



SUMMER *Social* SUMMIT



THURSDAY, JULY 28, 2022

**METROPOLITAN WASTEWATER MANAGEMENT COMMISSION'S
REGIONAL WASTEWATER TREATMENT PLANT**

EUGENE, OREGON

Hosted and Sponsored By:



Metropolitan Wastewater
MANAGEMENT COMMISSION



Thank You to our other Sponsors and Partners:



MWMC Past, Present, and Future of Recycled Water

Welcome to the MWMC! Here we are showcasing the past, present, and future of recycled water as part of our clean water commitment. The MWMC's recycled water program development reflects our mission, vision, and values to provide high-quality services that meet triple-bottom-line outcomes in water quality.

- **Mission:** To protect our community's health and the environment by providing high-quality wastewater services to the Eugene-Springfield metropolitan area in partnership with Eugene, Springfield, and Lane County.
- **Vision:** The MWMC will be recognized as a leader in protecting water quality through sustainable and fiscally responsible practices.
- **Values Statement:** The MWMC strives to provide high-quality services that achieve, sustain, and promote balance between community, environmental, and economic needs while meeting customer service expectations.

The Past: The MWMC has irrigated its interior grounds with treated wastewater since the regional plant came online in 1983 nearly 40 years ago. With upgrades to our satellite Biosolids Management Facility and adoption of the Biocycle Farm in the early 2000s, Class D recycled water use of 60-80 million gallons per year irrigates our 400-acre tree farm and onsite landscaping.

The Present: Starting in 2010, the MWMC began installing new capability in recycled water use, with the addition of tertiary filters to meet Class A recycled water quality and the construction of the West Bank Trail pipeline to deliver up to 10 million gallons per day (MGD) of recycled water to potential offsite industrial users. Full Class A disinfection facilities and conveyance systems are now designed and ready to construct starting in 2023. In 2025, we



expect to be irrigating city street trees, supplying construction aggregate operations, and showcasing 100% recycled water landscape irrigation to the public across our treatment plant property. Initial capacity of 1.3 MGD will supply community demonstration projects with up to 0.5 MGD in its first year of use.

The Future: Our initial Class A recycled water demonstration partners were selected because of their combination of immediate need and potential growth in recycled water use. With community support and funding, we can offset potable water needs of over 3 MGD to irrigate parks and supply construction aggregate operations, as well as expand to other users. As periodic droughts and longer, drier summer periods become the norm, we will be a community partner in being climate resilient and ensuring community livability and economic vitality. Furthermore, vast potential exists for future wetland natural treatment systems to provide high-quality water replenishment to groundwater supplies and river flow, integrating the One Water vision in our regional water resources.

Learn More at mwmcpartners.org/recycled-water (scan this QR code).



WaterReuse Association

The WaterReuse Association is the nation's only trade association solely dedicated to advancing laws, policy, funding, and public acceptance of recycled water. WaterReuse represents a coalition of utilities that recycle water, businesses that support the development of recycled water projects, and consumers of recycled water. Established in California in 1990, WaterReuse now has members in 38 states and 11 countries. The WaterReuse Pacific Northwest Section advances water recycling in Washington, Oregon, and Idaho.

The fundamental principle of water reuse is using the right water for the right purpose, everywhere and all the time. That means aiding and accelerating the natural process of cleaning the water to make it suitable for its intended purpose, from irrigation to industrial uses to drinking.

Our efforts touch on every aspect of promoting water reuse to make it fit for purpose.

Since its founding in 1990, WaterReuse has advocated

for policies, laws, and funding at the state and federal levels to increase the practice of recycling water. Our national office leads the advocacy efforts with the U.S. Congress and federal agencies, including the Bureau of Reclamation and the U.S. Environmental Protection Agency. Seven state sections work with state lawmakers and regulatory agencies to advance state policies on water reuse.

While the science is clear that recycling water is safe, misinformation has contributed to community resistance for water reuse projects. To address that challenge, WaterReuse is expanding its efforts to support members in communicating to their customers and constituencies.

WaterReuse engages the industry through programs including webcasts, committees, and an annual WaterReuse Symposium. The call for presentations for the 2023 WaterReuse Symposium in Atlanta, GA is open through September 30. Submit your presentation today, and learn more about opportunities to engage at our website: waterreuse.org.





Thursday, July 28 Daytime Events

MWMC Water Pollution Control Facility, 410 River Avenue, Eugene, OR

10:00 a.m. Check-in, Refreshments, Exhibits

10:30 a.m. Program

- Welcome & Introduction
- State of Water Reuse in Oregon
- Past, Current, and Future of MWMC Water Recycling

11:30 a.m. Buffet Lunch Break (Burrito Bar)

12:00 p.m. Recycled Water Walking Tour

1:00 p.m. Delta Sand & Gravel Bus Tour

2:30 p.m. Return to MWMC for Closing Comments

3:00 p.m. Summit Transition
(break for evening event)

Thursday, July 28 Evening Events

Plank Town Brewing Company, 346 Main Street, Springfield, OR

5:00 p.m. Networking Event

7:00 p.m. Mill Race Sunset Stroll

Friday, July 29 Morning Events

MWMC Water Pollution Control Facility, 410 River Avenue, Eugene, OR

MWMC Biocycle Farm at the Biosolids Management Facility
29689 Awbrey Lane, Eugene, OR











9:00 a.m. MWMC Wastewater Treatment Plant

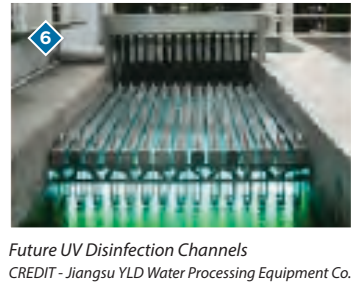
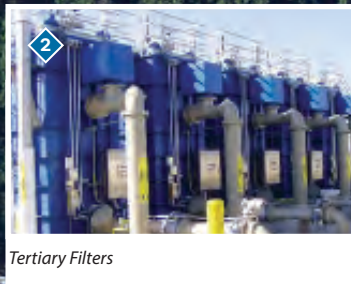
10:30 a.m. Biocycle Farm

Thursday Tour 1: Recycled Water Walking Tour

Get a guided walk-through of the MWMC's current Class D compliant recycled water works and proposed Class A enhanced recycled water quality upgrades which will connect to existing recycled water pipes underlying the West Bank Trail river path.

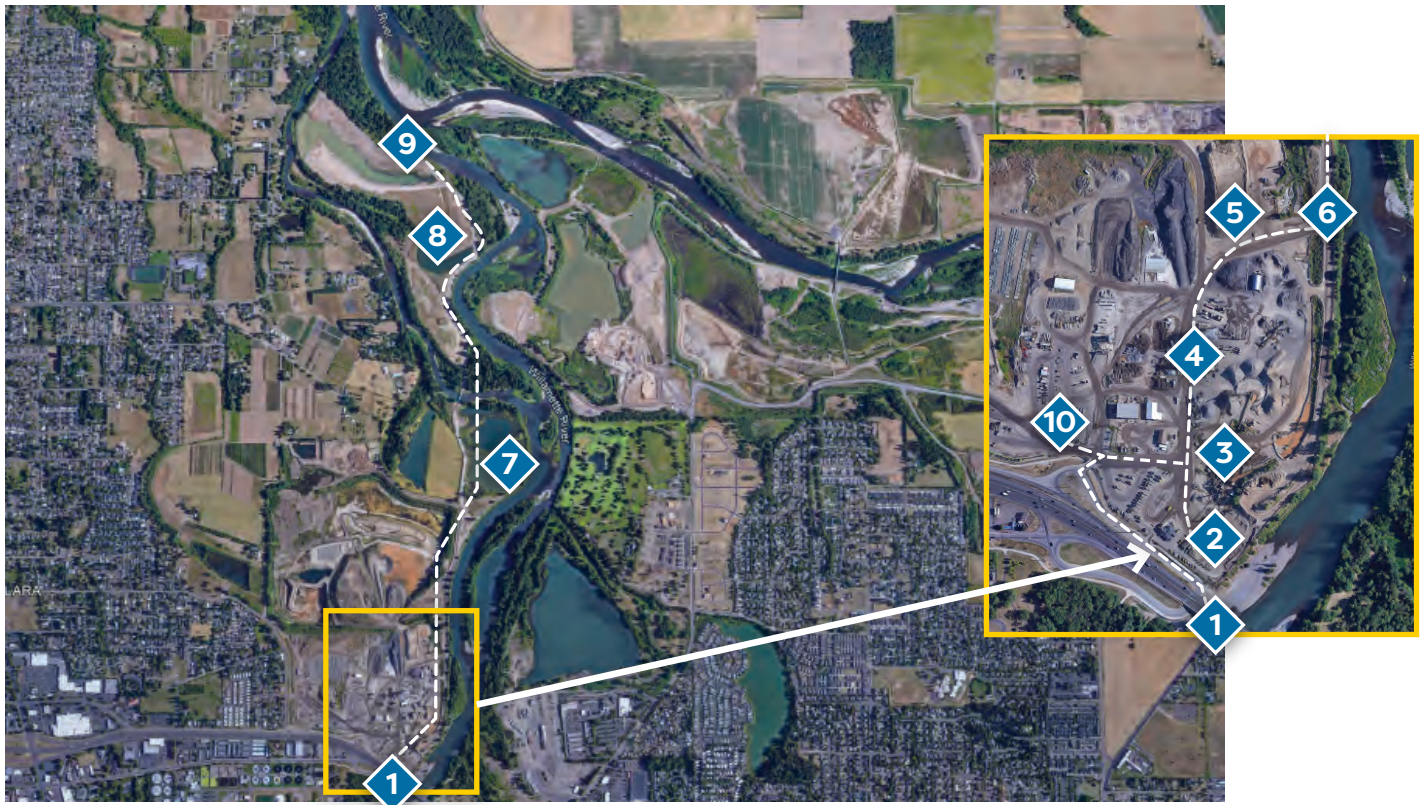


-  Event Gathering Tent
-  Future Tanker Fill Station
-  Secondary and Tertiary Effluent Streams
-  Tertiary Filters
-  Chlorine Contact Basin (CCB)
-  Class D Recycled Water Pump Station
-  Future UV Disinfection Channels
-  High Rate Chlorine Contact Basin (HRCCB)
-  Future Class A Recycled Water Pump Station
-  West Bank Trail Pipeline



Thursday Tour 2: Delta Sand & Gravel Bus Tour

Embark on a bus-window tour of the MWMC's industrial partner in recycled water use. Applications may include equipment wash, dust control, and rock wash. This tour includes viewing silt settling ponds and a stop at Confluence Island, where the Willamette and McKenzie rivers meet and the potential for a full One Water integration of recycled water, wetlands, groundwater, and river water.



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| <ul style="list-style-type: none"> ◆ 1 West Bank Trail Pipeline Terminus and Metering Location ◆ 2 Recycled Water Point of Delivery to Delta Sand & Gravel ◆ 3 Rock Washing Plant ◆ 4 Knife River Concrete & Asphalt Facilities ◆ 5 Equipment Wash Racks | <ul style="list-style-type: none"> ◆ 6 Tanker Fill Station ◆ 7 Process Water Silt Settling Ponds ◆ 8 Confluence Island Gravel Pits ◆ 9 Willamette and McKenzie Rivers Confluence ◆ 10 Wheel Wash Station |
|--|--|





1
West Bank Trail Pipeline Terminus and Metering Location



2
Recycled Water Point of Delivery to Delta Sand & Gravel



3
Rock Washing Plant



6
Tanker Fill Station



8
Confluence Island Gravel Pits



10
*Wheel Wash Station
CREDIT: Meeds Environmental, LLC*

Thursday Tour 3: Mill Race Sunset Stroll

Join City of Springfield staff on a casual guided tour of a former downtown 30-acre mill pond restored for salmon habitat and the adjoining stormwater treatment pond – one of the largest in Oregon. Along with the MWMC’s nearly 2-acre riparian shade planting project upstream of the pond restoration, these projects protect and enhance local water quality.



- ◆ 1 Plank Town Brewing Company
- ◆ 2 Booth-Kelly Trailhead
- ◆ 3 Urban Lumber Poplar Milling Site
- ◆ 4 Stormwater Treatment Pond
- ◆ 5 Mill Pond Restoration Project
- ◆ 6 Riparian Shade Water Quality Trading Credit Site



Springfield's Mill Race



Oregon's largest stormwater pond near Booth-Kelly



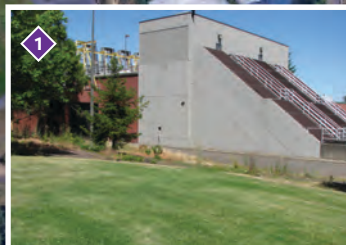
Mill Race before Riparian Shade planting completed



Mill Race after Riparian Shade planting completed

Friday Tour 4: MWMC Wastewater Treatment Plan

Join us for a walk-through of the wastewater treatment process from incoming to outgoing wastewater. MWMC regional wastewater program staff will guide you through each part of the physical, biological, and chemical processes that ensure clean water is returned to the river or continues the journey as recycled water.



Headworks



Renewable Natural Gas (RNG) facility

- 1 Headworks Screw Pumps
- 2 Renewable Natural Gas (RNG) Facility
- 3 Bar Screens and Grit Separators
- 4 Odorous Air Control Facilities
- 5 Primary Clarifiers
- 6 Anaerobic Digesters
- 7 Aeration Basins
- 8 Secondary Clarifiers
- 9 Final Treatment and Disinfection



Primary Clarifiers



Anaerobic Digesters



Aeration Basins



Secondary Clarifiers

Friday Tour 5: Biocycle Farm

Embark on a van tour of the MWMC’s Biosolids Management Facility and our 400-acre poplar tree stand at the adjoining Biocycle Farm. MWMC regional wastewater staff will showcase the MWMC’s current premier use of recycled water to irrigate the trees that are part of the MWMC’s biosolids management strategy and the multiple waste-to-resource assets of our operations.



- 1 Biosolids Management Facility
- 2 Biosolids Drying Beds
- 3 Facultative Sludge Lagoons
- 4 Biosolids Dewatering Belt Filter Presses
- 5 Biocycle Farm Management Unit 1 – Replanted 2016
- 6 Biocycle Farm Management Unit 2 – Replanted 2018-2019
- 7 Recycled Water Irrigation Hose Reels
- 8 Biocycle Farm Management Unit 3 – Harvested 2021



Biosolids Dewatering Belt Filter Presses



Bicycle Farm Management Unit 1 – Replanted 2016



Bicycle Farm Management Unit 2 – Replanted 2018-2019



Recycled Water Irrigation Hose Reels



Irrigation Cart



Bicycle Farm Management Unit 3 – Harvested 2021

More water related attractions to see and do!



Artist Dorothy Siemens from UpStream Art 2021

CITY OF SPRINGFIELD, OR
UpStream Art 2022

July 28-29 Downtown Springfield on A Street, between 3rd Street and 5th Street
8am-4pm

Come watch 5 local artists paint murals around storm drains to improve awareness of the connection between our streets and our rivers.

SEE ART IN ACTION!

Presented and sponsored by the City of Springfield's Stormwater Team

bit.ly/upstreamart



SPRINGFIELD H₂O!

ON DISPLAY
JULY 8 - DECEMBER 31

SPRINGFIELD HISTORY MUSEUM



Hybrid, sustainable poplar available now for purchase at BRING Recycling!

From waste to wood!
MPMC Biocycle Farm poplar grown with recycled water and biosolids.

