



## PART 1 FORM PROJECT PROPOSAL INFORMATION REQUIREMENTS

To access NIRB documents, project screenings, and project reviews please visit the Nunavut Impact Review Board's ftp site <http://ftp.nirb.ca/>. The NIRB's website ([www.nirb.ca](http://www.nirb.ca)) is currently under construction. Please contact [info@nirb.ca](mailto:info@nirb.ca) should you have any questions or require further information.

### IMPORTANT!

Please be advised that your application will not be processed until the Sections 1 - 9 are completed in their entirety, in both English and Inuktitut (+ Inuinnaqtun, if in the Kitikmeot).

### SECTION 1: APPLICANT INFORMATION

1. **Project Name** Mel Project

2. **Applicant's full name and mailing address:**

North Arrow Minerals Inc.  
Suite 960 – 789 West Pender Street  
Vancouver, BC V6C 1H2

Phone: 604-668-8355 (Main Office)  
Fax: 604-336-4813

Email: [mmacmorran@northarrowminerals.com](mailto:mmacmorran@northarrowminerals.com)

3. **Primary contact's full name and mailing address:**

Mike MacMorran (Geologist)  
Address same as above

Phone: 604-563-4808 (Direct Line)  
Fax: 604-336-4813

Email: [mmacmorran@northarrowminerals.com](mailto:mmacmorran@northarrowminerals.com)

### SECTION 2: AUTHORIZATION NEEDED

1. **Indicate all authorizations associated with the project proposal:**

<input type="checkbox"/>	Regional Inuit Association (RIA)
<input checked="" type="checkbox"/>	Nunavut Water Board (NWB)
<input checked="" type="checkbox"/>	Nunavut Planning Commission (NPC)
<input checked="" type="checkbox"/>	Indian and Northern Affairs Canada (INAC)
<input type="checkbox"/>	Department of Fisheries and Oceans (DFO)
<input type="checkbox"/>	Community Government & Services (CG&S)
<input type="checkbox"/>	Nunavut Research Institute (NRI)
<input type="checkbox"/>	Department of Culture, Language, Elders, and Youth (CLEY)

<input type="checkbox"/>	Canadian Launch Safety (CLS)
<input type="checkbox"/>	Environment Canada (EC)
<input type="checkbox"/>	Government of Nunavut (GN)
<input type="checkbox"/>	Department of National Defense (DND)
<input type="checkbox"/>	Hamlet
<input type="checkbox"/>	Parks Canada (PC)
<input type="checkbox"/>	Canadian Wildlife Service (CWS)
<input type="checkbox"/>	Other (please specify):

2. **List the active permits, licenses, or other authorizations related to the project proposal, and their expiry date(s):**

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**IMPORTANT:** IF THE PROPOSED ACTIVITIES REQUIRE SUBMISSION OF A NIRB PART 2 PSIR FORM, PLEASE COMPLETE SECTION 8 ONLY, OTHERWISE CONTINUE ON WITH SECTION 5.

### SECTION 5: MATERIAL USE

1. List equipment to be used (including drills, pumps, aircraft, vehicles, etc.):

Equipment type and number	Size – dimensions	Proposed use
<p>1 Helicopter (Bell 206 Long Ranger or similar)</p>	<p><i>Approx. 12 m x 2.8 m x 10.6 m (rotor diameter), 1,057 kg.</i></p>	<ul style="list-style-type: none"> <li>• <i>Daily transport of personnel to/from drill site and Camp. Estimate 2-4 flights per day during drilling.</i></li> <li>• <i>Transport of drill and its components to the drill site at the start of the program and once upon its completion; alternatively, a fixed wing single or twin otter may be used to mob/demob the drill if a safe landing location is identified.</i></li> <li>• <i>Transport of drill core boxes from the drill site to Camp (estimated at one flight per day for approximately 3-6 weeks' time)</i></li> <li>• <i>Transport of fuel drums to the drilling area and for the removal of the empty drums at the end of the program</i></li> </ul>
<p>1 Drill (Discovery 1 or Hornet RC or similar, heli-portable)</p>	<p><i>Approx. 6 m x 6 m x 3 m, 3,000 kg</i></p>	<p><i>Rock coring and RC chip sample collection</i></p>



1-2 Snowmobiles	<i>Approx. 2 m x 1 m x 1 m, 200 kg</i>	<i>Transporting crews to/from the drill, and general working purposes in camp during the winter months.</i>
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**2a. Detail fuel and hazardous material use:**

Fuel	Number of Containers and Capacity of Containers	Total Amount of Fuel (in Litres)	Proposed Storage Methods
Diesel	50 (205 litres)	10250	Temporary storage berm in Camp, temporary storage berm at the drill site; fuel stored at site estimated at 3-6 drums. If possible, purchase bulk fuel from community on an as needed basis.
Gasoline	2-3 20 litre Jerry Cans	40-60	Temporary storage berm in Camp
Aviation fuel – Jet A/B	50 (205 litres)	10250	Temporary storage berm in Camp, temporary storage berm at the drill site; Fuel stored at site estimated at 1-2 drums at any one time for emergency purposes and to support drill moves.
Propane	5 x 100 lb tank	100 lb tank	Proximal to the drill. 1-2 tanks stored at the drill, the remainder kept in Camp.
Other			
Hazardous Materials and Chemicals		Total Amount of Hazardous Materials and Chemicals (in Litres)	
Engine Oil	12 (1 litre)	12	Proximal to the drill
Antifreeze	5 (5 litre)	25	Proximal to the drill
Drilling muds/grease	2 (20 litres)	40	Proximal to the drill
Salt	2 10-20 lb bags	n/a	Proximal to the drill
Lead Battery	1	n/a	Stored within the drill

**2b. Describe the proposed Spill Prevention Plan.**

See *Mel Project Spill Contingency Plan* submitted along with application

**3a. Detail the anticipated daily water consumption rates**

Daily amount (m <sup>3</sup> )	Proposed water retrieval methods	Proposed water retrieval location
<i>0-50</i>	<i>Hose with screen and water pump</i>	<i>Waterbodies with suitable capacity located within the proposed land use area (see Appendix “A” in Project Specific Information Request Form)</i>







## APPENDIX A Project Type Definitions

**Access Trail:** A project proposal with the objective of providing vehicular access to an area of interest involving minimal alteration to the terrain.

**Advanced Exploration:** A project proposal with the objective of identifying size, grade, and physical characteristics of a mineral occurrence and to assess the economic and technical feasibility of developing the mineral deposit into a producing mine

**All-Weather Road:** A project proposal with the objective of road construction for use in all seasons.

**Bulk Sampling:** A project proposal with the objective of extracting of large samples of mineralized material involving hundreds to thousands of tonnes. Samples are selected as representative of the potential mineral deposit being sampled. May involve crushing/milling (on small-scale)

**Harvesting activities:** A project proposal with the objective of harvesting animals, marine mammals and/or fish from their natural habitats by means of hunting or trapping for traditional and commercial use.

**Marine Based Activities:** Any activity occurring in the marine environment, such as vessel use associated with land-based activities or disposal at sea.

\*Please note that normal community re-supply or individual ship movements not associated with land-based project proposals shall not be screened by NIRB (Section 12.12.2 of NLCA).

**Mine Development:** A project proposal with the objective of extracting broken rock with mineralization of sufficient grade and tonnage to sustain commercial mining operations (ore). Mining a body of ore can be achieved by either open pit and/or underground development. Mine development may involve milling. Milling involves treatment of the extracted ore through a combination of mechanical and chemical processes to selectively recover the valuable mineral.

**Mineral Exploration:** A project proposal with the objective of exploring an area to find geological anomalies. It involves site reconnaissance (ground and/or air) to locate broad and fiscal mineral deposits.

**Offshore Infrastructure:** A project proposal with the objective of building off loading facilities constructed off the shoreline and connected to the mainland of the marine or freshwater environment. Examples include a jetty, dock, or port facility.

**Oil and Gas Exploration/Activities:** A project proposal that includes 1) exploration, such as seismic or geological mapping, 2) drilling of oil and gas wells, 3) construction and operation of a pipeline, a gas processing plant or any oil and gas facility within Nunavut.

**Pits and Quarries:** A project proposal with the objective of pitting, which involves the extraction of granular material (i.e. sands and gravels) and quarrying, which involves the removal of consolidated rock (i.e. bedrock, frozen soil).

**Scientific Research:** A project proposal with the objective of implementing a series of site activities comprised of observation of phenomena, measurement and collection of data necessary for scientific investigation in designated areas within a limited time period.

**Seismic Survey:** A project proposal with the objective of conducting a survey to map the depths and contours of rock strata by timing the reflections of sound waves released from the surface. Survey site locations may be offshore (not within 12 nautical miles of any coast), near shore, and extended onshore.

**Site Cleanups:** A project proposal with the objective of site cleanups (includes DEW line site cleanups), which focuses on the remediation of chemically contaminated soils, stabilization of landfills and dumps, demolition/disposal of infrastructure and debris and monitoring after cleanup is completed.

