

Welcome!

Liquid Waste Hauler Customer Workshop

April 6, 2021 10:00 AM – 11:30 AM



Agenda

10:00 am – 11:15 am: Workshop

- Welcome & Meeting Logistics
- MCES Pretreatment Program Overview
- Empire Wastewater Treatment Plant Overview
- Finance & Budget
- Accepted Liquid Waste Types
- Permit Types and Low Impact Permit
- Disposal Sites and Updates
- Online Reporting & Excel Load Tracking Program
- MCES Webpage & Communications
- Customer Portal Demonstration/Feedback

11:15 am – 11:30 am: Feedback, Questions & Answers

Meeting Logistics

- We are recording this meeting and will post on our website for future viewing
- Please use the Q&A window to ask questions and offer feedback during the workshop

Industrial Waste & Pollution Prevention



- We serve the Twin Cities Region of ~3 million people
- We serve 110 communities connected to our system
- We administer 915 active industrial discharge permits
 - 90 Liquid Waste Haulers
 - 518 Standard Discharge Permittees
 - 94 Special Discharge Permittees
 - 213 General Discharge Permittees
 - 874 Dental Clinics in the Amalgam Recovery Program

Clean Water Regulation

- Clean Water Act / 40 CFR Part 403
 - Categorical Standards
 - General Pretreatment Regulations
- EPA Region 5
 - Delegated to Minnesota PCA
 - Approval of Local Pretreatment Programs
- MCES Approved Pretreatment Program
 - Waste Discharge Rules
 - Local Limits

Empire Wastewater Treatment Plant - Overview

Angella Craft

Business Unit Manager – Empire WWTP



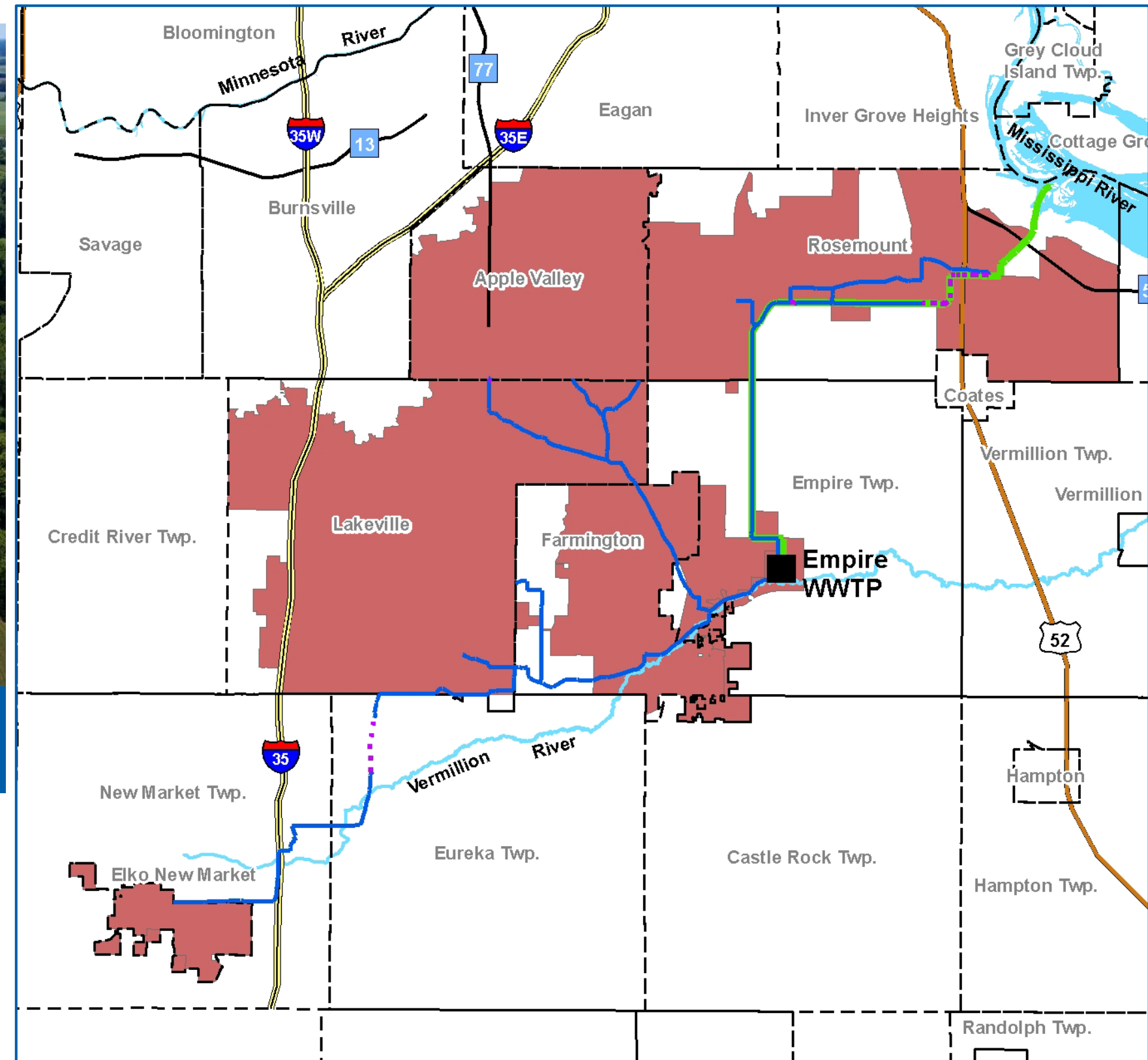
Empire Plant – Service Area



Empire treats 11 million gallons/day

Communities Served

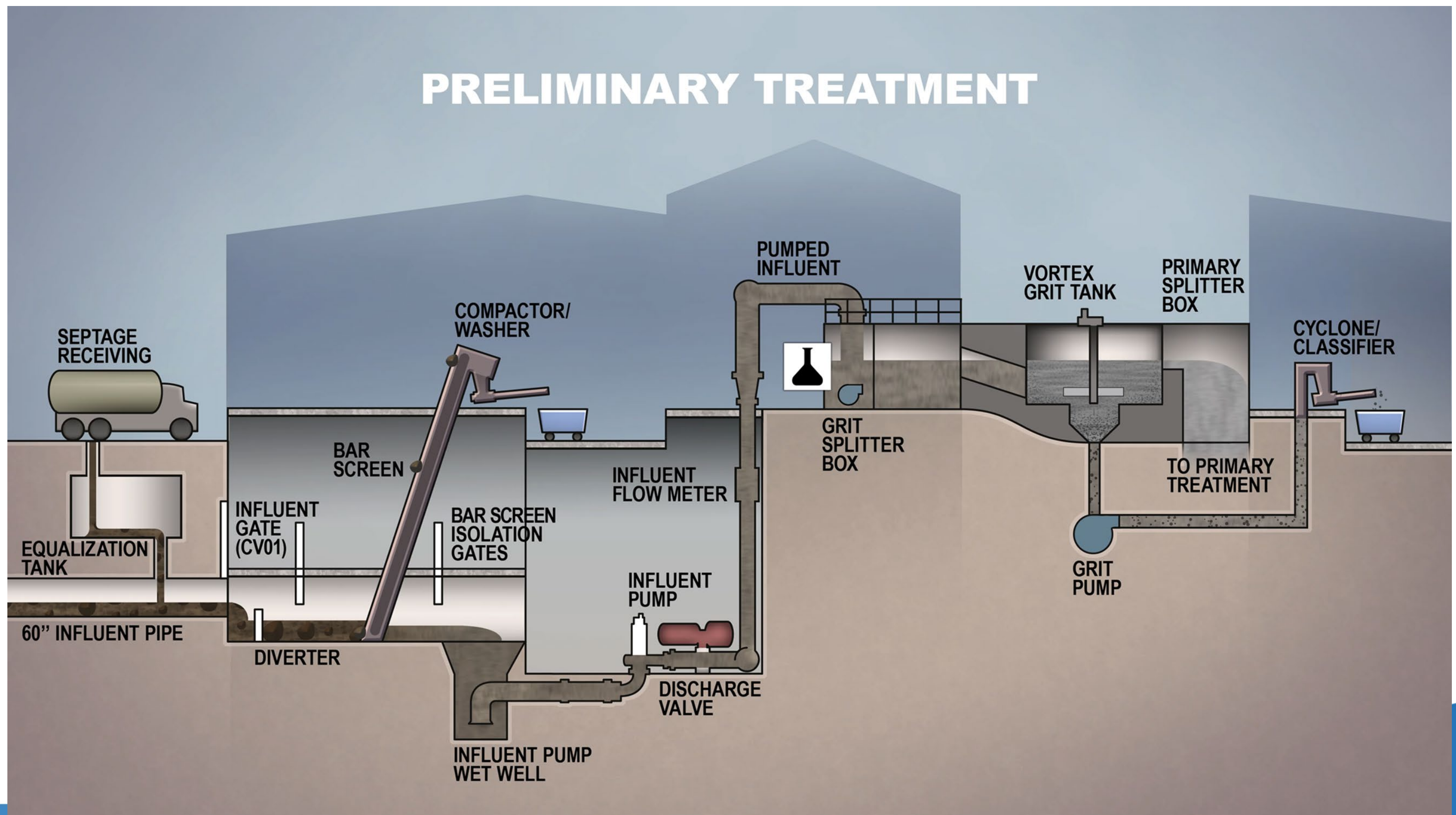
Empire Township, Farmington, Rosemount, Elko / New Market, and Portions of Apple Valley and Lakeville



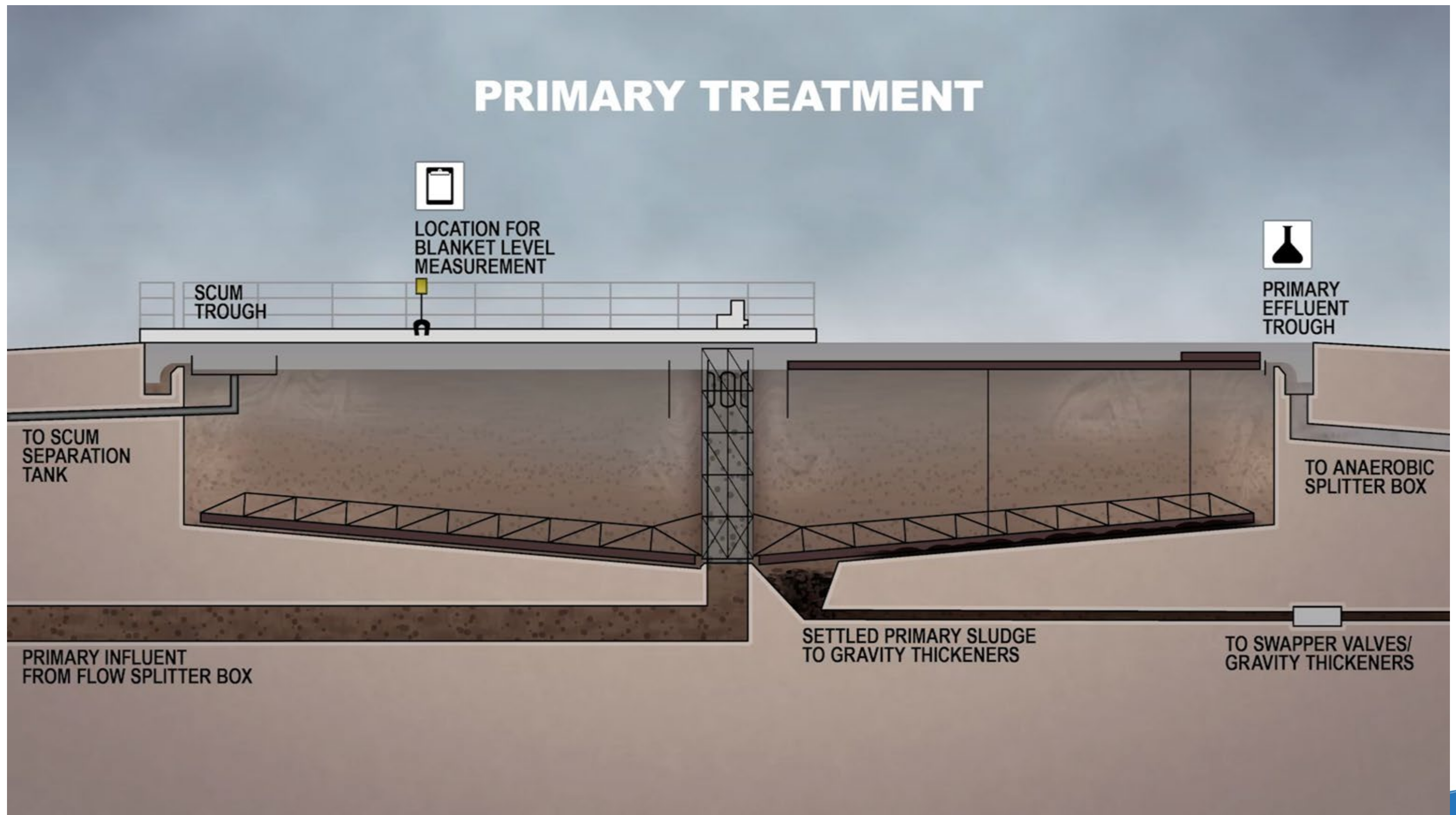
Empire Plant - General Info

- Built in 1979
- Current design capacity = 24 MGD
- Current typical flowrate = 11 MGD
- Staffed 24/7
- Exceptional compliance with many permits (NPDES, Stormwater, Title D Air, MPCA Biosolids, Hazardous Waste, etc)
- 5 MW Solar garden
 - Produces adequate power for 60 % of plant load
 - Enough power for 870 homes (11% of Farmington homes)

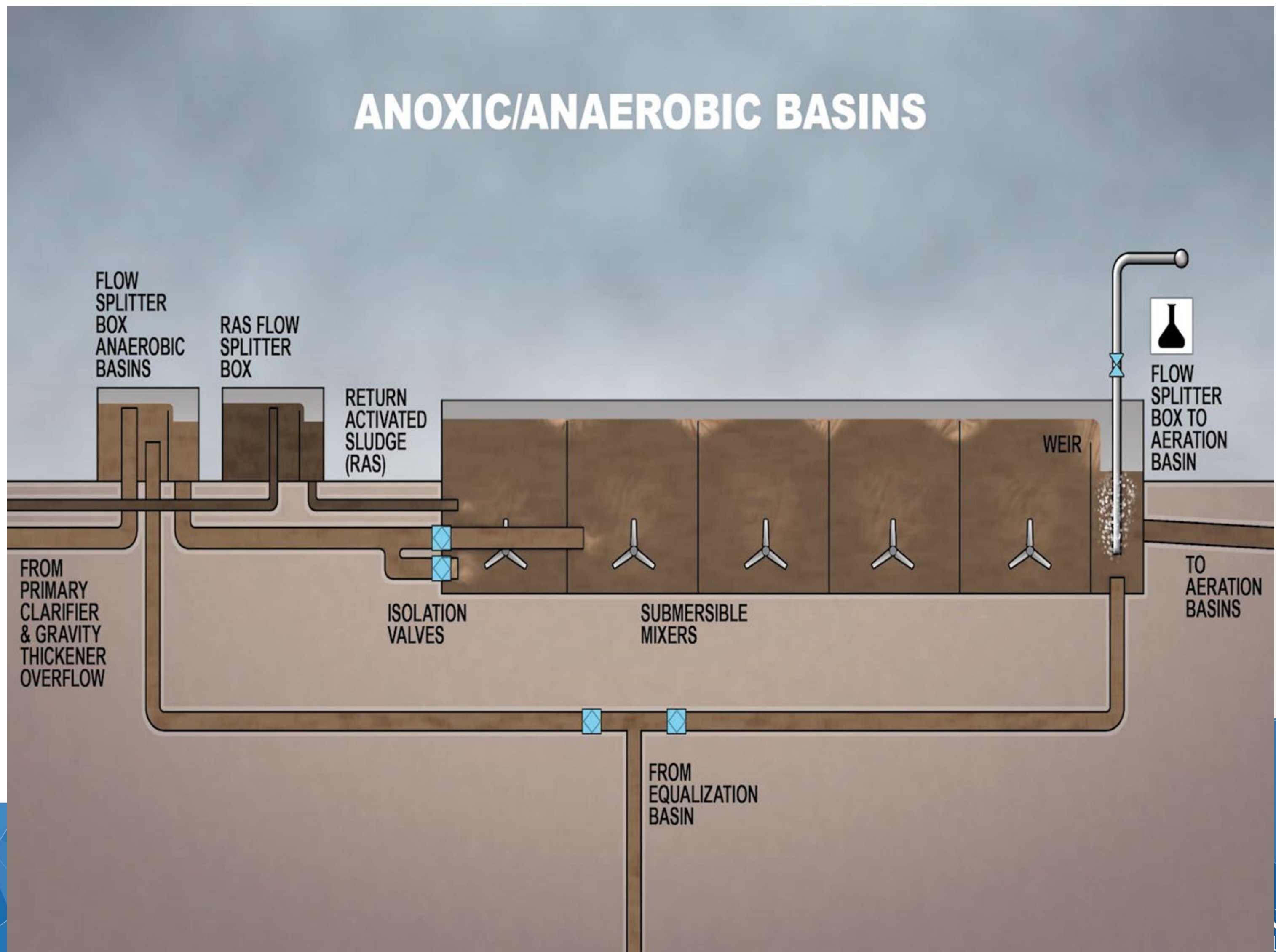
Preliminary Treatment



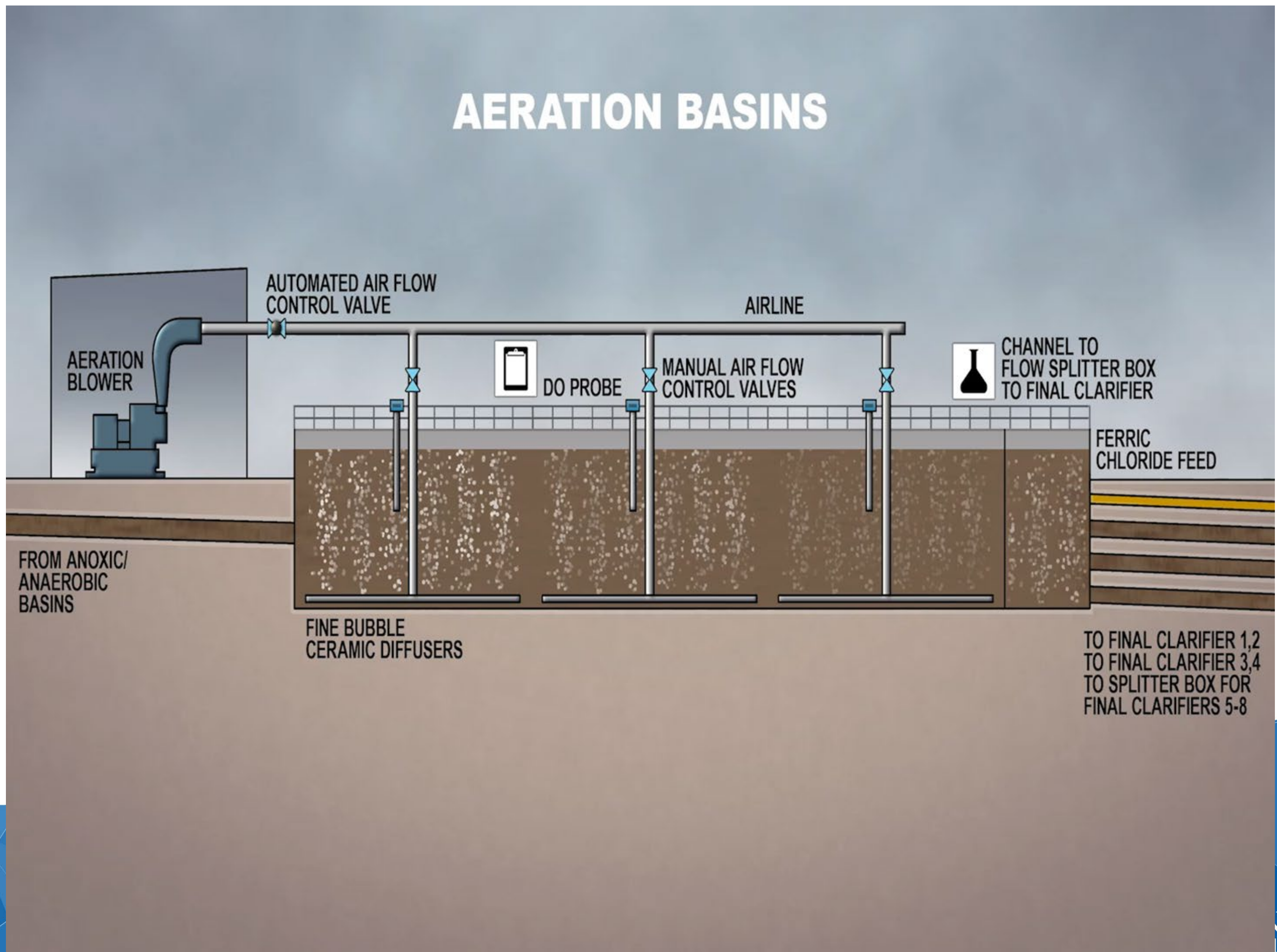
Primary Treatment



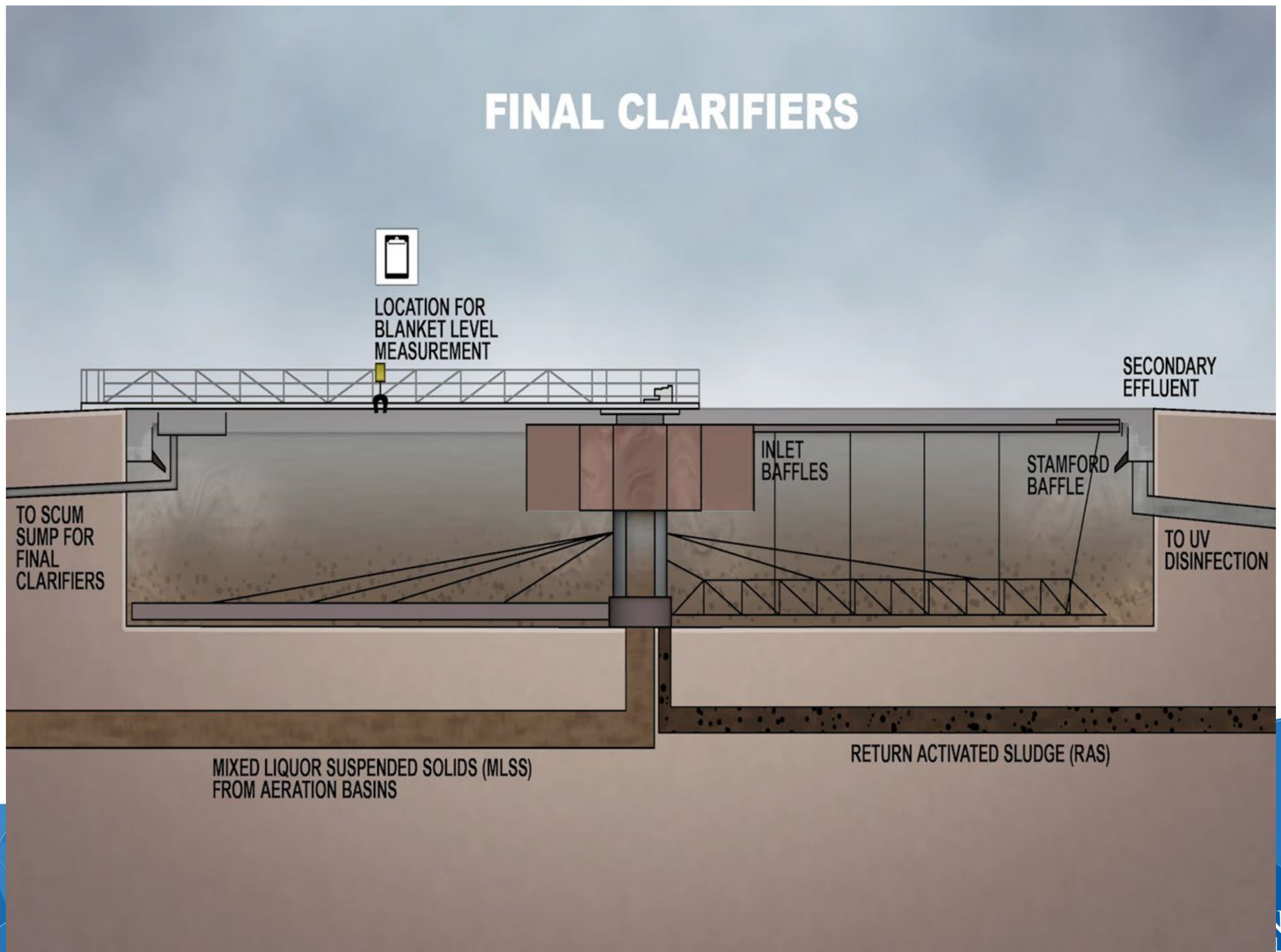
Secondary Treatment



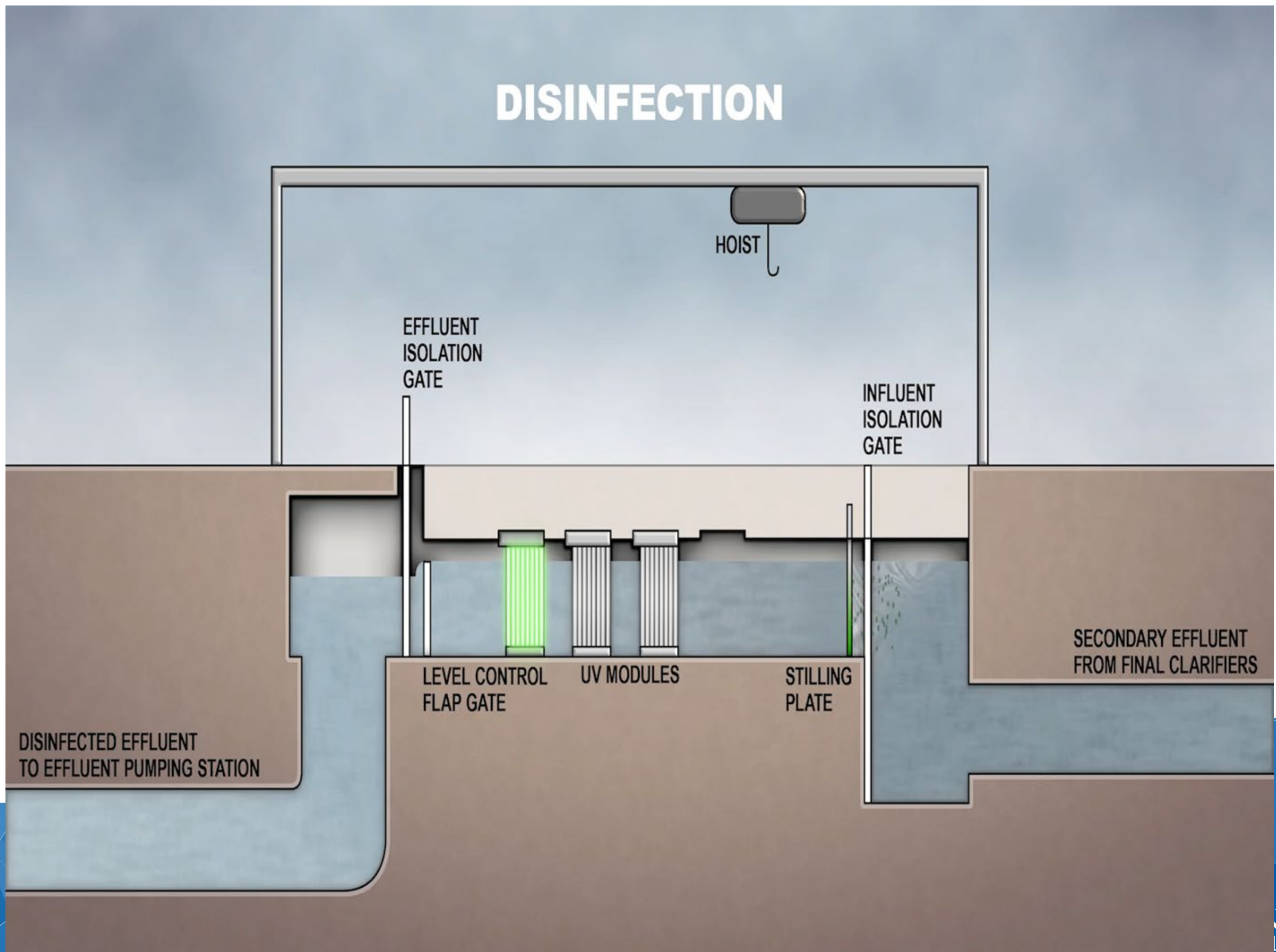
Secondary Treatment



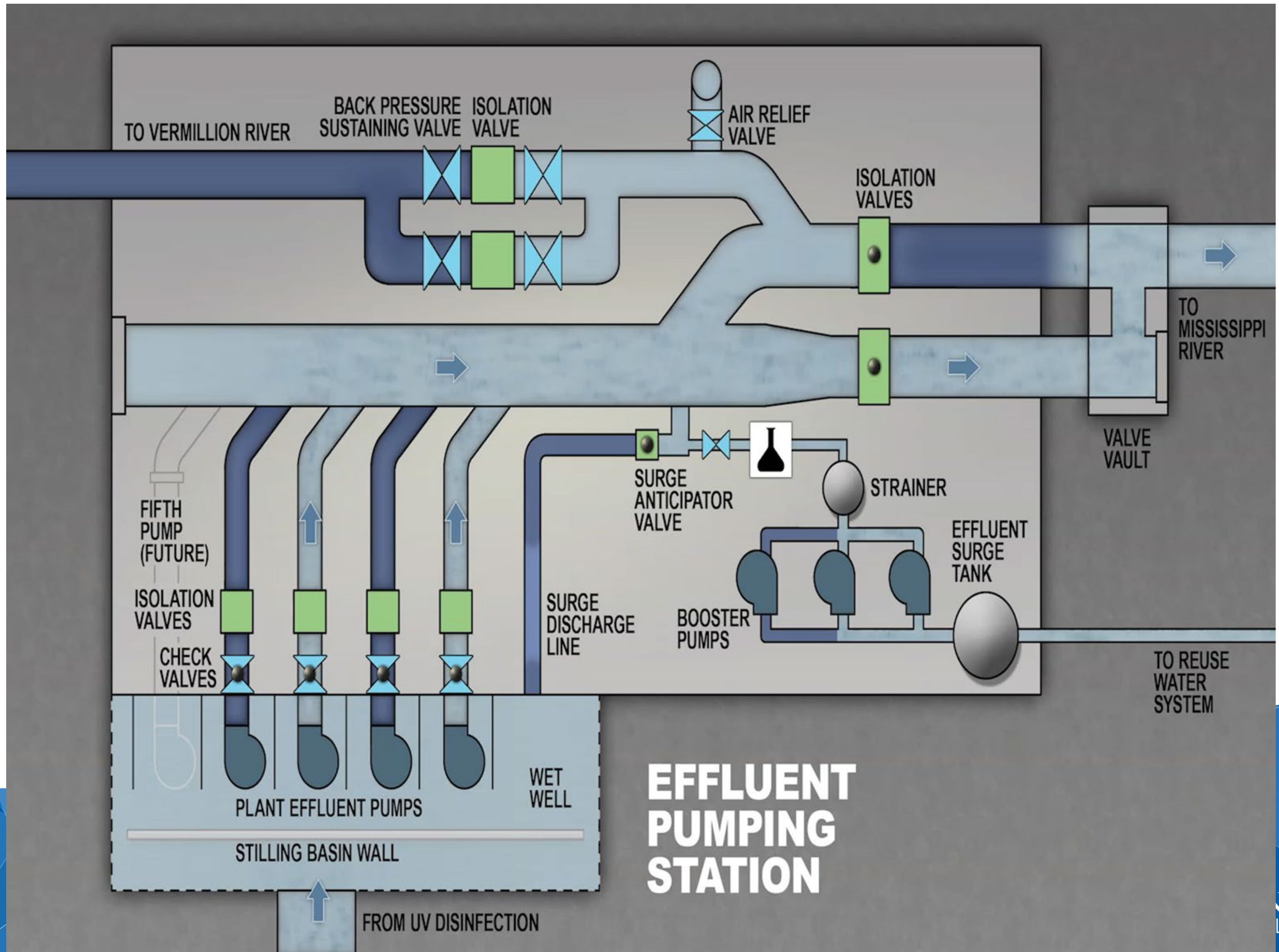
Secondary Treatment



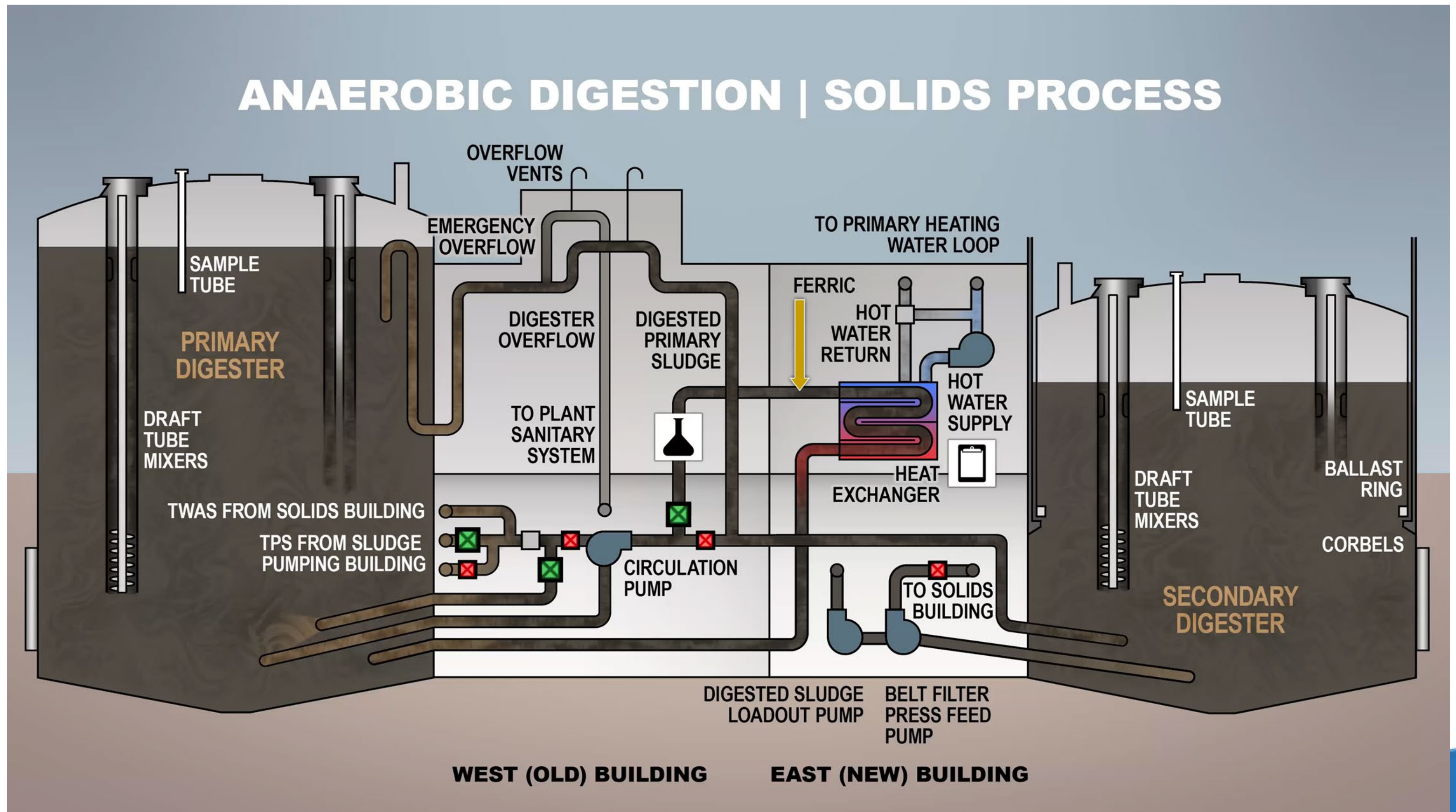
Disinfection



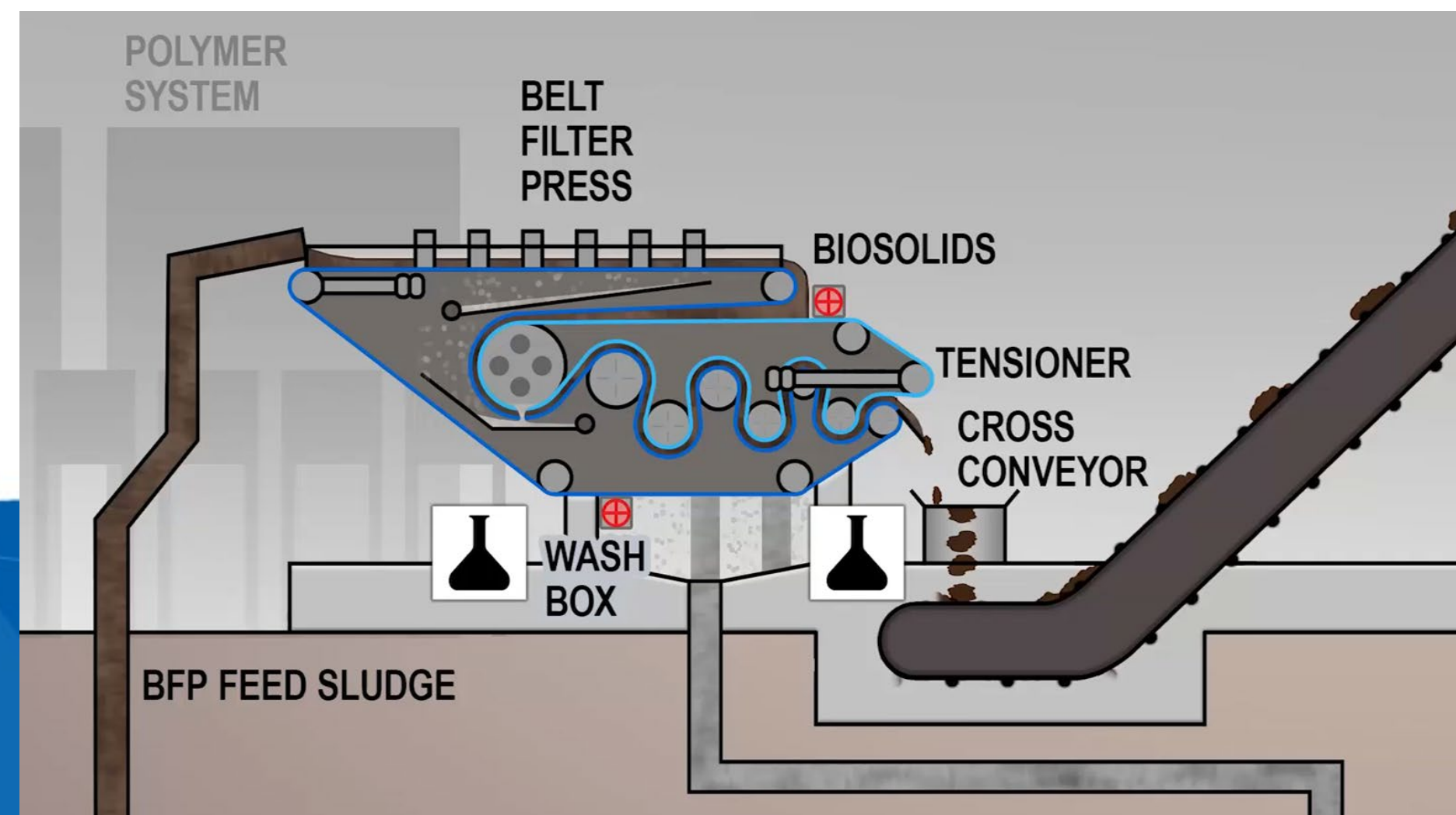
Effluent Pumping



Anaerobic Digestion



Sludge Dewatering



Land Application



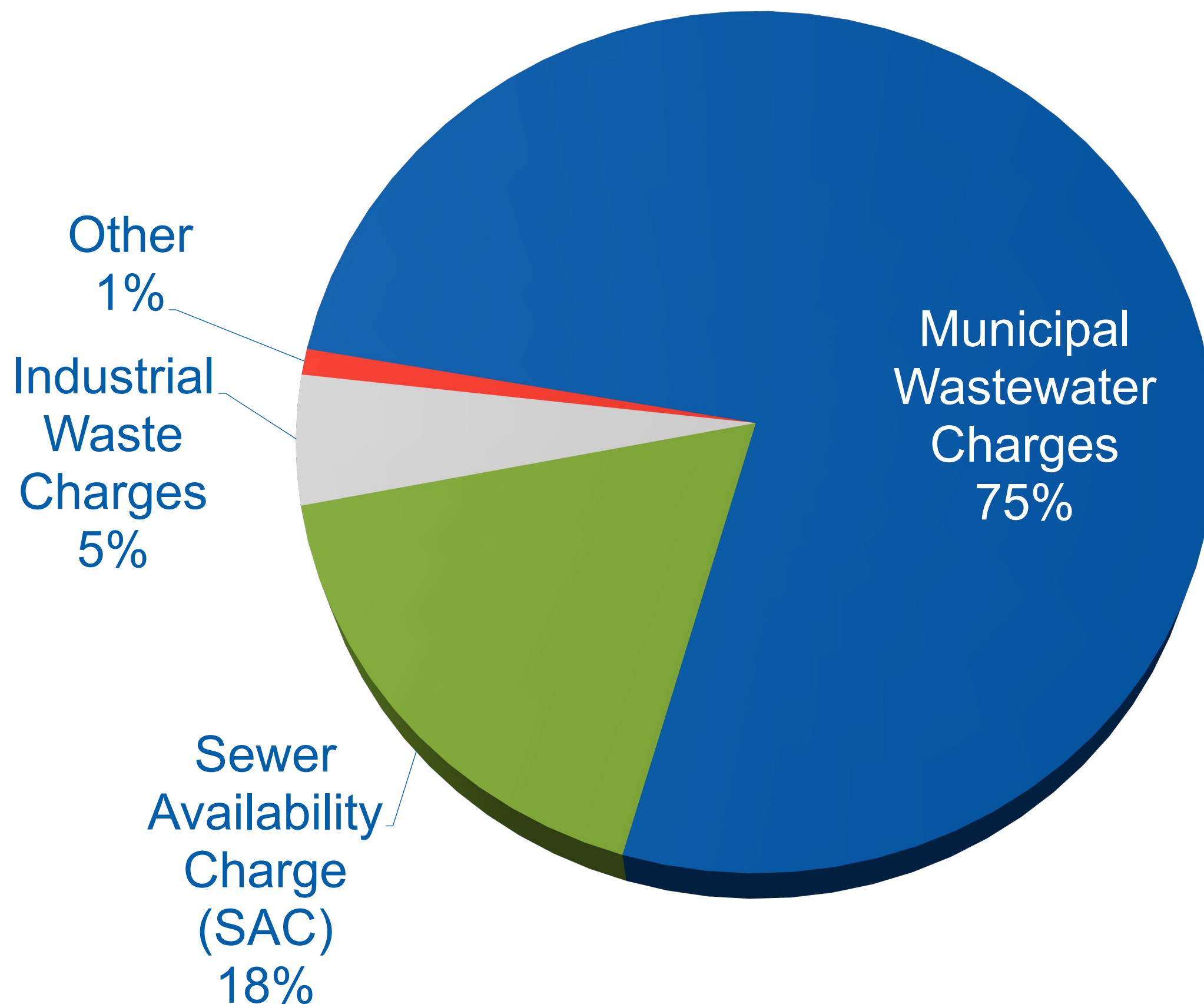
Finance

Ned Smith

Director, Pretreatment & Finance



2021 Sources – \$321M



- Fee for service
- No state funds to run Metropolitan Disposal System
- MCES expenses only (no other Met Council expenses)

**Other includes State Appropriations (grants), Investment Earnings, and Other Misc. Revenue*

Load Charges include 3 components

1. Strength Component

- Based on methodology similar to the strength charge equation except hauled waste is assumed to have a set strength
 - Collar County and Standard load charge: 10,000 mg/L for both TSS and COD
 - Portable toilet waste: 20,000 mg/L for COD, 10,000 mg/L for TSS

2. Volume Component

- Based on MCES Municipal Wastewater Charge

3. Facilities Component

- The operating, maintenance and debt service cost for facilities built for receiving hauled liquid waste

2021 Load Charges

Load Charges (per 1,000 gallons) paid by liquid waste haulers for septage, leachate and other hauled wastes discharged to approved MCES disposal sites.

Charge Type	2021 Rate	% Increase
Standard Load Charge	\$60.24	0
Holding Tank Rate	\$11.29	0
Portable Toilet Waste Rate	\$77.46	0
Collar County Load Charge	\$75.24	0
Industrial Load Charge**		
1. Total Suspended Solids (TSS)	\$0.413	0
2. Chemical Oxygen Demand (COD)	\$0.2065	0

** Plus \$15 per 1,000 gallons for out-of-region haulers



Accepted Liquid Waste Types

Tim Rothstein

Principal Engineer

Tim.Rothstein@metc.state.mn.us



Domestic Waste

- Septage – Septic tank with drain field
- Holding Tank – Sealed tank



Commercial Waste

- Portable Toilet
- Restaurant Grease Trap
- Flammable Waste Trap/Sand Trap
- Commercial Holding Tank



Industrial Waste

All loads that do not meet the definition of a domestic or commercial waste

Require sampling and analysis, written approval

- Industrial Waste
- Landfill Leachate
- Groundwater/Surface Water

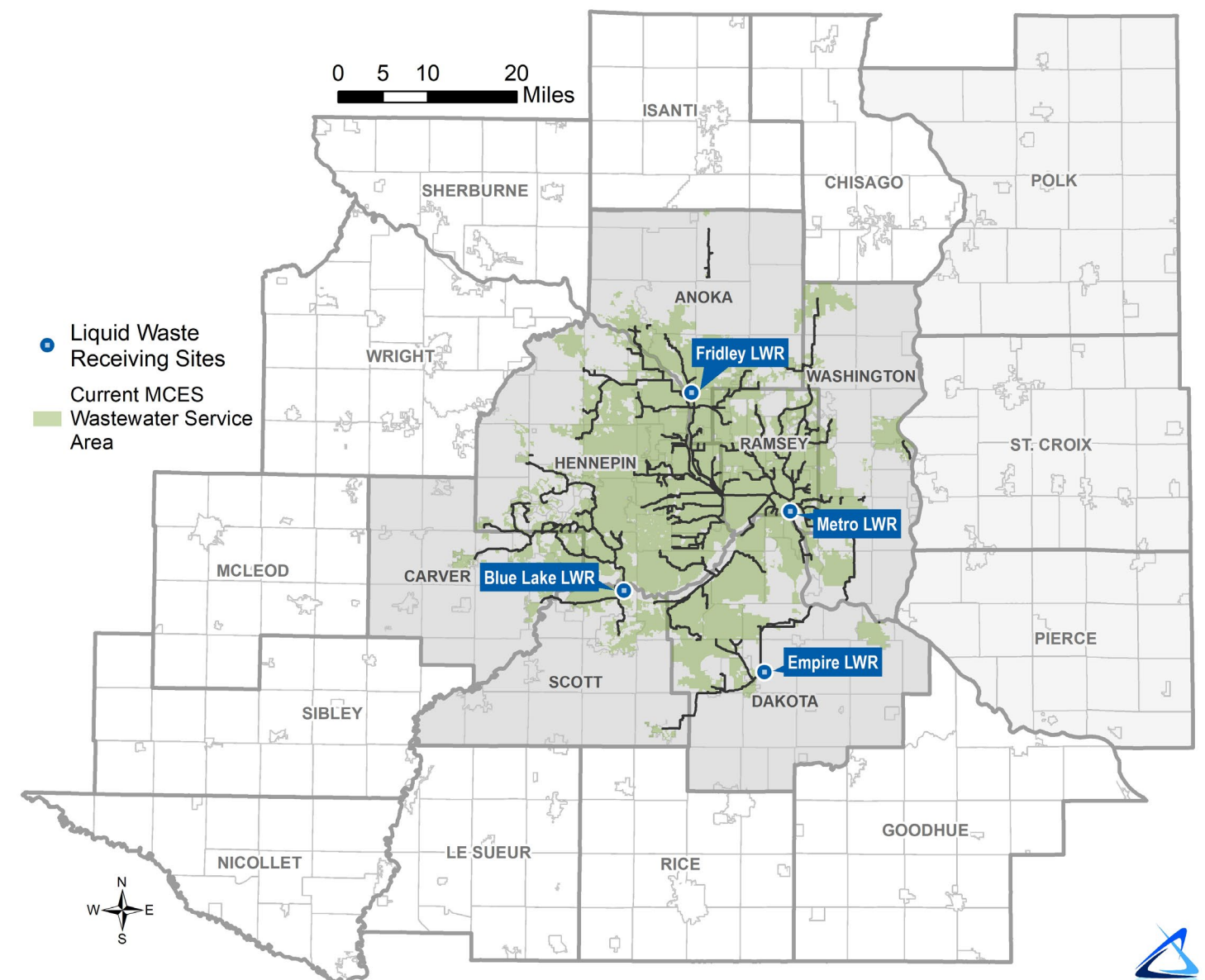


Out-of-Service Area (OSA) Waste

Domestic & Commercial Waste

- Restaurant Grease
- Collar Counties

Chisago	Polk
Goodhue	Rice
Isanti	St Croix
LeSueur	Sherburne
McLeod	Sibley
Nicollet	Wright
Pierce	



OSA Industrial Waste

- Upfront, non-refundable application fee of \$300
- Sample analysis required
- OSA Attachment
 - Must list two non-MCES disposal options



Liquid Waste Hauler Permits

Laura Engen

Principal Engineer

Laura.Engen@metc.state.mn.us



Liquid Waste Hauler (LWH) Permits

The Purpose of the Liquid Waste Hauler Program:

- To Regulate the Discharge of Hauled Liquid Wastes into the Metropolitan Disposal System
- To Designate Approved Disposal Sites for Discharge of Hauled Liquid Wastes (Access Controlled Disposal Sites)
- To Collect Equitable Loads Charges for the Waste Discharged

In summary, the LWH Permit allows LWH Hauler to use MCES Approved Disposal Sites for the discharge of approved wastes and MCES to recover costs associated with treating these wastes

90 Active LWH Permits (2021)

LWH Permits

- 3 Year Permit Cycle
- Semi-Annual &/or Quarterly Reporting Requirements
- Waste Definitions
- Disposal Site Use Rules
- General & Specific Permit Conditions
- List of Approved Trucks

Permit Documents Sent Electronically & All Reports Completed through the Electronic Reporting System

Low Impact LWH Permit

A Low Impact LWH Permit is Currently Under Development:

- LWH Permittees discharging less than 50,000 gallons/year & for future applicants needing a Contingency Permit
- 3 Year Permit Cycle (no change)
- Annual Reporting Requirement
- Reduced Annual Permit Fee
- Approximately 20 LWH Permittees Fit into Criteria
- Projected Implementation: Mid-2021
- Notification will be sent out Permittees

Liquid Waste Receiving (LWR) Sites

Bob Golden, *Assistant Manager, Field Monitoring & Response*

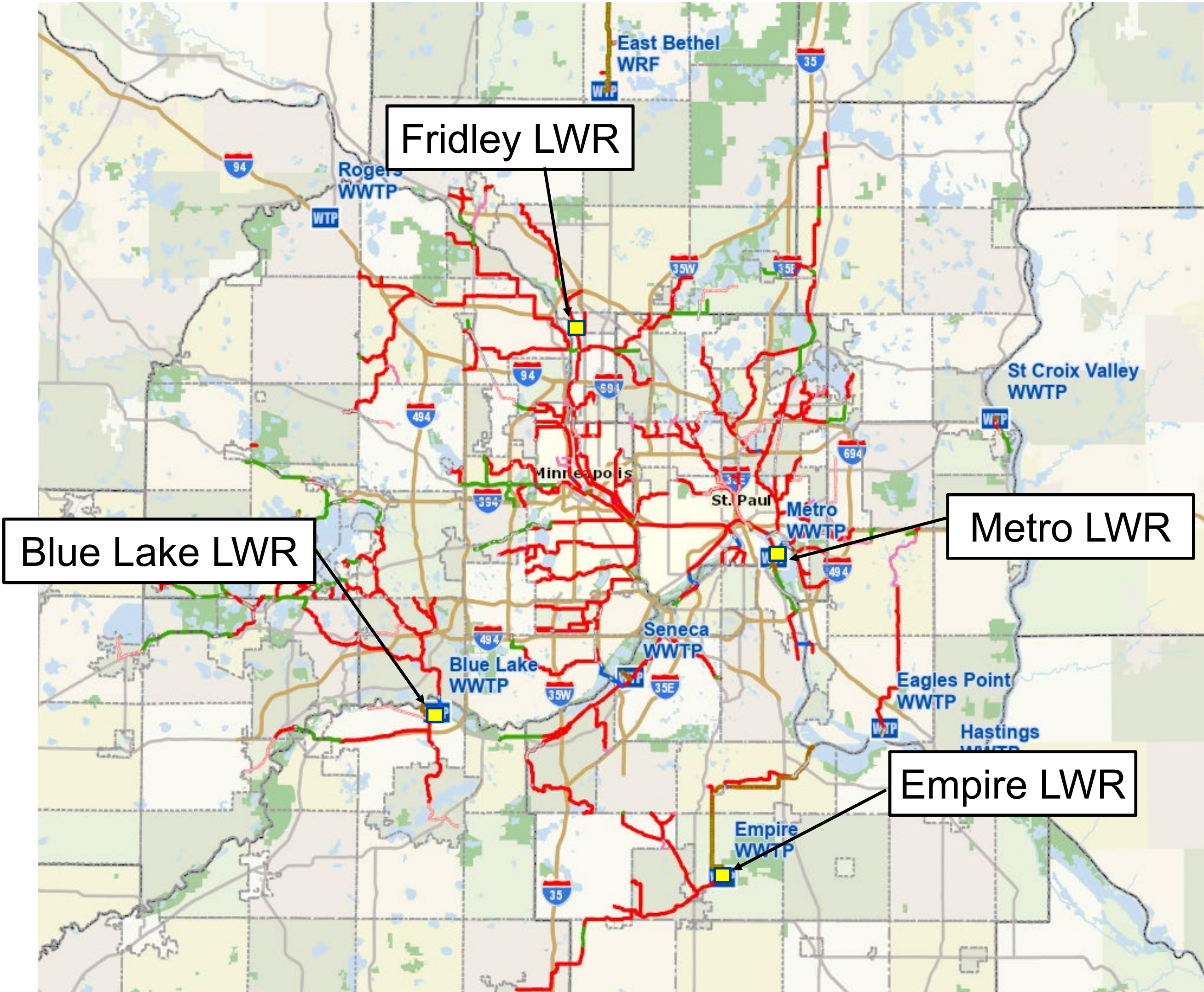
Laura Engen, *Principal Engineer*

Isaac Raser, *ABUM Interceptor Operations*

We Ain't
Haulin' Milk.



LWR Site Locations



Metro LWR

Located at the Metropolitan WWTP in St. Paul, MN



- **Controlled Access:** 70' Truck Scale, Card Readers, & Traffic Control Signs
- **6 Discharge Holes**

- 2 discharge holes dedicated to MCES Trucks only
- 2 discharge holes with yellow piping for landfill leachate

- **2 Water Cabinets**

- **Driver's Lounge & Restroom**

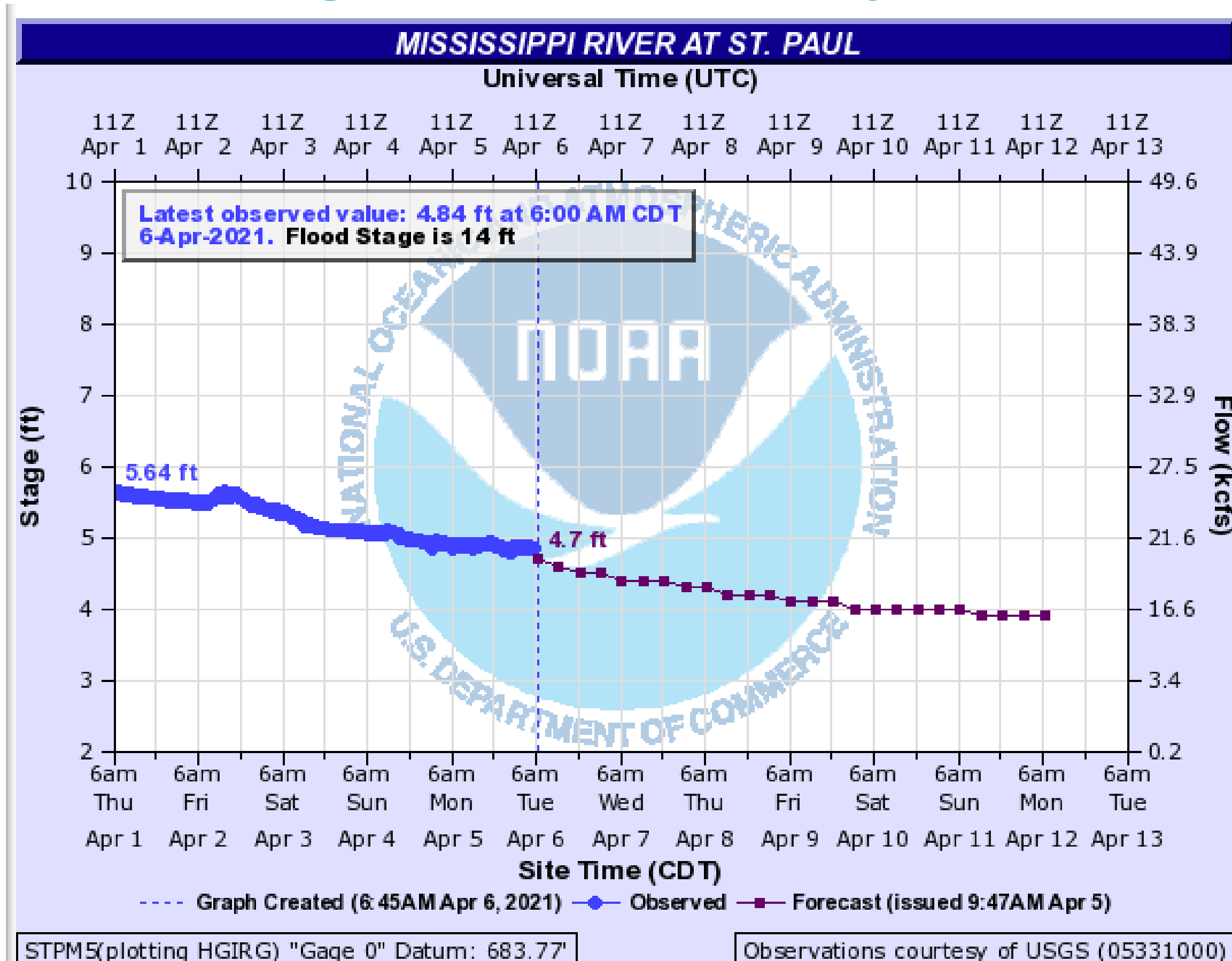
- **2020 Discharge Volume = 45,000,000 Gallons**

Loads = 15,000 Loads (60-92 Loads/day)

- **2021 Repair Projects-** walkway, pipe leak



Spring River Level Projections



Typical Flooding Preparations

- **Metro not expected to close based on stream gage levels**
 - When St Paul Gage is at 9 ft, Metro begins taking action
 - When hits about 17 ft, Childs Road is closed
 - LWH's rerouted to 3rd & Commercial
- **Communication - GovDelivery, Postings at LWR**

Flooding- Temporary Road for Employees



Past Flooding on Childs Road (Metro Plant)



Empire LWR

Located at the Empire WWTP in Empire Township, MN

- **Controlled Access:** Security Guard
- **2 Discharge Holes**
- **Types of Waste Accepted:** Domestic Waste, Holding Tank Waste and Portable Toilet Waste
- **Water Cabinet**
- **No Restroom Facility Available**
- **Haulers required to complete Receipts at Security**
- **2020 Discharge Volume = 6,000,000 Gallons**
Loads = 2,300 loads



Blue Lake LWR

Located at the Blue Lake WWTP in Shakopee, MN



- **Controlled Access:** Card Readers Control Entrance & Exit
- **50' Truck Scale & Traffic Control Signs** – Net Weight Converted into Volume
- **2 Discharge Holes** – Discharge goes directly into the influent pipe to the Plant
- **Water Cabinet** – For Clean-up Purposes
- **Pavement Deicing System** – Push Button Activation
- **No Restroom Facility Available**
- **2020 Discharge Volume** = 23,300,000 Gallons

Loads = 12,500 Loads



Fridley LWR

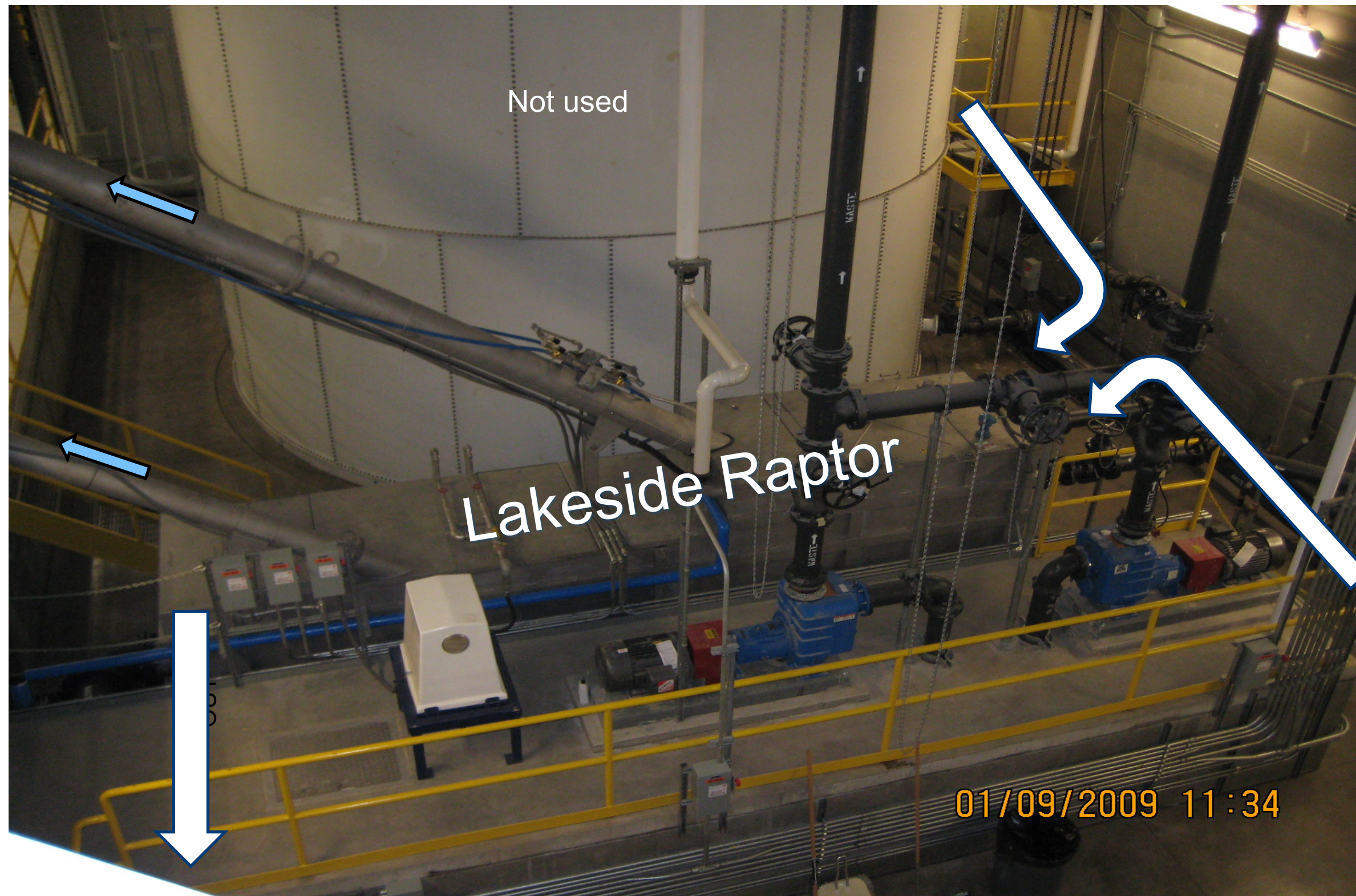
Located in Business Park in Fridley, MN

- **Tributary to the Metro WWTP**
- **Wastewater Pretreated Prior to Discharge to MCES' Interceptor**
- **Disposal Site Access: Security Guard**
- **2 Indoor Discharge Sites: Couple Up Connections**
- **Card Reader Controlled Discharge**
- **Volume Measurement: Magnetic Flow Meters**
- **Water available in bay for cleanup**
- **Restroom Available**
- **2020 Discharge Volume = 8,760,000 Gallons**

Loads = 4,200 loads



Fridley Liquid Waste Receiving (Lakeside Unit)



Fridley LWR (Continued)

- Facility maintenance
- Changes we've been making at the facility
- Shared Use Agreement with City of Fridley
- Possible future upgrades



Any Feedback or Questions?



COVID-19 Procedures

- MCES takes COVID very seriously
 - Prevent the spread of COVID-19 in the workplace and to our customers
 - Reduce the risk of disruption to our essential services
 - Support employee well-being
- Masks are required onsite
- Please practice social distancing
- Truck sampling will be starting up again
- Please notify us if your employee tests positive and has had contact with any of our staff

Online Reporting & Communications

Matthew Michealis
Engineer

Matthew.michealis@metc.state.mn.us

OPEN CHANNEL NEWS
News bulletin from Metropolitan Council Environmental Services



August 2020 Issue # 56

Metropolitan Council Environmental Services (MCES) is one of five divisions of the Metropolitan Council, a regional public agency working for the seven-county metropolitan area. The mission of MCES is to provide wastewater services and integrated planning to ensure sustainable water quality and water supply for the region.

The Industrial Waste & Pollution Prevention (IWPP) Section of MCES regulates and monitors over 900 industrial customers discharging to the sewer system. Our goal is to ensure compliance with local and federal regulations and reduce the amount of pollution entering the wastewater collection system. The IWPP Section also responds to sewer-related spills and community sewer problems. These functions protect MCES and the community collection and treatment facilities, process efficiency, operating personnel, and the environment.

In this Issue

- MCES holds wastewater rate increase to 2% for 2021
- Protecting public health and water quality 365 days a year
- Permit requirement reminder: Communicating process changes in your industry
- Pre-entry health screenings and masks required at MCES facilities
- IORS: virtual support and training
- New Microbrewery and Liquid Waste Hauler Program webpages
- Alejandro Moris Figueroa – IWPP engineer intern
- Peter Berghud retires after 36-plus years
- Meet IWPP's new environmental scientist – Ann Postern
- Welcome Porter Sartor – Industrial Waste technician
- 2021 Industrial User rates and fees
- Let's stay connected!

MCES holds wastewater rate increase to 2% for 2021

The regional municipal wastewater charge and industrial user rates and fees will rise only 2% overall in 2021.

"When we started our budget planning in February, we were committed to our promise to keep the annual increase to less than 4% through 2022," said Ned Smith, director of Finance and Revenue for MCES. "We were looking at 3.7% for 2021, and then the pandemic hit, and we knew that our customers would be facing budgetary challenges. So, we made some adjustments to ease what is likely to be a tough year in 2021."

To hold the increase to 2%, MCES will transfer additional funds from the Sewer Availability Charge (SAC) reserve fund to help pay directly for capital improvements, as well as draw \$2 million from our general reserve fund.

The per-unit SAC, the second largest source of revenue for the regional wastewater treatment system, is proposed to remain flat for the seventh consecutive year.



The Rosemount lift station is part of a network of wastewater pipes, metering and lift stations, and wastewater treatment plants operated by MCES. We collect and treat wastewater for 110 communities in the metro area.

Continue with SAC reserve fund in good shape...

MCES Industrial Online Reporting



[Add Website to Bookmarks](#)

Public Login
User name

Password

[Login](#)

[Create a new account](#)
[Forgot your login user name or password?](#)

Release Date: November 22, 2019
Version: 4.0019.1122.22093

GovOnline uses Adobe Reader for some online document viewing. Please click the following link to install Adobe Reader Plug-in software.
[Get ADOBE READER](#)

Welcome to the MCES Industrial Online Reporting System!

The MCES Industrial Online Reporting System offers the convenience of submitting required paper reports and permit renewal applications electronically to Industrial Waste & Pollution Prevention staff, which is faster, more efficient and less burdensome for both eligible facilities and MCES. This system follows EPA guidelines established in its electronic reporting rule, CROMERR (Cross-Media Electronic Reporting Rule). It supports the following features:

- Establish a user account to manage your required submittals online;
- Submit permit renewal applications;
- Submit Reporting Period Information and Sampling Results SMRs;
- Submit compliance monitoring data required by enforcement actions issued by MCES;
- Submit Annual Statements for the Amalgam Recovery Program;
- Monitor the processing status of your online submittals;
- Receive e-mail notifications regarding the processing of your online submittals;
- Receive e-mail alerts for upcoming reporting obligations; and
- Track historical versions of all online submittals.

If you need assistance, please contact the MCES Industrial Online Reporting Coordinator at 651-602-4789 or via email at MCESIndustrialOnlineReporting@metc.state.mn.us

Industrial Online Reporting System (IORS)



- The MCES IORS launched June 30, 2016
- Online reporting became mandatory as of 2/1/2019
- Use to submit discharge reports and permit renewal applications
- **Must attach log sheets or summary and detail files from the Excel Load Tracking Program**

We welcome feedback on the IORS. Email us at:
MCESIndustrialOnlineReporting@metc.state.mn.us

Excel Load Tracking Program



AutoSave Off | LWH_LLSR_0001 Ver 1.0.8 beta.xlsm - Excel

File Home Insert Draw Page Layout Formulas Data Review View Developer Help

Normal Page Break Preview Page Layout Custom Views | Ruler Formula Bar | Zoom 100% | New Window Arrange All Freeze Panes | Split View Side by Side Synchronous S | Reset Window

Hauler Name (Permit #8888)

Load Volume Summary - 1st Quarter 2021

Waste Type	Volumes (gallons) by Location					Total Volumes (Gallons)
	Metro LWR	Fridley LWR	Blue Lake	Empire	Seneca	
Domestic Septage						
Industrial						
Landfill Leachate						
Commercial						
Portable Toilet						
Holding Tank						
OSA-Hauled						
Total						

Select Year

2021

Reporting Period

Jan. - Mar.

[Click to Open Load Entry Form](#)

[Click to Search Load Records](#)

[Click for Instructions](#)

[Click to Backup or Archive Data](#)

[Click to Create your Summary Report](#)

Comments

You can enter any type of comments or notes in here to submit with your Quarterly Self Monitoring Report.

Hauled MCES-Waste (If applicable - Not included in Volume Summary or Billing) : Not Applicable

version 1.0.8 (beta)

Main Page | Log_Page | Customers_Page | Hauler_Info

- Easy to use and provides value to LWHs
- Uniform method to record and report LWH load volumes
- Organizes information to match the flow of data entry for online reporting
- 20 haulers installed this program

Contact Dave Rude at dave.rude@metc.state.mn.us for installation

IOIRS Training & Support



- Training by requests over phone or Microsoft Teams
- Training materials available on the [IOIRS Homepage](#)
- IOIRS Support Team is available to help you!
 - Monday – Friday from 8 AM to 4 PM
 - MCESIndustrialOnlineReporting@metc.state.mn.us

Communication - IWPP Website

<https://metro council.org/LWH>



COMMUNITIES PARKS TRANSPORTATION WASTEWATER & WATER HOUSING PLANNING

WASTEWATER & WATER

+

Services

+

Industrial Waste

+

Discharge Permits

-

Microbrewery

> Liquid Waste Haulers

LIQUID WASTE HAULER PROGRAM

Regulating Disposal of Hauled Domestic, Commercial, and Industrial Wastes

MCES is charged with the collection and treatment of wastewater in the Twin Cities metropolitan area in order to preserve and protect the environment. MCES owns and operates nine wastewater treatment plants and over 600 miles of sewer pipe that convey wastewater from communities to our treatment plants. The wastewater treated at these plants must meet strict environmental standards to ensure that receiving waters are kept clean.

Purpose of the Liquid Waste Hauler (LWH) Program

- To regulate septage and other hauled liquid waste discharged to the Metropolitan Disposal System
- To designate and approve adequate facilities for disposal
- To collect equitable load charges for the waste discharged

Permit required to discharge approved liquid wastes at MCES facilities

Liquid Waste Haulers that want to use MCES Liquid Waste Receiving facilities to discharge approved domestic, commercial, and industrial wastes must obtain a permit through the Industrial Waste & Pollution Prevention Section.

Haulers must complete and submit an [MCES Liquid Waste Hauler Permit Application](#) along with the first year's permit fee (see [Rates & Fees](#)). Domestic septage haulers must first obtain a [Subsurface Treatment System \(STS\) license from the Minnesota Pollution Control Agency](#).

What permitted LWHs must do to comply with the program

1. Fulfill all permit requirements and conditions
2. Comply with all disposal facility rules and requirements
3. Enroll in the MCES [Industrial Online Reporting System \(IORS\)](#)
4. Submit quarterly or semi-annual reports via IORS: [How to submit your discharge report \(PDF\)](#), or [video guide \(YouTube\)](#)
5. Pay annual permit fees and load charges as assessed: [Rates & Fees](#)

More resources

- [Liquid Waste Hauler permit process \(PDF\)](#)
- [Accepted waste types and descriptions \(PDF\)](#)
- [MCES Liquid Waste Receiving facilities \(PDF\)](#)
- [Service area and facility map \(PDF\)](#)



Other Communication



➤ Transaction Emails (optional)

➤ Open Channel News

➤ GovDelivery

- METC@public.govdelivery.com
- Report Due Dates
- Workshops and Trainings
- Disposal Site Notifications
- NOT SPAM!!
- We send important information via the GovDelivery email.
Please add to your contacts so you do not miss out!

Customer Portal Demo

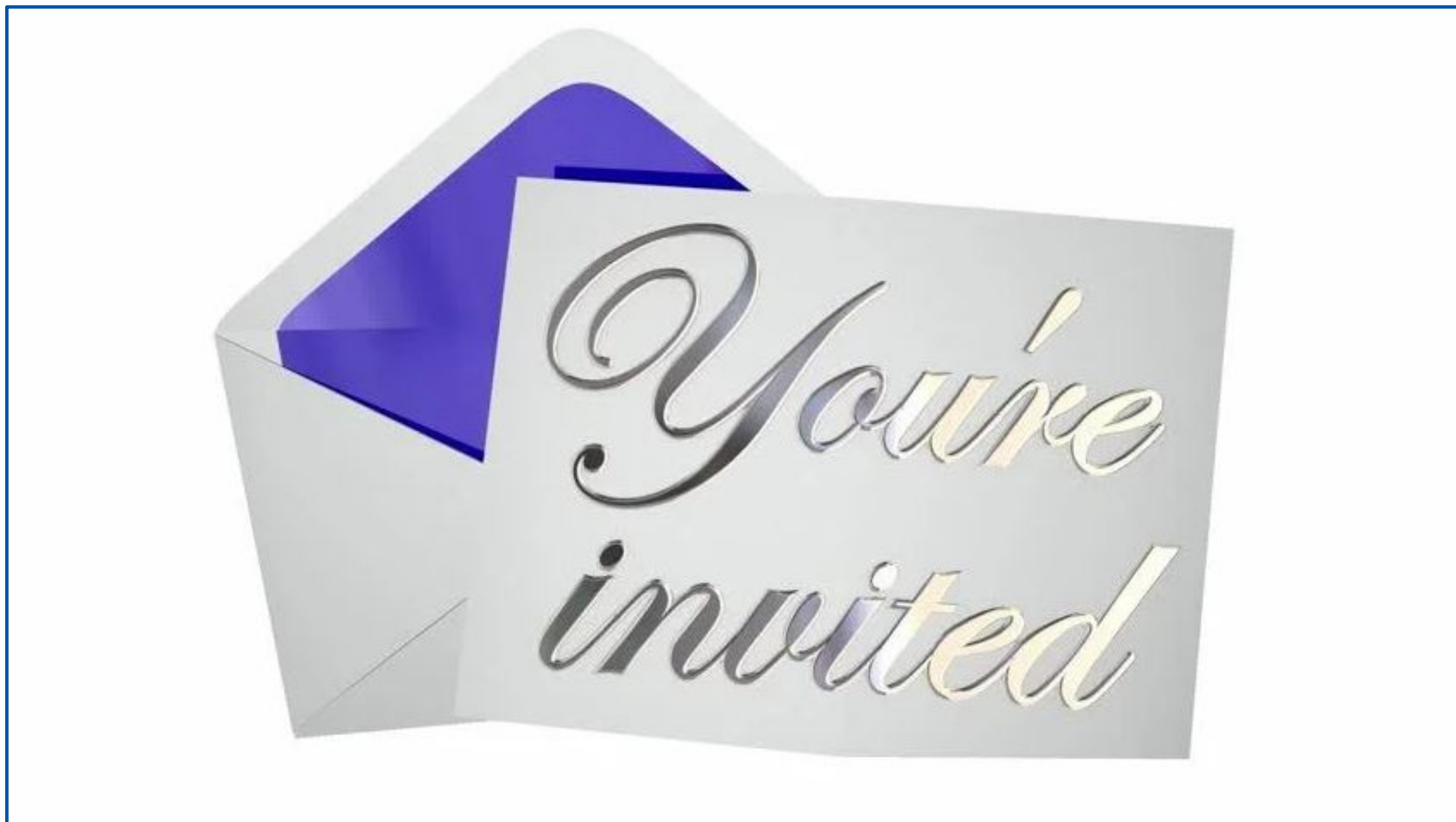
Ricky Arora, *Manager, Performance Excellence & Analytics*

Dave Rude, *Business Analyst 2*

The screenshot displays the MCES Customer Portal website. At the top, a navigation bar includes the Metropolitan Council logo and links for COMMUNITIES, PARKS, TRANSPORTATION, WASTEWATER & WATER (selected), HOUSING, and PLANNING. A left sidebar menu lists: WASTEWATER & WATER (expanded), Planning, Services, Projects, Funding & Finance, Publications & Resources, News & Events, Contact us, and a highlighted link to the Customer Portal. The main content area is titled 'MCES CUSTOMER PORTAL' and contains a descriptive paragraph, a 'Visit the portal' button, and a list of 'Portal Benefits' including customizable dashboards, on-demand data downloads, I/I program information submission, and outreach resources. Below this, 'Program Drivers' are shown with icons for customer access and public outreach materials. On the right, a 'CUSTOMER PORTAL' box features a login icon, and a 'QUICK LINKS' box provides contact information (661-802-1088 or email). A 'NEWSLETTER / TEXT' box at the bottom right includes a subscription form with an email input field and a 'SIGN UP' button.

Customer Portal

We want to build a secure page specifically for you.
What do you want to see?



Any Feedback or Questions?



Thank
you!