

Business Item 2021-44:
**Adopt Facility Plan for the Fridley Lift
Station L32A Project, MCES Project No.
809400**

Tim Wedin, Assistant Manager, Interceptor Engineering, Wastewater
Planning and Capital Project Delivery

Environment Committee: February 9, 2021



Project Location Map



- Existing L32
Located in
Brooklyn Park at
7700 Mississippi
Lane North
- Future L32A
located in Fridley
at 6900 East River
Road

Existing Lift Station Condition – Brooklyn Park

- L32 (Brooklyn Park) is 50 years old
- Components such as the structure, piping, and controls show signs of deterioration, requiring replacement
- Failures at the lift station have resulted in back-ups of wastewater into area homes
- There are odor complaints due to inability to address air flow at the current facility
- Lift station is almost at full capacity with the existing flow conditions



Drivers for the Project

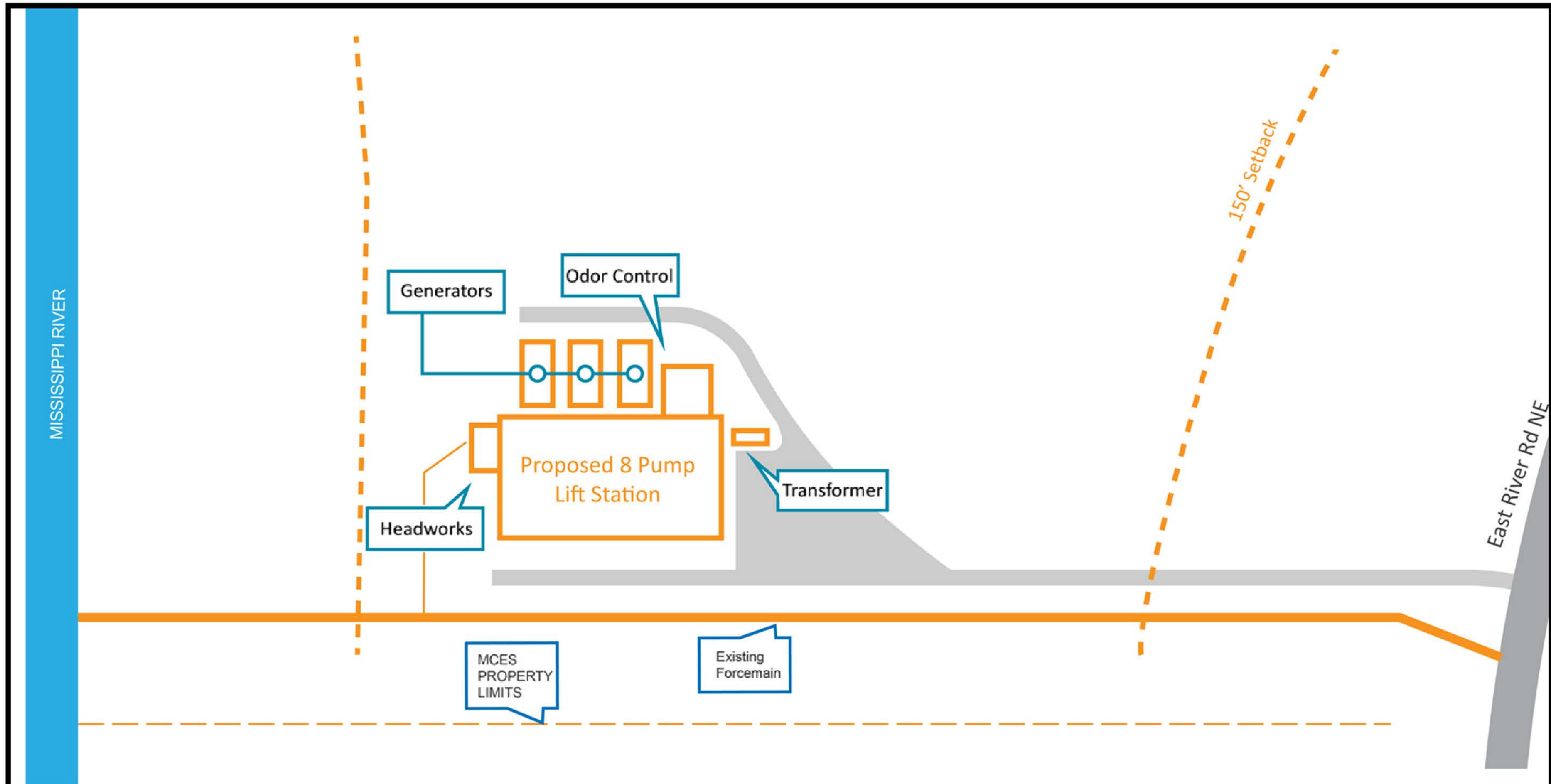
- The existing lift station is 50 years old and has reached the end of its useful life.
 - Condition assessments have documented structural mechanical, and electrical deficiencies which has led to system failures including backup of wastewater into homes and odor issues
- The existing lift station is almost to its full pumping capacity.
 - L32 does not have sufficient capacity to serve the current and future needs of the area

Alternative Selected – New Lift Station on the East Side - Fridley

- This alternative includes:
 - East Side Facilities
 - New pump station to meet future flow and resiliency needs
 - Independent pump system + other resiliency additions
 - Odor control system
 - Flow metering
- West Side Facilities
 - Control building
 - Siphon structure/headhouse
 - Odor control system
 - Two new small submersible lift stations
- River crossing
 - Rehabilitate the two existing forcemains

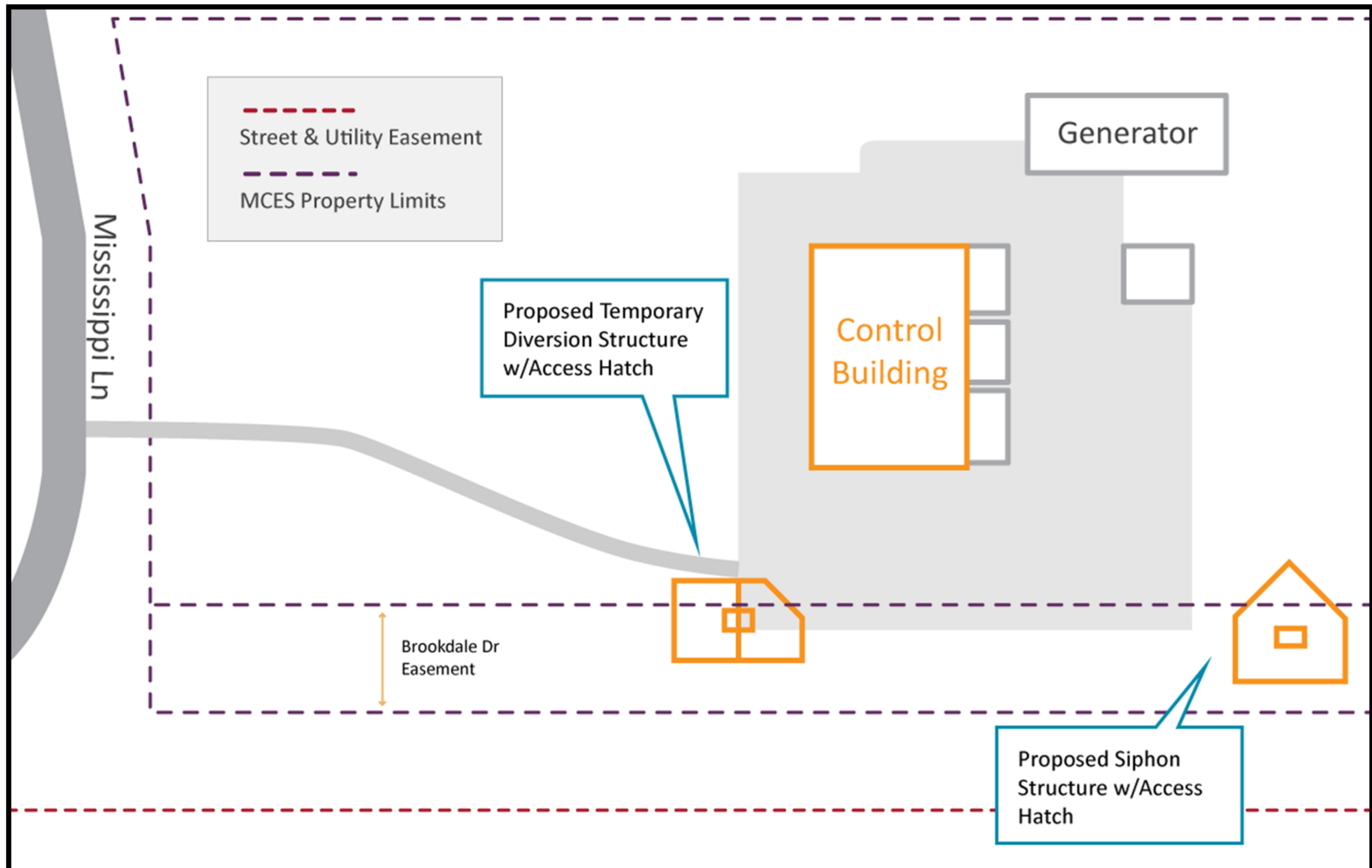
Conceptual Site Plans for Alternative Selected

- East Side Facilities - 6900 East River Road, Fridley



Conceptual Site Plans for Alternative Selected

- West Side Facilities - 7700 Mississippi Lane North, Brooklyn Park



Estimated Construction Cost of Recommended Alternative

Sr. No.	Description	Estimated Cost
1	New pump station (8-pump circular foundation)	\$20,400,000
2	Addition of 2 new smaller submersible pump station	\$1,560,000
3	Dedicated pumps at lift station	\$1,800,000
4	New odor control system on East Side	\$360,000
5	Flow metering	\$36,000
6	Siphon system	\$6,900,000
7	Odor control system modification on West side	\$120,000
8	River Crossing forcemain pipe rehab	\$2,400,000
	Subtotal	\$33,576,000
	22% Engineering and Administration	\$7,386,720
	30% Construction Contingency	\$10,072,800
	Total Project Cost (in 2020-dollar amount)	\$51,035,520

- Funding for design and construction has been included in the 2021 Capital Program

Milestone Schedule

Timeframe	Activity
November 10, 2020	Public Information Meeting/Open House
December 17, 2020	Public Hearing on Draft Facility Plan
December 28, 2020	Public Comment Period Closes
February 24, 2021	Metropolitan Council to Consider Adoption of Facility Plan
February 26, 2021	If Adopted, MCES Submits Facility Plan to Public Facilities Authority and Minnesota Pollution Control Agency
2021 to 2023	Project Design
2023 to 2026	Project Construction

Summary of Comments

From	Subject	Resolution/Info Provided
Friends of the Mississippi River	Discussion of design standards to be used for the proposed project.	Confirmed that applicable design standards, such as the Mississippi River Corridor Critical Area rules will be followed. Pledged to continue discussions during design.
Anoka County	Discussion of access to the new facilities from East River Road. Discussion of work within the East River Road Right-of-Way.	Coordinate with County during Design to located the site access. Acquire necessary permits and coordinate work needs during design.
Residents	Odor Control	Project will include Odor Control Facilities at both sites. Siting of buildings will help mitigate odors.
Resident	Effluent Storage	Effluent will not be stored on site.
Resident	System Reliability	Project will include features to improve reliability, such as emergency generators, redundant pumps, and other features.
Resident	Noise	Construction and operations of facility will meet Fridley noise ordinance.
Residents	Use of excess property	Discussions with the City of Fridley will continue. Ideas have included single family housing and MCES retaining the area as a buffer.

Summary of Comments

From	Subject	Resolution/Info Provided
Anoka County	Future Public Meetings	Public outreach will continue with the project. Offered to hold additional meetings as project proceeds.
Fridley City Council	Lift Station Aesthetics	Lift Station design will comply with zoning ordinances. Architectural design will be reviewed with the City.
Resident	Lift Station Location on Site	Need to balance the desire to maintain separation between facilities and the neighbors with need to be close to existing pipes.

Facility Plan, Materials, and Public Hearing Summary are available on the project site at: <https://metro council.org/Wastewater-Water/Projects/Sewer-Planning-Construction-Updates/Projects/Fridley-809400.aspx>

Proposed Action

That the Metropolitan Council adopt the Facility Plan for the Fridley Lift Station L32A Project, MCES Project No. 809400, per Resolution No. 2021-5 attached to the business item.

Questions

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