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WATER LICENCE APPLICATION FORM

Application for: (check	one)			
New X Amen	dmentRene	newalAssignment		
LICENCE NO: (for NWB use only)				
1. NAME AND MAII APPLICANT/LIC	LING ADDRESS OF CENSEE	2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)		
Wolfden Resources In 309 Court Street South Thunder Bay, Ontario P7B 2Y1 Phone: (807) 346-1668 Fax: (807) 345-0284 e-mail: dave.stevenson@w		Phone: Fax: e-mail:		
3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)				
The Ulu gold deposit is located in the Nunavut Territory of Canada at longitude 110° 58' W and latitude 66° 54' N on NTS map sheet 76L14 and 76L 15. It is situated 155 km north of Lupin, 220 km southeast of Kugluktuk, 365 km southwest of Cambridge Bay and 530 km north of Yellowknife.				
The exploration site is located in treeless tundra where rock and glacial features dominate the landscape, accessible year-round only by aircraft. Bulk items were brought to site via winter road and during exploration activity, day to day supplies are flown to camp. The area is characterized by severe climate with typical temperatures ranging throughout the year between -50°C in winter to $+30$ °C in summer. Permafrost in this area generally extends to several hundred meters.				
The facilities at the Ulu project consist of a "Weatherhaven" camp with sleeping, dining and recreation quarters (50 person capacity), a vehicle repair shop, power house, warehouse, cold storage, office and change rooms. Also at site are a fuel storage tank farm, fresh water and sewage systems, garbage incinerator, waste rock and ore storage areas. The camp is expected to accommodate $40-50$ staff during the 8 month exploration season (March – October).				
Latitude: 66° 54' 27.8"	Longitude: 110° 58' 2	'24.1" NTS Map No. <u>76L 14/15</u> Scale: <u>None</u>		
4. DESCRIPTION O	F UNDERTAKING (attach	h plans and drawings)		
Water Licence #NWB1UL	.U0008 was issued for the p	purposes of authorizing the use of water and disposal of waste		

into water in conjunction with exploration activities at the site. This licence amendment application is only for the deferment of the requirement for all mine water and run-off to be directed to the retention pond as outlined in Part

water and runoff from the Waste Rock and Ore S previously submitted. An overview of the explora	Storage Pads. Plans and drawings of the undertaking were ation camp layout is included (Figure 1 and 2) for the convenience equirement, not changes to the undertaking are proposed.
5. TYPE OF PRIMARY UNDERTAKING (for undertakings listed in "bold")	(A supplementary questionnaire <u>must</u> be submitted with the application
Industrial	Agricultural
Mining and Milling	Conservation
Municipal (includes camps/lodges)	Recreational
Power	X Miscellaneous (includes exploration/drilling)
See Schedule II of Northwest Territories Waters Reg	(describe): gulations for Description of Undertakings
6. WATER USE	
X To obtain water	To divert a watercourse
To modify the bed or bank of a watercourse	Flood control
To alter the flow of , or store, water	Other (describe):
To cross a watercourse	
returned to source)	,
and to East Lake, respectively. Our water license	rging on average 5 cubic meters of water per day from West Lake e allows us to consume up to 100 cubic meters per day.
and to East Lake, respectively. Our water license	
and to East Lake, respectively. Our water license 8. WASTE (for each type of waste describe: co	e allows us to consume up to 100 cubic meters per day.
8. WASTE (for each type of waste describe: codisposal, etc.) Sewage Waste oil Solid Waste Greywater	e allows us to consume up to 100 cubic meters per day. composition, quantity (cubic metres per day), methods of treatment and
8. WASTE (for each type of waste describe: codisposal, etc.) Sewage Waste oil Solid Waste Greywater Hazardous Sludges	e allows us to consume up to 100 cubic meters per day. composition, quantity (cubic metres per day), methods of treatment and * see page 6
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8. WASTE (for each type of waste describe: codisposal, etc.) Sewage Waste oil Greywater Hazardous Sludges Bulky Items/Scrap Metal Other (describe: codisposal, etc.) PERSONS OR PROPERTIES AFFECTE location; attach if necessary) Land Use Permit KTL304C007	e allows us to consume up to 100 cubic meters per day. composition, quantity (cubic metres per day), methods of treatment and * see page 6
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8. WASTE (for each type of waste describe: codisposal, etc.) Sewage Waste oil Solid Waste Greywater Hazardous Sludges Bulky Items/Scrap Metal Other (describe: codisposal, etc.) PERSONS OR PROPERTIES AFFECTE location; attach if necessary) Land Use Permit KTL304C007 DIAND Yes No Kitikmeot Inuit Association, P.O. Box 360, Kuglus	e allows us to consume up to 100 cubic meters per day. composition, quantity (cubic metres per day), methods of treatment and * see page 6 ribe): ED BY THIS UNDERTAKING (give name, mailing address and No If no, date expected If no, date expected

10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)
NIRB Screening Yes No If no, date expected
The rationale for the licence amendment is outlined in the attached letter dated March 14, 2006 addressed to Mr. Phillipe di Pizzo and the appended Interim Water Management Plan (March 2006).
Overall there will be minimal environmental impact as a result of this amendment application. The intent of the Interim Water Management Plan is to outline the steps that will be taken to ensure that there will not be an uncontrolled discharge of water from the pads at concentrations over the licenced discharge limits. As part of the plan, if necessary mitigation plans would be developed (including berming, ditching, and collection of the runoff water at the toe of the pads or whatever other means are possible) to ensure that water is not discharged at levels above the allowable limits.
11. INUIT WATER RIGHTS
Will the project or activity substantially affect the quality, quantity, or flow of water flowing through Inuit Owned Lands and the rights of Inuit under Article 20 of the Nunavut Land Claims Agreement?
No
11. (Continued)
If yes, has the applicant entered into an agreement with the Designated Inuit organization to pay compensation for any loss or damage that may be caused by the alteration. If no compensation agreement has been made, how will compensation be determined?
12. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)
Gartner Lee Ltd., c/o Ms Glenda Fratton, 840 7 th Avenue SW, Suite 1605, Calgary, Alberta, T2P 3G2 Gartner Lee was hired by Wolfden Resources Inc. to perform environmental services related to the Ulu and High Lake projects.
13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)
 Key documents supporting this licence amendment application are listed below: August 5, 2005 letter from Mr. David Stevenson, Wolfden Resources Inc. to Mr. Philippe di Pizzo, Nunavut Water Board; Ulu Interim Water Management Plan (March 2006) prepared by Gartner Lee Limited for Wolfden Resources Inc. (attached); and March 14 letter from Mr. David Stevenson, Wolfden Resources Inc. to Mr. Phillipe di Pizzo, Nunavut Water Board (attached).
14. THE FOLLOWING DOCUMENTS <u>MUST</u> BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN
Supplementary Questionnaire (where applicable: see section 5) Yes X No If no, date expected This minor licence amendment applications is only for the purposes of deferring the requirement for all mine water and run-off to be directed to the retention pond as outlined in Part D, Item 1. In lieu of this, WRI is proposing an

Storage Pads. Because there no changes to the undertaking proposed, a supplementary questionnaire is not included.

Effective January 1, 2004

Inuktitut/English Summary	of Project X	Yes No If no, d	late expected	
Application fee \$30.00 (Pa	ayee Receiver General for Cana-	ıda) X Yes No	If no, date expected _	
	on 9 of the NWT Waters Regulati July 1, 2004 to June 30, 2005			
15. PROPOSED TIM	AE SCHEDULE			
Annual (or)	Multi Year			
Start Date:		Completion Date:		
David B. Stevenson Name (Print)	Exploration Manager, Ulu Title (Print)	ıSignature		Date
or Nunavut Water Board use	only Amount: \$	Pay ID No.:		
WATER USE DEPOSIT	Amount: \$	Pay ID No.:		

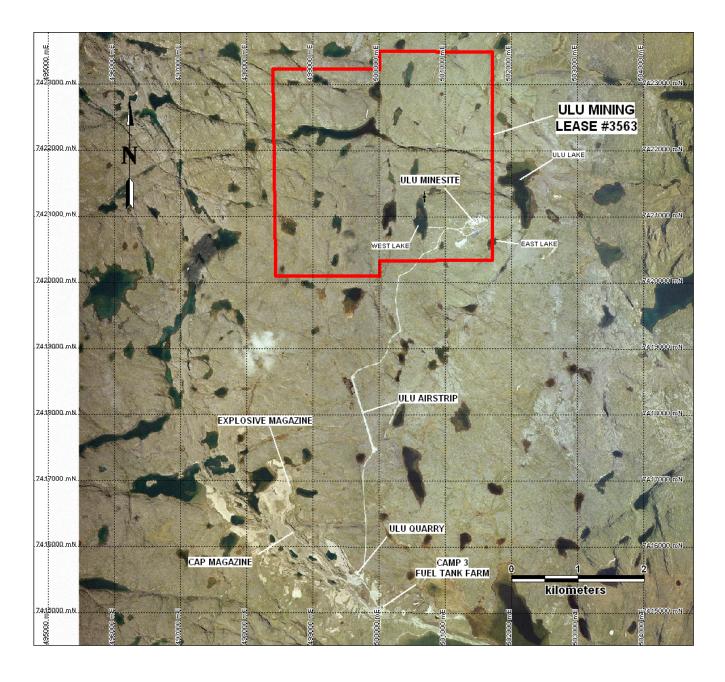


Figure 1. Ulu Mine Site Facilities



Figure 2. Ulu Site Facilities

8. WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)

Sewage and domestic greywater from the camp facilities is treated on-site using a Rotating Biological Contactor (RBC) process. Treated sewage effluent is discharged to East Lake via a 550 meter, insulated two-inch pipeline. The treatment system is an aerobic, fixed-film biological treatment process designed to remove both biochemical oxygen demand (BOD) and total suspended solids (TSS) from the wastewater. Sludge removed from Ulu's RBC and sewer lift station are deposited on the up-hill side of the ore pad and covered with waste rock, a distance of 420 meters from East Lake. Runoff from the ore pad flows to East Lake. Less than 2 cubic meters of sludge was deposited on the ore pad in 2004.

Runoff from the toe of the Ore Storage and Waste Rock Pads drains towards East Lake. Flow has been present at the toe of the Ore Storage Pad only during spring freshet and periods of high rainfall. The water quality at this location is summarized below. The quantity of flow is too small to measure and only occurs intermittently.

Table 1 Summary of Ore Storage Pad Run-off Water Quality (2005)

	Maximum Grab Licence	Parameter	Parameter
	Discharge Limits (mg/L)	Concentration	Concentration
		(mg/L)	(mg/L)
		June 18, 2005	Aug. 4, 2005
Routine Parameters			
pH	6.0 - 9.5	7.36	7.68
Nitrate + Nitrate (as N)		0.193	2.42
Ammonia (as N)		0.046	
Total Suspended Solids	50	12	134
Sulphate		416	436
Metals (Total)			
Total Aluminum		0.035	0.041
Total Arsenic	1.00	0.00145	0.00177
Total Cadmium		0.000065	0.00018
Total Chromium		< 0.0005	< 0.001
Total Copper	0.60	0.00159	0.00214
Total Iron		0.532	1.01
Total Lead	0.40	0.00021	0.00012
Total Nickel	1.00	0.00282	0.0046
Total Zinc	1.00	0.0077	0.0165

Solid waste from the accommodation camp, kitchen and repair shops is burned in a packaged waste incinerator. The incinerator is diesel fired and located on the down wind side of the facilities. Burning is carried out on a regular basis to prevent the buildup of burnable wastes around the site, especially food wastes which may attract bears and other scavengers. Waste oil burners are used for the disposal of used oils and solvent while waste greases and other lubes are incinerated with the burnable solid wastes. Other wastes, such as waste metals, used tires and batteries, will be transported to an approved landfill site on an annual basis.

14. THE FOLLOWING DOCUMENTS <u>MUST</u> BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN

Inuktitut/English Summary of Project	X	Yes	No	If no, date expected
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Matyi 14, 2006

Mista Phillipe di Pizzo Ataniuyuq Hivuliqti Nunavut Imaligiyit Katimayit Titigaqaqvia 119 Uqhuqtuuq, NU X0B 1J0

Mista di Pizzo-mun:

Pityutaa: Tukhiqtugut Ihuaqhigiaqnianut tamna Laisauyuq nappaa NWB1ULU0008 – WOLFDEN RISUASIS NANMINILGIT – ULU HIVUNMUKHIMAYUQ HAVIKHAQHIUQTUT HAVANGA

Wolfden Risuasis Naminilgit (Wolfden-kut) titigaqtut tukhigaqhutik tamna ihuaqhigiaqnianut tamna laisauyuq NWB1ULU0008, piplugu tamna Ulu Uyagakhiuqniqmun Havikhaqhiuqniq tamnalu Pivaliatitnia havanga. Piluaqtumik, Wolfden-kut tukhigaqtut tamna utaqitquplugu tamna piyagiaqaqnia tapkuat tamaita uyagakhiuqvikmi imaqtai tapkuatlu kuuktaqnii tugaqtitaunii talvunga Hiamaktailivikmun tamnalu Kivittiqhiivik/Halumaqhaivik Tahigaq titigaqhimaniagut talvani Ilanga D, Titigaq 1 tamnalu Titigaq 7 taphumani Imaqmun Laisauyumi. Pipolugu una, uuktugutiqaqtugut tamna Atulaktukhaq Imaqmun Aulattiniqmun Upalungaiyaut taphumunga Nunavut Imaligiyit Katimayit ihumagiyakhai. Tapkuat pityutai ukuat titigaqhimayut ataani.

Malikhugu Imaqmun Laisanga NWB1ULU0008, Wolfden-kut piyungnautilgit atuqnianik immaq tamnalu iqaqnii iqakut tapkuat pityutainut hivunmukhimayut havikhaqhiuqniq, piplugit tapkuat pittailitai tapkuatlu atugiaqaqnii tapkuaniittut Laisuayumi. Malikhugu Ilanga D (Atugiaqaqtut Tugangayut tapkununga Iqakut Iqaqnii), Titigaq 1 uqaqhimayuq:

Tamaita uyagakhiuqviup immaqtai, nalautauhimakpata, piyalgit tugaqtitaulutik talvunga Hiamaktailivik Tahigag tamnaluniit angigtauhimaniagut tapkuat Katimayit.

Malikhugu Ilanga D, Titigaq 7 uqaqhimayuq:

Tamna Laisataqhimayuq piyalik tunihiluni tapkununga Katimayinut angiqtauyukhanik... taphuminga uuktugutmik iqaqniinik tapkuat uyagakhiuqviup immaqtai tapkuatlu amiakut kuuktaqnii immait talvangat Hiamaktailivikmun tamnalu Kivittiqhiivik/Halumaqhaivik Tahiqat. Tapkuat uuktugutit piyalgit ilaqaqlutik, kihimiungitkaluaqtitlugit, tahapkuat:

- a) Atugaulat kuvipkagauniinut Uyagakhiuqviup Immaqtai/Kuuktaqnii Immait (ilautitlugu Kivataani Tahiq, atugiaqaqat);
- b) Uniqtutiaqhimanii aktilangi qanugittuniilu Uyagakhiuqviup Immaqtai/Kuuktaqnii Immait; tamnalu
- c) Atugaulat halumaghagniinut igagniinutlu.

Titigaqhimaniitigut hivuani (Aagasi 5, 2005), tamna Hiamaktailivik Tahigaq tamnalu Kivittiqhiivik Tahiqat hanayauhimayut, kihimik tamna imaqmun laisauyuq pinahugiinaqtai ilihimatagahugiplugit. Talvani Aagasi 5, 2005 titiqami tapkununga Nunavut Imaligiyit Katimayit, Wolfden-kut uuktugutilgit tamna atulaktukhaq immap aulatauniinut upalungaiyaut ilihimalaq malikhugu atuqtakhat tamna nunap iluanuktaqvik matuyaunianut, pigaluaqtitlugu tapkuat atugiaqaqnii titigaqhimayut talvani Ilanga D, Titigaq 1 tamnalu 7 taphumani Imaqmun Laisauyumi. Wolfden-kut pihimayut, pigiaqhugu, ihumagitqikhaqnii havikhaqhiuqniqmun atugakhaliat tapkuatlu ihumaliuqtut atulitqikniinik nunap iluani havakniq talvani Ulu-mi tapkuatlu upalungaiqhimayut angmatqiknianik tamna nunap iluanuktaqvik upingangani 2006. Ilagiplugu una havagut, Wolfden-kut upalungaiyaqhimayut

agyaqtuqniinik mikhaani 11,300 tansinik iqakunik uyaqanik 6,400 tansinik iqakunik uyaqanik tahamunga nunap qanganut. Tapkuat havikhait tapkuatlu iqakut uyaqat iliuqagauniat atuni tutquqhimavikni tungavikni. Tapkuat aktilangi tapkuat hunat ahivaqtauyukhat ukiuq mikitqiyautluaqtut tahapkunangat uuktugutauyunit talvani 2005-mi ilagiplugit tapkuat Iqakut Uyaqat tapkuatlu Havikhait Tutquqhimaniinut Upalungaiyautit (WROSP) tuniyauhimayut tapkununga Nunavut Imaligiyit Katimayit talvani Matyi 2005: 105,000 tansit tapkuat havikhat tapkuatlu 126,900 tansit iqakut uyaqat. Tapkuat havagutit ilaqaqniaqmiyut amuqaqtauniinik kitutliqak hikut tapkuat kihingukuuyut talvani nunamut itiqtaqviani, tamnalu aulatauni tapkuat ilagiyai auktuqtut immat.

Wolfden-kut ukpiguhuktut tapkuat aktilangi tapkuat kuukniit imaqtangugutauyut tahapkunangat huliyauniinit huli naamaktumik piyaulat malikhugit tapkuat atulaktukhat immap aulatauniinut upalungaiyautit. Taimaittumik upalungaiyautit pilat qanugiliuqniinut tapkuat pityutauyut tapkuninga pilaqniinik kuuktaqniit tapkunangat hikunguqtaqniinit amuqhaktauniinit atuqtitlugu tamna nunap iluanuktaqvik angmatqikhaqtaunia. Attataqhimayuq tamna uuktugut Atulaktukhaq Immap Aulataunianut Upalungaiyaut pivaliatitauhimayuq tapkunangat Gartner Lee Nanminilgit (2006) tapkununga Nunavut Imaligiyit Katimayit ihmagiyauyukhaq ukunani ihuaqhigiagutini tukhiqtugauyuq.

Ukpiguhuktunga tapkuat qulaani piqaqtitnii naamagiakhainik tuhaqtakhat ihumagiyakhaphiknut ukuninga tukhigautinik tapkuat ihuaqhigiaqniinut tamna imaqmun laisauyuq NWB1ULU0008. Piyaqaguvit kitunikliqak ilagiagutinik tuhaqtakhanut tungahuklutit tugaqvigiinagialiuyunga.

Uvamningaqtuq,

Wolfden Risuasis Naminilgit

David B. Stevenson, M.Sc., P.Geo. Havikhaqhiuqniqmun Maaniyauyuq, Ulu