

Nunavut Water
Board

10) 0 2 205

Public Registry

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) is currently under construction. Please contact 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 (+ Inuinnagtun, if in the Kitikmeot).

	Project Name Luxx Project			
	Applicant's full name and mailing address: North Arrow Minerals Inc.	Pho	ne:	604-668-8355
	Suite 960 – 789 West Pender Street	Fa	X:	604-336-4813
	Vancouver, BC V6C 1H2	_		mmacmorran@northarrowminer
		_ Ema	ail:	_als.com
	Primary contact's full name and mailing address:	Dha	'n	604-563-4808
	Miles ManMarrey (Contagint)	_ Pho Fa		604-336-4813
	Mike MacMorran (Geologist) Address same as above	_ га	IX.	mmacmorran@northarrowminer
	Address same as above	Em	ail·	als.com
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L	ist the <u>pending</u> permits, licenses, or ot	ilet au		,	
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	as this project or <u>any components of th</u> IRB?	is pro	ject b	een previously screened or reviewe	d by
	☐ YES			X NO	
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(8	dicate the type of project proposal (che See Appendix A for Project Type Definiti	eck all	that a	pply) ^(1,2) :	
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1 2 3	All-Weather Road/Access Trail Winter Road/ Winter Trail Mineral Exploration	eck all ons)	9 10	Site Cleanup/Remediation Oil and Natural Gas Exploration/Activities Marine Based Activities Scientific/International Polar Year	
1 2 3 4	All-Weather Road/Access Trail Winter Road/ Winter Trail Mineral Exploration Advanced Mineral Exploration	eck all ions)	9 10 11	Site Cleanup/Remediation Oil and Natural Gas Exploration/Activities Marine Based Activities Scientific/International Polar Year Research*	
1 2 3 4 5	All-Weather Road/Access Trail Winter Road/ Winter Trail Mineral Exploration Advanced Mineral Exploration Mine Development /Bulk Sampling	eck all ions)	9 10 11 12	Site Cleanup/Remediation Oil and Natural Gas Exploration/Activities Marine Based Activities Scientific/International Polar Year Research* Harvesting Activities*	

- 1. All project types listed above, except those marked with an asterisk (*), will also require the Proponent to submit a Part 2 Project Specific Information Requirement (PSIR) Form. The NIRB application process will not be considered complete without the Part 2 PSIR Form.
- 2. Please be advised that in order to complete the NIRB process, the NIRB may request additional information at any time during the process.
- 3. If "Other" is selected, contact NIRB for direction on whether a Part 2 PSIR Form is required.



	c, copper, g	gold, silver, etc)				<u> </u>
X Diamonds						
Uranium						
Other:						
3a. If Project Type 1	12, 13 or	14 was selecte	ed above, comple	te the table and	d questions below.	
Transportation T	уре	Quantity	Prop	osed Use	Length o	of Us
E.g. Helicopter		1	Site to site pio	ck ups and drop of	ffs 7-14 d	ays
		İ				
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6c. Discuss the history of the site if it has been used for any project activities in the past.

the community of Rank	in Inlet. Prior to I		n 2013 and 2014 based out of neral claims, the area was the ls.
6d. Indicate if there are a	any known archae	ological/paleontological historic	al sites in the area.
Unknown			
7. Land Status (check all	that applies):		
X Crown Inuit Owned Surface		nmissioners' [Owned Sub-Surface Lands	Municipal
8a. Co-ordinates:			
Min Lat (degree/minute) Max Lat (degree/minute)	63°35'2.4" 63°37'30"	Min Long (degree/minute) Max Long (degree/minute)	-91°45'2.16" -91°38'53.52"
	550/12 te project are attached	(1:50,000 if available, 1:250, 000 Ma	ndatory) available from Natural
8b. If the project proposa	al includes a cam p	o, please provide the coordinat	es of the camp location
Min Lat (degree/minute) Max Lat (degree/minute)	n/a n/a	Min Long (degree/mi Max Long (degree/m	
If different from abov	n/a	(1:50,000 if available, 1:250, 000 Mar	relators) available from Netural
Resources Canada	e project are attached	(1.50,000 II avallable, 1.250, 000 Mar	iuatory) avallable from Natural
		ation may be required in a subon. This may take the form of	sequent Project Specific a digital Geographic Information

SECTION 4: NON-TECHNICAL PROJECT PROPOSAL DESCRIPTION

Please include a non-technical description of the project proposal, no more than 500 words, in English and Inuktitut (+Inuinnaqtun, if in the Kitikmeot). The project description should outline the following:

- The project activities, their necessity and duration;
- Method of transportation;
- Any structures that will be erected (permanent/ temporary);
- Alternatives considered; and
- Long-term developments, the projected outcome of the development for the area and its timeline.



<u>IMPORTANT:</u> 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
Equipment type and number 1 Helicopter (Bell 206 Long Ranger or similar)	Approx. 12 m x 2.8 m x 10.6 m(rotor diameter), 1,057 kg.	 Daily transport of personnel to/from drill site and Chesterfield Inlet. Estimate 2-4 flights per day during drilling. 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



1 Drill (Discovery 1 or similar, heli-portable)	Approx. 6 m x 6 m x 3 m, 2,182 kg	Rock coring and sample collection

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 town, temporary storage berm at the drill site; 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 town
Aviation fuel – Jet A/B	50 (205 litres)	10250	Temporary storage berm in town, temporary storage berm at the drill site; Fuel stored at site estimated at 3-6 drums at any one time to support drill moves.
Propane	5 x 100 lb tank	100 lb tank	Proximal to the drill
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 attached Spill Contingency Plan						

3a. Detail the anticipated daily water consumption rates

Daily amount (m³)	Proposed water retrieval methods	Proposed water retrieval location
25-50	Hose with screen and water pump	Waterbodies with suitable capacity located within the proposed land use area (see Appendix "A" in Project Specific Information Request Form)

3b. Have you applied for	r a water License with the Nunavut Water Board	?
х	YES	□ NO



If yes, what class of licence?

☐ Class A Water Licence

X Class B Water Licence

SECTION 6: WASTE DISPOSAL AND TREATMENT METHODS

1. List the types of waste associated with the proposed project activities:

Type of waste	Projected amount generated	Method of Disposal	Additional treatment procedures
Sewage (human waste)	n/a		
Greywater	n/a		
Combustible wastes	Domestic (food containers, paper) – small amount	Transport to town for proper disposal	
Non-Combustible wastes	Bulk items: scrap metal - small amount	Transport to town for proper disposal	
Overburden (organic soil, waste material, tailings)	n/a		
Hazardous waste	Diesel drums Aviation fuel drums Propane Tank	Backhauled to an approved facility for disposal or refilling.	
	Engine oil/container's Antifreeze/containers Drilling muds/grease Salt	Waste oil will be collected and sealed in clearly marked 205L drums and transported to an approved disposal site.	
	Batteries	Lead batteries will also be contained in appropriate sealed container, clearly marked and transported for disposal at an approved facility.	
Drill cuttings		Cuttings will be collected in a natural sump. They will not be allowed to flow into any watercourse.	
Drill water		Any surface runoff during or after drilling will be contained or channeled so it will be filtrated and not directly enter any watercourse.	

2.	Describe	the pr	posed	Waste	Manag	gement	Plan.
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See attached NIRB - Pi procedures.	roject Specific Information	Request Form for Waste I	Nanagement
SECTION	7: COMMUNITY INVOL	/EMENT & DECIONAL	DENEEITS
	y representatives that have		
Community	Name	Organization	Date Contacted
Chesterfield Inlet	Harry Aggark (Mayor), Douglas Aggark (Acting Settlement Administrative Officer), Mark Amarok (HTO and Council), Marlene Aggark, Mary-Ann Issaluk (HTO), Louie Autut (elder)	Hamlet (council, Mayor); HTO	May 22, 2014 (see Appendix E of the NIRB Part 2 PSIR Form) Follow up meeting scheduled for November 17, 2015
Chesterfield Inlet	Leah Muckpah (Regional Coordinator)	KivlA	May 15, 21, 22, 2014 (see Appendix E of the NIRB Part 2 PSIR Form)
-	SECTION 8: GENI bing any known archaeolog YES	ERAL QUESTIONS pical sites?	
Please sign and date y		ICANT SIGNATURE	
On Signature	Geologis Title	/	Oct. 13, 2015 Date



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.



- **Tourism Activity:** A project proposal with the objective of conducting travel predominantly for recreational, sport or leisure purposes within a designated area and limited time period.
- Winter Road: A project proposal with the objective of building a road for winter use by leveling and compacting surface snow and ice. Winter road is removed at end of season.
- Winter Trail: A project proposal with the objective of building a trail for winter use by a single pass of a tracked vehicle using a blade, if necessary.



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2. List the <u>active</u> permits, licenses, or other authorizations related to the project proposal,



_	and their expiry date(s):				_
_					
3. (בעלי פלהלטי ⊃ףלפסר ו י:				
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1f	YES, indicate the previous project name	e and	NIRB	File No.	
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Uranium						
Other:						
3a. If Project Type 12	2, 13 or 14 w	as selected a	above, comple	te the t	able and questions	s below.
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3c. If a temporary can the type and source					d structures in detai	il and indicate
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6c. Discuss the history of the site if it has been used for any project activities in the past. 'Ե▷ት∖ጭር▷∟▷ጭጋጭ BHPd°ഛና ላෑL. Shear Minerals ▷ኦናኄፚላጭ∩∿ቦ°ഛና. 6d. Indicate if there are any known archaeological/paleontological historical sites in the area. ₯₵₯₯ॗॗॗॗॗॗॗॗॗॗॗ 7. ______ (check all that applies): Commissioners' Municipal Х ᠤᡆᡏ᠐ᡥᢆᡰ Inuit Owned Surface Lands Inuit Owned Sub-Surface Lands 8a. ഛെ ህላፕ: 63°35'2.4" -91°45'2.16" Min Lat (degree/minute) Min Long (degree/minute) Max Lat (degree/minute) 63°37'30" Max Long (degree/minute) -91°38'53.52" NTS Map Sheet No: 550/12 (Please ensure that maps of the project are attached (1:50,000 if available, 1:250, 000 Mandatory) available from Natural Resources Canada) 8b. If the project proposal includes a camp, please provide the coordinates of the camp location Min Lat (degree/minute) Min Long (degree/minute) n/a n/a Max Lat (degree/minute) Max Long (degree/minute) n/a If different from above for the camp: NTS Map Sheet No: Please ensure that maps of the project are attached (1:50,000 if available, 1:250, 000 Mandatory) available from Natural Resources Canada Please note that additional location information may be required in a subsequent Project Specific Information Requirement (PSIR) submission. This may take the form of a digital Geographic Information Systems (GIS) file. SECTION 4: NON-TECHNICAL PROJECT PROPOSAL DESCRIPTION

Please include a non-technical description of the project proposal, no more than 500 words, in English and Inuktitut (+Inuinnaqtun, if in the Kitikmeot). The project description should outline the following:

- The project activities, their necessity and duration;
- Method of transportation;
- Any structures that will be erected (permanent/ temporary);
- Alternatives considered; and



Long-term developments, the projected outcome of the development for the area and its timeline.

<u>IMPORTANT:</u> 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

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3a. Detail the anticipated daily water consumption rates

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SECTION 6: WASTE DISPOSAL AND TREATMENT METHODS

1. List the types of waste associated with the proposed project activities:

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SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

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SECTION 8: GENERAL QUESTIONS						
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SECTION 9: APP	LICANT SIGNATURE					
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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.



- **Tourism Activity:** A project proposal with the objective of conducting travel predominantly for recreational, sport or leisure purposes within a designated area and limited time period.
- Winter Road: A project proposal with the objective of building a road for winter use by leveling and compacting surface snow and ice. Winter road is removed at end of season.
- Winter Trail: A project proposal with the objective of building a trail for winter use by a single pass of a tracked vehicle using a blade, if necessary.