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**J. E. STOVER & ASSOCIATES, INC.**

2352 NORTH 7<sup>TH</sup> STREET, UNIT B  
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PHONE: (970) 245-4101, FAX: (970) 242-7908

MINE ENGINEERING  
MINE RECLAMATION

CIVIL ENGINEERING  
CONST. MANAGEMENT

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May 2, 2019

Janet Binns  
Division of Reclamation, Mining & Safety  
1313 Sherman St., Room 215  
Denver, Colorado 80203-2273

Re: Minrec, Inc., North Thompson Creek Mines  
First Quarter Pond Inspection Reports & Yearly Inspection  
Permit C-1981-025

Dear Ms. Binns:

Enclosed please find the referenced reports. Discharge monitoring reports are sent to you under separate cover. These reports are late because the mine was inaccessible at the end of the first quarter.

Sincerely,

*J. E. Stover*

J. E. Stover, P.E.  
Consulting Engineer

Enclosures

DMRDRMS

MINREC, INC.  
 NORTH THOMPSON CREEK MINES  
 2019 IMPOUNDMENT YEARLY INSPECTION

In accordance with Rule 4.05.9(14), all impoundments shall be inspected at least yearly to determine if the impoundment has been maintained as designed, and in accordance with the approved plan and the applicable regulations. This yearly inspection is for the impoundments located at the North Thompson Creek Mines.

On April 28, 2019, I performed the required yearly inspections. I, J. E. Stover, have a wide variety of experience in the design and construction of earth fill embankments. Nothing was observed during the inspection that would indicate the ponds have a potential for failure. There was no appearance of erosion, instability, structural weakness or other hazardous conditions. There are no required monitoring procedures or instrumentation other than quarterly and yearly inspections. There are no aspects which might affect stability and there is no required maintenance. The long pond and treatment ponds T-1 and T-2 were full as expected with approximate water level elevations of 7522, 7515 and 7511 respectively. T-2 was discharging to Pond 9 at approximately 5 to 10 gpm. Pond 9, was full and overflowing (less than 5 gpm) to a ditch that flows to the refuse pond. The water elevation in Pond 9 was approximately 7503. Water depth in treatment ponds T-1 and T-2 is approximately 4 to 5-feet. The refuse pond pool was at about 7420 in elevation.

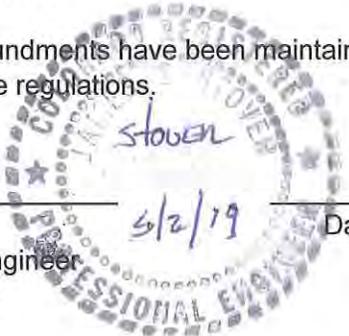
The impoundments have the following capacities:

IMPOUNDMENT CAPACITIES - ACRE FEET			
	Water	Sediment	Total
Long Pond	0.35	N/A	0.35
T-1	0.29	N/A	0.29
T-2	0.24	N/A	0.24
Pond 9	0.53	0.42	0.95
Refuse Pond	0.81	0.50	1.31

Notes:

1. Capacities are based latest digital topography.

To the best of my knowledge and belief the impoundments have been maintained as designed and in accordance with the approved plan and applicable regulations.


  
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 James E. Stover  
 Colorado Professional Engineer  
 Registration No. 19230

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 4/2/19  
 Date

## QUARTERLY POND INSPECTION REPORT

Operator:	Minrec, Inc. C-1981-025	Quarter:	First
Mine:	North Thompson Creek Mines	Inspection Date:	28-Apr-19

Pond Identification	Long	T-1	T-2	P-9	Refuse Pond
Type of Pond	Treatment	Treatment	Treatment	Sediment	Sediment

Status During Inspection:					
Approximate Water Level	Full	Full	Full	7503	7420
Sediment (% total storage)	N/A	N/A	N/A	10%	0%
Outflow (gpm)	To T-1	To T-2	5 to 10 gpm	< 5 gpm	0

Features	Problem	Problem	Problem	Problem	Problem
	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
<b>Erosional</b>					
Rills & Gulleys	No	No	No	No	No
Inadequate Vegetation	No	No	No	No	No
Outlet Channel Erosion	No	No	No	No	No
Burrows	No	No	No	No	No
Other	No	No	No	No	No

Structural					
Differential Settling	No	No	No	No	No
Cracks or Slides	No	No	No	No	No
Seepage	No	No	No	No	No
Other	No	No	No	No	No

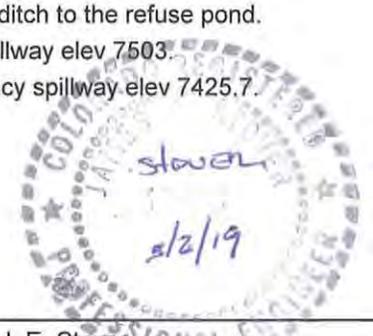
Appurtenant Structures					
Defective Spillways	No	No	No	No	No
Dewatering Devices Clogged	No	No	No	No	No
Faulty Gates, Etc.	No	No	No	No	No
Other	No	No	No	No	No

**Additional Comments**

Drawing D-2-5 shows the location of the long pond & ponds T-1, T-2 and P-9. Discharge from T-2 is being directed to Pond 9. Pond 9 Emergency spillway has be redirected to the ditch to the refuse pond. Pond 9, Bottom Elev 7496. Invert of emergency spillway elev 7503. Refuse Pond, Bottom Elev 7418. Invert of emergency spillway elev 7425.7.

**Maintenance Required:** None

**Name of Inspector:** Jim Stover



J. E. Stover  
Colorado P. E. 19230 Date