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NUNAVUT WATER BOARD

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OFFICE DES EAUX DU NUNAVUT

GENERAL WATER LICENCE APPLICATION (APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: <u>Guide to Completing and Submitting a Water Licence Application for a New Licence</u> for more information about this application form.

LICENCE NO: (for NWB use only)			
APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION (name, address) North Arrow Minerals Inc. Suite 960 - 789 West Pender St. Vancouver, BC V6C 1H2	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address) Same as Proposed Licensee		
Phone: 604-668-8355 Fax: 604-336-4813 e-mail: mmacmorran@northarrowminerals.com	Phone: Fax: e-mail: (Attach authorization letter.)		
3. NAME OF PROJECT (including the name of the project location) Luxx Project/Luxx Property			
4. LOCATION OF UNDERTAKING			
Project Extents			
V: Latitude: (63°37'30"N) Longitude: (-91°45'2.16"W) Latitude: (63°37'30"N) Longitude: (-91°38'53.52"W) Latitude: (63°35'2.4"N) Longitude: (-91°38'53.52"W) Latitude: (63°35'2.4"N) Longitude: (-91°45'2.16"W)			
Camp Location(s) – NO CAMP PROPOSED			
Latitude: (° ' " N) Longitude: (°	' "W)		
5. MAP - Attach a topographical map, indicating the	ne main components of the undertaking.		
See property maps included at bottom of application			

NTS N	Map Sheet No.: 55O/12	Map Name: Luxx P	Property Land Use Area Map	Map Scale: 1:50,000
6.			eck any of the following that a r the 'Surface' header must be	
	Sub-surface			
	☐ Mineral Lease from Nu Date (expected date) of is		corporated (NTI) Date of expiry:	
	☐ Mineral Lease from Ind Date (expected date) of is		ffairs Canada (INAC) Date of expiry:	
	Surface			
	☐ Crown Land Use Author Date (expected date) of is	rization from Indiar suance:	n and Northern Affairs Canada Date of expiry:	ı (INAC)
	☐ Inuit Owned Land (IOL Date (expected date) of is) Authorization from suance:	Nation (Nation (Nation) Nation (Nation) (Nation) Nation (Nation)	(IA)
	☐ IOL Authorization from Date (expected date) of is	Kivalliq Inuit Assoc suance:	iation (KivIA) Date of expiry:	
	☐ IOL Authorization from Date (expected date) of is	Qikiqtani Inuit Asso suance:	ociation (QIA) Date of expiry:	
	☐ Commissioner's Land United Date (expected date) of is	Jse Authorization suance:	Date of expiry:	
	✓ Other: Mineral Explorat Date of issuance: March			
Name	of entity(s) holding authoriz	ations:		
	North Arrow Minerals Inc.			
7.	NUNAVUT PLANNING C	OMMISSION (NPC	C) DETERMINATION	
	Indicate the land use plan	ning area in which	the project is located.	
	☐ North Baffin ☐ South Baffin ☐ Akunniq		eewatin Sanikiluaq Vest Kitikmeot	
:	ls a land use plan conforr	nity determination r	equired?	
	✓ Yes	□No		
	If Yes, indicate date issue If No, provide written cont is not required.	ed and attach copy: irmation from NPC	PENDING confirming that a land use pla	an conformity review

8.	NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION		
	Is an Article 12 Part 4 screening determination required?		
	✓ Yes □ No		
	If Yes, indicate date issued and attach copy: PENDING If No, provide written confirmation from NIRB confirming that a screening determination is not required.		
9.	DESCRIPTION OF UNDERTAKING – List and attach plans and drawings or project proposal. The land use activity being proposed is a drilling program on North Arrow Minerals Inc.'s ("North Arrow") Luxx Project – see project map(s) at the bottom of this application. The proposed land use activity will be conducted during the spring and/or summer months in 2016 and possibly beyond. The programs would be run out of Chesterfield Inlet – no camp is proposed as crews will stay in town. Drilling would take place on North Arrow's mineral claims which sit approximately 60 km west of town. Personnel working on the project may vary and typical personnel requirements will likely include 1 project geologist (with the possibility of up to 2 to 3 geologists/geo-technicians), 1 helicopter pilot, 1 helicopter engineer and 5 contract drillers. Phase 1 of the program is planned for spring and/or summer of 2016 and will involve drill-testing a small number of land- and lake-based geophysical targets. The drill program would run for approximately 1-2 weeks and drilling will be done with a small diamond drill and transported by helicopter.		
10.	OPTIONS – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project. No alternative methods/locations are proposed at this time.		
11.	 CLASSIFICATION OF PRIMARY UNDERTAKING - Indicate the primary classification of undertaking by checking one of the following boxes. 		
	☐ Industrial ☐ Agricultural ✓ Mining and Milling (includes exploration/drilling/exploration camps) ☐ Conservation ☐ Municipal (includes camps/lodges) ☐ Recreational ☐ Power ☐ Miscellaneous (describe below):		
	See Schedule II of <i>Northwest Territories Waters Regulations</i> for Description of Undertakings. Information in accordance with applicable Supplemental Information Guidelines (SIG) must be submitted with a New Water Licence Application. Indicate which SIG(s) are applicable to your application.		
	 ☐ Hydrostatic Testing ☐ Tannery ☐ Tourist / Remote Camp ☐ Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil ☐ Onshore Oil and Gas Exploration Drilling ✓ Mineral Exploration / Remote Camp (see NIRB Project Specific Information Request document submitted along with this application) ☐ Advanced Exploration ☐ Mine Development 		

	☐ Municipal ☐ General Water Works ☐ Power
12.	WATER USE - Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.
	 To obtain water for camp/ municipal purposes To obtain water for industrial purposes To cross a watercourse To modify the bed or bank of a watercourse To alter the flow of, or store water ✓ Other: Diamond Drilling
13.	QUANTITY AND QUALITY OF WATER INVOLVED - For each type of water use indicated in Block 12, provide the source of water, the quality of the water source and available capacity, the estimated quantity to be used in cubic meters per day, method of extraction, as well as the quantities and qualities of water to be returned to source.
	Drill water will be re-circulated, but some may be lost in the rock face. The drill will be accompanied by a "Poly Drill" or similar filtration system to treat return water where applicable. Cuttings and sludges will be stored in sumps.
	Name of water source(s) (show location(s) on map): Water sources will include viable lakes, creeks, rivers or streams close to proposed drill locations within the proposed land use area shown on the map attached at the end of this application (exact drill locations are yet to be determined).
	Describe the quality of the water source(s) and the available capacity: Water quality will be pristine. Care will be taken to ensure that water is drawn from bodies with sufficient capacity in order to avoid impact on lake level or flow. Water source quality and capacity will be verified for each drill site before drilling commences.
	Provide the overall estimated quantity of water to be used: Approximately 25-50 m ³ /day (if/when drilling is taking place)
	Provide the estimated quantity(s) of water to be used from each source: Drilling activities will likely consume 25-50 cubic metres per day (if/when drilling is taking place).
	Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.) Approximately 25-50 cubic metres will be used per day for drilling purposes when drilling is taking place.
	Describe the method of extraction(s): Water will be extracted by pump. The drill pumps use a 1" inside diameter suction hose on the diesel pump with a fine screen on the foot valve. It is common practice for the drilling contractor to place the foot valve of the intake hose in a perforated 20 litre pail, which further protects against harmful materials and fish being entrained into water intake hoses.
	Estimated quantity(s) of water returned to source(s): Approximately 25-50 m³/day. Water used for drilling will not be returned directly to the source, but placed in a sump to allow for slow infiltration into the soil and will be located at least 31 m away from the high water mark of waterbodies used.
	Describe the quality of water(s) returned to source(s):

	drilling program	waterbodies within the m. As most lakes in the vent the impingement ntially affect the quality	e area are fish-bearing or entrainment of fish	g, water intake will hav nduring pumping activi	ve suitable ities. The project
14.	WASTE – Check the appropriate box(s) to indicate the types of waste(s) generated and deposited.				
	Sewage Waste oil Solid Waste Greywater Hazardous ✓ Sludges (Drill cuttings) Bulky Items/Scrap Metal Contaminated soil and/or water Animal Waste Other (describe):				
15.	15. QUANTITY AND QUALITY OF WASTE INVOLVED – For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.				
	ype of Vaste	Composition	Quantity Generated	Treatment Method	Disposal Method
Drill (cuttings	Pulverized rock	0.1-1 cubic meters per drill hole (approx.)	n/a	Pumped into sumps and/or natural depressions
OTHER AUTHORIZATIONS – In addition to the sub-surface and surface land use authorizations provided in Block 6, indicate any other authorizations required in relation to the proposed undertaking. For each provide the following: Authorization: n/a					
	Administering Agency: n/a				
	Project Activity: n/a				
	Date (expecte	d date) of issuance: _	Date	of expiry:	
17.	7. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES - Describe direct, indirect, and cumulative impacts related to water and waste. Given the nature and scope of the proposed program, environmental impacts will be minimal. Affected areas will be drilling locations only. Coring will take place at each drill-site – this will result in the production of drill cuttings at the surface. Following the completion of each drill hole, holes left as a result of coring will be back-filled. Sumps filled with drill cuttings will be back-filled where appropriate.				

18. WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER

Provide the names, addresses and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.

North Arrow is not aware of anyone that will be affected by the proposed undertaking; however all exploration activity planning will take into account any possible impacts to the cultural value, including subsistence harvesting of the area and quality of water.

19. INUIT WATER RIGHTS

Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).

There will be no substantial affect to the quality, quantity or flow of waters.

20. CONSULTATION – Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

North Arrow representatives met with the Mayor of the Hamelt of Chesterfield Inlet (Harry Aggark), the Senior Administrative Officer (Douglas Aggark), Mark Amarok (HTO and Council), Marlene Aggark, Mary-Ann Issaluk (HTO), Louie Autut (elder) on May 22, 2014.

During the meeting a concern was raised about the impact on local wildlife from helicopter noise. It was suggested that the proponent use a camp to support work programs as this would result in less helicopter noise.

North Arrow has no plans to establish a camp at the project site, and the community will see additional benefits with crews staying in town. North Arrow suggested using a wildlife monitoring log or hiring a wildlife monitor to document all wildlife encounters during work programs. When wildlife is spotted, the proponent agrees to avoid disturbance where practicable (i.e. alter flight paths, no low-level flights except during takeoff/landing and in the event of an emergency).

21. SECURITY INFORMATION

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken.

	Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the <i>Mine Site Reclamation Policy for Nunavut,</i> Indian and Northern Affairs Canada, 2002. See North Arrow's "Condensed Interim Consolidated Financial Statements" (attached)				
22.	FINANCIAL INFORMATION				
	Provide a statement of financial responsibility.				
	If the applicant is a business entity, provide a list of the officers of the company.				
	If the applicant is a business entity attach a copy of the Certificate of Incorporation or evidence of registration of the company name.				
	See North Arrow's "Condensed Interim Consolidated Financial Statements" (attached)				
23.	STUDIES UNDERTAKEN TO DATE - List and attach copies of studies, reports, research, etc.				
	Assessment Report, Luxx Project, Chesterfield Inlet (2013)				
24.	PROPOSED TIME SCHEDULE – Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure). Construction				
	Proposed Start Date: Proposed Completion Date: (month/year) (month/year)				
	Operation Proposed Start Date: March 2016 Proposed Completion Date: To be determined (month/year)				
	Closure Proposed Start Date: To be determined (month/year) Proposed Completion Date: To be determined (month/year)				
	Proposed Start Date: Proposed Completion Date:				
	(month/year) (month/year)				
	For each applicable phase of development indicate which season(s) activities occur.				
	Construction ☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season				
	Operation ☐ Winter ☐ Spring ☐ Summer ☐ Fall ✓ All season				
:	<u>Closure</u> ☐ Winter ☐ Spring ☐ Summer ☐ Fall ✓ All season				
	Post - Closure Winter Spring Summer Fall All season				

25.	PROPOSED TERM OF	LICENCE		
	Number of years (maxir	mum of 25 years):	2 years	
	Requested Date of Issu	ance: March/2016 (month/year)	•	ry Date: March/2018 (month/year)
licence water licensing licence respond	and <u>at least</u> one (1) year fi cence application. These g land use planning or dev application in accordance w	rom the date of appl timeframes are appi elopment impact req vith any project speci	cation for a type A water lice oximate and do not account uirements, time for the applic fic guidelines issued by the N	of application for a type B water nce, to allow for processing of the for the time to complete any preant to prepare and submit a water WB, or the time for the applicant to ng Water Licence Applications for
26.	ANNUAL REPORTING – If not using the NWB's <u>Standardized Form for Annual Reporting</u> , provide details regarding the content of annual reports and a proposed outline or template of the annual report.			
	North Arrow will use the NWB's standardized form for annual reporting			
27.	7. CHECKLIST – The following must be included with the application for the water licensing probegin. Written confirmation from the NPC confirming that NPC's requirements regarding land use placenformity have been addressed.			or the water licensing process to
				nts regarding land use plan
	☐ Yes ✓ No If no, date expected: PENDING			
	Written confirmation from the NIRB confirming that NIRB's requirements regarding developme impact assessment have been addressed.			ents regarding development
	☐Yes	√ No	If no, date expected: PEN	IDING
	Completed General Wa	ater Licence Applic	ation form.	
	√ Yes	☐ No	If no, date expected	
	Information addressing	Supplemental Info	rmation Guideline (SIG) , v	where applicable (see Block 11)
	✓ Yes	□No	If no, date expected	
	English Summary of Ap	oplication.		
	√ Yes	∏No	If no, date expected	

28.	SIGNATURE			
	✓ Yes	☐ No	If no, date expected	
	Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual wat use fee will be calculated by the NWB based upon the amount of water authorized for use accordance with the Regulations at the time of issuance of the licence.			
	√ Yes	□No	If no, date expected	
	Application Fee of	\$30.00 CDN (Paye	ee Receiver General for Canada).	
	✓ Yes	☐ No	If no, date expected	
	Inuktitut Summary	of Application.		
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