

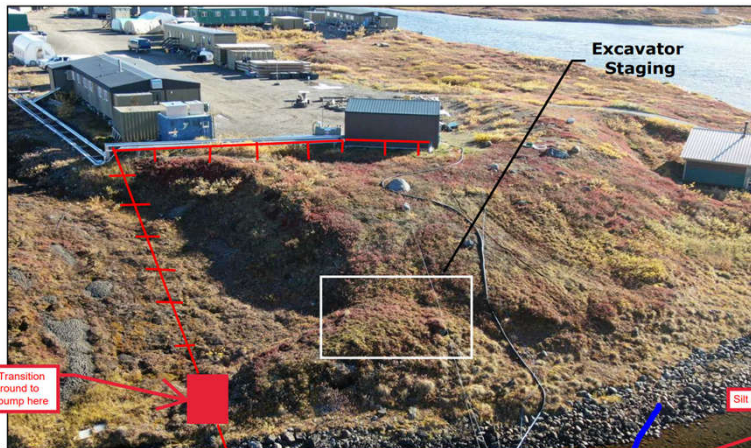


# Toolik Field Station

Battelle ARO FEMC

Field Season Projects

- 2023 Recap
- 2024 Summary
- 2025 Look Ahead



## 2023 Project Recap

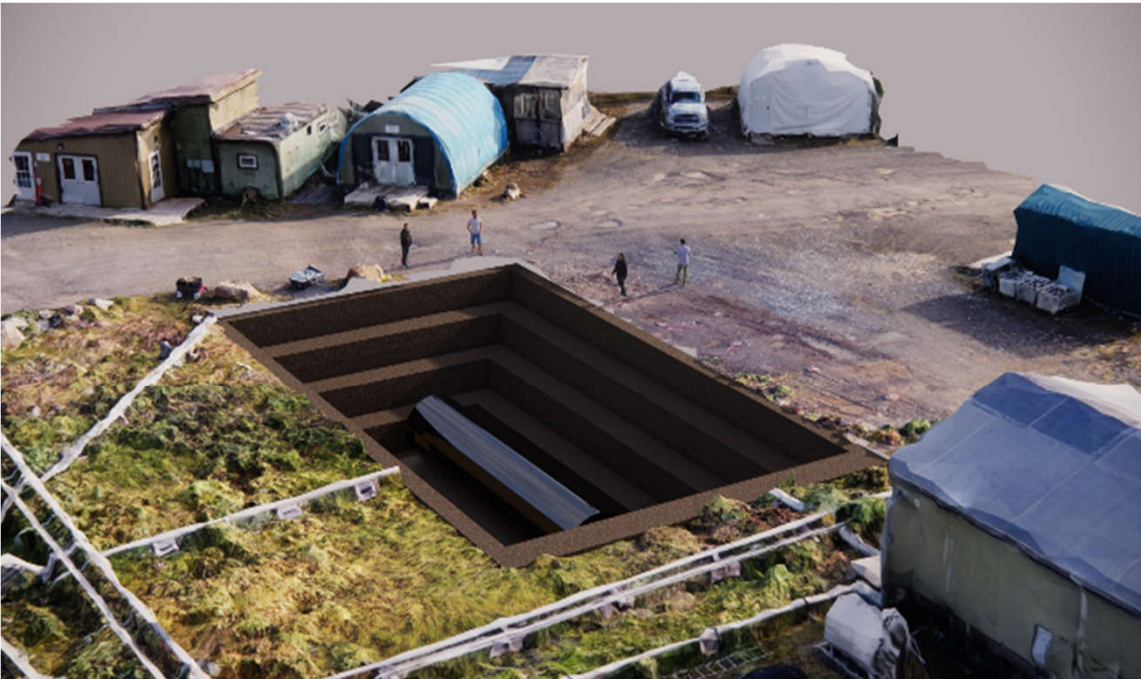
- Washeteria Commissioned
- Gen Mod Fire Suppression Replacement
- Toolik Water Intake
  - Thank you to Toolik Staff, GIS Department, the EDC
  - Thank you to the Science Community for input and support of the project





# The Big 2024 Project

## Central Sewage Tank Replacement



Conceptual sketch of site excavation using a benched excavation method to prevent cave ins. Sketch also demonstrates scale of the tank and excavation to nearby structures for consideration during construction.

### Late Spring:

- Disconnect Shower Module – OFFLINE for SEASON
- Set up Temp Waste Tanks for Dining Hall and Medical
- Prep site for Fall Start

### Fall:

- New Tank arrives – Pressure test tank
- Shift Dining Hall and Medical to temp tanks
- Begin Excavation of old tank and install of new

# Central Sewage Tank (cont'd)

## The Details

### 1. Safety

- Crew and Community in and around an active Construction Site

### 2. Impact on Community

- Water usage in the Dining Hall
- Trucks, equipment, and materials on the pad
- Subcontractors onsite

### 3. “What Ifs”

- Possibility of Tank delay and impact on the schedule and season
- If the Tank is compromised, remediation materials will be onsite
- Working with TFS/NSF/HSE to come up with best path forward if there is remediation work



# 2024 Key Projects

- **Washeteria**
  - Punch List items and vestibules
  - Mop sink and interior door
- **Tent City Outhouse**
  - New building
  - New tanks
- **Wet Lab Roof**
  - New sheathing
  - Add eaves
  - New EPDM roof



Aerial view of Wet Lab roof to illustrate multiple roof penetrations and curb details required around exhaust duct work.



Aerial view of existing Tent City outhouse tower.



One of two Washeteria entrances to receive a





FEMC crews making annual repairs to a section of boardwalk near Toolik Field Station.

## Other 2024 Projects

- Install a new furnace and hot water heater in Wet Lab
- Dining Hall general maintenance with work on the restrooms
- Winterization work on Winter Quarters
- Punch list of items on the Water Intake System
- Leveling of Labs and other buildings on Station
- Install of a new fuel meter for TFS
- Boardwalk
- General Preventative Maintenance on all Buildings

## 2024 Science Support Projects

- Evans – removal of project boardwalk and weirs
- Griffin – LTER BW maintenance and repair and greenhouse removal
- Rocha – boardwalk
- Moody – removal of BW and PV from sites
- Science unplanned tasking – has been removed from budgets to cut costs, so please work with your PI and PM to plan accordingly.



Example of Griffin LTER boardwalk to be inspected and repaired. Also pictured are greenhouse structures that will be deconstructed and removed.



FEMC crew member prepares boardwalk to be removed via helicopter.



## Looking Ahead – 2025

- APP25 Projects
  - Begin thinking and planning now
  - During the Season – see something, say something
  - Engineering efforts underway
    - Winter Quarters Waste Tank
    - Toolik Garage Floor
    - Musk Ox HRV
- On Site Toolik Annual Meeting
  - Penciled for June 5<sup>th</sup> 2024
  - Earlier for Better Scope Definition/Efficiencies
- Working together to maintain and improve Toolik as a great place to do Science