

P.O. Box 119 GJOA HAVEN, NU X0B 1J0 TEL: (867) 360-6338 Fax: (867) 360-6369

kNK5 wmoEp5 vtmpq NUNAVUT IMALIRIYIN KATIMAYINGI NUNAVUT WATER BOARD OFFICE DES EAUX DU NUNAVUT

WATER LICENCE

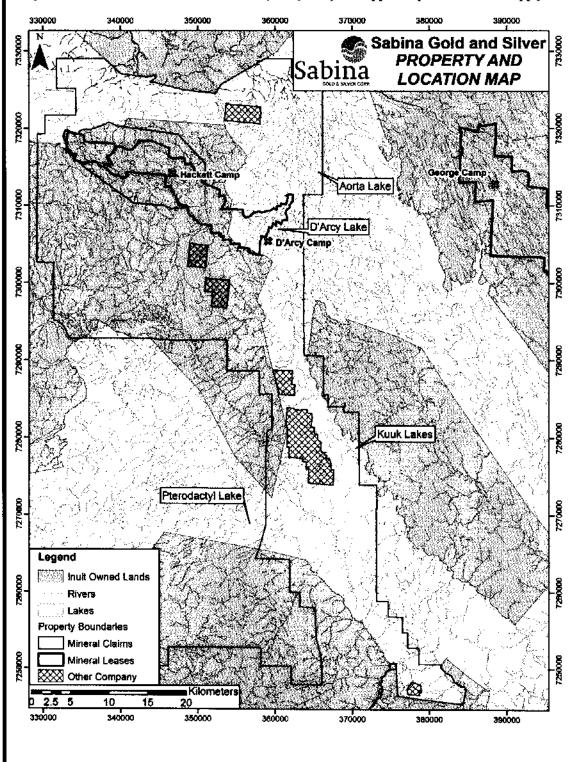
WATER LICENCE APPLICATION FORM				mar 25 PA				
	for: (check one)				Plan - Section V			
☐ New	☐ Renewal	⊠ Amend	lment	Assignment	Cancellation			
LICENCE NO (for NWB use o								
	AND MAILING ADDRI CANT/LICENSEE	ESS OF	2.	ADDRESS OF CO CANADA (if applic	RPORATE OFFICE IN cable)			
SABINA GOLD & SILVER CORP. 601 Squier St. Thunder Bay, Ontario P7B 4A7 Tel: (807) 345-8278 Fax: (807) 343-0232			SABINA GOLD & SILVER CORP. 930 West 1st Street, Suite 202 North Vancouver, BC V7P 3N4					
			Phone: (604) 998-4175 Fax: 604) 998-1051 e-mail: pmanojlovic@sabinagoldsilver.com					
Phone: (604) 998 Fax: (604) 998 e-mail: <u>sburgess</u>								
	TION OF UNDERTAKING (Independently of the Undertaking)	NG (describe and	l attach a	topographical map, ind	icating the main			
The Hackett River and Back River Projects are located approximately 110km S of the community of Bathurst Inlet, Kitikmcot Region, Nunavut. Sabina holds water license 2BE-HAK0915 for the Hackett River/Wishbone Projects that includes water use and waste diposal associated with exploration activities such as drilling, geophysical surveys and field programs and operation of camp. The purpose of this amendment is to permit water use and waste disposal in temporary camps to support exploration and resupply activities located at distance from the main Hackett River camp. Possible locations for these temporary camps are in, but not limited to, the D'Arcy Lake, Kuuk Lake, Pterydactyl Lake, and Aorta Lake area. The general area of exploration lies within the following map coordinates:								
MAX Lat 66 Deg 10' MIN Lat 65 Deg 10' MAX Long 108 Deg 45' MIN Long 106 Deg 45' NTS map sheet #76G/03, 04, 05, 06, 07, 08, 12, 13, #76F/08, 09, 15, 16,								
Latitude: (65 °55	ckett camp is located on 5' "N) Longitut No. 76F/16 Scale: 1:500	ide: (108°22'	ap and h "W)	as the coordinates;				
except for D'A	rcy Lake. The general U coordinates in NAS83UTI 360890	TM coordinates	Sabina's s of the la	exploration and resup ake are:	ply activities is unknown			

 Pterodactyl Lake
 356820 7269190

 Kuuk Lake
 372145 7273675

Sabina will advise the NWB of exact locations for the temporary camps 45 days prior to their establishment.

Map: Area Location of Sabina's Possible Temporary camps to support exploration and resupply activities



4. **DESCRIPTION OF UNDERTAKING** (attach plans and drawings)

Sabina sees an opportunity to continue exploration activities in the Hackett River and Back River areas and currently holds water and land tenure for three camps in the Kitikmeot Region – Hackett River, Goose Lake and George Lake. The water licenses include the exploration activities such as drilling, geophysical surveys and field programs and the operation of camps to support these activities. The purpose of this application is to amend the existing water license to allow water use and waste disposal in small, temporary camps for up to 15 people. These camps would be needed for target areas located 20km or more from the main Hackett River campsite and would be established for safety, environmental and economic reasons. The intent is not to establish a network of camps across the exploration area, but to have the opportunity and flexibility to establish these temporary camps as needed.

Sabina is requesting an amendment to:

- allow domestic water use from local lakes to supply temporary camps. Assuming 2-3 temporary camps may be operating at the same time this would be approximately 10m3/day; and
- As needed when environmental conditions do not result in safe operating ice conditions, use water to maintain ice airstrip on local lakes. Sabina has assumed that this is up to 65 m3/day.

This request does not include an amendment to the current daily maximum of up to 250m3/day; the above amounts would be included in the currently licensed daily volume.

Water would be provided by local sources to supply water to the camp facilities (showers, kitchen, laundry) and ice airstrip construction and maintenance as needed.

The exploration work over the next five years may include:

- 1. Seasonal operation of the Hackett and Goose existing camps located at 65° 55'N, 108° 22'W and 65° 32'N, 106° 25'W. In general, camps would open in March of each year and close by end of October.
- 2. Seasonal operation of temporary camps as needed to support exploration work located at a distance of approximately 20km or more away from the main camps.
- 3. Transport of fuel and drilling supplies to and from the temporary eamps, and associated storage and handling.
- 4. Transport of personnel to and from the exiting camp and drill sites with a helicopter.
- 5. Fixed wing planes will provide transport to and from the camp. This is typically using Twin Otter, however, on an as-needed basis larger planes such as DHC-5 Buffalo and CC-130 Hercules may be used.
- 6. Inspection and reclamation of drill sites upon drill hole completion.
- 7. Camp clean-up and progressive reclamation.

Activities planned for the temporary camps over the next five years would include:

- 1. Construction of kitchen, camp dry, sleepers and office tents/weatherhavens to accommodate approximately 10-12 on average and a maximum of 15 people.
- 2. Construction of fuel, material and supplies storage as needed to support nearby exploration activities

5.	TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in "bold")							
	☐ Industrial ☐ Agricultural ☑ Mining and Milling(includes exploration/drilling) ☐ Conservation ☑ Municipal (includes camps/lodges) ☐ Recreational ☐ Power ☐ Miscellaneous (describe below):							
	rrent license 2BEHAK0915 includes exploration/drilling activities and this amendment requested includes the apporary eamps							
	See Schedule II of Northwest Territories Waters Regulations for Description of Undertakings							
6.	WATER USE							
· :	 ☑ To obtain water ☐ To cross a watercourse ☐ To modify the bed or bank of a watercourse ☐ Other (describe): ☐ Flood control ☐ To divert a watercourse ☑ To alter the flow of , or store, water 							
7.	QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quality to be returned to source)							
	Water use ☐ 100m³/day or less ☐ Greater than 100m³/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.) The current license is for a daily maximum of up 250m3/day with approximately 20m3/day for domestic use							
	and the remaining 230m3/day for drilling. Sabina is not intending to change the drilling/exploration program, personnel needs or equipment to support exploration and resupply activities. For this reason, we are assuming that the same volume of water would be used and only the source and use be amended to include local sources for temporary camp operations.							
	Water returned to source m³/day							
8.	WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)							
	Scwage Waste oil Solid Waste Greywater Hazardous Sludges Bulky Items/Scrap Metal Other describe):							
	No sewage system will be installed in the camp as no water is needed for the Pacto toilets. All solid waste will be carried to the existing camps (Hackett and/or Goose) and disposed as outlined in the approved waste management plan.							
	Grey-water generated from the kitchen, showers and laundry facilities is collected in a 500 litre, plastic holding tank. All cleaning agents would be biodegradable and phosphate free. On an as-needed basis the grey-water would be pumped to a suitable disposal sump location well back from the local waterways and would be allowed to percolate though the moss and soil to rejoin groundwater.							

9.	OTHER PERSONS OR address and location; attac		FFECTE) BY THIS UNDERTAKING (give	e name, mailing			
See at	tached list of current perm	its and licenses						
	Land Use Permit DIAND	⊠ Ycs	□ No	If no, date expected				
	Regional Inuit Association	n 🔀 Yes	☐ No	If no, date expected				
	Commissioner	☐ Yes	☐ No	If no, date expected				
10.	PREDICTED ENVIRON MITIGATION MEASUR			UNDERTAKING AND PROPOSI tive impacts, etc.)	ED			
	roposed temporary suppor land, water flora and faui			ration program are expected to ha s.	ve minimal impact			
	otal area estimated to be af ressed vegetation where ter			sed camp sites is 1-2 hectares. It were on the ground.	vill result in some			
intake ncar l signifi	es screened to prevent juve akcs that are large enough icant drawdown of free wa tion 30m above high water	nile fish from ent to accommodate ter. Grey water f	ering the a winter if from the c	he water will be sourced from a loopump. The location of these tempo ce airstrip and that water withdra amp is expected to be pumped awa ough the moss and soil before rejoin	orary camps will be wal will not result in ay from the camp to			
Possibly the largest impact on fauna will be due to noise caused by the use of a diesel generator at the camp as well as the periodic use of aircraft. The noise may cause large mammals to avoid the camp area; however, experience to date in camp operations indicates that the steady noise of the generator seemed to have no impact on large mammal behavior. Arctic ground squirrels most likely will be attracted to the camp area due to the presence of sheltered hiding places. All garbage will be flown out of camp to the existing exploration camps at Hackett or Goose for inclusion in their waste management streams. Hunting is prohibited. Firearms and domestic animals are not permitted, unless special permission has been granted by the project manager.								
At the close of the field season, the tents and equipment would be removed and taken to either Hackett or Goose for inclusion in their seasonal closure for use the following year.								
Socio-economic impacts of Sabina's proposed exploration program are expected to be similar to that as previous programs with seasonal employment earnings of \$70,000 to \$150,000 and up to 450 days of employment. Every effort is in place to maximize Inuit employment particularly residents from the closest communities of Bathurst Inlet, Umingmaktok, Kugluktuk and Cambridge Bay. These individuals are hired to help with exploration activities which may include core splitting, sample shipping, maintenance, equipment operation, environmental monitoring and reclamation).								
NIRB and 0	has screened exploration : 8EA84	activities for the l	Hackett R	iver and Wishbone Projects; NIRE	reference 04EN012			
	NIRB Screening	Yes 🗌 No	If no, da	te expected				

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, except for the unlikely event of a major fuel spill. Major fuel spills are unlikely as all fuel at Hackett is in 45 gallon drums which are stored within secondary containment berms and the Spill Contigency Plan is updated on a regular basis.

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? In the unlikely event of a major fuel spill any compensation would be determined by mutual negotiations

12. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)

Major Drilling Group International Inc.

(provides diamond drilling services)

P.O. Box 1377

337 Old Airport Road Yellowknife, NT

X1A 2P1

Phone: (867) 873 3358 Fax: (867) 873 - 6803

Northern Air Support Ltd.

(provides helicopter support services)

6285 Airport Way Kelowna, BC V1V 1S1

Phone: (250) 765 - 0100 Fax: (250) 765 - 0077

1984 Enterprises Inc.

(provides first aid, camp staffing and WCB compliance support)

1000 – 355 Burrard Street Vancouver, B.C.

V6C 2G8

Phone: (604) 736 – 8142 Fax: (604) 736 – 8119

Nunavut Expediting Services Ltd.

(provides expediting services and logistical support)

Discovery Mining Services

P.O. Box 97

Cambridge Bay, NU

X0E 0C0

Phone: (867) 983 – 2544 Fax: (867) 983 - 2203

13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)

The following baseline studies have been collected for the Hackett River Project:

Department of Indian and Northern Affairs, Water Management Section, Bathurst Norsemines (Hackett River),
Potential Mine Water Quality Survey Network, Report Series, 1974 By: D. Sutherland, J. McLaren

Northwest Territories Water Board, Department of Indian and Northern Development, Bathurst Norsemines Hackett River, Potential Mine Water Quality Survey Network, Report Series, 1975 By D.J. Sutherland

Geochemical Dispersion over Massive Sulphides within the Zone of Continuous Permafrost, Bathurst Norsemines, District of Mackenzie, N.W.T. by J. K. Millar, The University of British Columbia, December, 1978.

Prepared by Gartner Lee:

0		Monitoring Program at Hacl					
0	2005 Baseline Water Quality Monitoring Program – Hackett River Project, October, 2005 2006 Baseline Preliminary Options of the Road Route Options from Hackett River Camp to the BIPAR						
u Road, N	- 2006 Basenne Prenmina November, 2006.	iry Options of the Road Rout	e Options t	rom Hackett Kive	er Camp to the BIPAK		
0		uality Monitoring Program at	Hackett R	iver Project, Nove	mber, 2006.		
		ck River Project: Back River					
	Precious Metals Inc. To						
		k River Project: Wildlife and	Wildlife E	Iabitat 2007. Prep:	ared for Dundee		
Preciou	s Metals Inc. Toronto. 5	2p.					
Prepare	ed by Rescan Environme	ntal Services Inc.:					
0		e Report, Hackett River Proj	ect, Januai	гу 2008			
0		Report, Hackett River Project					
0		Fish Community Baseline Rep			une 2008		
0		Report, Hackett River Project			. 1000		
0		Permafrost Baseline Report, I Predicted Minesite-Drainage					
O	March 2008	1 reducted Willesite-Diamage	, Chemisu	y and Acid Rock L	n amage - Fnase 1,		
0		line Report, Hackett River Pr	oject, Apri	1 2008			
0		rt, Hackett River Project, Ju					
0		ng and Vegetation Baseline R			September 2008		
0	2008 Hydrology Baseline Report, Hackett River Project, October 2008						
0	2008 Freshwater Water Quality Baseline Report, Hackett River Project, January 2009						
0	2008 Wildlife Baseline Report, Hackett River Project, November 2008						
0	2008 Meteorology and Permafrost Baseline Report, Hackett River Project, December 2008 Preliminary Wind Resource Analysis for the Hackett River Project, August 2008						
0	·	nal Knowledge in the Hackett		• , 0	2009		
		-		-,y y y -			
Prepare	ed by Golder Associates l	Ltd.:					
		ct: Environmental Baseline S	tudies Sept	tember 2006. Prep	ared for Dundee		
Precious Metals Inc. Toronto. Report 06-1373-45. 84p.							
2006. Environmental Baseline Studies for the Back River Project 2005. Prepared for Dundee Precious Metals Inc. Toronto. Report 05-1373-010. 68p.							
Mictais	me. Toronto. Report 03-	1373-011. tap.					
14.	THE FOLLOWING DO	OCUMENTS MUST BE INC	LUDED W	ITH THE APPLI	CATION FOR THE		
	REGULATORY PROC						
			571 ***				
Supplen	nentary Questionnaire (wh	nere applicable: see section 5)	X Yes	☐ No If no, date	expected		
Inuktitu	t and/or Inuinnaqtun/Engl	ish Summary of Project	X Yes	☐ No If no, date	evnected		
711-2010	· · · · · · · · · · · · · · · · · · ·	isit definition y of a roject	Z 103		сирсски		
Applica	tion fee of \$30.00 (Payee	Receiver General for Canada)	✓ Yes	☐ No If no, date	expected		
337.4I	I. C C 620 00 (1	dentities to the control of the control	C 1 1777				
Coneral	for Canada)	therwise indicated in Section 9	of the NWI	l' Waters Regulation	is; Payce Receiver		
General	Tor Canada)		⊠ ves	☐ No If no, date	Avnocted		
			Z 10s	☐ NO ICHO, uate	expected		
15.	PROPOSED TIME SC	HEDULE (unless otherwise in	dicated, the	NWB will conside	r the application for		
	a five (5) year term)		.,		wp provident act		
		one year or less (or)	Multi	Year			
		0					
		Start Date: April 1, 2010Con	npletion Dat	te December 3/1, 20	<u>) 15</u>		
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Pete	r Manojlovic	Chief Geologist	- 1/9X	1740 (-	March 25, 2010		
	ame (Print)	Title (Print)	Si	gnature	Date		
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APPLICATION FEE Amount: \$ Pay ID No.: WATER USE DEPOSIT Amount: \$ Pay ID No.:	For Nunavut Water Board of	ffice use only				Heystetidell , i
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