

May 29, 2019

Richard Dwyer Manager of Licencing Nunavut Water Board PO Box 119 Gjoa Haven, NU XOB 1J0

Re: April 2019 Monthly Monitoring Report for Water Licence 2AM-BRP1831

Dear Richard,

This report is provided by Sabina Gold and Silver Corp. (Sabina) to address the requirements of Part I, Item 18 of the Back River Project (the Project) Type A water licence 2AM-BRP1831 (the Licence).

These requirements include:

- All data and information required by Part I and Tables of Schedule I;
- An assessment of data to identify areas of non-compliance with regulated discharge parameters referred to in this Licence; and
- Documentation of conditions during spring freshet, major rain events, and periods of sustained precipitation including flow measurements, photographs, and notes.

Clauses under Part I of the Licence specifically applicable to monthly monitoring include Items 4, 8, 9, 12, and 20. These items are addressed individually below as are the tables of Schedule I. It is noted that, at this time, activities have not yet commenced under this Licence with the exception of winter ice road construction which was initiated in January of 2019.

Part I, Item 4 Monitoring Program as outlined in Schedule I Tables 1 and 2

An overview of monitoring activity by station is provided in Table 1 located at the end of this report. The majority of the sampling required under Schedule I Table 2 of the Licence was not applicable this month due to frozen winter conditions combined with the fact that activities under this licence have not yet been initiated, with the exception of winter ice road construction.

Part I, Item 8 Monthly Volumes of Water Used and Discharge of Greywater, Sewage Sludge, Effluent and Contact Water

In April of 2019, 18,862 m³ of water was withdrawn for winter road construction from lakes proximal to the road. Water withdrawal was monitored daily and monthly usage by lake is provided in Table 2. No exceedance of lake-specific withdrawal limits or total ice road water usage allowance occurred. No other water use or waste discharge occurred under this Licence this month.



Marine Laydown Area (MLA) camp water use and greywater and sewage sludge disposal occurred under, and in accordance with, water licence 2BE-GEO1520.

Part I, Item 9 Monthly Quantity of Landfill, Landfarm, Waste Rock, Tailings Deposited and Ore Stockpiled and Processed

No waste was deposited in the Landfarm this month. The landfill, waste rock piles, and tailings storage area have not been constructed at this time, and no ore has been mined under this Licence.

Part I, Item 12 Monitoring During Discharge at BRP-15, 16, 43-45, 49, or 51

Due to frozen winter conditions and the fact that many of these facilities have not yet been constructed, no water was discharged from these stations this month. See details for each station in Table 1 of this report.

Part I, Item 18 Assessment of Discharge Compliance and Documentation During Freshet and Major/Sustained Rain Events

No water was discharged under this Licence this month. Freshet and rainfall-related monitoring conditions were not applicable this month due to frozen winter conditions. Other aspects of Part I Item 18, namely the requirement to report monthly, are addressed by this report as a whole.

Part I, Item 20 Additional Monitoring Imposed by Inspector

No additional monitoring has been requested by the Inspector at this time.

Should you require any additional information please feel free to contact me.

Regards,

Merle Keefe Manager, Environmental Permitting Sabina Gold & Silver Corp. #1800 – 555 Burrard Street Vancouver, BC V7X 1M9



Table 1 Monitoring Activity Overview by Station, April 2019

Monitoring		l Ivioliitorilig Acti	,	•		
Program Station	Monitoring Type	Description	Mine Phase	Group Code*	Frequency	Monitoring Activity
BRP-G-01 to BRP-G-TBD	Regulated Monitoring	General Site Runoff Surficial runoff anywhere at both Goose Property and MLA, including quarries; monitoring for erosion and sedimentation.	Construction	С	Weekly if flow enters a waterbody	N/A - frozen winter conditions
BRP-S-01 to BRP-S-TBD	General Monitoring	General Seeps Seepage or runoff from excavated and/or stockpiled material anywhere at both Goose Property and MLA, including quarries, that does not gather into a collection system or the site is reclaimed.	Construction and Operations	A, D	Monthly during flow, or as found	N/A - frozen winter conditions
				A, B, G	Weekly during dewatering Four times during	N/A – dewatering activities have not been initiated
		Goose Lake Discharge (discharge point for release of dewatering effluent with or without treatment)	Construction	D	dewatering, at the same time as the weekly samples	
BRP-01	Regulated Monitoring			Н	Once per month during dewatering, at the same time as Group D	
				I	One time during dewatering, at the same time as Group D	
BRP-02	General Monitoring	Llama Lake (intake point for dewatering, triggers need for treatment prior to discharge at BRP-01)	lama Lake (intake point for ewatering, triggers need for eatment prior to discharge Construction Construction Construction Sample if trea		Weekly if treatment is required; no sample if treatment is not required	N/A – dewatering activities have not been initiated
BRP-03	Verification Monitoring	Llama Pit (representative of collected pit water prior to transfer to tailings management facility)	Operations Stage 1 to Operations Stage 2	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/wrong mine phase
BRP-04	General Monitoring	Llama Pit Lake (representative of flooded pit Closure* to Post-		A, D	Twice per year	N/A – facility construction has not been initiated/ n/a mine phase
BRP-05	Verification Monitoring	Llama WRSA Pond (representative of collected water quality)	representative of collected Operations Stage 1 A, G At Li		At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-06	General Monitoring	Umwelt Lake (intake point for dewatering, triggers need for treatment prior to discharge at BRP-01)	triggers need construction C (TSS is required; no only) sample if treatmer		sample if treatment	N/A – dewatering activities have not been initiated
BRP-07	Verification Monitoring	Umwelt Pit (representative of collected pit water prior to transfer to tailings management facility)	Construction to Operations Stage 2	A, G	At Licensee's discretion	N/A – facility construction has not been initiated
BRP-08	General Monitoring	Umwelt Pit Lake (representative of flooded pit during flooding and before overflow to the downstream environment)	Closure to Post- Closure	A, D	Twice per year	N/A – facility construction has not been initiated/ n/a mine phase

BRP-09	Verification Monitoring	Umwelt WRSA Pond (representative of collected water quality, including landfill seepage/runoff)	Construction to Closure (early)*	A, G	At Licensee's discretion	N/A – facility construction has not been initiated
BRP-10	Verification Monitoring	Primary Water Pond (representative of collected water quality)	Construction to Closure (early)	A, D	At Licensee's discretion	N/A – facility construction has not been initiated
BRP-11	Verification Monitoring	Saline Water Pond (representative of stored water quality)	Construction (late) to Closure (early)	A, D	At Licensee's discretion	N/A – facility construction has not been initiated
BRP-12	General Monitoring	Big Lake Intake (intake point for potable and industrial water withdrawal)	Construction to Closure	A, D B	Four times per year Weekly	N/A – facility construction has not been initiated
BRP-13	Verification Monitoring	Ore Stockpile Pond (representative of collected water quality)	Construction to Closure (early)	A, D	At Licensee's discretion	N/A – facility construction has not been initiated
BRP-14	Verification Monitoring	ANFO Plant (representative of collected water quality)	Construction to Closure	А, Е	At Licensee's discretion	N/A – facility construction has not been initiated
BRP-15	Regulated Monitoring	Goose Fuel Tank Farm (representative of collected water quality)	Construction to Closure	А, Е	Prior to discharge or transfer of water	N/A – facility construction has not been initiated
BRP-16	Regulated Monitoring	Goose Hazardous Waste Management Area (representative of collected water quality)	Construction to Closure	А, Е	Prior to discharge or transfer of water	N/A – facility construction has not been initiated
BRP-17	Regulated Monitoring	Goose Property Sewage Treatment Plant (discharge point for treated sewage onto land)	Construction to Closure	A, F	Prior to discharge	N/A – facility construction has not been initiated
BRP-17A	Regulated Monitoring	Goose Property Sewage Treatment Plant (discharge point for treated sewage into Tailings Storage Facility or Tailing Facility)	Construction to Closure*	A, F	Prior to discharge	N/A – facility construction has not been initiated
BRP-18	General Monitoring	Llama Watershed Outflow (representative of non- contact water, PN04 from Water and Load Balance)	Operations Stage 1 to Closure	A, D	Once during freshet	N/A- wrong mine phase
BRP-19	General Monitoring	Echo Outflow (representative of non-contact water). PN09 from water and load balance	Operations Stage 1 to Closure	A, D	Once during freshet	N/A- wrong mine phase
BRP-20	Verification Monitoring	Echo Pit (representative of collected pit water prior to transfer to tailings management facility) Coperations Stage 2		A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-21	General Monitoring	Echo Pit Lake (representative of flooded pit during flooding and before overflow to the downstream environment)	Closure to Post- Closure	A, D	Twice per year	N/A – facility construction has not been initiated/ n/a mine phase
BRP-22	Verification Monitoring	Echo WRSA Pond (representative of collected water quality)	Operations Stage 2 to Closure (early)	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-23	General Monitoring	Gander Pond Outflow (representative of non- contact water, PN07 from Water and Load Balance)	Operations Stage 1 to Closure	A, D	Once during freshet	N/A- wrong mine phase
BRP-24	General Monitoring	Goose Lake Intake (intake point for potable and industrial water withdrawal)	Operations Stage 1 to Closure (early)	В	Weekly	N/A- no water withdrawn

BRP-25	Verification Monitoring	Goose Pit (representative of collected pit water prior to transfer to tailings management facility)	Operations Stage 1 to Operations Stage 2	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/wrong mine phase
BRP-26	General Monitoring	Goose Pit Lake (representative of flooded pit during flooding and before overflow to the downstream environment)	Closure* to Post- Closure	A, D	Twice per year	N/A – facility construction has not been initiated/ n/a mine phase
BRP-27	Verification Monitoring	Goose Main Tailings Facility (intake point for water treatment, represents pre- treatment water quality)	Operations Stage 3 to Closure	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-28	Verification Monitoring	Goose Main Tailings Facility (discharge point for water treatment, represents post- treatment water quality)	Operations Stage 3 to Closure	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-29	Verification Monitoring	TSF WRSA Pond (representative of collected water quality, including landfill seepage/runoff)	Operations Stage 1 to Closure	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-30	General Monitoring	Goose Southeast Inflow (representative of non- contact water, PN06 from Water and Load Balance)	Operations Stage 1 to Closure	A, D	Once during freshet	N/A mine phase
BRP-40	General Monitoring	Bathurst Inlet Intake (intake point in marine environment for potable and industrial water withdrawal)	Construction to Closure	A, D, B	At Licensee's discretion	N/A – water was not desalinated under this Licence this month
BRP-41	General Monitoring	Bathurst Inlet Discharge (discharge point in marine environment for effluent from desalinization plant)	Construction to Closure	А, Ј	At Licensee's discretion	N/A – water was not desalinated under this Licence this month
BRP-42	Regulated Monitoring	MLA Greywater (discharge point for treated greywater onto land)	Construction to Closure	A, F	Prior to discharge or transfer of water	N/A – Water was not discharged under this Licence this month.
BRP-43	Regulated Monitoring	MLA Fuel Tank Farm (representative of collected water quality)	Construction to Closure	Α, Ε	Prior to discharge or transfer of water	N/A – facility construction has not been initiated
BRP-44	Regulated Monitoring	MLA Landfarm (representative of collected water quality)	Construction to Closure	A, E	Prior to discharge or transfer of water	N/A – facility construction has not been initiated
BRP-45	Regulated Monitoring	MLA Hazardous Waste Management Area (representative of collected water quality)	Construction to Closure	A, E	Prior to discharge or transfer of water	N/A – facility construction has not been initiated
BRP-49	Regulated Monitoring	MLA Temporary Fuel Storage Facility (representative of collected water quality)	Construction	Α, Ε	Prior to discharge or transfer of water	N/A - frozen winter conditions
BRP-51	Regulated Monitoring	Goose Landfarm (representative of collected water quality)	Construction to Closure	А, Е	Prior to discharge or transfer of water	N/A - frozen winter conditions
BRP-52	General Monitoring	MLA Pond S1 (intake point for potable and industrial water withdrawal)	Construction to Closure	A, D B	Once per quarter when in use Weekly when in use	N/A - water was not withdrawn from this location under this Licence this month
BRP-53	General Monitoring	MLA Pond S2 (intake point for potable and industrial water withdrawal)	Construction to Closure	A, D B	Once per quarter when in use Weekly when in use	N/A - water was not withdrawn from this location under this Licence this month

BRP-54	General Monitoring	MLA Lake 3 (intake point for potable and industrial water withdrawal)	Construction to Closure	A, D	Once per quarter when in use	N/A - water was not withdrawn from this	
				В	Weekly when in use	location under this Licence this month	
BRP-55	General	MLA Lake 4 (intake point for potable and industrial water withdrawal)	Construction to Closure	A, D	Once per quarter when in use	N/A - water was not withdrawn from this	
BKP-55	Monitoring			В	Weekly when in use	location under this Licence this month	
BRP-I-01 to BRP-I-TBD	General Monitoring	Interconnection Winter Ice Road Proximal Water Bodies (intake points for fresh water used in the construction of the Interconnection Winter Ice Road)	Construction to Closure	В	Weekly when in use	Water use was tracked daily and a monthly summary is provided, by lake, in Table 2	

^{*} Refers to Group Code from Water Licence 2AM-BRP1831 Schedule I Table 1

Table 2 Monthly Water Usage by Water Source, April 2019

Table 2 Monthly Water Usage by Water Source, April 2019						
Source			Withdrawal Limit	Monthly Usage (m ³)	Winter 2018/2019 Cumulative	
Source			(m ³)*	wionthly osage (m)	Usage (m³)	
Lake 40	UTM N 7378706	E 385690	8,643	0	0	
Lake 39	UTM N 7373635	E 387680	868,067	0	0	
Lake 38	UTM N 7367973	E 3900840	5,185	0	0	
Lake 37	UTM N 7367584	E 391134	1,604	0	0	
Lake 36	UTM N 7364930	E 391683	293,621	0	0	
Lake 34	UTM N 7351852	E 400718	17,010,361	615	6,788	
Lake 33	UTM N 7343073	E 403581	2,859	0	478	
Lake 32	UTM N 7340003	E 404631	56,674	150	3,048	
Lake 31	UTM N 7336793	E 403071	5,334	0	83	
Lake 30	UTM N 7334245	E 403433	211,044	300	1,020	
Lake 29	UTM N 7332392	E 403397	23,951	105	3,825	
Lake 28	UTM N 7329276	E 401911	1,512	90	835	
Lake 27	UTM N 7328257	E 401915	6,992	0	0	
Lake 26	UTM N 7327338	E 401382	683	15	15	
Lake 25	UTM N 7326281	E 400452	80,746	360	4,068	
Lake 24	UTM N 7325353	E 400617	7,597	0	0	
Lake 23	UTM N 7323246	E 400275	6,103	570	1,545	
Lake 22	UTM N 7231054	E 402904	59,995	0	423	
Lake 21	UTM N 7318800	E 403392	39,637	45	990	
Lake 20	UTM N7314226	E 404075	1,060,454	180	2,180	
Lake 19	UTM N 7311911	E 401691	9,827	90	2,645	
Lake 18	UTM N 7309759	E 402495	7,174	60	60	
Lake 17	UTM N 731007	E 401912	15,059	75	645	
Lake 16	UTM N 7308843	E 401524	128,478	600	3,535	
Lake 15	UTM N 7305916	E 402441	1,239,167	270	1,430	
Lake 14	UTM N7303281	E 399696	447,685	520	2,373	
Lake 13	UTM N 7298909	E 399919	237,327	628	3,148	
Lake 12	UTM N7293431	E 401036	88,191	555	1,080	
Lake 11	UTM N7287885	E 404204	359,780	585	960	
Lake 10	UTM N7284074	E 407857	15,112	1,991	2,014	
Lake 9	UTM N 7280643	E411983	98,188	3,821	3,821	
Lake 8	UTM N7277741	E 418218	53,703	1,073	1,073	
Lake 7	UTM N7276631	E 418218	113,798	1,140	1,140	
Lake 6	UTM N 7277136	E 419314	424,972	540	540	
Lake 5	UTM N 7277346	E 421197	25,362	353	353	
Lake 4	UTM N 7275521	E 422778	19,379	0	0	
Lake 3	UTM N 7273459	E 425284	79,375	1,185	1,185	
Lake 2	UTM N 7273318	E 427649	53,507	855	855	
Lake 1	UTM N7272263	E 428691	39,603	2,093	2,093	
Total			·	18,862	54,242	
	lake-specific withd	rawal limite	s hased on mothodology		ce road construction technical memor	

^{*}Refers to lake-specific withdrawal limits based on mothodology outlined in Sabina's ice road construction technical memorandum. Total winter ice road water use is not to exceed 675 m3/km/year