, blasting, and use of snow mobiles and all-terrain vehicles, until caribou are no longer in the immediate area.

Ground Disturbance

32. The Proponent shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging. Overland travel of equipment or vehicles must be suspended if rutting occurs.

33. The Proponent shall implement suitable erosion and sediment suppression measures on disturbed areas before, during and after construction in order to prevent sediment from entering any water body.

Drilling on Land

34. The Proponent shall not conduct any land based drilling or mechanized clearing within thirty-one (31) metres of the normal high water mark of a water body.

35. The Proponent shall not allow any drilling wastes to spread to the surrounding lands or water bodies. Environment Canada assessed inorganic chloride salts and concluded that these salts in high concentrations are harmful to the environment. As a result, when using calcium chloride ($CaCl_2$) for drilling purposes and disposing return water into a sump, the proponent should not rely on permafrost integrity to contain and isolate drilling wastes.

36. If an artesian flow is encountered, the Proponent shall ensure the drill hole is immediately plugged and permanently sealed.

37. The Proponent shall ensure that all drill areas are constructed to facilitate minimizing the environmental footprint of the project area. Drill areas should be kept orderly with garbage removed daily to an approved disposal site.

38. The Proponent shall ensure that all sump/depression capacities are sufficient to accommodate the volume of waste water and any fines that are produced. The sumps shall only be used for inert drilling fluids, and not any other materials or substances.

39. The Proponent shall not locate any sump within thirty-one (31) metres of the normal high water mark of any water body. Sumps and areas designated for waste disposal shall be sufficiently bermed or otherwise contained to ensure that substances to do not enter a waterway unless otherwise authorized.

40. The Proponent shall ensure all drill holes are backfilled or capped prior to the end of each field season. All sumps must be backfilled and restored to original or stable profile prior to the end of each field season.

Drilling on Ice

41. If drilling is conducted on lake ice, the Proponent shall ensure that any return water is non-toxic, and will not result in an increase in total suspended solids in the immediate receiving waters above the Canadian Council of Ministers for the Environment (CCME) Guidelines for the Protection of Freshwater Aquatic Life (i.e. 10 mg/L for lakes with background levels under 100 mg/L, or 10% for those above 100 mg/L).

42. The Proponent shall ensure that drill muds and additives are not used in connection with holes drilled through lake ice unless they are re-circulated or contained such that they do not enter the water, or are demonstrated to be non-toxic.

43. The Proponent shall ensure that all drill cuttings are removed from ice surfaces daily.

Winter Trail

44. The Proponent shall select a winter route that maximizes the use of frozen water bodies.

45. The Proponent shall not erect camps or store materials on the surface ice of lakes or streams, except that which is for immediate use.

46. The Proponent shall ensure that no disturbance of the stream bed or banks of any definable watercourse be permitted.

47. The Proponent shall not move any equipment or vehicles without prior testing the thickness of the ice to ensure the lake is in a state capable of fully supporting the equipment or vehicles.

48. The Proponent shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging.

49. The Proponent shall suspend overland travel of equipment or vehicles if rutting occurs. Likewise, upon spring break up, or at such a time as the shorelines of frozen water bodies begin to thaw, the Proponent shall suspend all travel over water bodies if disturbance to the banks or shorelines of any definable water body occurs.

50. The Proponent shall ensure that winter lake/stream crossings are located to minimize approach grades and constructed entirely of ice and snow materials. Ice or snow free of sediment should be the only materials used to construct temporary crossings over any ice-covered watercourse.

51. The Proponent shall ensure that bank disturbances are avoided, and no mechanized clearing carried out immediately adjacent to any watercourse.

52. The Proponent shall ensure that stream crossings and/or temporary crossings constructed from ice and snow, which may cause jams, flooding or impede fish passage and or water flow, are removed or notched prior to spring break-up.

53. The Proponent shall avoid disturbance on slopes prone to natural erosion, and alternative locations shall be utilized.

54. The Proponent shall implement sediment and erosion control measures prior to, and during operations to prevent sediment entry into the water during the spring thaw. This includes ensuring that a sufficient thickness of snow and ice is present on the winter road to prevent unnecessary erosion of the underlying ground surface and impact on underneath vegetation.

Ground Disturbance and Esker Runway

55. The Proponent shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging. Overland travel of equipment or vehicles must be suspended if rutting occurs.

56. The Proponent shall implement suitable erosion and sediment suppression measures on disturbed areas before, during and after construction in order to prevent sediment from entering any water body.

57. All construction and road vehicles must be fitted with standard and well-maintained noise suppression devices and engine idling is to be minimized.

Camp

58. The Proponent shall ensure that all camps are located on gravel, sand or other durable land.

59. The Proponent shall not erect camps or store material on the surface ice of lakes or streams.

Restoration of Disturbed Areas

60. The Proponent shall ensure that all disturbed areas are restored to a stable or pre-disturbed state as practical as possible upon completion of field work.

61. The Proponent shall remove all garbage, fuel and equipment upon abandonment.

62. The Proponent shall complete all clean-up and restoration of the lands used prior to the end of each field season and/or upon abandonment of site.

Other

63. The Proponent should, to the extent possible, hire local people and to consult with local residents regarding their activities in the region.

64. Any activity related to this application, and outside the original scope of the project as described in the application, will be considered a new project and should be submitted to the NIRB for screening.

NEW RECOMMENDED PROJECT-SPECIFIC TERMS AND CONDITIONS
(pursuant to Section 12.4.4(a) of the NLCA)

The Board is recommending that the following or similar ***additional*** project-specific terms and conditions be imposed upon the Proponent through all relevant legislation:

65. The Proponent shall clearly stake and flag pit and quarry boundaries so they remain visible to other land users.

66. The Proponent shall ensure there is no obstruction of natural drainage, flooding or channel diversion resulting from quarry/pit access, stockpiles, or other associated structures or facilities.

67. The Proponent shall ensure the placement of silt fences/curtains in waters down-gradient of quarrying activities (including stockpiles) where such may be required to maintain the integrity of surface water and sediment quality.

68. The Proponent shall maintain an undisturbed buffer zone between the periphery of quarry sites or stockpiles and the high water mark of any water body that is of an adequate distance to ensure erosion control.

69. The Proponent shall locate any screening and crushing equipment to be utilized on stable ground, at a location with ready access to stockpiles.

The Board has previously recommended the following:

Fuel and Chemical Storage/Spill Reporting Requirements

1. The Proponent shall update its Spill Contingency Plan to include the up to date emergency contact numbers for the Government of Nunavut-Department of Environment (867-975-4644) and the Manager of Pollution Control and Air Quality (867-975-7748).
2. In Section 6.1 Preventative Measures of the Spill Prevention and Response Plan (February 4, 2011), the proponent states that they will "Create fuel caches in natural depressions that are located a minimum of 31 metres from the normal high-water mark of any water body". EC recommends the use of secondary containment, such as self-supporting insta-berms, for storage of all barreled fuel rather than relying on natural depressions to contain spills. The Proponent shall implement the recommendations found in the 2003 CCME Guidance Document PN 1326 entitled "Environmental Code of Practice for Above Ground and Underground Storage Tank Systems containing Petroleum Product and Allied Petroleum Products".
3. Under Section 5.3 Emergency Contact List - Spill Reporting and Response, the listing for the Environment Canada 24 hour pager should be removed as it is no longer in service.
4. Spills are to be documented and reported to the NWT/NU 24 hour Spill Line at (867) 920-8130. All releases of harmful substances, regardless of quantity, are immediately reported where the release:
    - is near or into a water body;
    - is near or into a designated sensitive environment or sensitive wildlife habitat;
    - poses an imminent threat to human health or safety; or
    - poses an imminent threat to a listed species at risk or its critical habitat.

Waste Incineration

5. The proponent shall develop and implement an incineration management plan consistent with the advice provided in EC's Technical Document for Batch Waste Incineration which provides information on appropriate incineration equipment, best management practices, monitoring and reporting and is available at http://www.ec.gc.ca/gdd-mw/default.asp?lang=En&n=F53EDE13-1. The incineration management plan should be submitted to the NIRB prior to the commencement of activities.

Wildlife Log/Record of Observations

6. The Proponent shall maintain a record of wildlife observations while operating within the project area. The reports should include locations (i.e., latitude and longitude), species, number of animals, a description of the animal activity, and a description of the gender and age of animals if possible. Prior to conducting project activities, the Proponent should map the location of any sensitive wildlife sites such as denning sites, calving areas, caribou crossing sites, and raptor nests in the project area, and identify the timing of critical life history events (i.e., calving, mating, denning and nesting). Additionally, the Proponent should indicate potential impacts from the project, and ensure that operational activities are managed and modified to avoid impacts on wildlife and sensitive sites.

A copy of this wildlife record or report should be submitted annually at the end of the operational season to Mitch Campbell, Government of Nunavut Wildlife Manager at 867-857-2828.

7. The proponent should contact the nearest Conservation Office:
   - If a situation occurs where wildlife becomes a nuisance (returning frequently, or unable to deter).
   - Immediately if you have killed wildlife (either to resolve a conflict or unintentionally).
   - Immediately if you have injured wildlife and have not been able to relocate or destroy.
   - Immediately if a human has been attacked or bitten by wildlife. Note: Current policy is for any wildlife that attack humans to be destroyed; only in special circumstances would wildlife not be destroyed. If no further injury or human life is in danger contact the Conservation Officer to report and for further instructions.

   Contact the Wildlife Deterrent Specialist, Regional Biologist, or Wildlife Manager indicated below for information and advice on measures which should be taken to minimize wildlife/human conflict:

   Manger of Wildlife, Kivalliq Region: David Vetra, (867) 857-2828, dvetra@gov.nu.ca
   Biologist, Kivalliq Region: Mitch Campbell, (867) 857-2828, mcampbell1@gov.nu.ca
   Manager of Land Use & Environmental Assessment, Qikiqtaaluk region: Dilek Dee Karadag, (867) 975-7732
   Director, Environmental Protection, Qikiqtaaluk region: Robert Eno, (867) 975-7729
   Territorial Environmental Assessment Coordinator & Scientist: Jean Daniel Blouin phone: (867) 975-7733 fax: (867) 975-7739

Transport of Waste/Dangerous Goods

8. The Proponent shall ensure that a waste manifest accompanies the shipment of all waste oil/grease and is registered with the Government of Nunavut Department of Environment (GN-DoE). Contact the Manager of Pollution Control and Air Quality at (867) 975-7748 to obtain a manifest if hazardous waste will be generated during project activities.
9. The Proponent shall ensure that an export manifest or the appropriate transportation of dangerous goods (TDG) documentation accompany all potential hazardous samples and/or materials that are transported off site.
10. Used absorbent materials, oily or greasy rags, and equipment servicing wastes (such as used engine oil, antifreeze, hydraulic oil, lead acid batteries, brake fluid, and other lubricants) should be safely stored and transported in sealed containers (odour-free to prevent animal attraction) and safely transported to a facility that is authorized for the treatment and disposal of industrial hazardous wastes.
11. The Proponent should be aware that if hazardous waste is transported from the Kiyuk Lake exploration area in Nunavut to Manitoba for disposal that the Interprovincial Movement of Hazardous Wastes Regulations under the Canadian Environmental Protection Act (CEPA 1999) requires that the Proponent complete movement documents. The Government of Nunavut only regulates waste in Nunavut and has no authority in Manitoba. Approved movement documents should be completed.

In addition, the Board is ***currently*** recommending the following:

Annual and Monitoring Reports

12. The Proponent shall prepare and submit an annual report to the NIRB by March 31st of each year the Project is ongoing and until final closure and reclamation have been achieved. Each annual report must include, but is not limited to, the following:
    a. Detailed description of scope of work undertaken during reporting year, including any alterations to the scope or timing of activities undertaken from those initially proposed as well as a description of any ongoing reclamation work that may be completed during the reporting year;
    b. Provide a work plan for the coming year, including a listing of all active permits, the permit/licence number(s) and expiry date(s);
    c. A summary of how the Proponent has complied with all project Terms and Conditions and how the terms and conditions are achieving their purpose;;
    d. Provide photographs of site, including all general areas of disturbance (i.e. laydown areas, fuel storage areas, access roads/trails, quarry and stockpiling activities (aggregate, overburden, waste rock, etc.), waste management facilities, camp facilities, etc.);
    e. Provide a summary of all spills, accidents, or near-misses experienced during the reporting year;
    f. Description of community consultation undertaken during reporting year, including workshops, meetings, or other events held, including the purpose of event, and copies of any materials provided;
    g. Explain how Inuit Qaujimajatuqangit, other traditional knowledge or information collected during community consultations has affected or informed project design, implementation, and/or monitoring and follow up;
    h. Explain how quarry/pit, stockpile and other project components including but not limited to, camps, drill targets, ground and air transportation routes, and fuel caches have been located so as to avoid disturbance to persons and animals, to avoid recreational sites, public use areas, and to protect unique geographical features, natural aesthetics, and archaeological, historical and/or palaeontological sites; and,
    i. Describe adaptive management measures for ecosystemic and socioeconomic environments which have been implemented during the reporting year and any plans for monitoring in future reporting years designed to determine effectiveness.
13. The Proponent shall submit to the NIRB updated versions of all management and monitoring plans, and shall provide updated versions within 30 days of revised versions as such become available.

OTHER NIRB CONCERNS AND RECOMMENDATIONS

In addition to the project-specific terms and conditions, the Board has previously recommended the following:

Bear and Carnivore Safety

1. The Proponent review the bear/carnivore detection and deterrent techniques outlined in "Safety in Grizzly and Black Bear Country" which can be down-loaded from this link: http://www.enr.gov.nt.ca/_live/documents/content/Bear_Safety.pdf. Note that some recommendations in this manual are also relevant to polar bears. Polar Bear specific information is available from the "Safety in Polar Bear Country" pamphlet by Parks Canada at the following link: http://www.pc.gc.ca/eng/pn-np/nu/auyuittuq/visit/visit6/d/i.aspx.

Incineration of Wastes

2. The Proponent review Environment Canada's "Technical Document for Batch Waste Incineration", available at the following link: http://www.ec.gc.ca/gdd-mw/default.asp?lang=En&n=F53EDE13-1. The technical document provides information on appropriate incineration technologies, best management and operational practices, monitoring and reporting.

Species at Risk

3. The Proponent review Environment Canada's "Environment Assessment Best Practice Guide for Wildlife at Risk in Canada", available at the following link: http://www.ec.gc.ca/Publications/default.asp?lang=En&xml=5407909E-10F6-4AFE-ACDF-75B9E820B4A1. The guide provides information to the Proponent on what is required when Wildlife at Risk, including *Species at Risk*, are encountered or affected by the project.

Change in Project Scope

4. All Authorizing Agencies shall notify the NIRB of any changes in operating plans or conditions associated with this project prior to any such change.

In addition, the Board is ***currently*** recommending the following:

Caribou Management

5. Territorial and federal government agencies in Nunavut should work together with Regional Inuit Associations, co-management boards and industry to develop an action plan to identify and mitigate potential cumulative effects of human land use activities, including mineral exploration, on barren-ground caribou. This assessment of cumulative effects should occur at a regional scale (i.e., larger than individual project areas).
6. Territorial and federal government agencies update the Caribou Protection Map with updated data and information from the Beverly Qamanirjuaq Caribou Management Board (BQCMB).

Aboriginal Affairs and Northern Development Canada

7. AANDC consider the importance of conducting regular Land Use Inspections, pursuant to the authority of the Federal Land Use Permit, while the project is in operation. The Land Use Inspections should be focused on ensuring the Proponent is in compliance with the conditions imposed through the Federal Land Use Permit.
8. It is recommended to AANDC that no extension be issued to the Land Use Permit until annual and monitoring reports have been received.

REGULATORY REQUIREMENTS

The Proponent has been previously advised that the following legislation may apply to the project:

1. The Proponent is advised that the *Canadian Environmental Protection Act (http://laws.justice.gc.ca/en/C-15.31/)* lists calcium chloride (CaCl) as a toxic substance. The Proponent should assess alternatives to the use of CaCl as a drill additive, including biodegradable and non-toxic additives.

2. The *Fisheries Act* (http://laws.justice.gc.ca/en/showtdm/cs/F-14///en).

3. The *Nunavut Waters and Nunavut Surface Rights Tribunal Act* (http://www.canlii.org/ca/sta/n-28.8/whole.html).

4. The *Migratory Birds Convention Act* and *Migratory Birds Regulations* (http://laws.justice.gc.ca/en/showtdm/cs/M-7.01).

5. The *Species at Risk Act* (http://laws.justice.gc.ca/en/showtdm/cs/S-15.3). Attached in **Appendix B** is a list of Species at Risk in Nunavut.

6. The *Nunavut Wildlife Act* which contains provisions to protect and conserve wildlife and wildlife habitat, including specific protection measures for wildlife habitat and species at risk.

7. The *Nunavut Act* (http://laws.justice.gc.ca/en/showtdm/cs/N-28.6). The Proponent must comply with the proposed terms and conditions listed in the attached **Appendix C**.

8. The *Transportation of Dangerous Goods Regulations, Transportation of Dangerous Goods Act* (http://www.tc.gc.ca/eng/tdg/safety-menu.htm), and the *Environmental Protection Act* (http://laws.justice.gc.ca/en/C-15.31/text.html) The Proponent must ensure that proper shipping documents accompany all movements of dangerous goods. The Proponent must register with the GN-DOE Manager of Pollution Control and Air Quality at 867-975-7748.

9. The *Aeronautics Act* (http://laws.justice.gc.ca/en/A-2/).

10. The *Navigable Waters Protection Act (NWPA)* (http://laws.justice.gc.ca/en/N-22/index.html).

In addition, the Proponent is also advised that the following legislation may apply to the project:

11. The Proponent shall undertake quarrying in accordance with the Nunavut Mining Safety Ordinance and the Territorial Quarrying Regulations (http://www.canlii.org/en/ca/laws/regu/crc-c-1527/latest/crc-c-1527.html) or equivalent.

12. The Proponent shall practice progressive reclamation in accordance with the restoration guidelines outlined in Aboriginal Affairs and Northern Development Canada's Northern Land Use Guidelines Pits and Quarries (http://www.aadnc-aandc.gc.ca/eng/1100100023585).

Validity of Land Claims Agreement

Section 2.12.2
Where there is any inconsistency or conflict between any federal, territorial and local government laws, and the Agreement, the Agreement shall prevail to the extent of the inconsistency or conflict.

Dated _____June 13, 2013_____ at Arviat, NU.

_____
Elizabeth Copland, Chairperson

Attachments: Appendix A: Procedural History and Project Activities
Appendix B: Species at Risk in Nunavut
Appendix C: Archaeological and Palaeontological Resources Terms and Conditions for Land Use Permit Holders

Appendix A
Procedural History and Project Activities

Procedural History

On April 4, 2013 the Nunavut Impact Review Board (NIRB or Board) received a positive conformity determination from the Nunavut Planning Commission (Keewatin Regional Land Use Plan) for Prosperity Goldfields Corp.'s "Kiyuk Lake" project. On April 22, 2013 the NIRB received an application from Aboriginal Affairs and Northern Development Canada (AANDC) for a new Quarry Permit for the "Kiyuk Lake" project.

Past File History

Please be advised that the original project proposal (NIRB File No.: 11EN019) was received by the NIRB from Indian and Northern Affairs Canada (INAC; now AANDC) on March 3, 2011 and was screened by the Board in accordance with Part 4, Article 12 of the Nunavut Land Claims Agreement (NLCA). On March 15, 2011 it was determined that the project proposal was exempt from Screening pursuant to item 2 of Schedule 12-1 of the NLCA (*Land Use Activities requiring only a Class B permit under the Territorial Land Use Regulations*).

On April 1, 2011 the NIRB received a referral for screening from INAC for a Class A Land Use Permit Application for the "Kiyuk Lake" project. On May 31, 2011 the NIRB issued a NLCA 12.4.4(a) screening decision to the Minister of INAC which indicated that the proposed project could proceed subject to the NIRB's recommended project-specific terms and conditions.

Current File History

Prosperity Goldfields Corp. is applying for a quarry permit in support of the proposed construction of an all-weather airstrip *not* considered by the NIRB through previous applications associated with the "Kiyuk Lake" project. The NIRB determined that this request may result in a change to the original scope of the project and distributed the project proposal was distributed to community organizations in the Kivalliq region, transboundary groups, relevant federal and territorial government agencies, and Inuit organizations. The NIRB requested that interested parties review the proposal and the NIRB's previously recommended terms and conditions and provide the Board with any comments or concerns by May 22, 2013 regarding:

- Whether the inclusion of the additionally proposed component(s) and/or activity(ies) would significantly modify the project;
- Any additional mitigation measures that are appropriate; and
- Any other matter of importance to the Party related to the project proposal.

On or before May 22, 2013 the NIRB received comments from the following interested parties:

- **Environment Canada (EC)**
- **Fisheries and Oceans Canada (DFO)**
- **Manitoba Denesuline (MD)**

All comments provided to NIRB regarding this project proposal can be viewed on NIRB's public registry: http://ftp.nirb.ca/01-SCREENINGS/COMPLETED%20SCREENINGS/.

Project Activities

As previously screened by the NIRB (File No.: 11EN019), the "Kiyuk Lake" project was located within the Kivalliq region, approximately 350 kilometres (km) southwest of Arviat and 100 km north of the Manitoba border. The program was proposed to take place between the spring of 2011 and the fall of 2016 with the goal of evaluating the Kiyuk Lake Gold deposit.

Project components and activities considered within the original assessment included the following:

- Overland transport of construction materials, supplies, and wastes using snow machines and a treaded tractor for approximately 6 trips per season;
- Use of treaded tractor to clear an ice strip for fixed wing aircraft support;
- Construction of an esker airstrip for summer fixed wing aircraft support;
- Transportation of bulk fuel and supplies by fixed wing aircraft and helicopter;
- Construction of a 20 person temporary camp composed of two structural insulated panel (SIP) structures, 10 Kevlar based dome tents, a generator, water pumps, and incinerator, as well as All-Terrain Vehicle (ATV) for camp use only;
- Installation of 5 double walled, 4,540 litre (L) bulk fuel storage tanks placed near the camp;
- Fuel caches to support drilling program;
- Drilling program consisting of 1 diamond drill, 22 holes, each hole a maximum 250 metres (m) deep;
- Movement of drill by tractor when the ground is frozen, and by helicopter during the surface thaw period; and
- Estimated water usage of 55 (m^3/day) to support drilling and camp operations.

On December 2, 2011 the NIRB received an application from AANDC for an amendment to the Land Use Permit (No. N2011C0011) for the above mentioned project. After a thorough assessment of the amendment request as well as comments received from interested parties, the NIRB determined that the application was exempt from the requirement for further screening pursuant to Section 12.4.3 of the NLCA, and reissued the enclosed screening decision report to the Minister of AANDC on December 15, 2011. Project components/activities included the following:

- Increase on-site fuel and fuel storage capacity from a maximum of 5 (4,540 L) tanks to a maximum of an additional 6 (4,540 L) tanks (for a combined total of 11 tanks or 49,940 L);
- Increase the size and function of the camp by adding buildings and infrastructure, specifically adding 1 ATV, 1 camp generator, and water pumps;
- Expand upon exploration activities to include:
    - Addition of one drill plus two water pumps and one generator;

    - Increasing drilling activity from 22 holes at 250 m depth as projected in 2011, to 60 holes at 200 m depth to be drilled in 2012; and
- Increase overall water use from 55 (m^3/day) to 100 (m^3/day).

On July 4, 2012 the NIRB received an application from AANDC for an amendment to the Land Use Permit (No. N2011C0011) for the above mentioned project. After a thorough assessment of the amendment request as well as comments received from interested parties, the NIRB determined that the application was exempt from the requirement for further screening pursuant to Section 12.4.3 of the NLCA, and reissued the enclosed screening decision report to the Minister of AANDC on August 22, 2012. Project components/activities included the following:

- Addition of one 4,540 L bulk fuel storage tank to existing bulk fuel storage;
- Addition of one tent to existing camp infrastructure; and
- 6-week exploration program including airborne geophysics of the property (approximately 1200 square kilometres), prospecting, mapping, and sampling of rock, till, soil, and vegetation.

On December 5, 2012 the NIRB received an application from AANDC for an amendment to the Land Use Permit (No. N2011C0011) associated with the above mentioned project. After a thorough assessment of the amendment request as well as comments received from interested parties, the NIRB determined that the application was exempt from the requirement for further screening pursuant to Section 12.4.3 of the NLCA, and reissued the enclosed screening decision report to the Minister of AANDC on March 25, 2013. The activities and components associated with the amendment application included the following:

- Increase on-site fuel storage by adding (2) two 30, 000 L bulk fuel storage tanks for an updated total capacity of on-site bulk fuel storage of 120,368 L;
- Addition of 2 fuel transport tanks (each with 500 gallon capacity);
- Increase water usage from 100 (m^3/day) to 160 (m^3/day);
- Increase camp infrastructure to accommodate up to 50 people by adding:
    - 3 administration tents and 5 accommodation tents,
    - 2 bathrooms,
    - 2 snowmobiles,
    - 2 all-terrain vehicles,
    - 2 MST 2200 Morooka track machines;
- Expand the drilling exploration program to include:
    - 1 additional drill for a total of 3 drills, and
    - Increase drilling activities from 60 holes at 200m depth to 135 holes; and,
- Additional machinery on site, including 1 Caterpillar bulldozer, 1 315 CL Caterpillar track excavator and 1 tip-trailer to site via Hercules.

The Proponent's current application involved a quarry permit to support the proposed construction of an all-weather airstrip, including the following additional components and activities:

- Collection of 5,700 cubic metres (m^3) of sand to construct the all-weather airstrip;

- Use of heavy equipment to flatten sand (i.e., Caterpillar bulldozer, excavator and tip-trailer);
- Removal of 6,000 square metres (m^2) of trees and shrubs; and
- Use of the removed timber to support on-site infrastructure (e.g., footings for buildings or drill pads and helicopter landing pad).

Appendix B
Species at Risk in Nunavut

This list includes species listed on one of the Schedules of SARA (*Species at Risk Act*) and under consideration for listing on Schedule 1 of SARA. These species have been designated as at risk by COSEWIC (Committee on the Status of Endangered Wildlife in Canada). This list may not include all species identified as at risk by the Territorial Government.

- Schedule 1 is the official legal list of Species at Risk for SARA. SARA applies to all species on Schedule 1. The term "listed" species refers to species on Schedule 1.
- Schedule 2 and 3 of SARA identify species that were designated at risk by the COSEWIC prior to October 1999 and must be reassessed using revised criteria before they can be considered for addition to Schedule 1.
- Some species identified at risk by COSEWIC are "pending" addition to Schedule 1 of SARA. These species are under consideration for addition to Schedule 1, subject to further consultation or assessment.

Schedules of SARA are amended on a regular basis so it is important to periodically check the SARA registry (http://www.sararegistry.gc.ca/default_e.cfm) to get the current status of a species.

Updated: January 2012

Terrestrial Species at Risk [1]	**COSEWIC Designation**	**Schedule of SARA**	**Government Organization with Primary Management Responsibility** [2]
Eskimo Curlew	Endangered	Schedule 1	EC
Ivory Gull	Endangered	Schedule 1	EC
Ross's Gull	Threatened	Schedule 1	EC
Harlequin Duck (Eastern population)	Special Concern	Schedule 1	EC
Rusty Blackbird	Special Concern	Schedule 1	GN
Felt-leaf Willow	Special Concern	Schedule 1	GN
Peregrine Falcon	Special Concern (*anatum-tundrius* complex[3])	Schedule 1 - Threatened (*anatum*) Schedule 3 – Special Concern (*tundrius)*	GN
Short-eared Owl	Special Concern	Schedule 3	GN
Peary Caribou	Endangered	Schedule 1	GN
Barren-ground Caribou (Dolphin and Union population)	Special Concern	Schedule 1	GN

Terrestrial Species at Risk [1]	**COSEWIC Designation**	**Schedule of SARA**	**Government Organization with Primary Management Responsibility** [2]
Polar Bear	Special Concern	Schedule 1	GN
Red Knot (*rufa* subspecies)	Endangered	Pending	EC
Red Knot (*islandica* subspecies)	Special Concern	Pending	EC
Porsild's Bryum	Threatened	Pending	GN
Horned Grebe (Western population)	Special Concern	Pending	EC
Grizzly Bear	Special Concern	Pending	GN
Wolverine (Western population)	Special Concern	Pending	GN
Atlantic Cod, Arctic Lakes	Special Concern	No schedule	DFO
Atlantic Walrus	Special Concern	Pending	DFO
Beluga Whale (Cumberland Sound population)	Threatened	Pending	DFO
Beluga Whale (Eastern Hudson Bay population)	Endangered	Pending	DFO
Beluga Whale (Western Hudson Bay population)	Special Concern	Pending	DFO
Beluga Whale (Eastern High Arctic – Baffin Bay population)	Special Concern	Pending	DFO
Bowhead Whale (Eastern Canada – West Greenland population)	Special Concern	Pending	DFO
Killer Whale (Northwest Atlantic / Eastern Arctic populations)	Special Concern	Pending	DFO
Narwhal	Special Concern	Pending	DFO

[1] The Department of Fisheries and Oceans has responsibility for aquatic species.

[2] Environment Canada (EC) has a national role to play in the conservation and recovery of Species at Risk in Canada, as well as responsibility for management of birds described in the Migratory Birds Convention Act (MBCA). Day-to-day management of terrestrial species not covered in the MBCA is the responsibility of the Territorial Government. Populations that exist in National Parks are also managed under the authority of the Parks Canada Agency.

[3] The *anatum* subspecies of Peregrine Falcon is listed on Schedule 1 of SARA as threatened. The *anatum* and *tundrius* subspecies of Peregrine Falcon were reassessed by COSEWIC in 2007 and combined into one subpopulation complex. This subpopulation complex was assessed by COSEWIC as Special Concern.

Appendix C
Archaeological and Palaeontological Resources Terms and Conditions for Land Use Permit Holders

INTRODUCTION

The Department of Culture and Heritage (CH) routinely reviews land use applications sent to the Nunavut Water Board, Nunavut Impact Review Board and the Department of Indian and Northern Affairs Canada. These terms and conditions provide general direction to the permittee/proponent regarding the appropriate actions to be taken to ensure the permittee/proponent carries out its role in the protection of Nunavut's archaeological and palaeontological resources.

TERMS AND CONDITIONS

1) The permittee/proponent shall have a professional archaeologist and/or palaeontologist perform the following **Functions** associated with the **Types of Development** listed below or similar development activities:

	Types of Development (See Guidelines below)	**Function** (See Guidelines below)
a)	Large scale prospecting	Archaeological/Palaeontological Overview Assessment
b)	Diamond drilling for exploration or geotechnical purpose or planning of linear disturbances	Archaeological/ Palaeontological Inventory
c)	Construction of linear disturbances, Extractive disturbances, Impounding disturbances and other land disturbance activities	Archaeological/ Palaeontological Inventory or Assessment or Mitigation

Note that the above-mentioned functions require either a Nunavut Archaeologist Permit or a Nunavut Palaeontologist Permit. CH is authorized by way of the *Nunavut and Archaeological and Palaeontological Site Regulations*[1] to issue such permits.

[1] P.C. 2001-1111 14 June, 2001

2) The permittee/proponent shall not operate any vehicle over a known or suspected archaeological or palaeontological site.

3) The permittee/proponent shall not remove, disturb, or displace any archaeological artifact or site, or any fossil or palaeontological site.

4) The permittee/proponent shall immediately contact CH at (867) 934-2046 or (867) 975-5500 should an archaeological site or specimen, or a palaeontological site or fossil, be encountered or disturbed by any land use activity.

5) The permittee/proponent shall immediately cease any activity that disturbs an archaeological or palaeontological site encountered during the course of a land use operation until permitted to proceed with the authorization of CH.

6) The permittee/proponent shall follow the direction of CH in restoring disturbed archaeological or palaeontological sites to an acceptable condition. If these conditions are attached to either a Class A or B Permit under the Territorial Lands Act INAC's directions will also be followed.

7) The permittee/proponent shall provide all information requested by CH concerning all archaeological sites or artifacts and all palaeontological sites and fossils encountered in the course of any land use activity.

8) The permittee/proponent shall make best efforts to ensure that all persons working under its authority are aware of these conditions concerning archaeological sites and artifacts and palaeontological sites and fossils.

9) If a list of recorded archaeological and/or palaeontological sites is provided to the permittee/proponent by CH as part of the review of the land use application the permittee/proponent shall avoid the archaeological and/or palaeontological sites listed.

10) Should a list of recorded sites be provided to the permittee/proponent, the information is provided solely for the purpose of the proponent's land use activities as described in the land use application, and must otherwise be treated confidentially by the proponent.

LEGAL FRAMEWORK

As stated in Article 33 of the *Nunavut Land Claims Agreement*:

Where an application is made for a land use permit in the Nunavut Settlement Area, and there are reasonable grounds to believe that there could be sites of archaeological importance on the lands affected, no land use permit shall be issued without written consent of the Designated Agency. Such consent shall not be unreasonably withheld. [33.5.12]

Each land use permit referred to in Section 33.5.12 shall specify the plans and methods of archeological site protection and restoration to be followed by the permit holder, and any other conditions the Designated Agency may deem fit. [33.5.13]

Palaeontology and Archaeology

Under the *Nunavut Act*[2], the federal government can make regulations for the protection, care and preservation of palaeontological and archaeological sites and specimens in Nunavut. Under the *Nunavut Archaeological and Palaeontological Sites Regulations*[3], it is illegal to alter or disturb any palaeontological or archaeological site in Nunavut unless permission is first granted through the permitting process.

Definitions

As defined in the *Nunavut Archaeological and Palaeontological Sites Regulations*, the following definitions apply:

> *"archaeological site" means a place where an archaeological artifact is found.*
>
> *"archaeological artifact" means any tangible evidence of human activity that is more than 50 years old and in respect of which an unbroken chain of possession or regular pattern of usage cannot be demonstrated, and includes a Denesuline archaeological specimen referred to in section 40.4.9 of the Nunavut Land Claims Agreement.*
>
> *"palaeontological site" means a site where a fossil is found.*
>
> *"fossil" includes:*
> *Fossil means the hardened or preserved remains or impression of previously living organisms or vegetation and includes:*
> *(a) natural casts;*
> *(b) preserved tracks, coprolites and plant remains; and*
> *(c) the preserved shells and exoskeletons of invertebrates and the preserved eggs, teeth and bones of vertebrates*

[2] s. 51(1)
[3] P.C. 2001-1111 14 June, 2001

GUIDELINES FOR DEVELOPERS FOR THE PROTECTION OF ARCHAEOLOGICAL RESOURCES IN THE NUNAVUT TERRITORY

(**NOTE:** Partial document only, complete document at: http://gov.nu.ca/cley/english/arch.html)

Introduction

The following guidelines have been formulated to ensure that the impacts of proposed developments upon heritage resources are assessed and mitigated before ground surface altering activities occur. Heritage resources are defined as, but not limited to, archaeological and historical sites, burial grounds, palaeontological sites, historic buildings and cairns Effective collaboration between the developer, the Department of Culture, Language, Elders and Youth (CH), and the contract archaeologist(s) will ensure proper preservation of heritage resources in the Nunavut Territory. The roles of each are briefly described.

CH is the Nunavut Government agency which oversees the protection and management of heritage resources in Nunavut, in partnership with land claim authorities, regulatory agencies, and the federal government. Its role in mitigating impacts of developments on heritage resources is as follows: to identify the need for an impact assessment and make recommendations to the appropriate regulatory agency; set the terms of reference for the study depending upon the scope of the development; suggest the names of qualified individuals prepared to undertake the study to the developer; issue an archaeologist or palaeontologist permit authorizing field work; assess the completeness of the study and its recommendations; and ensure that the developer complies with the recommendations.

The primary regulatory agencies that CH provides information and assistance to are the Nunavut Impact Review Board, for development activities proposed for Inuit Owned Lands (as defined in Section 1.1.1 of the Nunavut Land Claims Agreement), and the Department of Indian and Northern Affairs, for development activities proposed for federal Crown Lands.

A developer is the initiator of a land use activity. It is the obligation of the developer to ensure that a qualified archaeologist or palaeontologist is hired to perform the required study and that provisions of the contract with the archaeologist or palaeontologist allow permit requirements to be met; i.e. fieldwork, collections management, artifact and specimen conservation, and report preparation. On the recommendation of the contract archaeologist or palaeontologist in the field and the Government of Nunavut, the developer shall implement avoidance or mitigative measures to protect heritage resources or to salvage the information they contain through excavation, analysis, and report writing. The developer assumes all costs associated with the study in its entirety.

Through his or her active participation and supervision of the study, the contract archaeologist or palaeontologist is accountable for the quality of work undertaken and the quality of the report produced. Facilities to conduct fieldwork, analysis, and report preparation should be available to this individual through institutional, agency, or company affiliations. Responsibility for the curation of objects recovered during field work while under study and for documents generated in the course of the study as well as remittance of artifacts, specimens and documents to the repository specified on the permit accrue to the contract archaeologist or palaeontologist. This individual is also bound by the legal requirements of the *Nunavut Archaeological and*

Palaeontological Sites Regulations.

Types of Development

In general, those developments that cause concern for the safety of heritage resources will include one or more of the following kinds of surface disturbances. These categories, in combination, are comprehensive of the major kinds of developments commonly proposed in Nunavut. For any single development proposal, several kinds of these disturbances may be involved

- *Linear disturbances: including the construction of highways, roads, winter roads, transmission lines, and pipelines;*
- *Extractive disturbances: including mining, gravel removal, quarrying, and land filling;*
- *Impoundment disturbances: including dams, reservoirs, and tailings ponds;*
- *Intensive land use disturbances: including industrial, residential, commercial, recreational, and land reclamation work, and use of heritage resources as tourist developments.*
- *Mineral, oil and gas exploration: establishment of camps, temporary airstrips, access routes, well sites, or quarries all have potential for impacting heritage resources*.

Types of Studies Undertaken to Preserve Heritage Resources

Overview: An overview study of heritage resources should be conducted at the same time as the development project is being designed or its feasibility addressed. They usually lack specificity with regard to the exact location(s) and form(s) of impact and involve limited, if any, field surveys. Their main aim is to accumulate, evaluate, and synthesize the existing knowledge of the heritage of the known area of impact. The overview study provides managers with baseline data from which recommendations for future research and forecasts of potential impacts can be made. A Class I Permit is required for this type of study if field surveys are undertaken.

Reconnaissance: This is done to provide a judgmental appraisal of a region sufficient to provide the developer, the consultant, and government managers with recommendations for further development planning. This study may be implemented as a preliminary step to inventory and assessment investigations except in cases where a reconnaissance may indicate a very low or negligible heritage resource potential. Alternately, in the case of small-scale or linear developments, an inventory study may be recommended and obviate the need for a reconnaissance.

The main goal of a reconnaissance study is to provide baseline data for the verification of the presence of potential heritage resources, the determination of impacts to these resources, the generation of terms of reference for further studies and, if required, the advancement of preliminary mitigative and compensatory plans. The results of reconnaissance studies are primarily useful for the selection of alternatives and secondarily as a means of identifying impacts that must be mitigated after the final siting and design of the development project.

Depending on the scope of the study, a Class 1 or Class 2 Permit is required for this type of investigation.

Inventory: A resource inventory is generally conducted at that stage in a project's development at which the geographical area(s) likely to sustain direct, indirect, and perceived impacts can be well defined. This requires systematic and intensive fieldwork to ascertain the effects of all possible and alternate construction components on heritage resources. All heritage sites must be recorded on Government of Nunavut Site Survey forms. Sufficient information must be amassed from field, library and archival components of the study to generate a predictive model of the heritage resource base that will:

- allow the identification of research and conservation opportunities;
- enable the developer to make planning decisions and recognize their likely effects on the known or predicted resources; and
- make the developer aware of the expenditures, which may be required for subsequent studies and mitigation. A Class 1 or 2 permit is required

Assessment: At this stage, sufficient information concerning the numbers and locations of heritage resources will be available, as well as data to predict the forms and magnitude of impacts. Assessments provide information on the size, volume, complexity and content of a heritage resource, which is used to rank the values of different sites or site types given current archaeological knowledge. As this information will shape subsequent mitigation program(s), great care is necessary during this phase.

Mitigation: This refers to the amelioration of adverse impacts to heritage resources and involves the avoidance of impact through the redesign or relocation of a development or its components; the protection of the resource by constructing physical facilities; or, the scientific investigation and recovery of information from the resource by excavation or other method. The type(s) of appropriate mitigative measures are dictated by their viability in the context of the development project. Mitigation strategies must be developed in consultation with, and approved by, the Department of Culture, Language, Elders and Youth. It is important to note that mitigation activities should be initiated as far in advance of the construction of the development as possible.

Surveillance and monitoring: These may be required as part of the mitigation program.

Surveillance may be conducted during the construction phase of a project to ensure that the developer has complied with the recommendations.

Monitoring involves identification and inspection of residual and long-term impacts of a development (i.e. shoreline stability of a reservoir); or the use of impacts to disclose the presence of heritage resources, for example, the uncovering of buried sites during the construction of a pipeline.