



Community Meeting

November 30, 2023

5:30 – 7pm

m MINNESOTA POLLUTION CONTROL AGENCY

Pine Bend Landfill Proposed Vertical Expansion

Environmental Review

Air & Solid Waste Permitting

Presentation Agenda

Overview:

- Pine Bend Landfill location and background

Projects on Public Notice

- Environmental Assessment Worksheet
- Air Permit modification

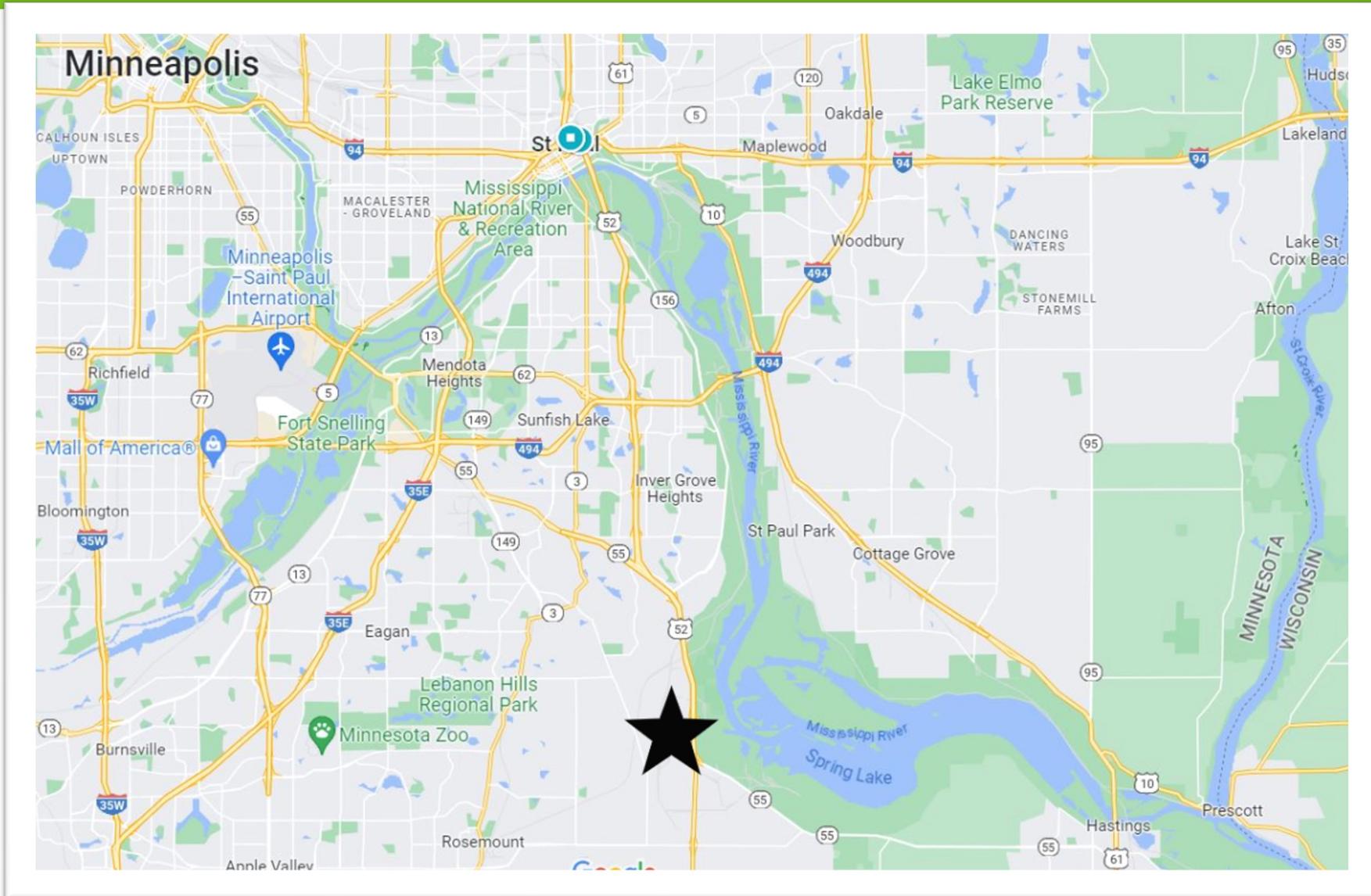
Status of Solid Waste Permit

Questions and Comments

- MPCA: Environmental Review – Megen Kabele, Project Manager
- MPCA: Air Permitting – Jared LaFave, Supervisor
- MPCA: Solid Waste Permitting – Abdi Hassan, Permitting Engineer
- Proposer: Pine Bend Landfill – Aaron Janusz, Environmental Manager



Pine Bend Landfill - Location





JCT US- 52 / MN 55

Flint Hills Resources
Oil Refinery

Pine Bend Landfill

N

- Municipal Solid Waste (MSW) Facility – mixed general waste
- Operating under MPCA Solid Waste Permit since 1971
- Facility = **255 acres**; Landfill Footprint = **198 acres**
- Owned by **BFI Waste Systems of North America, LLC**, a subsidiary of **Republic Services, Inc.**
 - Referring to site ownership as “**Pine Bend**” tonight

Project Proposal

- Vertical expansion over an **89-acre portion** of the Facility to extend the life of the landfill, which is nearing capacity.
- Expansion would **extend capacity** of facility by approximately 21 years
- Existing capacity **ends by 2027** at current waste acceptance rate

Project Requirements - MPCA

MPCA

- Environmental Assessment Worksheet (EAW)
- Air Permit - Part 70 Operating Permit revision
- Certificate of Need (CON)
- NPDES General Stormwater Permit - Industrial Activity
- Solid Waste Permit - Major Modification with Minor Amendments and Admin. Amendment



Project Requirements - Additional

Dakota County

- Solid Waste Facility License

Metro Council

- Industrial Discharge Permit

City of Inver Grove Heights

- Conditional Use Permit



Environmental Review



Purpose of Environmental Review

- Information gathering; not an approval process
- Evaluates potential for significant environmental effects to air, land, water, and climate
- Provides the public an opportunity to provide feedback on the project
- Guides future permitting decisions



Purpose of Environmental Review

A Mandatory EAW is required because the proposed vertical expansion is between 10 – 25% of the previously permitted capacity.

MN Rule Subp. 17 (F)

Expansion by 10% but less than 25% of previously permitted capacity of a mixed municipal solid waste land disposal facility for 100,000 cubic yards or more of waste fill per year.



Pine Bend Landfill Vertical Expansion Project – Existing Site

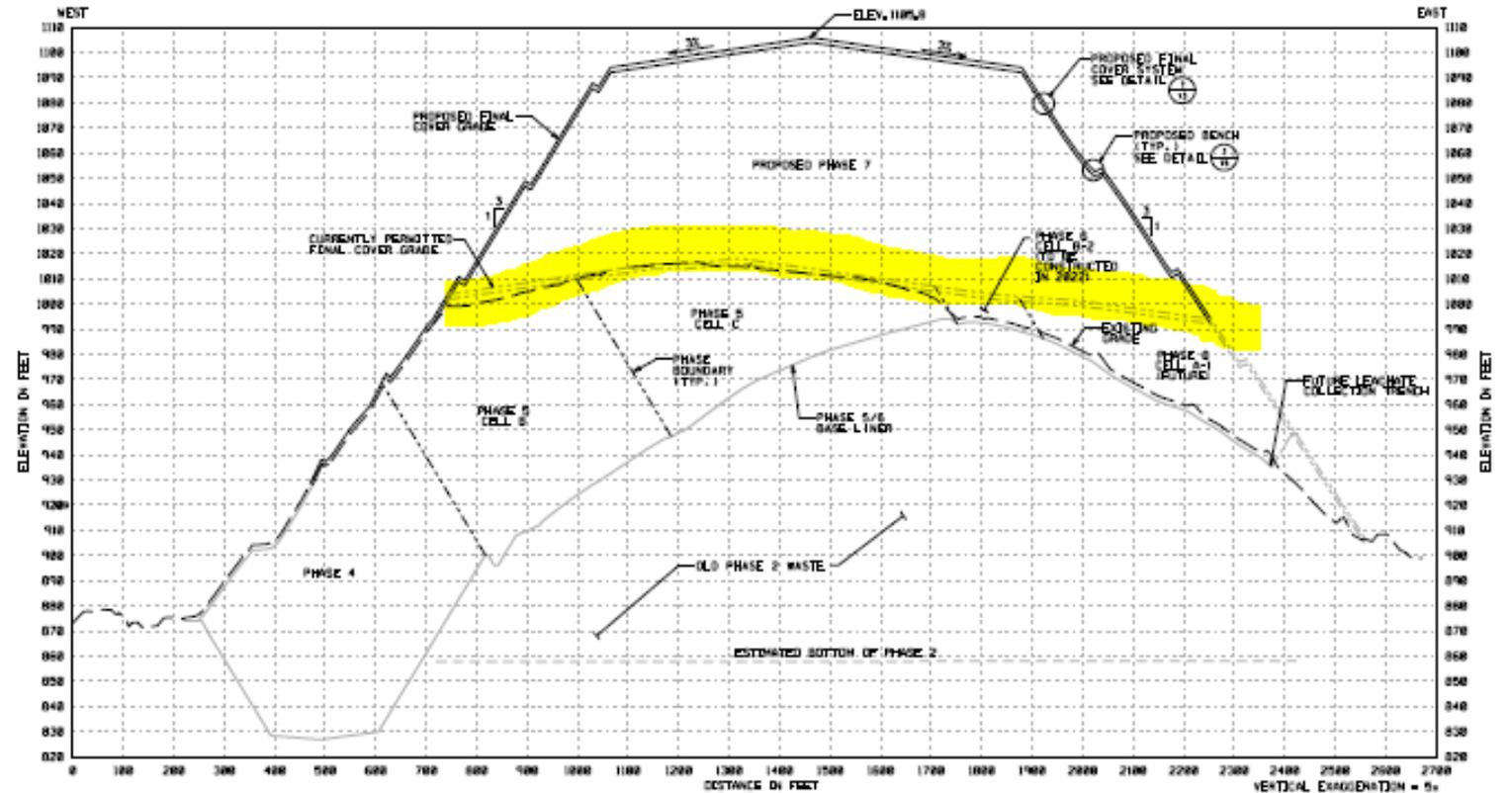
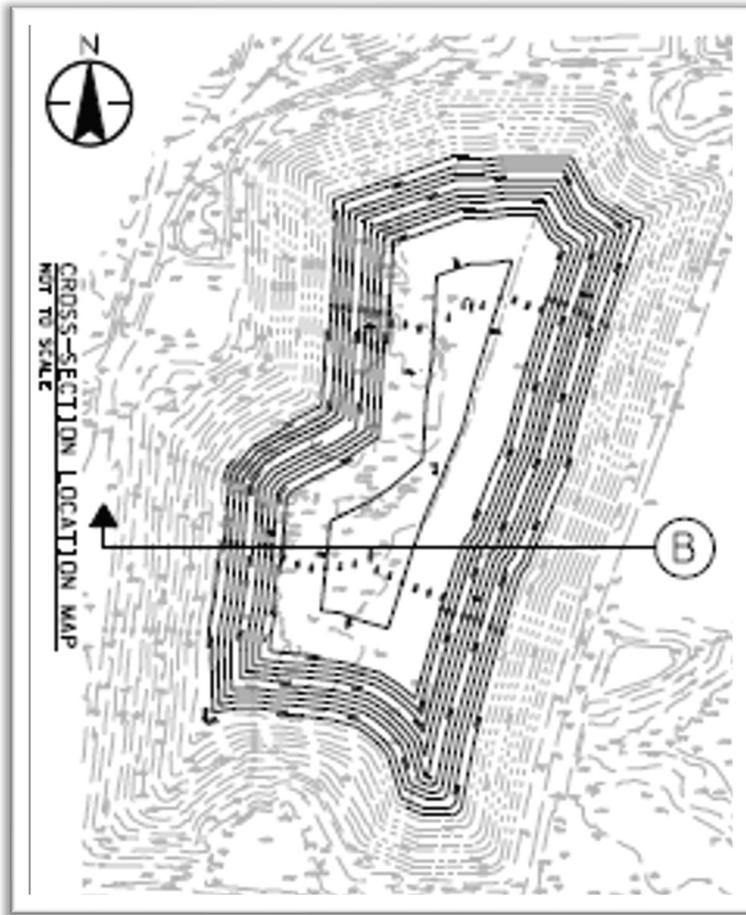


- Black Dash – Existing Facility Boundary
- Red Line – Vertical Expansion Area

Legend

- Proposed Project Area
- Pine Bend Landfill Property Boundary
- Railroads
- Metro Region Trails/Bikeways Trail Status
 - Planned
 - Existing
- Metro Region Parks
- NPS Mississippi River Recreation Area
- MnDNR - Management Units
 - Scientific and Natural Area - SNA

Pine Bend Landfill – Proposed Vertical Expansion



Cross Section

- **Highlight** shows current permitted height
- Proposed increase of 85 ft

Pine Bend Landfill Vertical Expansion Project – Existing Site



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105th St. E./Barnes Avenue





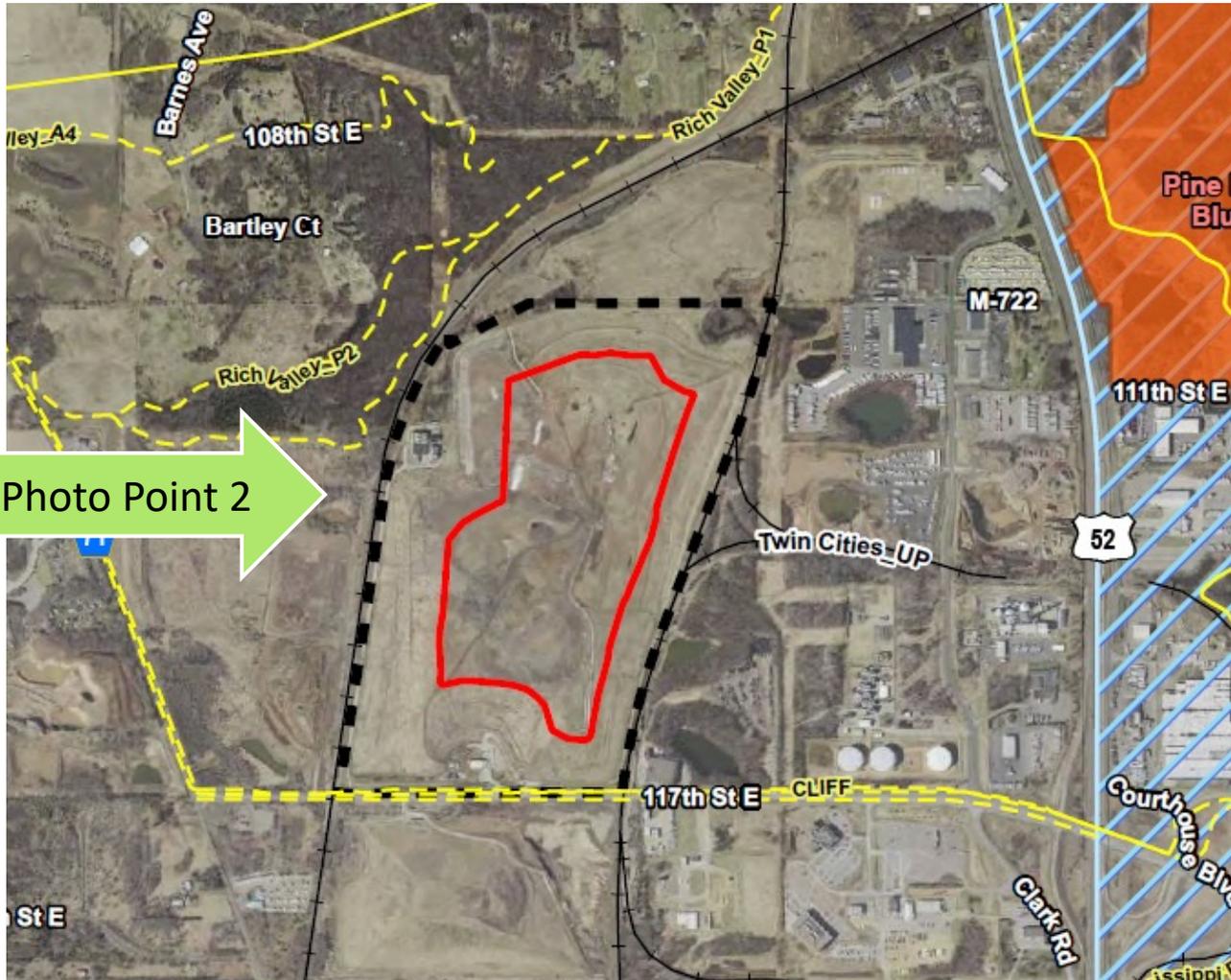
Pine Bend Landfill Expansion
Inver Grove Heights, MN

View of Proposed Landfill Expansion from Rich Valley Athletic Complex

October 26, 2023



Pine Bend Landfill Vertical Expansion Project – Existing Site



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Pine Bend Landfill Expansion
Inver Grove Heights, MN

View of Existing Landfill from Rich Valley Blvd./Blaine Ave.

October 26, 2023





Pine Bend Landfill Expansion
Inver Grove Heights, MN

View of Proposed Landfill Expansion from Rich Valley Blvd./Blaine Ave.

October 26, 2023



Gas Collection and RNG Plant

Existing Infrastructure

Red Line – Proposed Expansion

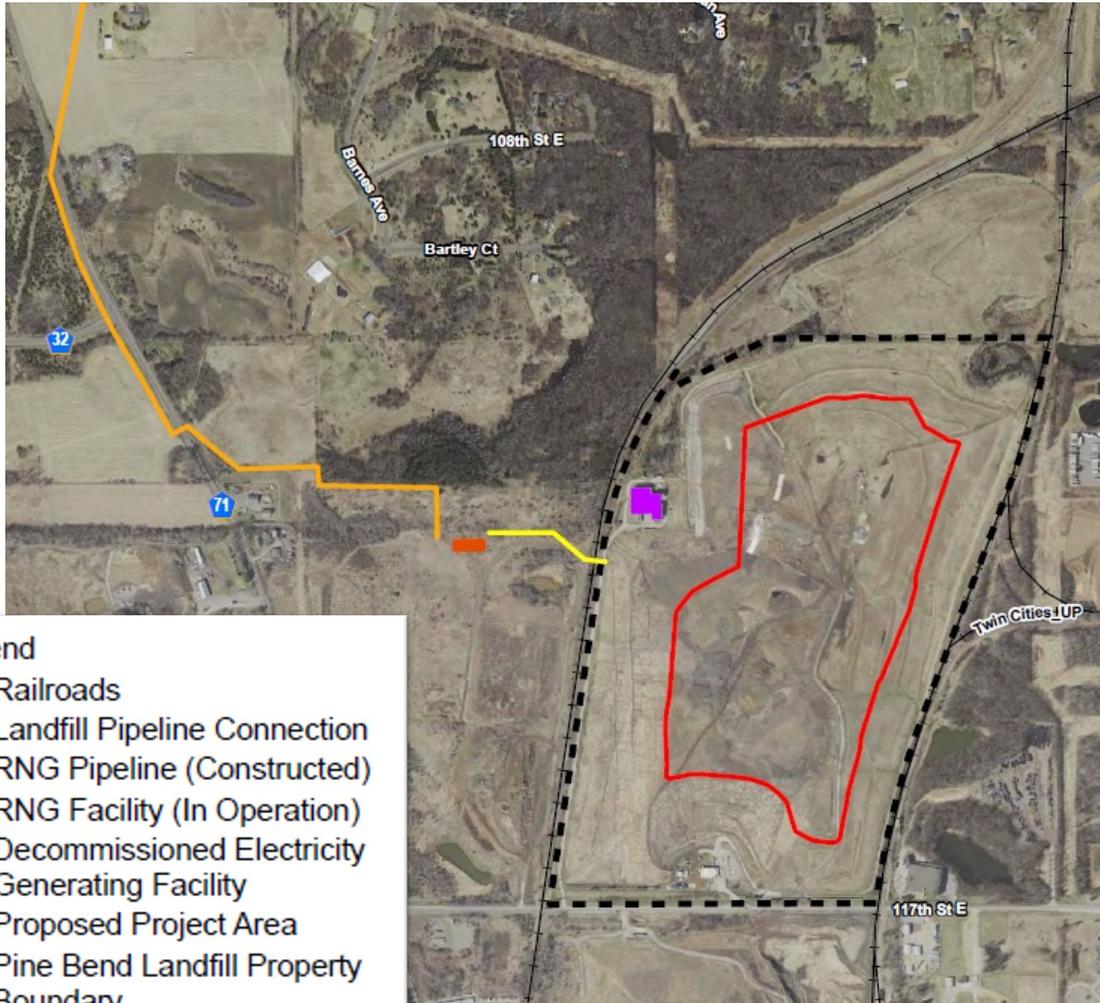
Yellow – Pipeline Connection to RNG Plant

Red Block – RNG Facility

Orange – RNG Pipeline to Northern States Power Company system

Proposed

- Gas collection updates within Vertical Expansion
 - Vertical well heads and lateral piping



- Landfill is not located within protection areas for wells or drinking water supplies.
- Pine Bend Landfill has an existing groundwater monitoring network in place and would continue to monitor groundwater quality.
- Leachate (liquid that seeps from landfill) generated will be collected by systems already constructed and in place. Transported offsite for treatment.

- New well heads are proposed to capture and transport methane gas via pipeline to an adjacent renewable natural gas facility.
- An existing liner system is in place over certain sections, but not all sections, of the landfill. A new composite liner is planned for future installation.

Pine Bend Landfill – EAW Commenting Period

Public Comment Period for the EAW:

- **October 31 – December 15, 2023**
- Comments must be in writing by close of comment period
- Submit comments hardcopy or online via SmartComment
- Website link provided at end of presentation and at tables



Environmental Review Decision

After Public Comment Closes:

- MPCA prepares “Findings of Fact” from environmental review, review & response to public comments, and any additional data gathered during comment period
- MPCA Commissioner decides whether additional Environmental Review is needed
- No permits may be issued until Environmental Review is complete and decision is made
- Findings of Fact sent to standard project mailing list plus all commenters

Air Permitting



Air Permitting

The facility's federal **Part 70 operating permit** is being reissued.

Facilities are required to apply for reissuance every 5 years.

A Part 70 permit addresses air emission sources at the entire facility (Landfill and RNG plant).



Public Comment is open
October 31 – December 15

Air Permitting

Three minor amendments to the Part 70 permit are addressed in this reissuance:

- Diesel tipper
- Renewable Natural Gas plant
- Air emissions from the proposed landfill vertical expansion



Public Comment is open
October 31 – December 15

Air Permitting

Draft permit is available for review online, see QR code for link

Public Comment ends midnight Dec 15

Staff available to answer questions



Public Comment is open
October 31 – December 15

Solid Waste Permitting



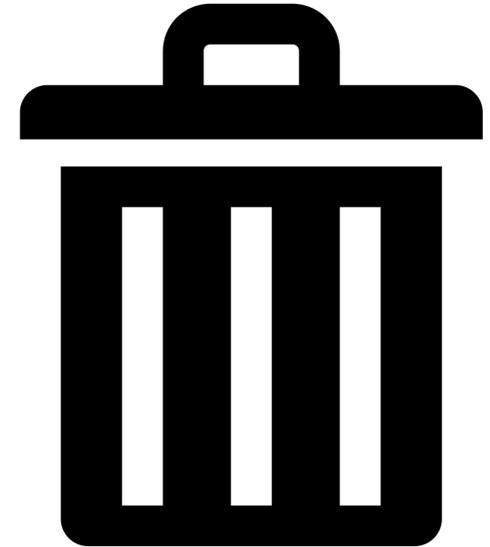
Solid Waste Permitting – Major Modification Application

In December 2022, the facility had a remaining capacity of about 851,000 cubic yards and an operating life of 3.5 years.

Current Permitted Capacity = 33.9 Mcy

Proposed vertical expansion = 8.2 Mcy
(includes final cover)

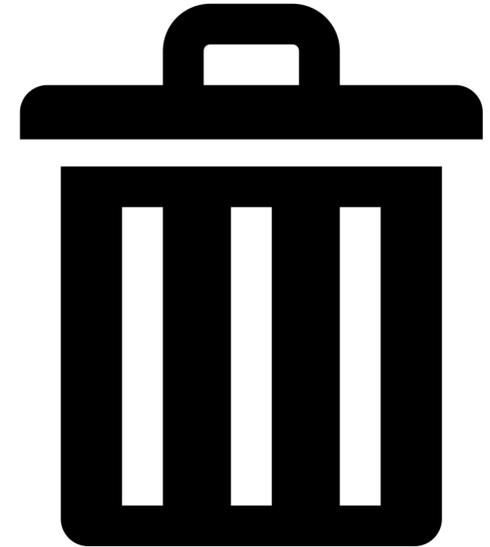
Total proposed site capacity = 42.1 Mcy



Solid Waste Permitting – Major Modification Application

The proposed **Solid Waste Design Report** within the permit application contains the geotechnical analysis of

- a vertical expansion continuing a 3:1 final cover slope build-out over the site
- the proposed leachate collection system
- an overview of the existing and future active gas collection system.



Solid Waste Permitting Status

The City of Inver Grove Heights recently submitted comments to the draft application. MPCA will be awaiting response from Pine Bend.

MPCA to consider changes requested by the City Council, then to public notice.

Public Comment on the Solid Waste Permit will begin in **January/February 2024.**

Public Comment Period: Oct 31 – Dec 15



EAW



Air Permit

Questions?

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Jared LaFave | Air Permitting Supervisor

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Abdi Hassan | Solid Waste Project Manager

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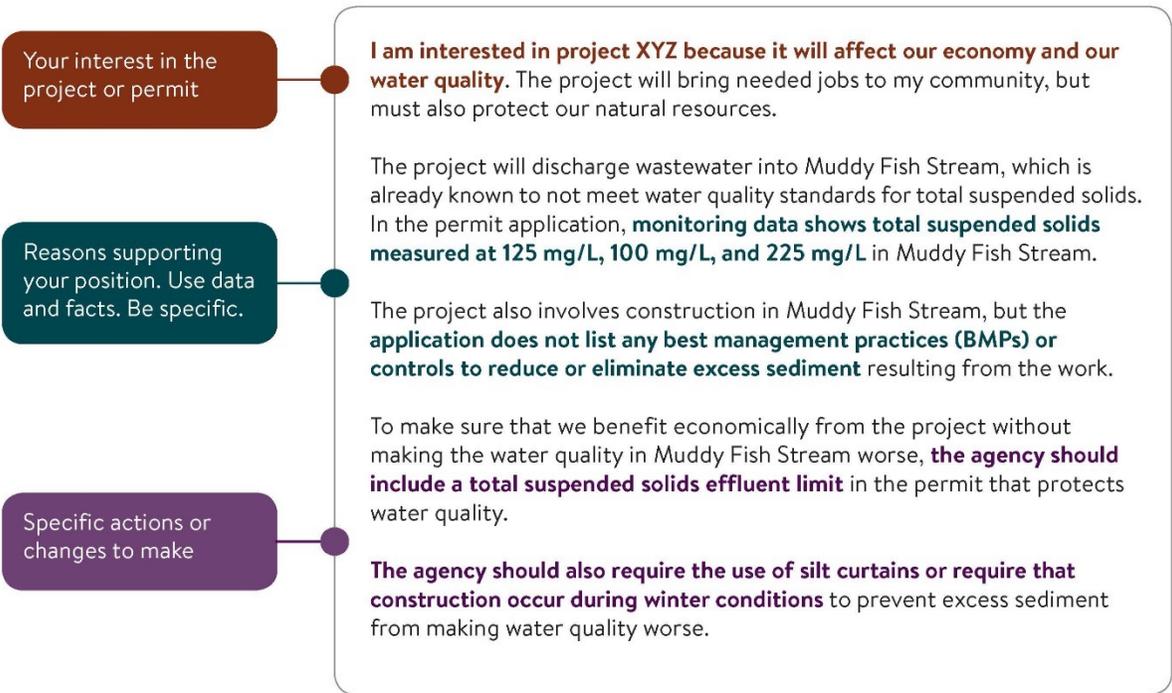
651-757-2449

Effective public comments

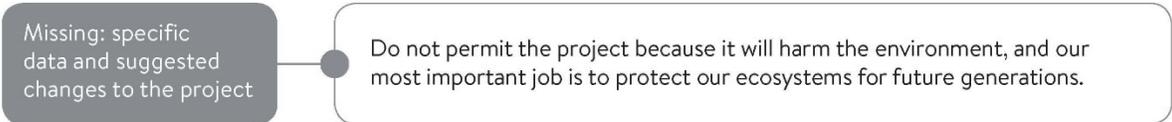
How to make your voice heard



Anatomy of an effective public comment



Comments that are less effective



Important things to remember



Good comments can **improve the final permit.**



The permit process is to **make sure a project can comply with environmental laws**, not to stop the project.



Comments should be **fact and data based.**



Comments are not votes. Approval is not based on the number of comments for or against the permit.



- LEGEND**
- EXISTING CONTOURS
 - EXISTING TREELINE
 - EXISTING FENCELINE
 - EXISTING RAILROAD
 - EXISTING POLE
 - EXISTING PROPERTY LINE
 - 40-114 EXISTING GROUNDWATER MONITORING WELL
 - 40MP-6 EXISTING METHANE MONITORING PROBE
 - 40MP25 EXISTING METHANE MONITORING PROBE
 - 418-2 EXISTING GROUNDWATER INJECTION WELL
 - EXISTING LANDFILL GAS SYSTEM
 - PHASE/CELL BOUNDARY
 - FUTURE PHASE/CELL BOUNDARY
 - CLOSURE BOUNDARY
 - PROPOSED PHASE 7-VERTICAL EXPANSION



PHASE 5
CELL F-2
(FUTURE)

EXISTING 80,000
GALLON AND 101,000
GALLON LEACHATE TANKS

EXISTING
SEDIMENTATION
POND

EXISTING GAS TO ENERGY
FACILITY

2011 FINAL COVER
CLOSURE AREA