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Memo

To:	Shelley Potter, TMAC	**Client:**	TMAC Resources Inc.
From:	Lisa Barazzuol	**Project No:**	1CT022.027
Cc:	Oliver Curran, TMAC Ashley Mathai, TMAC	**Date:**	April 1, 2019
Subject:	2018 Geochemical Monitoring of Flotation Tailings Slurry and Detoxified Tailings, Doris Mill – Supplemental Memo Reporting 2018 WAD Cyanide Data (TL-7)		

1 Introduction

As specified in Schedule J, Tables 1 and 2 of NWB Type "A" Water Licence 2AM-DOH1323 Amendment No. 1 (the "Water Licence", Nunavut Water Board 2016), TMAC submitted the results of the 2018 geochemical monitoring program for flotation tailings slurry (TL-6) and detoxified tailings (TL-7) in the technical memorandum *2018 Geochemical Monitoring of Flotation Tailings Slurry and Detoxified Tailings, Doris Mill (SRK 2019)* found in Appendix F of the 2018 Nunavut Water Board Annual Report.

As documented in SRK (2019), the complete data set for WAD cyanide data extracted from detoxified tailings was not available at the time of report preparation due to a methodological error by the lab. This memorandum presents the complete 2018 WAD cyanide data set for detoxified tailings and is a supplementary submission to SRK (2019). SRK (2019) documents the sampling and analytical methods.

2 Results

Table 2-1 presents the data for cyanide and cyanide degradation products, as extracted from detoxified tailings solids. Table 2-1 is an update of Table 4-7, presented in Section 4.2.3 of SRK (2019).

Between January and early April, concentrations of WAD and free cyanide extracted from the detoxified tailings were less than the ALS analytical limits of detection (13 to 20 ppm). Between April and December, free and WAD cyanide concentrations ranged from below detection (0.5 ppm) to 15 mg/L and 40 to 110 ppm, respectively. The January to March detoxified tailings samples contained lower sulphide content (maximum 6%) compared to sample from April to December (12 to 23%).

Table 2-1*: Extracted Cyanide and Cyanide Degradation Products, Detoxified Tailings Solids (TL-7)

Sampling Date	Laboratory	WAD Cyanide	Free Cyanide	Thiocyanate	Cyanate
		ppm	ppm	ppm	ppm
Jan	ALS	<13	<13	Note 1	Note 1
Feb		<20	<20		
Mar		<20	<20		
Apr 1 (R1)		<20	<20		
Apr 23 (R2)	Maxxam	**46**	6	1.1	46
May		**43**	3	940	74
Jun		**160**	10	5,300	310
Jul		**40**	0.65	1,100	280
Aug		**59**	0.58	930	320
Sep		**110**	15	2,600	1,100
Oct		**59**	<0.5	1,800	230
Nov		**50**	<0.5	1,600	430
Dec		**47**	<0.5	910	300

Source: P:\30431 Hope Bay Geochemistry\Project\Tailings\1. Working Files\[1CT022.027_HopeBay_TailingsMonitoringData_TL-6 & TL-7_2018_rev09.xlsx]

***Presented as Table 4-7 in SRK (2019)**

Note 1: Thiocyanate and cyanate data not available from ALS because ALS advised TMAC that these analyses were not commercially available.

Values in bold represent new data presented as part of this memo.

3 Closure

With the submission of this memo, the reporting requirements for the 2018 geochemical monitoring programs for waste rock, quarry and tailings from Doris Mine are complete.

SRK Consulting (Canada) Inc.

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4 References

Nunavut Water Board (2016) Water Licence No. 2AM-DOH1323 – Amendment No. 1. Issued on November 4, 2016.