

February 23, 2022

Community Liaison Advisory Committee Meeting

Clean Harbors Lambton Facility

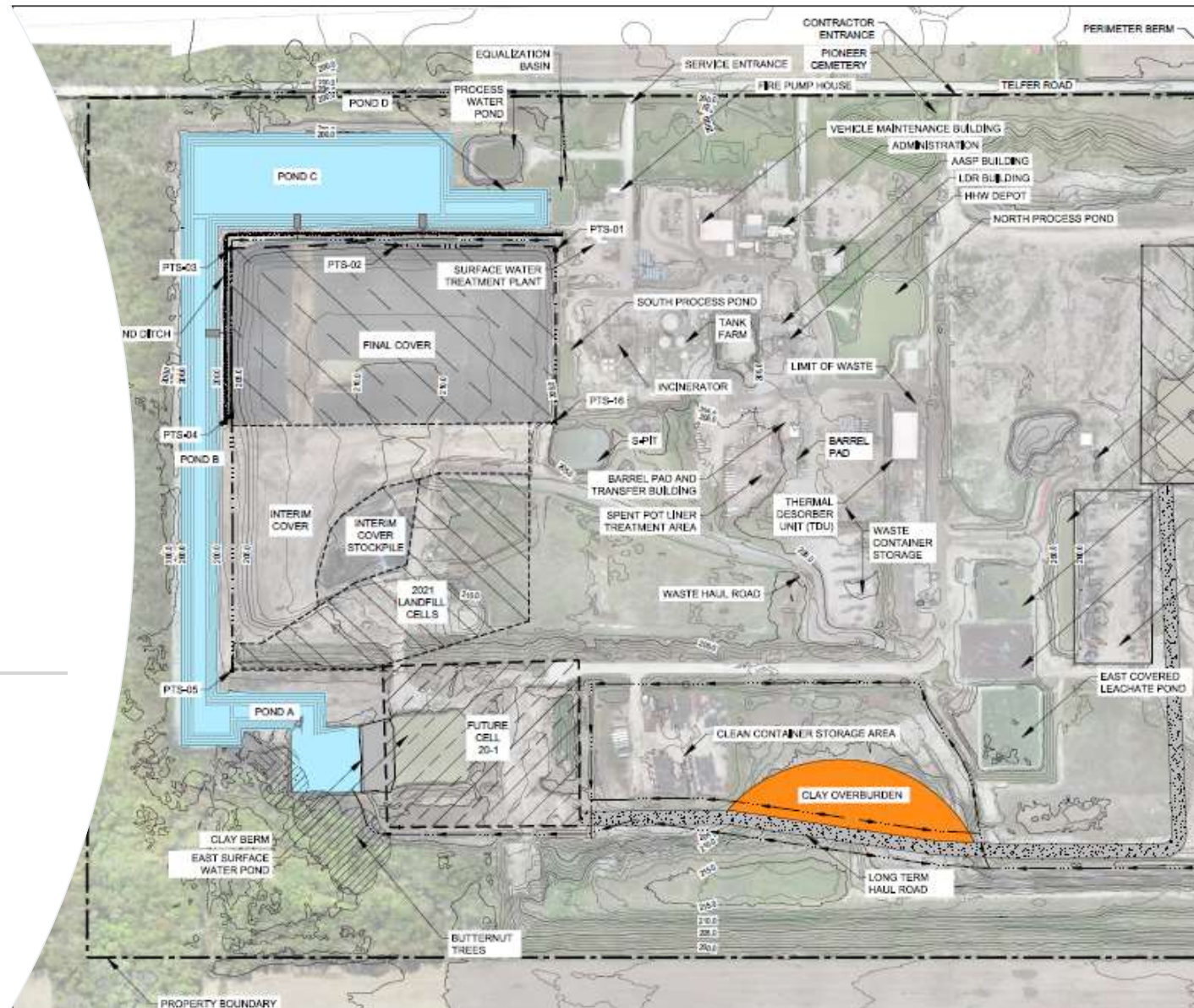


Agenda

- Introduction
- Updates
 - General Updates
 - Landfill
 - Thermal Desorber Unit
 - Incinerator
 - Compliance
 - Ministry of the Environment

General Facility Updates

JR



General – Leachate Permit Application

- Leachate treatment application to treat the leachate generated on site and dispose of the treated leachate through high temperature evaporation within the incinerator quench zone.
- Anticipated that it will be approved by this spring and will expeditiously procure and install once approved
- This is exciting news for our facility!
- We are hopeful that this will allow us to remove 2/3 of our leachate ponds and provide long term solutions to leachate management issue.

General – Landfill Expansion

- The below grade landfill expansion of cell 20-1 collapsed suddenly in August 2021.
- Geotechnical Evaluation and Remedial Plan of Cell 20-1 collapse was completed and determined that the root cause was a rotational plane and that landfilling of the cell may resume.
- To confirm conclusions Clean Harbors has hired a peer review consultant to provide a second opinion to ensure there is no potential risk in the future.
- Questions?



An aerial photograph of a large industrial facility, likely a landfill or waste management plant, situated in a rural area with green and brown fields. The facility includes several large rectangular ponds, a central processing area with various structures and equipment, and a large area of excavated earth. A circular, semi-transparent white overlay is positioned on the left side of the image, containing the text 'Landfill' in red and 'Tom Weir' in black below a horizontal line.

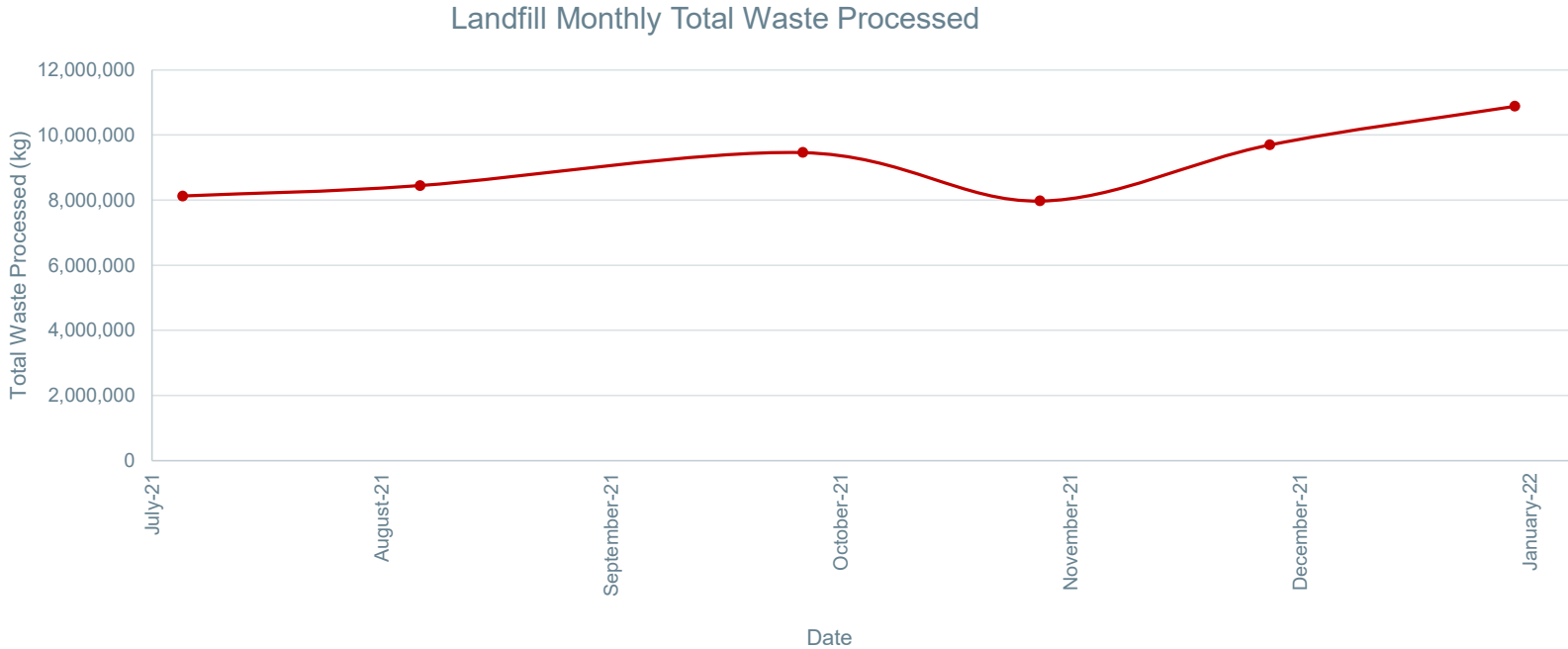
Landfill

Tom Weir

Landfill – Volumes

- Cell 20-1 Opened at the end of Dec 2021 after repairs and reinforcement
 - Worked closely with the MECP, consultants and 3rd party engineers to ensure the cell was safe and properly reinforced before putting into use
- Very strong demand for Landfill leading to increased volumes
 - Targeting >7300 tonnes per month for 2022 if demand remains high
- Have hired several additional employees to help meet increased demand

Landfill – Volumes



- Total received = 51,213,027 kg
- Total processed = 54,592,857 kg



Thermal Desorber Unit (TDU)

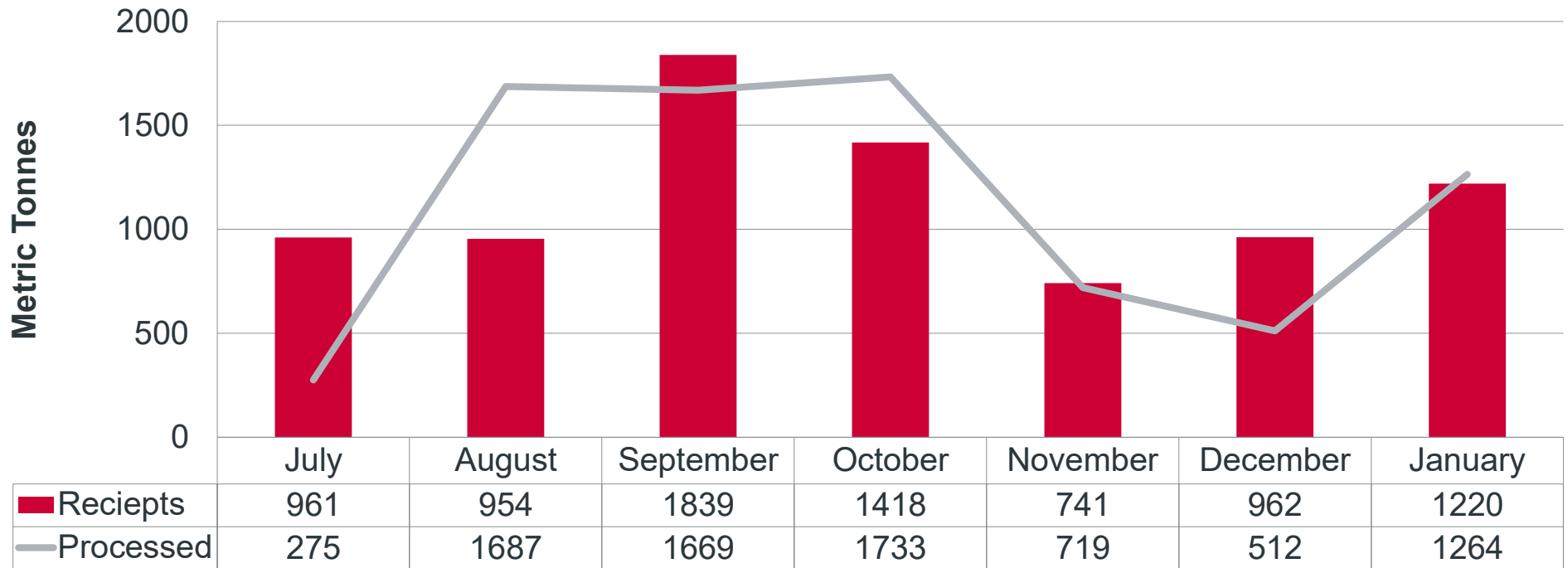
Levi Prior

TDU – Waste Volumes

- Inbound volumes have started to decline
 - Expected an estimated volume of 1,000 tons of inbound material monthly
- Lithium battery projects have begun
 - New battery feed system is currently being fabricated / installed
- Shutdown
 - Feed hopper repairs, drum repairs / alignment, vent line pigging, wash out, general maintenance
- Next scheduled shutdown will be in March of 2022

TDU – Volumes

6 Month Trend: 2021-2022



- Questions?

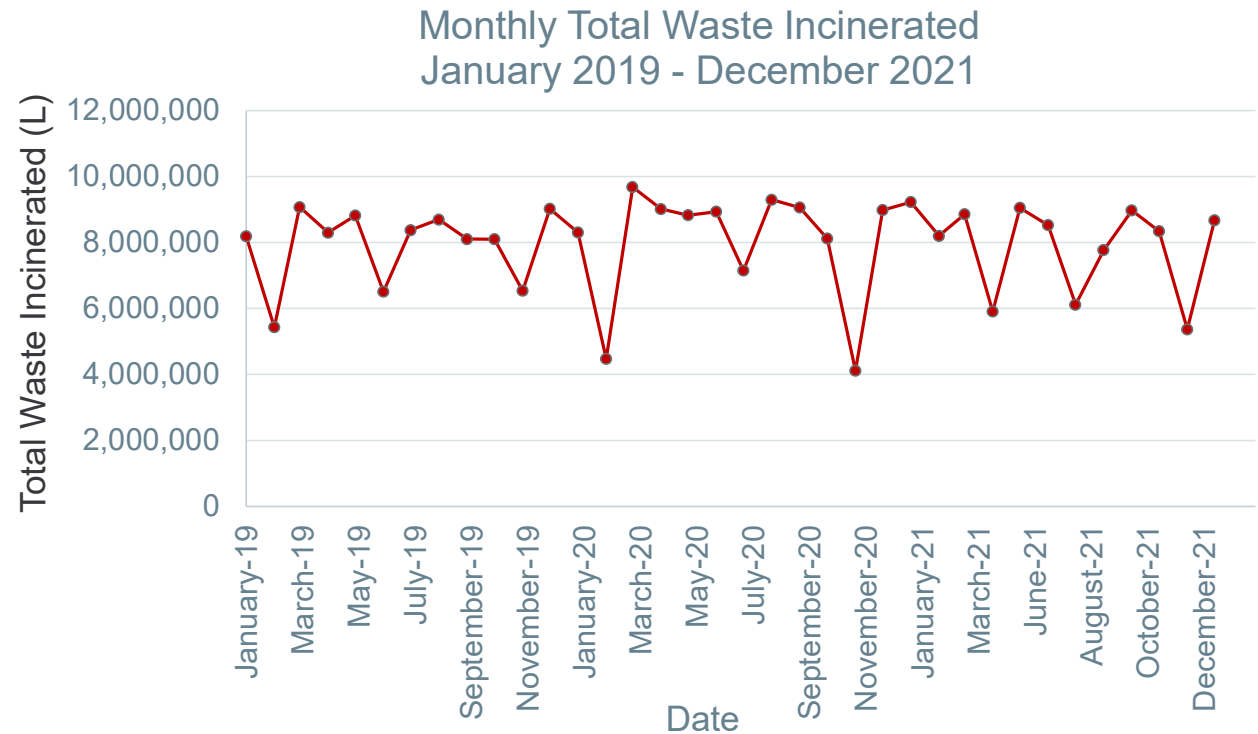
Incinerator

Dave Baulcomb



Incineration Performance

- The incinerator has been performing steady throughout the winter months
- Freezing of equipment and piping did occur but it had minimal effect on the operation
- Product remains steady for the past three years
- In 2021 there was a total volume of approximately 94,966,982 L throughput



Incineration Maintenance

- The incinerator was last shutdown in November 2021:
 - Refractory repairs
 - Cleanout of the duct work
 - Burner ash/slag removal
- The next shutdowns is scheduled for March/April of 2022 and will include:
 - Replacing the ID Fan inlet duct
 - Changing out bags/cages in filter house
 - Replacing the refractory in burner (if required)
 - Replacing the stack flu gas analyzer
 - Trial acid gas scrubber composition
- Stack replacement is being done “in kind” as per our mandate and is scheduled to happen in July 2022
- In 2023 planning for the addition of 2 new tanks for more efficient offloading and storage



Compliance

Mackenzie Costello

Compliance – Monitoring Programs

- The 2021 monitoring programs have all been completed.
- The annual incinerator stack test was conducted from September 14 – 16, 2021.
 - The report has been submitted to the MECP for review
- The 2022 groundwater monitoring program, quarterly inspections, biomonitoring and air monitoring program will begin in the spring/early summer
- The first mercury stack test is scheduled to be conducted on February 23, 2022
- The surface water monitoring program is dependent on the facility discharging treated water off-site.
 - The facility discharged off-site from December 24, 2021 – January 26, 2022



Ministry of the Environment - Update

Questions ?



40 YEARS



PEOPLE AND TECHNOLOGY CREATING A SAFER, CLEANER ENVIRONMENT

