



# Central Mine Remediation

**From Vision to Achievement**

**Justin Kong, OAM Program, Manitoba Environment and Climate Change**

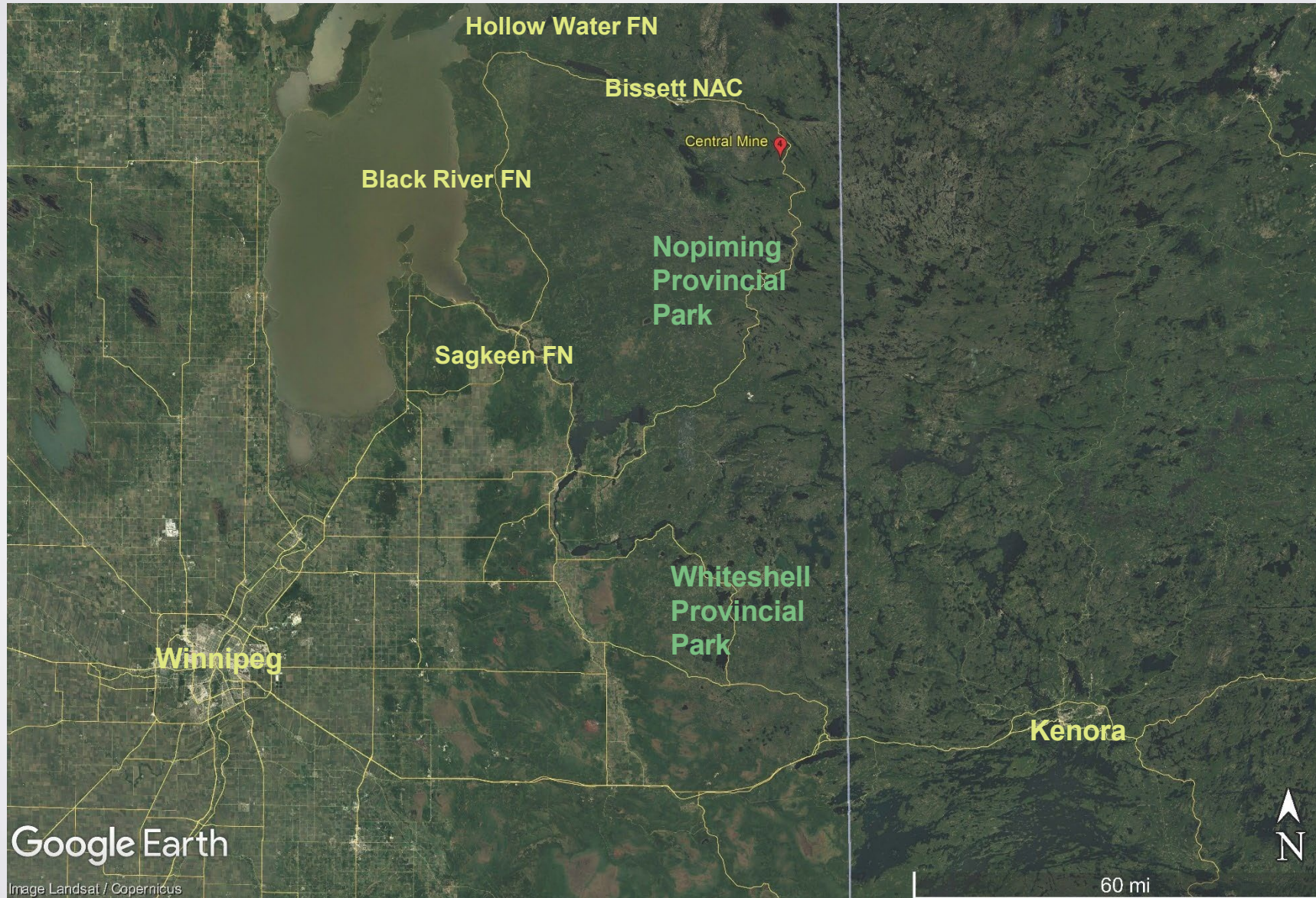
**2<sup>nd</sup> Annual OAM Workshop – Oct 24, 2024**



# OVERVIEW

- ▶ Part 1 - PROJECT INTRODUCTION
- ▶ Part 2 - CHALLENGES AND SOLUTIONS
- ▶ Part 3 - PROJECT PROGRESS

# Site Location



# Nopiming Provincial Park

- Private lodges
- Cottage communities
- Hunting and fishing



# Background

Remediations works previously completed at site including:

- Reconstruction of PR304 with Bituminous Geomembrane Liner
- Tailings capping on east side of the highway



# PART 2

2<sup>nd</sup> OAM Workshop

## PROJECT CHALLENGES AND SOLUTIONS

Engage stakeholders early to discuss remedial solutions and provide project updates to stakeholders on a regular basis.

**September 2023  
Prior to Construction**



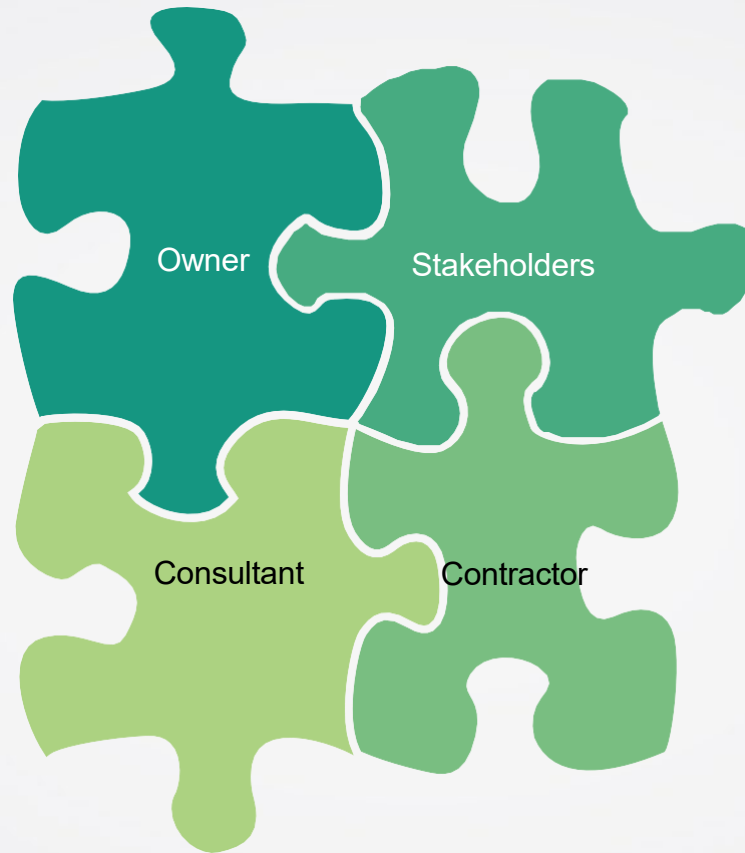
# Project Team Members

## Manitoba OAM

Project Manager: Cory Graham  
Project Sponsor: Morgan Hallett

## Consultant

KGS Group  
Sub: ODK (survey)



## Internal Stakeholders

Parks: Park Permit  
Forestry: Timber Permit  
Historic Resources Branch: HRB  
Approval Crown Land Management  
Wildlife Branch  
Mines Branch  
Local Conservation Office

## Local Communities

Hollow Water First Nation  
Black Water First Nation  
Sagkeng First Nation  
Bissett Northern Affairs Community  
Cottage Owners Associations  
Adjacent Mining Companies  
Manitoba Metis Federation

## Contractor

Prime: Sigfusson Northern  
Sub: Titan (geomembrane)



# Feedbacks from Previous Work

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Feedbacks from previous works:

- Improve communications with stakeholders and local communities.
- Clay borrow development created significant disturbance to local communities.
- Soft tailings surface was challenging for clay compaction. Also created tailings tracks on highway.

# Communication

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- **Requirement:** Obtain permits and approvals from stakeholders without delaying the project
- **Solution:**
  - Internal Stakeholder:
    - Active communication, involve stakeholders early in design phase.
    - Create meetings to clarify project scope
    - Push communication: create project channel on MS Teams, post project updates regularly.
  - Local Communities:
    - Sending notification letters regularly
    - Communicate and answer questions

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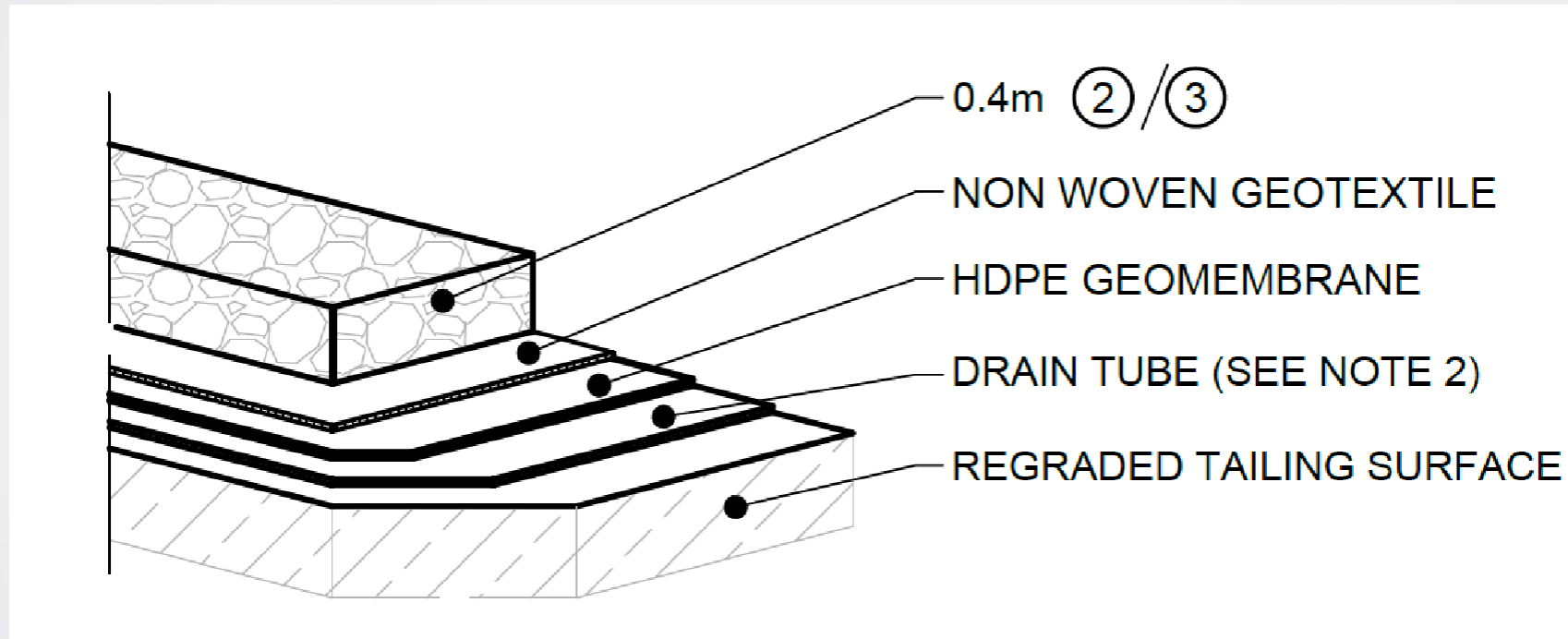
## Local Communities

Hollow Water First Nation  
Black Water First Nation  
Sagkeng First Nation  
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# HDPE Liner

**Requirement:** Capping 125,000 m<sup>2</sup> mine tailings with no clay

**Solution:** High-density polyethylene (HDPE) geomembrane (liner)



# Soft Tailings

**Requirement:** Manage the risk of soft tailings that may impact construction schedule.

**Solution:** Notified all potential risks in Mandatory Virtual bidders meeting with proper documentations. Review contractor's construction plan.



# Project Solutions

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## **Local Economy Development:**

- Tendering: Target 10% of the construction contract value delivered by indigenous involvement.
- During construction:
  - Contractor hired workers from nearby indigenous communities.
  - Consultant hired indigenous business for survey works.
- After construction: planning local engagement for potential long-term maintenance works (e.g. tree planting, revegetation)

# PART 3

2<sup>nd</sup> OAM Workshop

## PROJECT PROGRESS

September 2023 to October 2024

Sept 15, 2023







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## Winter 2023:

- Kitchener Shaft Capping
- Produce rockfill
- Stockpile on site



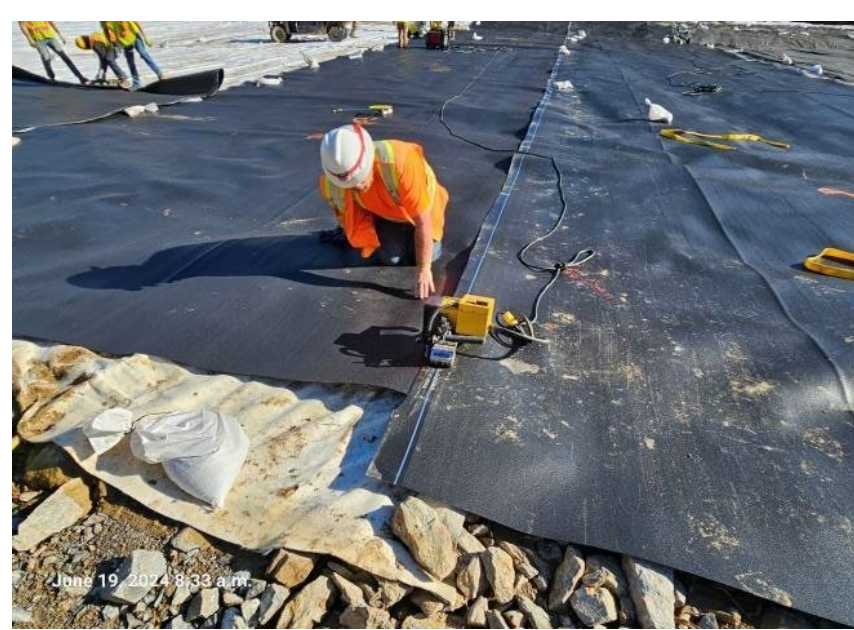


Provincial Rd 304

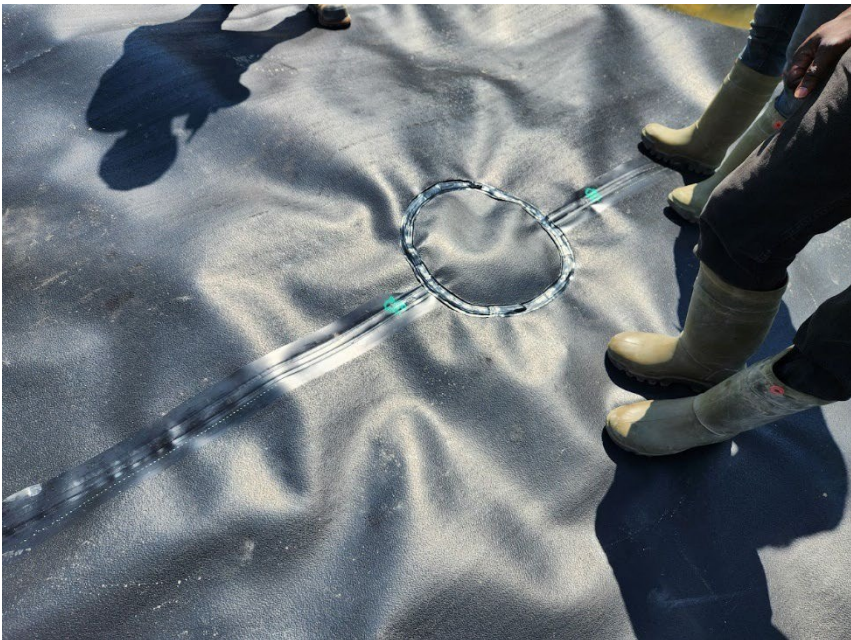
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1. Drain tube textile



2. Wedge welding HDPE Liner



3. Identify weak weld with pressure test and repair with a patch



4. Seamed geotextile with hot guns



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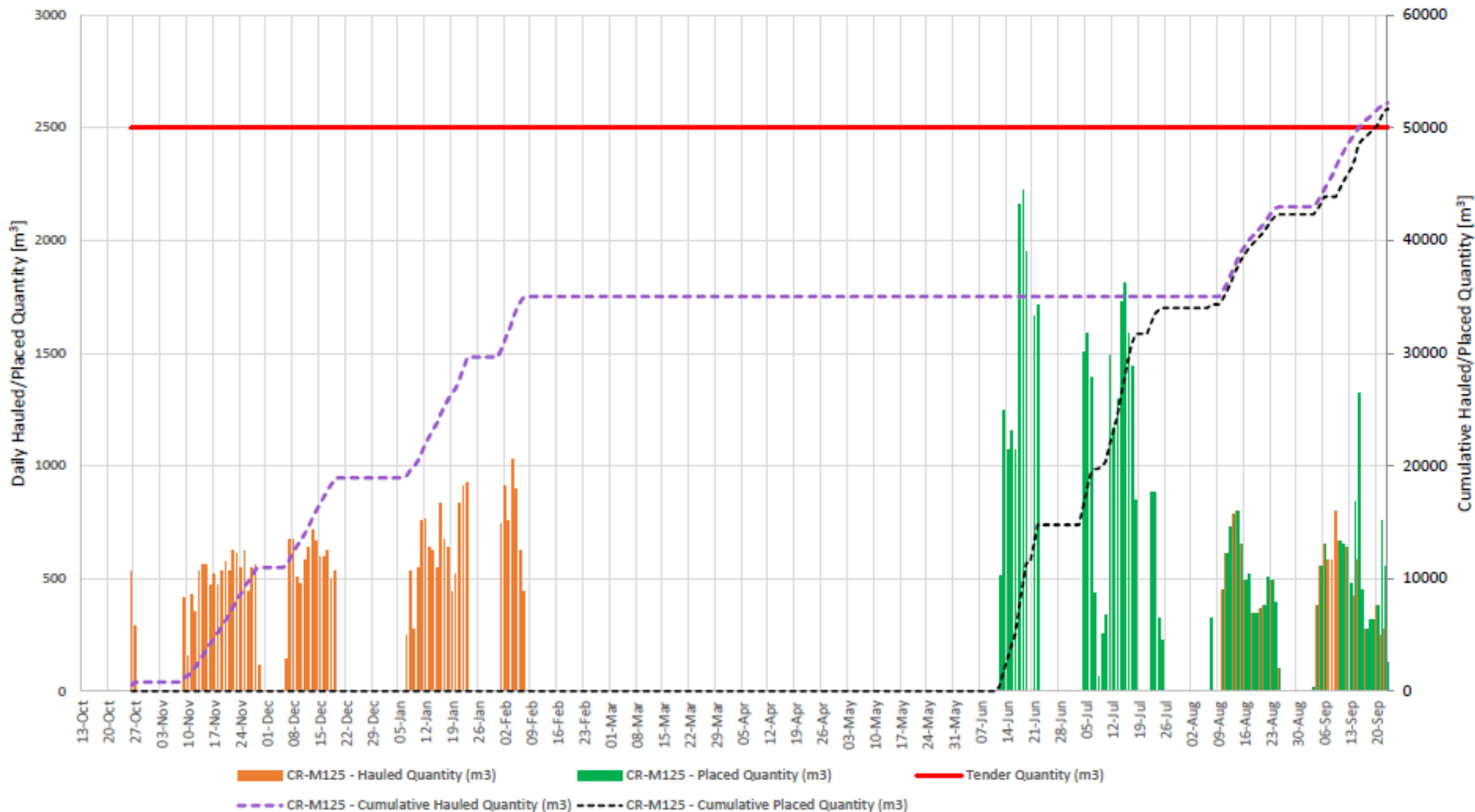
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June 23, 2024



# Material Tracking

## Status of CR-M125 Placement



July 10, 2024



August 8, 2024







**Anchor Trench Installation with Clay Compaction**

October 18, 2024







**THANK  
YOU  
MERCI**

**Manitoba Environment and  
Climate Change**