AECOM

Camlaren Mine Tailings Soil Containment Area Geotechnical Inspection

Gordon Lake Group Remediation Project

Crown Indigenous Relations and Northern Affairs Canada – Contaminants and Remediation Directorate

Project Number: 60710609

April 5, 2024

Delivering a better world

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AECOM: 2015-04-13

Quality information

Prepared by	Checked by	Verified by
		
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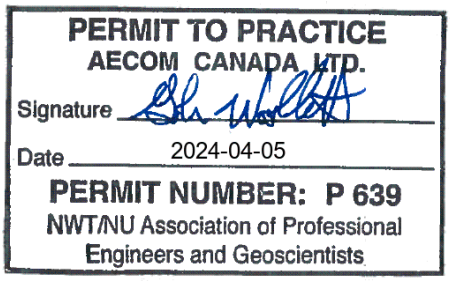

Revision History

Revision	Revision date	Authorized	Name	Position
0	December 5, 2023		Anwar Majid	
1	April 5, 2024		Elizabeth Garven	Geotechnical Engineer

Distribution List

# Hard Copies	PDF Required	Association / Company Name
	1	CIRNAC

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Appendices

1. Introduction

AECOM Canada Ltd. (AECOM) was contracted by Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) to complete an engineering inspection of the tailings soil containment area (TSCA) at the former Camlaren Mine Site. An inspection of the TSCA was completed by Elizabeth Garven, P.Eng., of AECOM on September 29, 2023. This report summarizes observations and recommendations of the engineered components of the TSCA.

Stantec Consulting Ltd. is the Engineer of Record for the design and described the tailings containment facility as a “dam earth structure containing tailings and mine waste, capped in 2018” (Stantec, 2018). The tailings containment facility has been called a tailings soil containment area (TSCA) in previous reports and will be the term used for this report, for consistency. Englobe Corp. notes that the TSCA is in the passive closure phase for a mining dam structure with a “low” dam hazard classification, and is in the process of conversion into a landform structure (Englobe, 2023).

2. Site Visit

On September 29, 2023, AECOM personnel, Elizabeth Garven and Janine Morris, travelled to site to complete the geotechnical inspection concurrently with the quarterly water sampling and monitoring at the site. A wildlife monitor accompanied personnel while on site.

The quarterly water sampling and monitoring results and observations are provided in a separate report.

2.1 Health and Safety Plan

A detailed Health and Safety Plan (HASP) and the WSCC Contaminated Site Safety Plan forms were prepared and submitted for approvals prior to commencement of the field program. The documents were reviewed by all team members prior to mobilizing to the site.

3. Geotechnical Inspection

Elizabeth Garven completed the inspection of the TSCA and associated structures. Elizabeth is a Senior Geotechnical Engineer registered in the Northwest Territories with design and inspection experience. A detailed photo log from the inspection is provided in **Appendix A**.

The inspection was completed by visual observations of the TSCA engineered components at the closed Camlaren Mine Site. The general location and layout of the site is shown in **Figure 1** in **Appendix B** and shown in **Photos 1** and **2.** The subsections below are organized by the three main components and provide details of the inspection and recommendations.

3.1 Overview

It is understood that the TSCA consists of earthfill embankments that contains low-strength tailings, solid mining-related detritus as well as materials imported to the site from nearby former mining operations as part of the Gordon Lake Group Mines Rehabilitation project. The TSCA contains approximately 23,400 m^3 waste materials and includes the following features (Stantec, 2018):

- Engineered composite cover that includes bituminous geomembrane, placed over a sand layer, covered with 0.5 m of sand
- Outer slopes regraded to 3.1H:1V to 4.3H:1V
- Bituminous membrane-lined ditch along the west and south perimeter to control drainage so that there is no pooling against the embankments
- Erosion protection including placement of willow branches over the top surface of pile and erosion coir logs along the north, east, and south embankment slopes

The TSCA is generally oval, measuring approximately 200 m (north to south) by 130 m (east to west). The top of the TSCA was conically shaped with 3 to 4% surface grading toward the adjacent outer slopes. The height of the pile varies from 1.5 m to 4.5 m.

3.2 Observations

The site includes the pile that is defined by the top surface, and the four embankments (north, south, east and west) as shown in **Figure 2**. Photos showing an overview of the TSCA are found in **Appendix A** (**Photos 1 and 2**). The drainage ditch runs along the toe of the west and south embankments but is separated into the north drainage ditch and south drainage ditch as shown on the Figure from Englobe report (Englobe, 2022). The same names were used, for consistency.

The TSCA is in generally good condition. Willow branches were placed across the top of the pile and the slopes appear to be generally stable. At the time of the inspection, the bottom of the embankments was dry and no water was observed in the ditches along the west and south sides of the TSCA. The following observations were noted and highlighted on **Figure 2** where applicable:

- The top of the pile has some minor localized settling across the top of the pile (**Photo 3**).
- The willow branches placed across the surface are providing erosion control and allowing vegetation to grow (**Photo 4).**
- Vegetation in the form of young trees and grasses have started to grow but are mainly along the east slope (**Photo 5)** and east area of the top of pile (**Photo 6**). The west side has almost no vegetation (**Photos 7 and 8**). Vegetation continues to establish across the TSCA. (**Photo 9).**
- North embankment is stable and has the start of some young trees growing on it (**Photo 10**). There are the start of some erosion channels from water movement (**Photos 11**, **12**, **13**, and **14**) along the north slope in the area of the northwest corner. In a few areas, sand is washed down the slope and accumulating at the erosion log (**Photo 15**).
- West embankment has occasional patches of grass growing (**Photos 16,** and **17**). Minor erosion channels are noted along the length of the embankment (**Photo 17**). The embankment is not very tall and there are no erosion logs along this side.
- East embankment has some vegetation growing along most of the embankment. (**Photo 18**, **19**, and **20**) Minor erosion is noted in several locations and washout sand is visible at some locations. (**Photo 21**). An erosion channel along the east embankment appears to have been stabilized with coarse aggregate (**Photo 22**).
- There is an area of settlement in the northwest corner of the pile (**Photo 23**). The area of settlement is adjacent to an 8 m long healed crack in the pile (**Photo 24**) Cracking on the west side of the drainage channel in the same area was also noted (**Photo 25**, **26**, and **27**). This cracking indicates settlement in the area of the drainage ditch.
- Moose tracks are seen on the west embankment (**Photo 28**).
- A healed crack is noted at the south end of the west embankment (**Photo 29**).
- The north drainage ditch is adjacent to the toe of the west embankment. The ditch is in good condition and was dry at the time of the inspection. (**Photos 30, 31,** and **32**). The south drainage ditch is adjacent to the toe of the west and south embankments (**Photo 26**, **23**, **33**, **34**, **35**). The drainage channel appears to undercut the embankment for approximately 15 m at the southeast corner of the TSCA (**Photo 18**).
- South embankment has some vegetation and is generally stable (**Photos 36** and **37**).
- The erosion coir logs are in varying conditions. Some are pinned and in good condition, while others are loose or have degraded in condition (**Photos 38** and **39**). Along the south embankment, the coir logs have migrated up the slope. Along the east embankment, some of the coir logs have disappeared and migrated to different locations.

- The bituminous membrane was exposed along the south embankment near station 0+340 (**Photo 40**).
- Numerous holes were seen on and near the TSCA (**Photo 41**). The wildlife monitor indicated that they were likely from foxes that enjoy digging in the sand. An area located to the west of the TSCA appears to be occupied by foxes (**Photo 42**).
- A spot of oil contaminated soil (approximately 0.15 m^3) was observed adjacent to the north drainage ditch west of the TSCA. (**Photo 43).**

4. Discussion and Recommendations

The structure is generally stable and in good condition based on the visual inspection conducted in September 2023. Vegetation is growing across the pile and is necessary for long term stabilization. Some vegetation has propagated across the pile, but it is still quite limited. Minor erosion channels on the embankments will reduce in size and frequency with the additional vegetation across the pile. Surface erosion should continue to be monitored, and repaired where needed.

Settlement was observed in the northwest area of the pile and the cracking west of the drainage channel has large, open cracks west of the drainage channel that appear to be quite new. The cracks observed on the TSCA pile are narrower and healed. The larger cracks that are open are likely to collect water and may grow during spring thaw. Repairing these cracks to minimize impacts is recommended. The settlement in this area should continue to be monitored to allow that the drainage channel in this area is still effective and be repaired as needed to avoid ponding next to the embankment.

The coir logs reduce erosion and aid in establishing vegetation. Some of the erosion coir logs on the east and south embankments have broken down, or torn, or have come loose and migrated elsewhere. Some of these logs should be replaced on the steeper slopes.

Within the TSCA, holes that have been dug by foxes or other animals in the sand cover should be backfilled to prevent water pooling, and the exposed bituminous liner at the south end should be backfilled with cover material.

5. Statement of Limitations

The findings and conclusions in this 2023 geotechnical inspection report by AECOM for the Camlaren Mine TSCA have been prepared for specific application to this inspection. They have been developed in a manner They have been developed in a manner consistent with that level of care and skill exercised by members of the engineering profession and in accordance with AECOM's standard terms and conditions.

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Background information, design bases, and other data have been furnished to AECOM by CIRNAC, which AECOM has used in preparing this report. AECOM has relied on this information as furnished and is neither responsible for nor has confirmed the accuracy of this information.

This report is based on data, site conditions, and other information that were generally applicable as of September 29, 2023. The conclusions and recommendations herein are therefore applicable only to these time frames.

6. References

Englobe Corp. (Englobe) 2021. Gordon Lake Group Geotechnical Services Program 2021 Dam Safety Review. Final Report.

Englobe Corp. (Englobe), 2023. Gordon Lake Group – Geotechnical Services Program - TSCA Geotechnical Investigation for Dam Declassification. Version 00. Project number 2207077.00. Report dated March 7, 2023.

Stantec Consulting Ltd. (Stantec), 2018. 2018 As-Built Construction – Camlaren TSCA, Part of GLG. FINAL. Project Number 121413573. Report dated December 21, 2018.

Appendix A

Photographic Log

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PHOTOGRAPHIC LOG

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
1	9/29/2023

Direction Photo Taken

North

Description

General site photo of the TSCA.

Photo No.	Date
2	9/29/2023

Direction Photo Taken

Southwest

Description

General site photo.

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PHOTOGRAPHIC LOG

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
3	9/29/2023

Direction Photo Taken

Southwest

Description

Minor settlement across the surface of the pile.

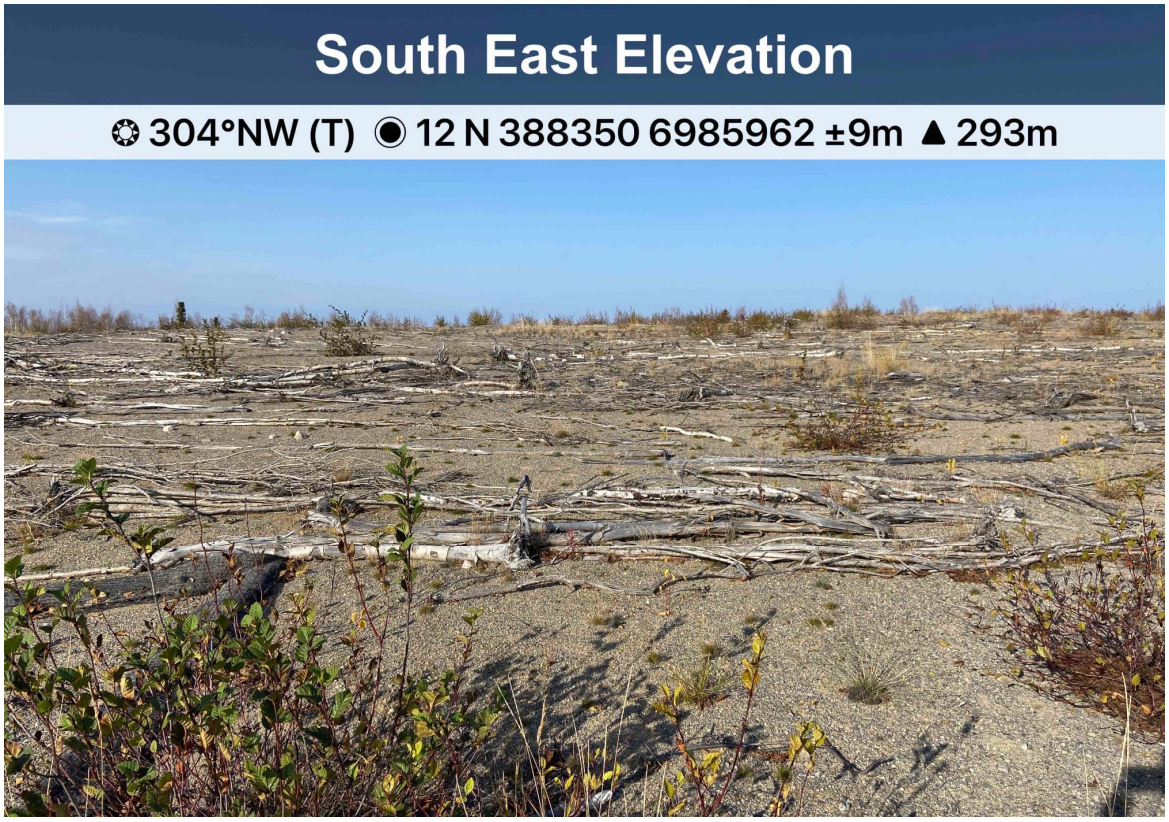
Photo No.	Date
4	9/29/2023

Direction Photo Taken

Northwest

Description

Willow branches placed for erosion control.



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PHOTOGRAPHIC LOG

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
5	9/29/2023

Direction Photo Taken

Northeast

Description

Vegetation is growing on the east slope.

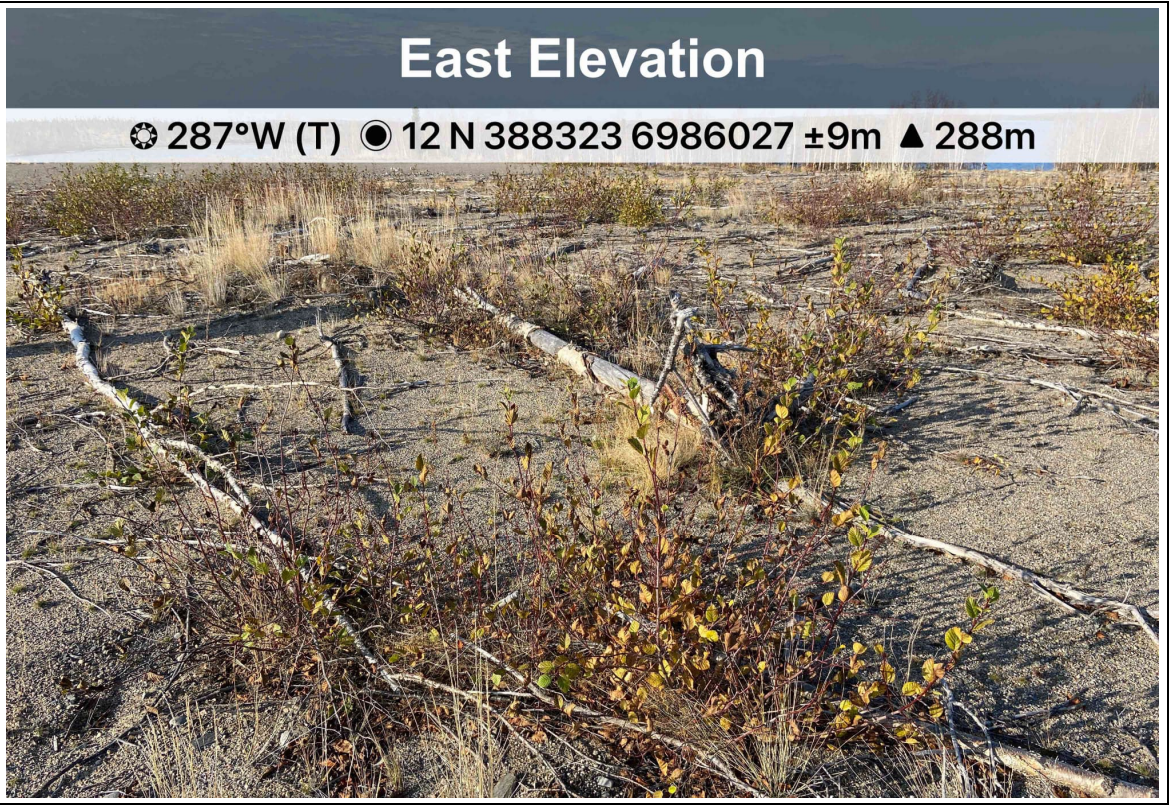
Photo No.	Date
6	9/29/2023

Direction Photo Taken

West

Description

Willow cover with vegetation including small tress and grasses.



PHOTOGRAPHIC LOG

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
7	9/29/2023

Direction Photo Taken

East

Description

Vegetation sparse on the west side.

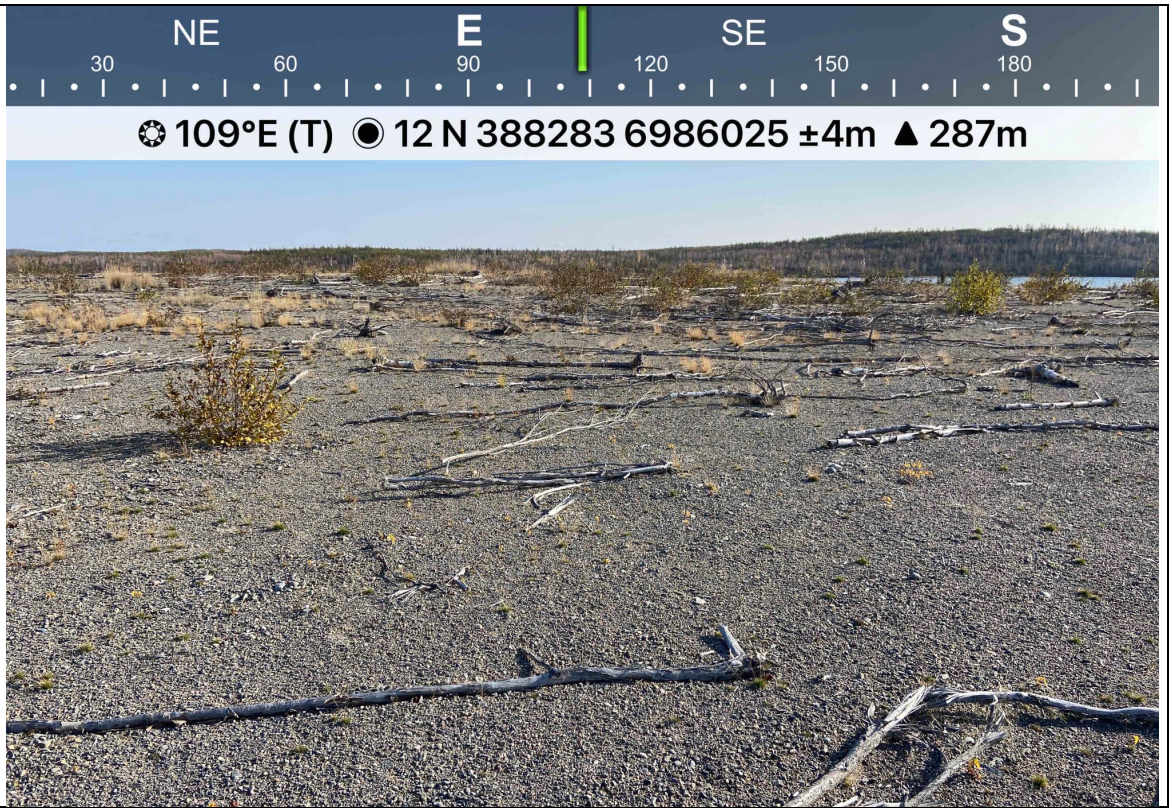


Photo No.	Date
8	9/29/2023

Direction Photo Taken

South

Description

Lack of vegetation along the west side

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
9	9/29/2023

Direction Photo Taken

n/a

Description

Vegetation continues to grow.

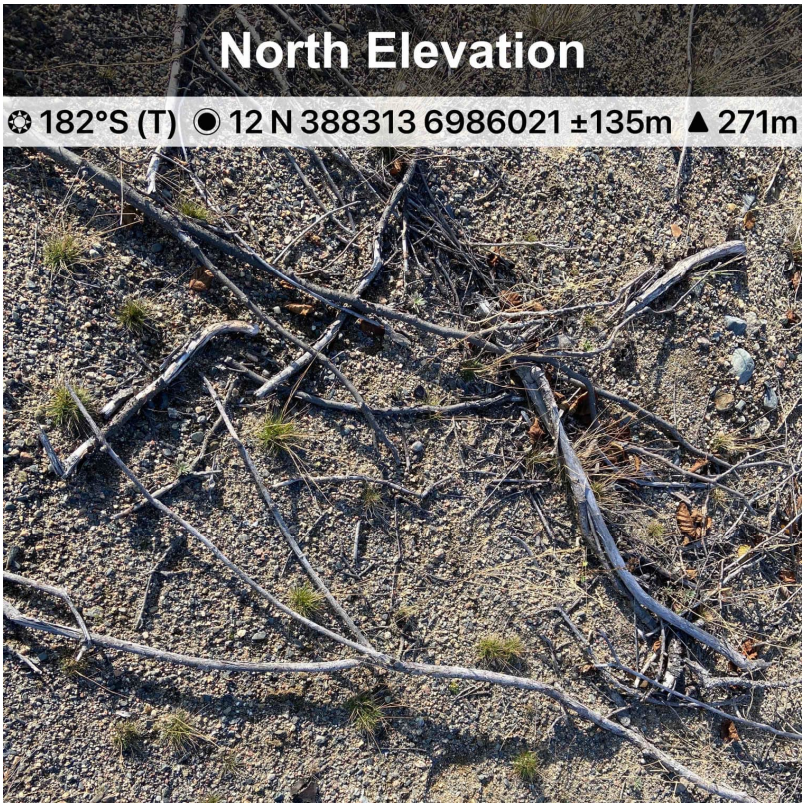


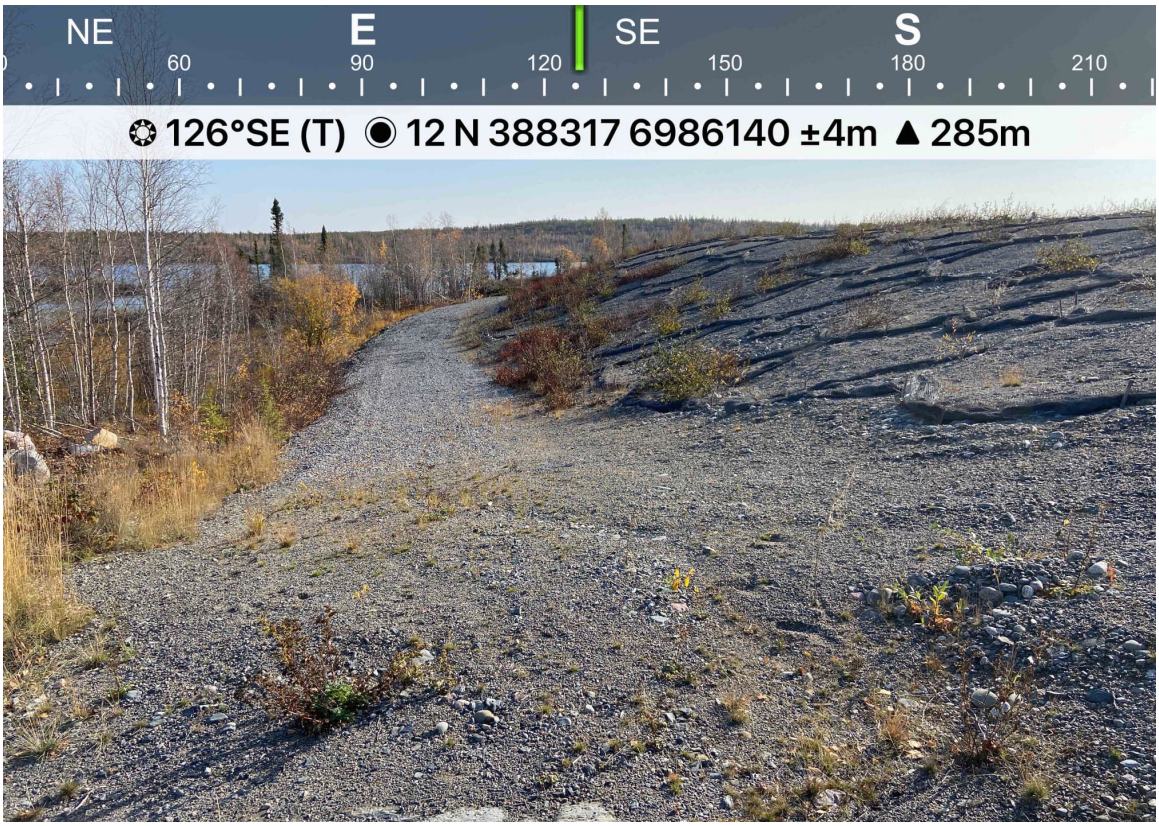
Photo No.	Date
10	9/29/2023

Direction Photo Taken

Southeast

Description

North slope is generally stable with the start of vegetation growth.



Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
11	9/29/2023

Direction Photo Taken

North

Description

Minor erosion channels from water movement along north embankment of pile.

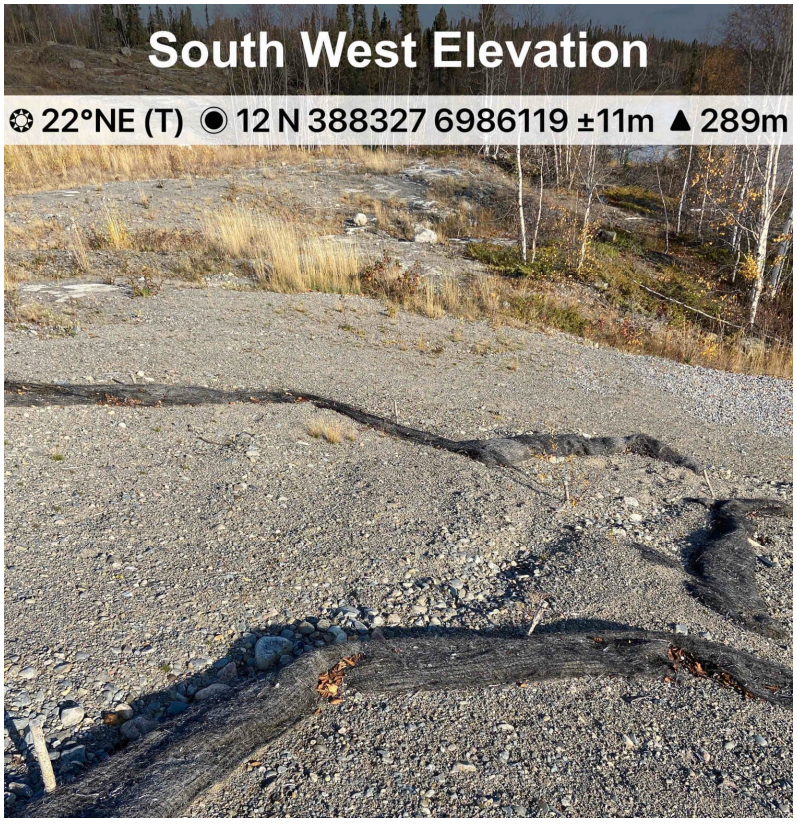
Photo No.	Date
12	9/29/2023

Direction Photo Taken

Northeast

Description

Erosion channel on north slope.



Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
13	9/29/2023

Direction Photo Taken

North

Description

Erosion channels or minor settlement likely caused by water movement along the north embankment (toward the northwest corner).

Photo No.	Date
14	9/29/2023

Direction Photo Taken

Northeast

Description

Erosion channels down the embankment in the northwest corner of the TSCA flowing toward the start of the drainage channel

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
15	9/29/2023

Direction Photo Taken

North

Description

Erosion on north embankment slope (toward the northwest corner) from water movement.

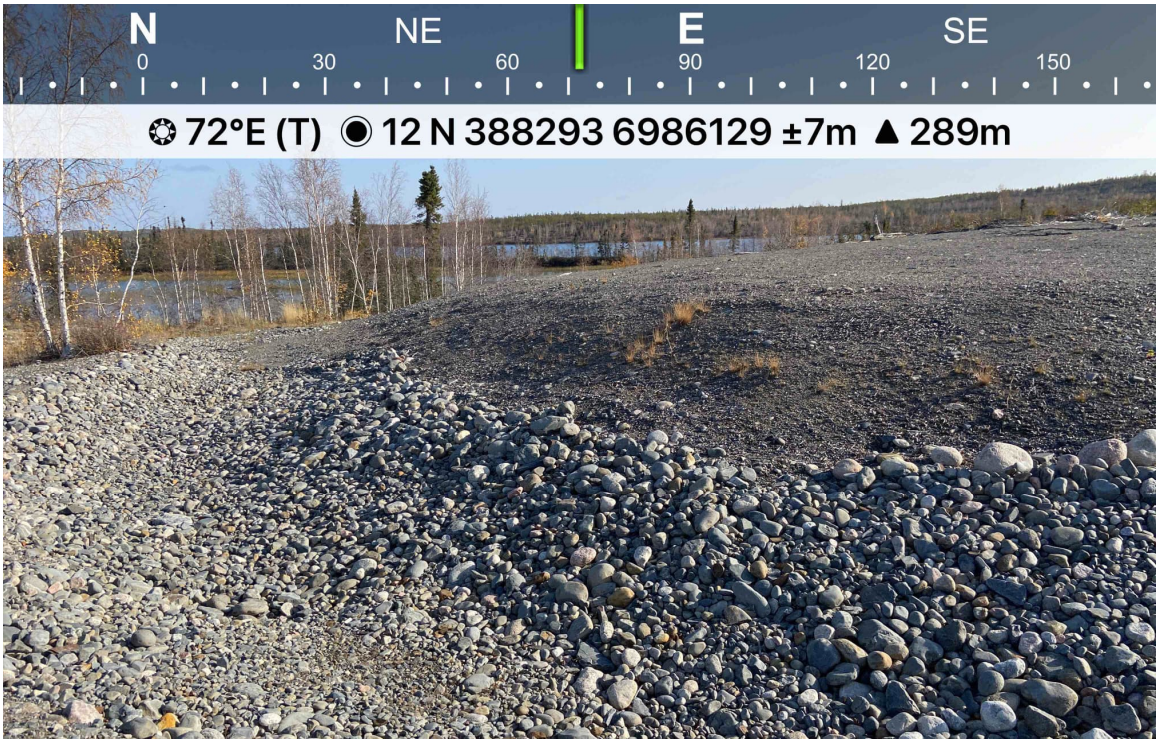
Photo No.	Date
16	9/29/2023

Direction Photo Taken

East

Description

West slope has very little vegetation except occasional patches of grasses.



Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
17	9/29/2023

Direction Photo Taken

Southwest

Description

West embankment with very little vegetation. A series of erosion channels are shown along the left side of the photo.

Photo No.	Date
18	9/29/2023

Direction Photo Taken

Northeast

Description

East embankment with erosion logs. Some vegetation growth. The south drainage channel in this photo undercuts the south embankment for approximately 15 m.

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
19	9/29/2023

Direction Photo Taken

Northeast

Description

Vegetation is well established in some areas along the east embankment.

Photo No.	Date
20	9/29/2023

Direction Photo Taken

Southwest

Description

Erosion embankment and vegetation on the north end of the east embankment.

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
21	9/29/2023

Direction Photo Taken

North

Description

Erosion on the east embankment resulting in sand movement down the slope.

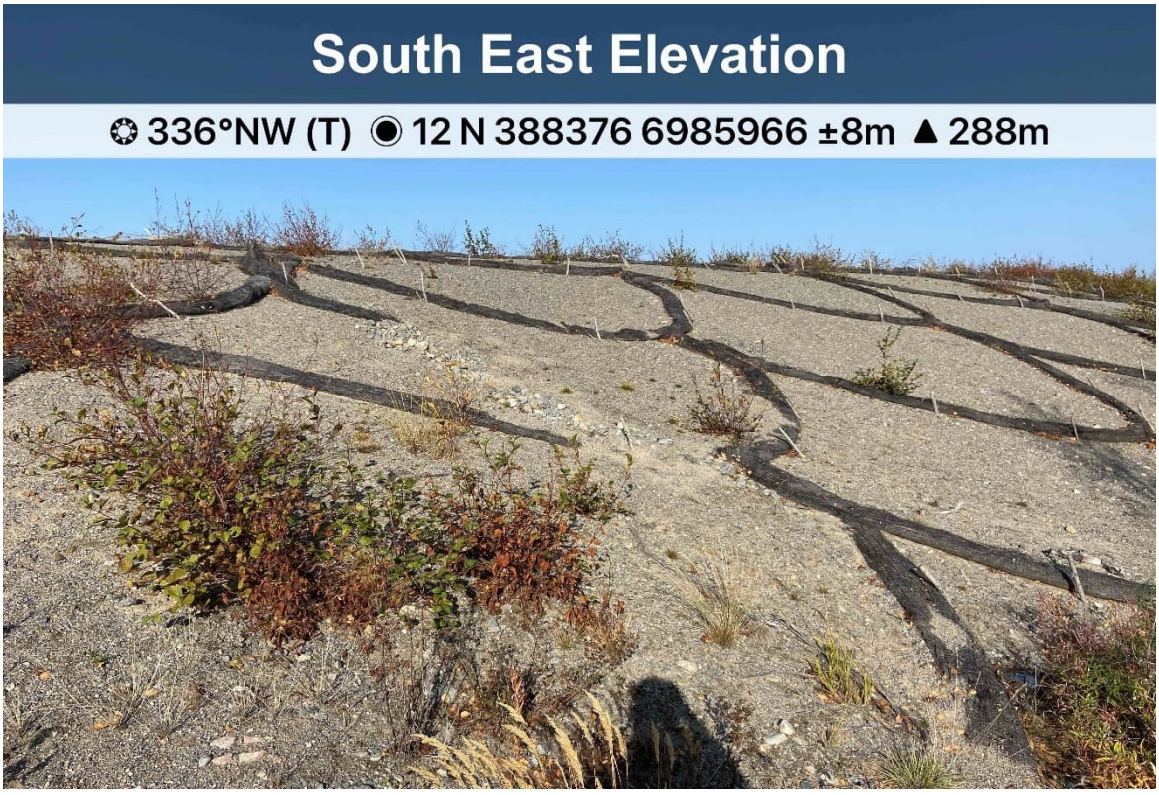
Photo No.	Date
22	9/29/2023

Direction Photo Taken

Northwest

Description

An erosion channel appears to have been repaired using coarse aggregates placed within the channel.



Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
23	9/29/2023

Direction Photo Taken

Northwest

Description

Area of settlement in northwest area of TSCA.

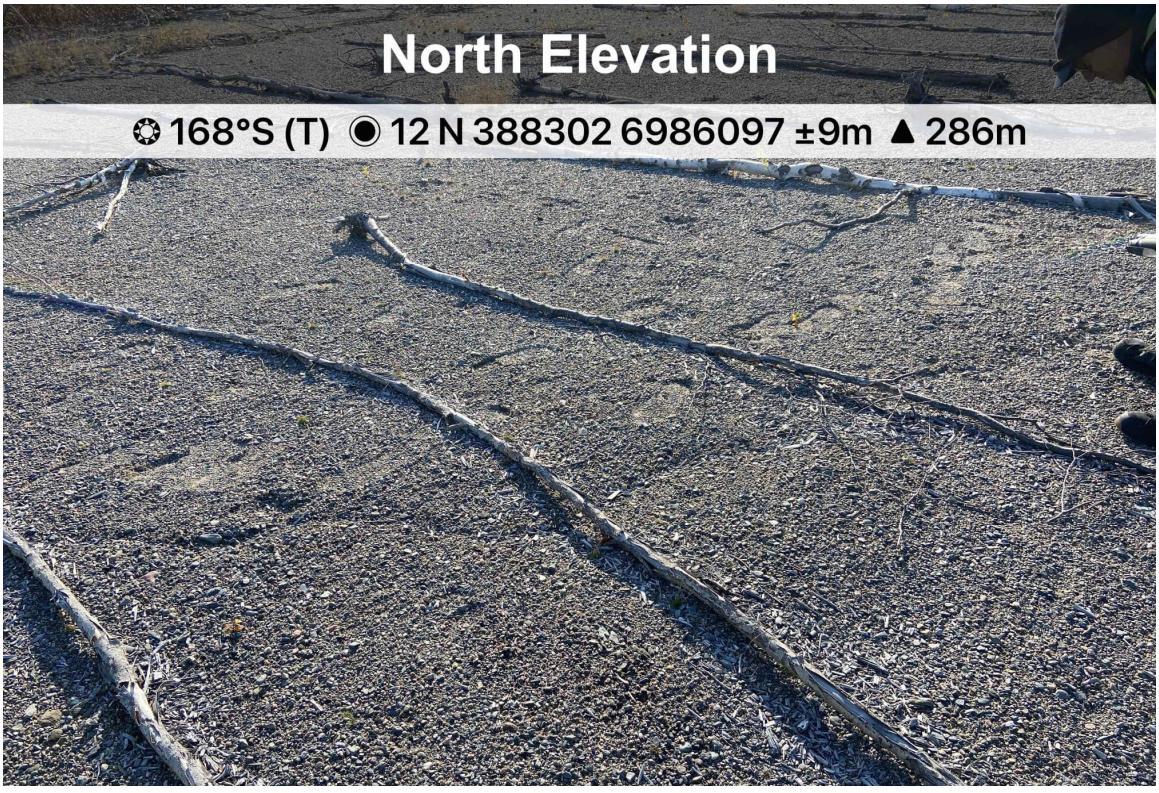
Photo No.	Date
24	9/29/2023

Direction Photo Taken

Southn

Description

Healed crack on top of pile in northwest area of TSCA.



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PHOTOGRAPHIC LOG

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
25	9/29/2023

Direction Photo Taken

North

Description

Cracking west of drainage channel at northwest corner of TSCA.

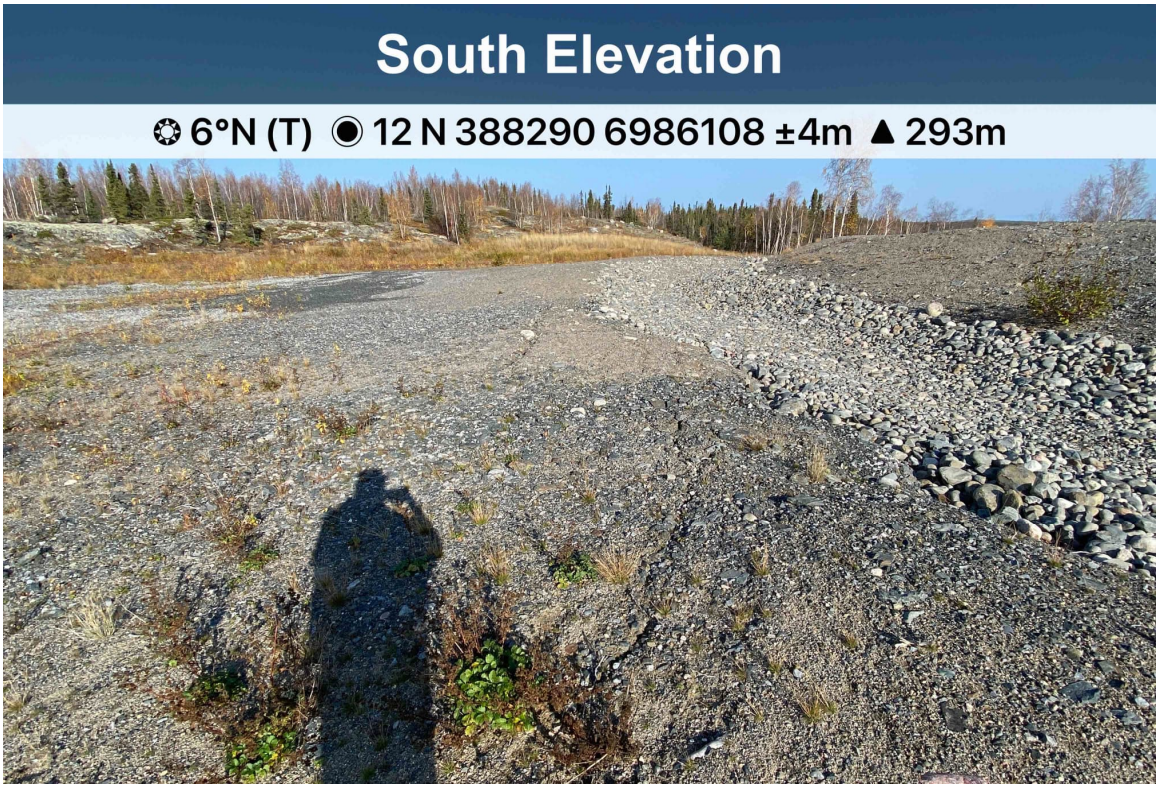

Photo No.	Date
26	9/29/2023

Direction Photo Taken

Northeast

Description

Cracking west of drainage channel near northwest area of TSCA.

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
27	9/29/2023

Direction Photo Taken

Northeast

Description

Large, open cracks adjacent to north drainage channel in the northwest area of the TSCA.

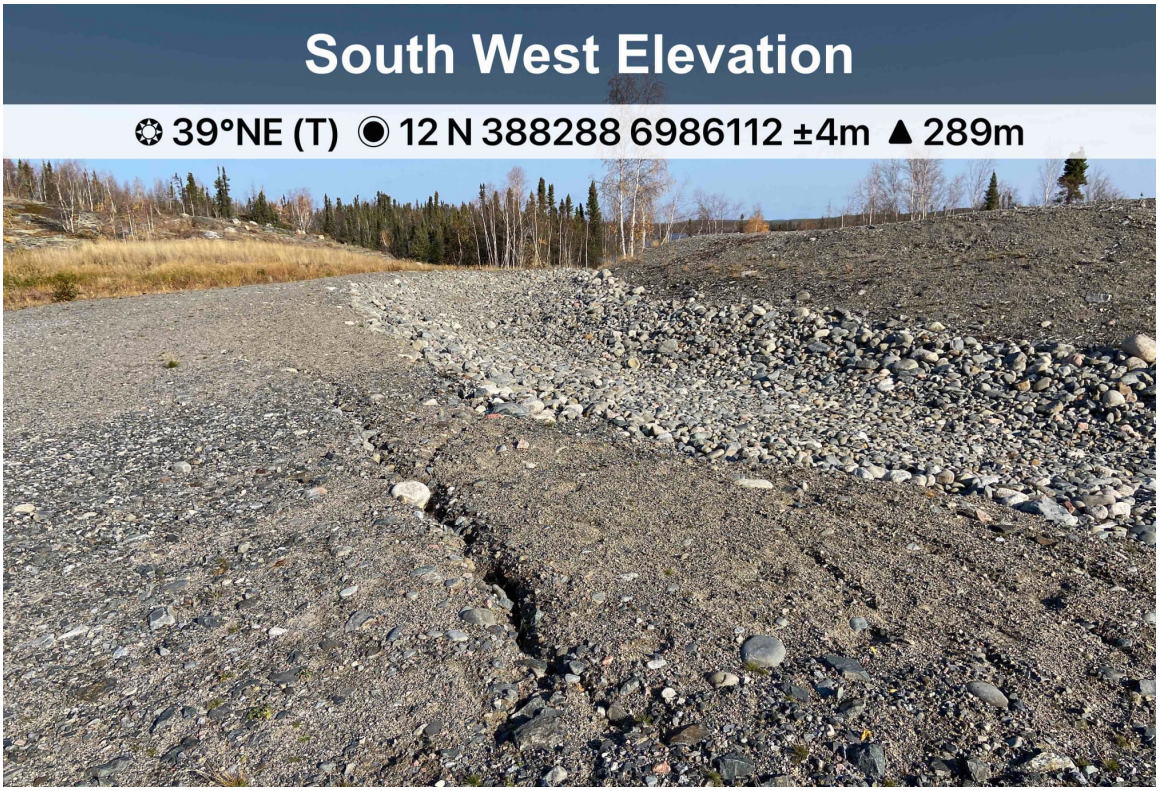

Photo No.	Date
28	9/29/2023

Direction Photo Taken

Southwest

Description

Moose tracks observed on the west embankment.

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
29	9/29/2023

Direction Photo Taken

West

Description

Healed crack on the top of the pile in the southwest of the TSCA.

Photo No.	Date
30	9/29/2023

Direction Photo Taken

East

Description

North drainage channel at northwest corner of TSCA.

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
31	9/29/2023

Direction Photo Taken

South

Description

North drainage channel. Healed cracks visible adjacent to the drainage channel.

Photo No.	Date
32	9/29/2023

Direction Photo Taken

Northeast

Description

Interface between north and south drainage channels.

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PHOTOGRAPHIC LOG

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
33	9/29/2023

Direction Photo Taken

South

Description

South drainage channel.

Photo No.	Date
34	9/29/2023

Direction Photo Taken

Southeast

Description

Drainage channel at southwest corner of TSCA.

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
35	9/29/2023

Direction Photo Taken

East

Description

South drainage channel along south embankment. Sand is migrating into part of the channel from the south.

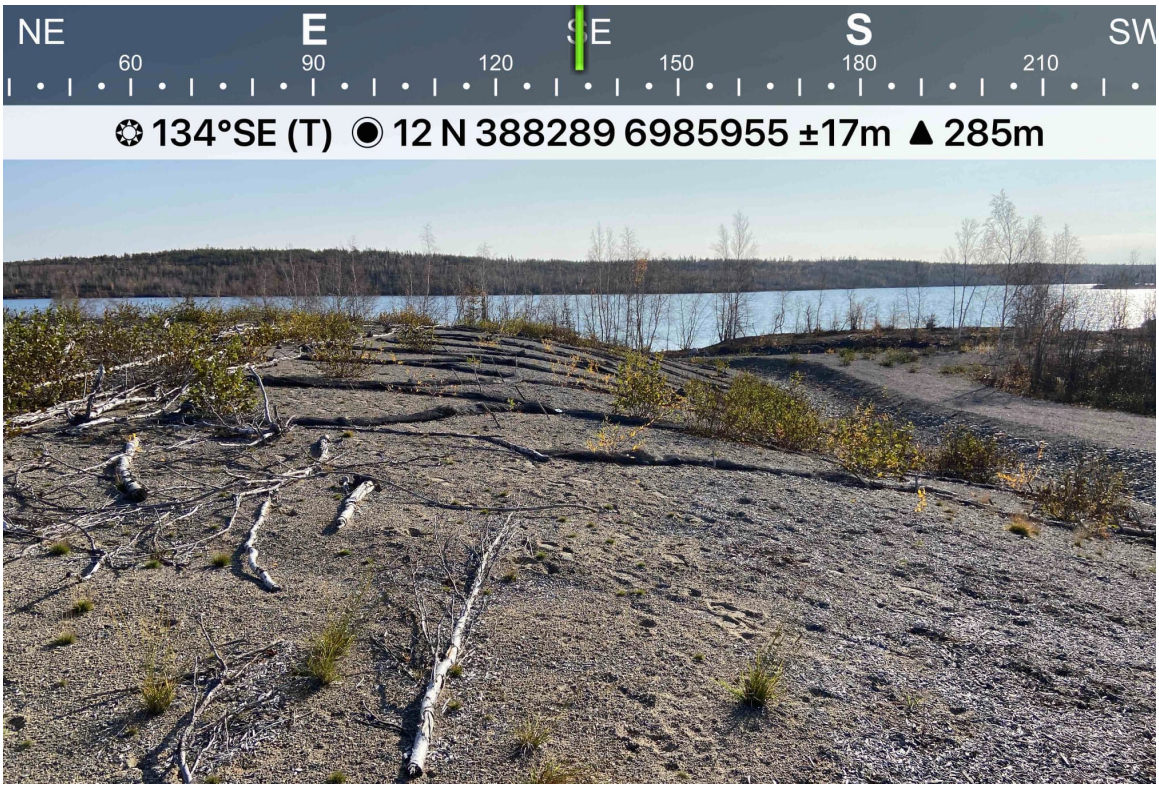
Photo No.	Date
36	9/29/2023

Direction Photo Taken

Southeast

Description

South embankment with erosion logs, willow branches and some vegetation.



Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
37	9/29/2023

Direction Photo Taken

Northwest

Description

South embankment and drainage ditch.

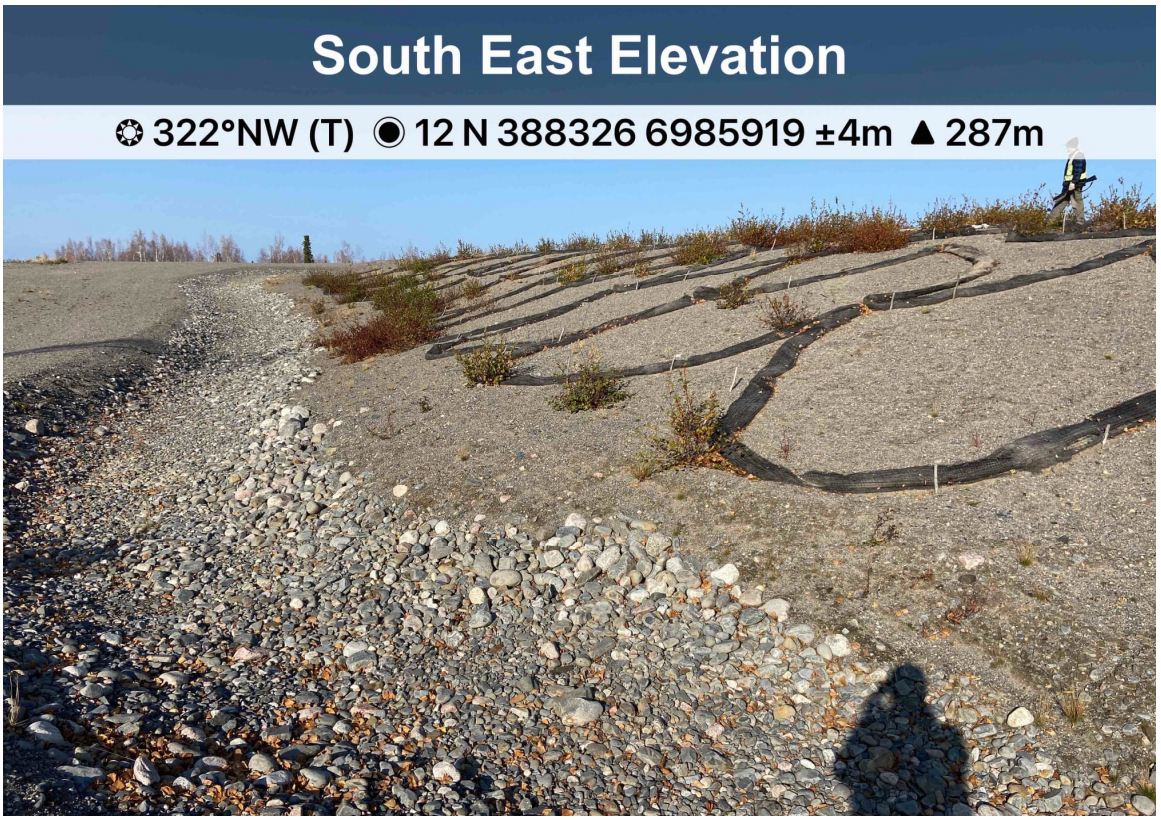


Photo No.	Date
38	9/29/2023

Direction Photo Taken

South

Description

Erosion log on south embankment – degraded and loose.

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
39	9/29/2023

Direction Photo Taken

North

Description

Bunched erosion coir logs.

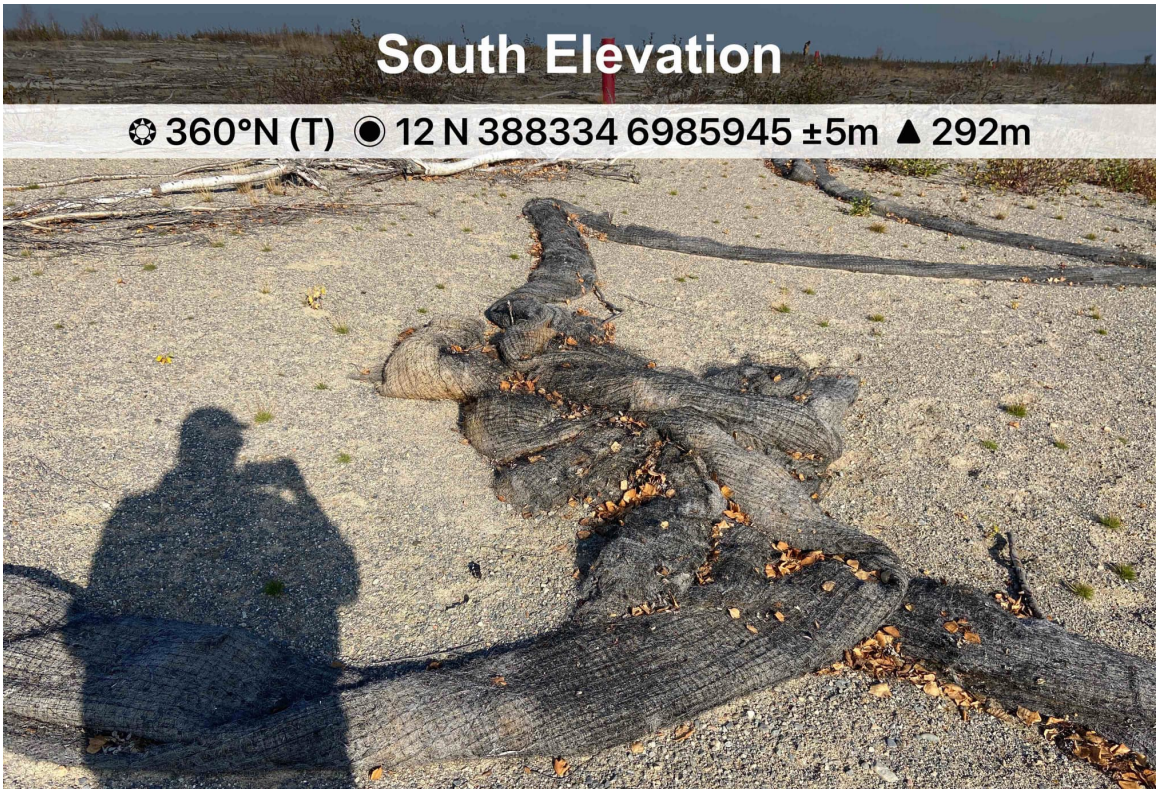


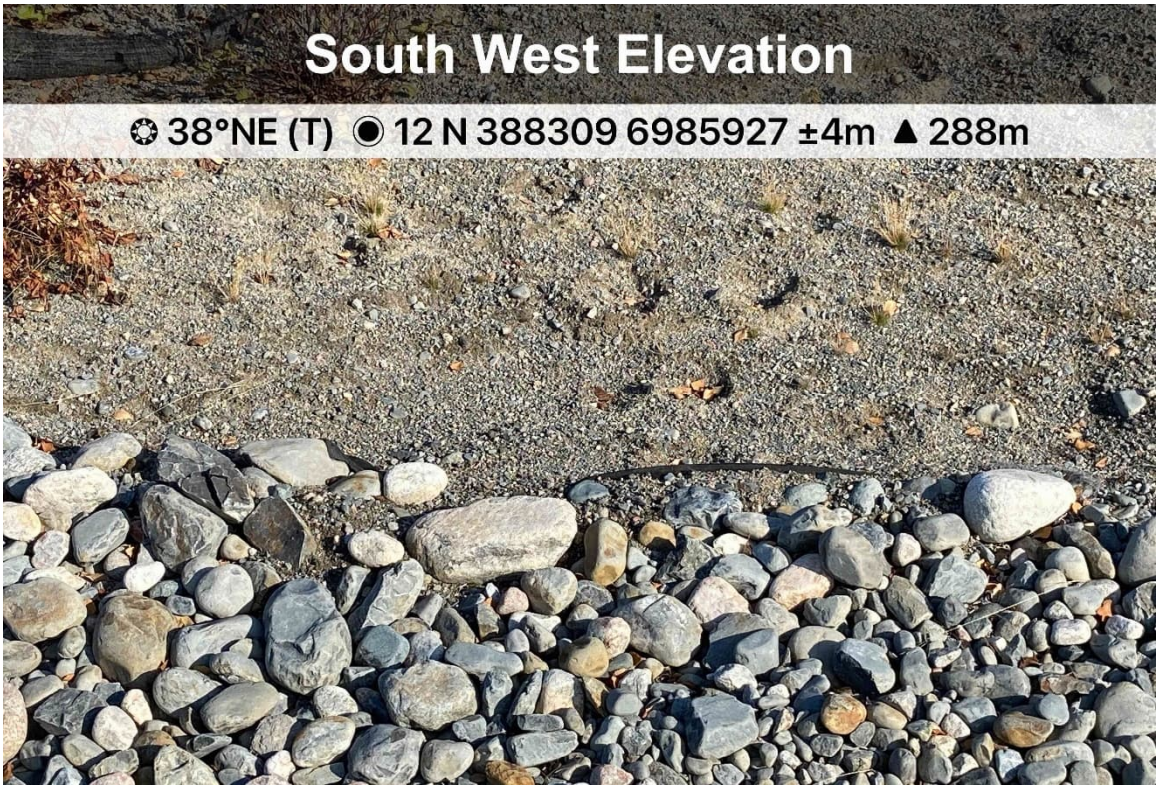
Photo No.	Date
40	9/29/2023

Direction Photo Taken

n/a

Description

Bituminous membrane is visible along south embankment near station 0+340.



Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
41	9/29/2023

Direction Photo Taken

n/a

Description

Foxes have been digging in and around the TSCA including several locations on top of the pile.

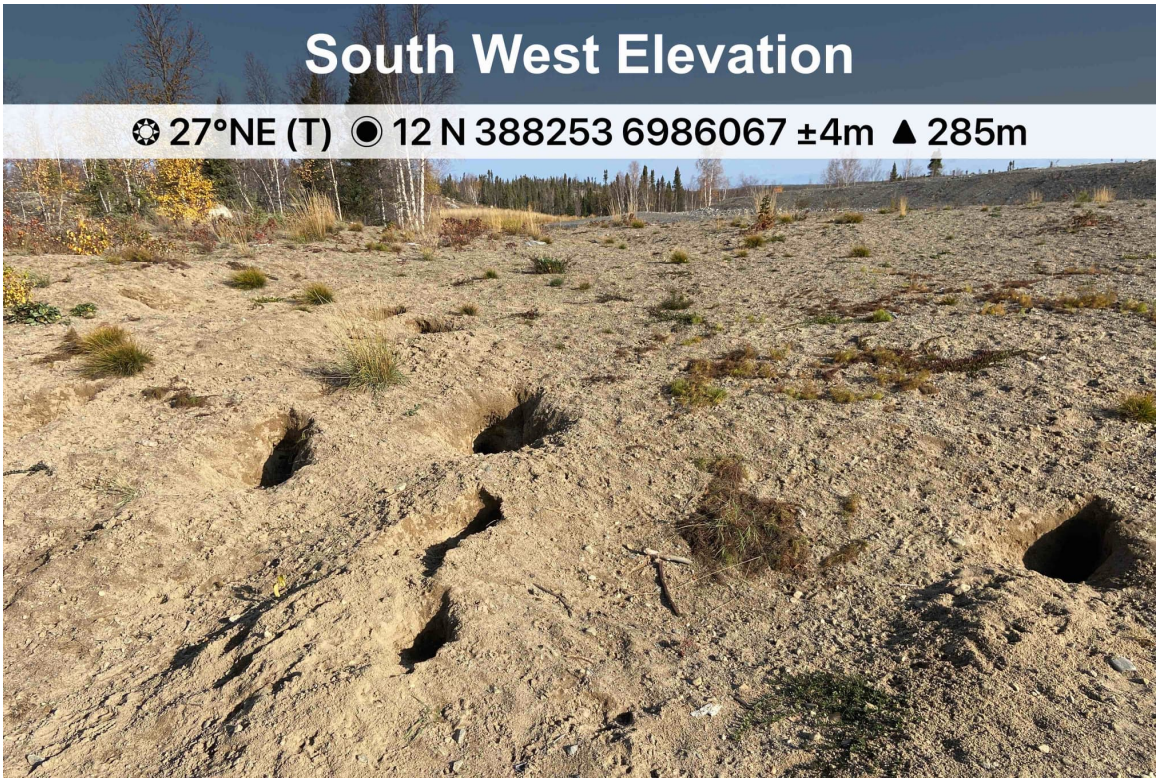
Photo No.	Date
42	9/29/2023

Direction Photo Taken

Northeast

Description

Numerous fox holes and dens west of the TSCA.



AECOM

PHOTOGRAPHIC LOG

Site Name:	Site Location	Project No.
Camlaren Mine Site – Geotechnical Inspection	Gordon Lake, NT	60710609

Photo No.	Date
43	9/29/2023

Direction Photo Taken

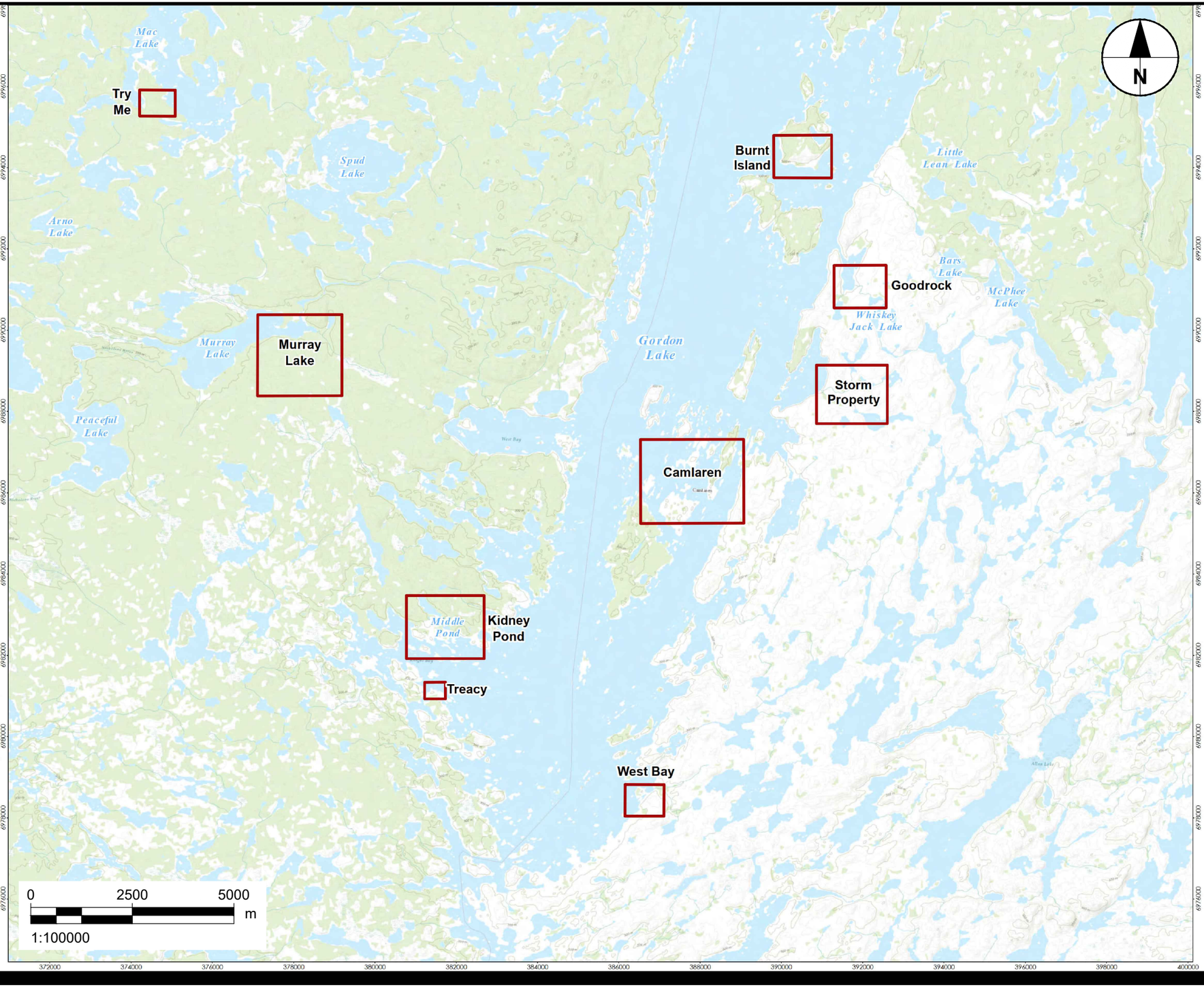
n/a

Description

Oil-stained soil west of TSCA.

Appendix B

Figures



Legend

Site Location

NOTES:

1. COORDINATES BASED ON NAD83 UTM ZONE 12.

SOURCE:
FIGURE GRAPHIC FROM "FINAL REPORT: PHASE I LONG-TERM MONITORING PLAN - GORDAN LAKE GROUP OF SITES", PREPARED BY STANTEC CONSULTING LTD., DATED DECEMBER 19, 2018.

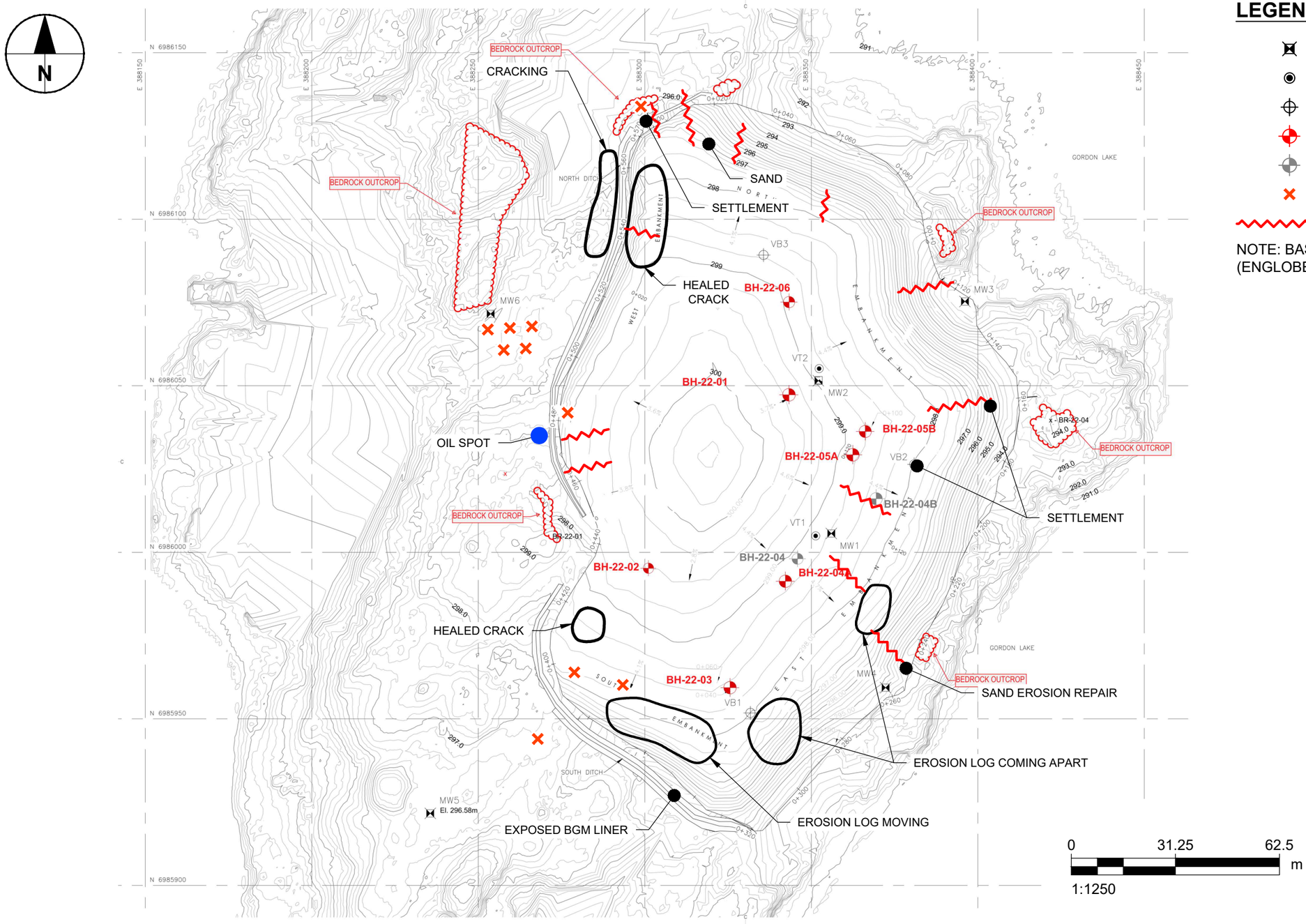
Issue Status: FINAL

Gordon Lake Group
Camlaren Mine TSCA Geotechnical Inspection
Crown-Indigenous Relations and Northern Affairs Canada
Project No.: 60710609 Date: 2024-04-04

SITE LOCATIONS

AECOM

Figure 1



LEGEND

- MONITORING WELL
- THERMISTOR
- VIBRATING WIRE PIEZOMETER
- BOREHOLE LOCATION (ENGLOBE, 2022)
- BOREHOLE LOCATION (ENGLOBE, 2022)
- ANIMAL HOLE
- EROSION CHANNEL

NOTE: BASE PLAN USED FROM ENGLOBE REPORT (ENGLOBE, 2023)

Issue Status: FINAL

Gordon Lake Group
Camlaren Mine TSCA Geotechnical Inspection
Crown-Indigenous Relations and Northern Affairs Canada
Project No.: 60710609 Date: 2024-04-04

CAMLAREN MINE TSCA
SITE PLAN

AECOM

Figure 2

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