

Oregon Water Resources Department

Municipal Reclaimed Water Registration Form

A water use permit may not be required if the water being used is reclaimed water as defined in ORS 537.131 and the reclaimed water use is both authorized by the Oregon Department of Environmental Quality (DEQ) and registered with Oregon Water Resources Department (WRD)(ORS 537.132). Currently there is no fee for registering.

Complete and send this Registration Form to the DEQ permit writer managing the wastewater treatment facility discharge permit. DEQ will review and sign this Registration Form prior to sending it on to WRD in Salem. A response letter will be sent by WRD to all parties within 60 days of receipt.

Instructions are available to guide you. If you need assistance, please call 503-986-0900 and ask for the "Water Reuse Coordinator" or contact the local watermaster in your county. Insert "N/A" if the requested information does not apply to your situation.

1. Name of "Registrant", Who will use the reclaimed water?

Name of Reclaimed Water User: MWMC - Eugene/Springfield Water Pollution Control Facility

County where reclaimed water use will occur: Lane County

Mail Address: 410 River Avenue Eugene Oregon 97404
Street/P.O. Box City State Zip

Daytime Telephone: (541) 682-8600 E-mail: MMiranda@eugene-or.gov

2. Does the reclaimed water user own the land where the use will occur?

YES NO If no, provide the landowner's name and contact information.

Landowner Name: _____

Mail Address: _____
Street/P.O. Box City State Zip

Daytime Telephone: _____ E-mail: _____

3. Are there existing water rights on the same land where the use will occur?

YES (provide information below) NO

Application No. 14865 Permit No. G-13718

Certificate No. 94261 Decree vol. & pg. max. rate 0.84 cfs

Will the reclaimed water be used instead of existing water rights OR used to supplement the continued use of the existing water rights? The water is used to supplement the water right at the Biosolids

4. Has DEQ issued a Municipal Wastewater Treatment Facility Discharge Permit authorizing the use of reclaimed water? (If yes, provide permit number)

YES NPDES Permit No. 102486 or WPCF Permit No. 55999

Permit Effective Date: November 1, 2022 Permit Expiration Date: September 30, 2027

DEQ Region: (Check one) Northwest Region Eastern Region Western Region

NO Permit application was submitted to DEQ, but not yet issued.

NO Permit application has not been submitted to DEQ.

5. Who is treating and supplying the reclaimed water to the user?

Name of Supplier: MWMC - E/S WPCF Telephone No. (541) 682-8600

Treatment Facility Name: MWMC - E/S WPCF Telephone No. (541) 682-8615

Mail Address: 410 River Ave Eugene Oregon 97404
Street/P.O. Box City State Zip

6. Which water provider supplies potable municipal water to the city/community that produces the sewage entering the treatment facility?

Municipal Water Provider: EWEB / SUB(541-746-8451) Telephone No. (541) 685-7000

Source(s) of Municipal Water: EWEB - McKenzie River / SUB - Groundwater
(stream name, groundwater, and/or reservoir name)

7. Will the use of reclaimed water occur inside or outside the water service boundaries of the potable municipal water provider identified above in Question 6?

INSIDE OUTSIDE

8. What is the length in years of the agreement/contract between the reclaimed water user and the reclaimed water supplier? NA

Describe any conditions in the agreement that limit use of the reclaimed water.

MWMC is the supplier and the user of the reclaimed water.

9. Please describe the transmission system that delivers reclaimed water from the wastewater treatment facility to the place of reclaimed water use.

Recycled water is pumped from the treatment plant to the Biosolids Management Facility (BMF) through a 5.5 mile force main. A 2,800 gpm/150 psi recycled water pump is used.

(Include type of construction of diversion works/pump capacity, length and dimensions of supply ditches/ pipelines)

10. What is the Intended Use(s) of Reclaimed Water?

Irrigation of poplar trees and process water for belt filter press wash water when dewatering.
(irrigation, aquifer recharge, wellands, industrial, cooling, aquifer storage & recovery, etc.)

Irrigation Total Acres: 395 What type of crop? Poplar Trees
(hay, pasture, golf course, wood fiber, etc.)

What is the irrigation application system? Hose reel irrigation system
(flood, center pivot, wheel line, drip, micro-sprinklers)

How much Reclaimed Water will be used? 2,800 gpm
(cubic feet per second, OR gallons per minute)

Date use began or will begin: NA Period of use (month/day): from May 1 to Oct 31

11. What are the water user's motivations to use reclaimed water?

- My existing water rights are "junior" and not always reliable.
- Another water source is available, but reclaimed water is less expensive.
- Reclaimed water is the only source available and enables the use listed in Question 10.
- Reclaimed water allows a WRD transfer of existing water rights to a different location.
- Reclaimed water use reduces demand on the local municipal water supply.
- To assist the treatment facility in meeting DEQ regulatory permit requirements.
- To recharge the aquifer or store water in the aquifer for future recovery.
- Other (describe): Provide supplemental water supply for crop irrigation.

12. Describe the historic reclaimed water disposal method.

A) Into which stream was the reclaimed water discharged? Willamette River

B) Has the reclaimed water been discharged into the stream for 5 or more years?
 YES NO

C) Where did the treated wastewater historically enter the stream?
River mile 178, same location as the outfall for the facility's treated effluent.
(Township, Range and Section, or distance from landmark, or river mile, or Lat/Long)

D) Does the amount (rate in gpm or cfs) of reclaimed water proposed for use under this registration represent more than 50% of the total average annual flow of the stream?
 YES NO UNKNOWN

Source of information used to answer this? USGS

13. Is the required map attached showing the reclaimed water transmission system and place of use? YES NO (If No, please prepare and attach map).

The Registration Form is not complete without an adequate map.
See map requirement explanation on page 4.

14. MAP REQUIREMENTS:

This registration must be accompanied by a map, or maps, to show the location of the wastewater treatment facility, location of reclaimed water transmission system (pipelines, canals, etc.) and the place of reclaimed water use. Features of the map(s) should include the following:

- A north arrow.
- Drawn to scale at not less than 4" = 1 mile, with the scale identified.
- Township, Range, Section, Quarter-Quarters, and tax lot number(s).
- Place of use shown by Quarter-Quarter section with shading or diagonal lines.
- Acres, if land application, per Quarter-Quarter section (approximate if not certain).
- Location of main canals or pipelines to and within the reclaimed water use area.
- Streams and roads identified if they cross through the map.
- Other obvious features that would help someone in the field locate the place of use.
- A legend.


**A map showing the wastewater treatment facility, transmission system, and place of use at a scale of 4" = >1 mile is fine only if a second map is provided showing the place of use at not less than 4" = 1 mile.*

15. ADDITIONAL COMMENTS: Provide additional information here or attach additional pages.

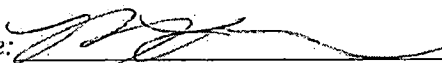
16. Signatures of Registrant and Reclaimed Water Supplier:

I/We certify that the information provided in this Registration Form is an accurate representation of the proposed reclaimed water use to the best of my knowledge:

Registrant Printed Name: Michelle Miranda Title: Division Director

Registrant Signature:  Date: 10/31/2022

Supplier Printed Name: Michelle Miranda Title: Division Director

Supplier Signature:  Date: 10/31/2022

NOTE: Once completed and signed, keep a copy and send this form to the DEQ permit writer responsible for the wastewater treatment facility permit. DEQ will sign and forward the form to WRD in Salem. A response letter will be sent by WRD to all parties within 60 days.

This section is to be completed by DEQ

17. Signature of DEQ Water Quality Manager:

Date registration form received at DEQ: 11/23/2021

Pursuant to ORS 537.132 DEQ has:

- a) Authorized the use of reclaimed water (referred to by DEQ regulations as "recycled water") as evidenced by the NPDES or WPCF permit issued and described below.

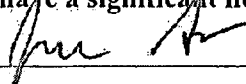
Permit Number: 102486 DEQ File Number: 55999

Printed DEQ Permit Writer's Name: Vanessa Rose

Mail Address: 4026 Fairview Industrial Drive SE, Salem, OR 97302
Street/P.O. Box City State Zip

Telephone: 503-378-5055 E-mail: trinh.hansen@deq.oregon.gov

- b) Consulted with State Department of Fish and Wildlife and determined this use of reclaimed water shall not have a significant negative impact on fish or wildlife.

ODFW contact name: Joe Stack 

ODFW contact phone number: 541-757-5301

- c) Determined the use of reclaimed water is intended to improve the water quality of the receiving stream.

The reclaimed water is (e.g. too warm for salmonids): _____

to assist in meeting state temperature standards for salmonids in the summer months.

I certify the provisions of ORS 537.132(1)(a)(b) and (c) for this application are satisfied.

Zachary J. Loboy Date 12/06/2022
DEQ Water Quality Manager Signature

Zachary J. Loboy
DEQ Water Quality Manager's printed name

Once signed by DEQ, this completed form is to be sent to:

Oregon Water Resources Department
C/O Water Reuse Coordinator
725 Summer St. NE, Suite A
Salem, OR 97301-1266

Attachment A

Question 3. The recycled water is used to irrigate poplar trees and to supply water to the de-watering facility at the Biosolids Management Facility (BMF). Well water from water rights associated with the site is also used to supply water to the de-watering facility. At the beginning of the biosolids processing season both recycled water and well water are used in the process. Once staff begins watering poplar trees, the recycled water is used.

Question 5. The WPCF, located at 410 River Ave., Eugene OR, treats and supplies recycled water to the BMF and Biocycle (Poplar) Farm, located at 29689 Awbrey Lane, Eugene OR. The property is owned and managed by the Metropolitan Wastewater Management Commission (MWMC). Recycled water is used within the MWMC's fence line.

See attachment – **Figure 1 – MWMC WPCF**

Question 6. The other water provider for the community is Springfield Utility Board (SUB) which obtains its water primary from wells. The wells are supplemented by water from the Middle Fork of the Willamette River.

Question 7. The BMF is inside the water service boundary of Eugene Water and Electric Board (EWEB) but outside the water service boundary of SUB. Most of the poplar farm, adjacent to the BMF is outside EWEB's and SUB's service areas.

Questions 9. and 10.

Transmission system from WPCF to BMF. The recycled water is conveyed to the BMF, which is located approximately 5.5 miles northwest of the WPCF. The recycled water has a maximum flow of 2,800 gpm. However, due to limited pressure rating for part of the recycled water pipeline to the BMF, the maximum flow conveyed to the BMF is approximately 1950 gpm to limit pressure in the pipeline below 100 psi. The pipeline from the WPCF to NW Expressway is 16-inch high-density polyethylene (HDPE). From NW Expressway to Awbrey Lane, the line reduces to 12-inch HDPE and ductile iron pipeline (DIP). From near Awbrey Lane to the BMF, the pipeline consists of 16-inch HDPE. There is a flow meter at the WPCF on the recycled water line to the BMF that measures the recycled water that is applied directly to the adjacent Poplar Farm.

See attachments – **Figure 2 – MWMC Infrastructure** for route of recycled water (W2) pipeline from WPCF to the BMF and Biocycle (Poplar) Farm and **Figure 3 – MWMC Reclaimed Water Conveyance and Biocycle Farm Irrigation Loop.**

Conveyance of Recycled Water at BMF to Dewatering process or Biocycle Farm. At the BMF, the recycled water can be directed to the Reuse Pump Station located at the BMF and applied to the adjacent Biocycle (Poplar) Farm through a 16-inch HDPE, 4.5-mile irrigation continuous loop supply pipeline. Up to 400 gpm of recycled water can be used on the belt filter presses as wash water. The period of use is typically from March through September. At the beginning of the season, typically recycled water and well water are used in the dewatering process. By late May or early June each season, recycled water is designated for the Poplar Farm and the dewatering process uses primarily well water and city water. For irrigation of the Poplar Farm, the pipeline includes 4-inch risers with valves spaced throughout the farm in the three management units. There is approximately one riser for every four tree rows in each unit. Up to 10 hose reels may be connected at one time to any of these risers and operated simultaneously at a constant and equal flow rate of 250 gpm per hose reel, at 40 psi at the irrigation nozzles. Flow rate is monitored through magnetic flow meters. The hose reels irrigation carts are extended up to 140 feet with farm tractor and reeled in at controlled speeds to supply the desired irrigation application rates.

See attachments – **Figure 4 – MWMC Reuse Site Layout Map**, **Figure 5 – MWMC Biocycle Farm Reuse Water Irrigation Application Areas**, and **MWMC Biocycle Farm Reuse Water Irrigation Application Area Taxlots.**

MWMC has a DEQ approved Recycled Water Use Plan that is available upon request.

RURAL RESIDENTIAL
LAND USE

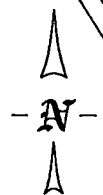
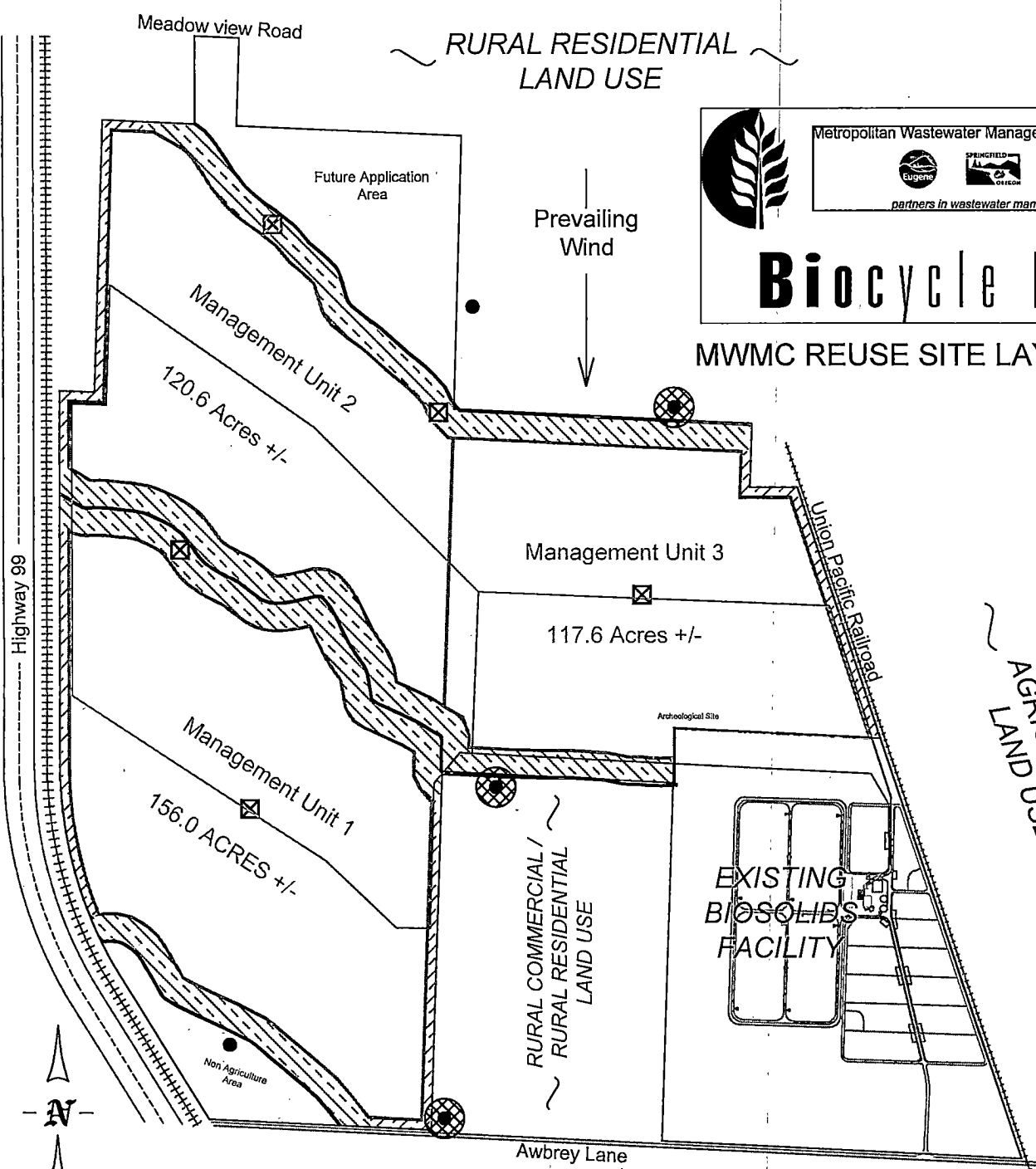


Metropolitan Wastewater Management Commission
 EUREKA SPOKESFIELD OREGON
 partners in wastewater management

Biocycle Farm

MWMC REUSE SITE LAYOUT MAP

Prevailing Wind
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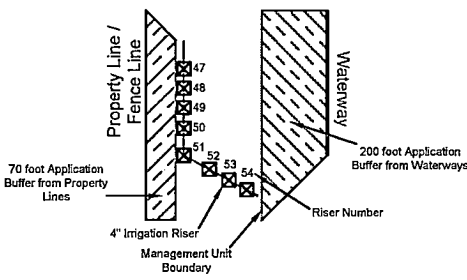


NO SCALE

Legend

- Property Boundary / Fence Line
- Waterway
- Pipeline (Approx 17800 Ft)
- Management Unit (394.2 Acres)
- Unusable Area
- Groundwater Monitoring Well
- 70 foot Buffer from Property Lines
- 200 foot Buffer, from Surface Water Sources
- 100 foot Buffer from Domestic Water Sources
- Domestic Water Source

Typical Information



Fence Detail

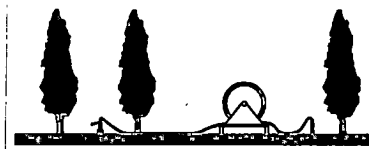
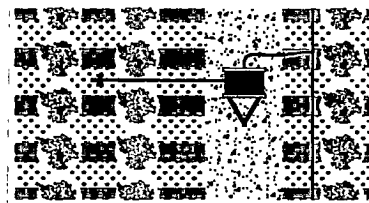
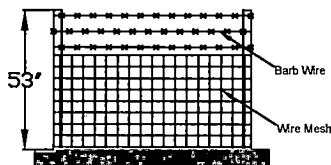
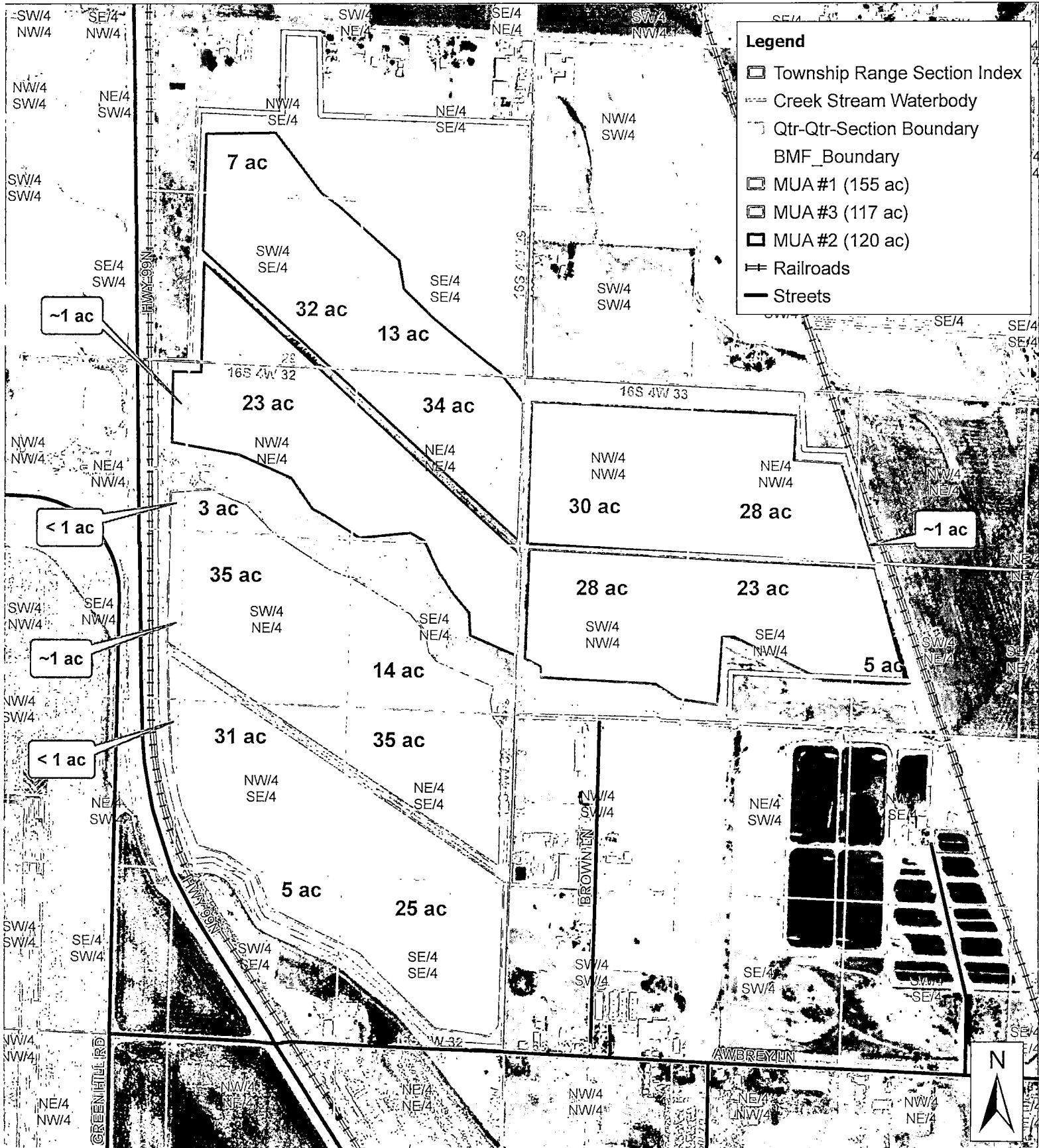
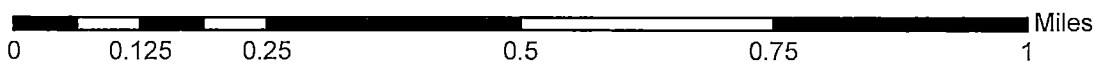


Figure: 4

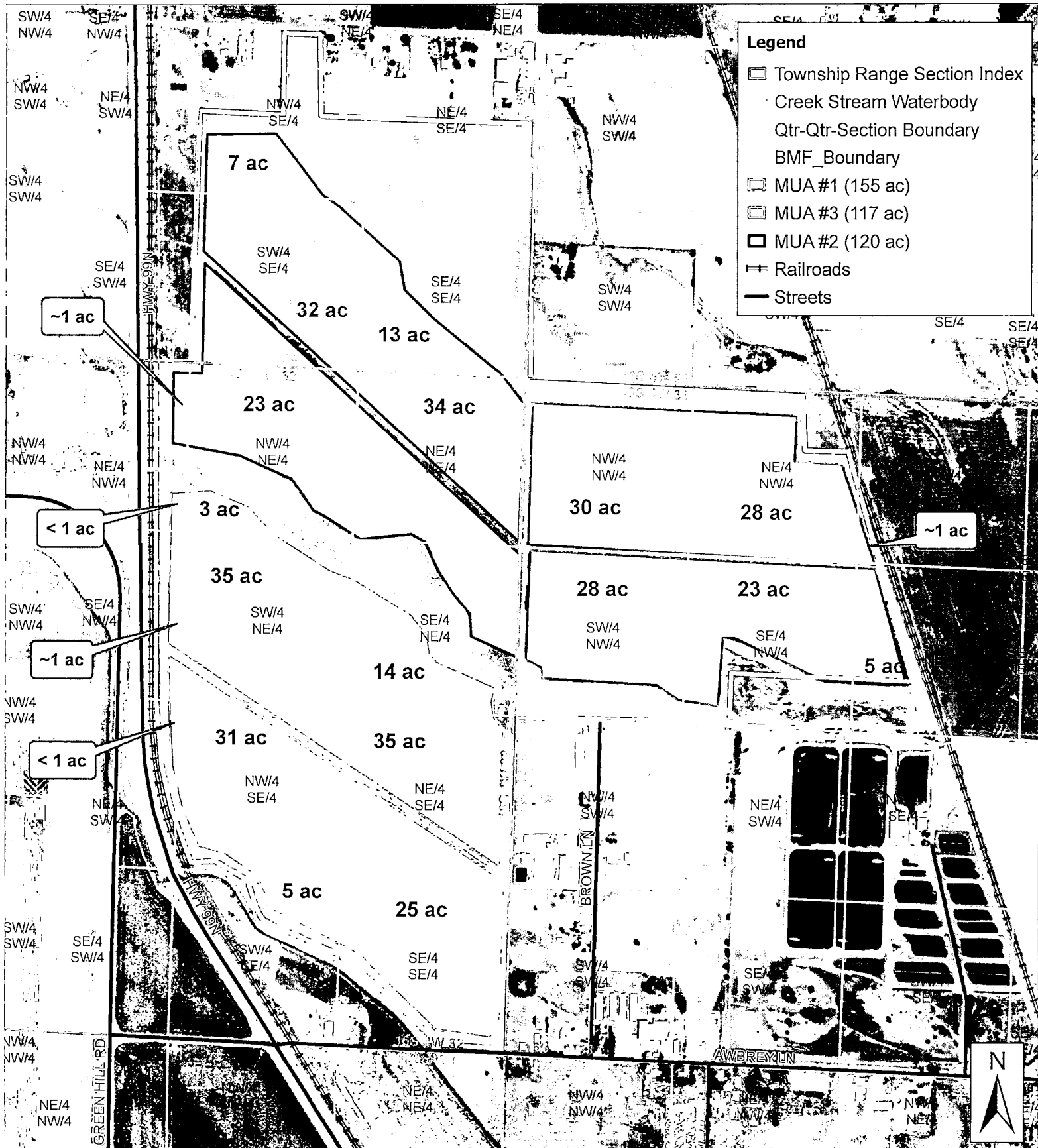
MWMC Biocycle Farm Reuse Water Irrigation Application Areas - Figure 5



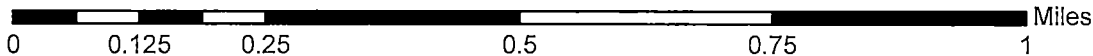
Caution:
This map is based on imprecise source data, subject to change, and for general reference only.



MWMC Biocycle Farm Reuse Water Irrigation Application Areas - Figure 5



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MWMC Biocycle Farm Reuse Water Irrigation Application Area Taxlots



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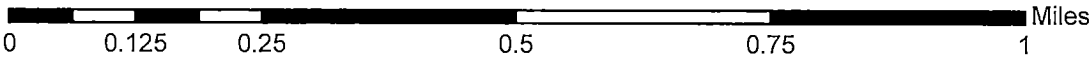
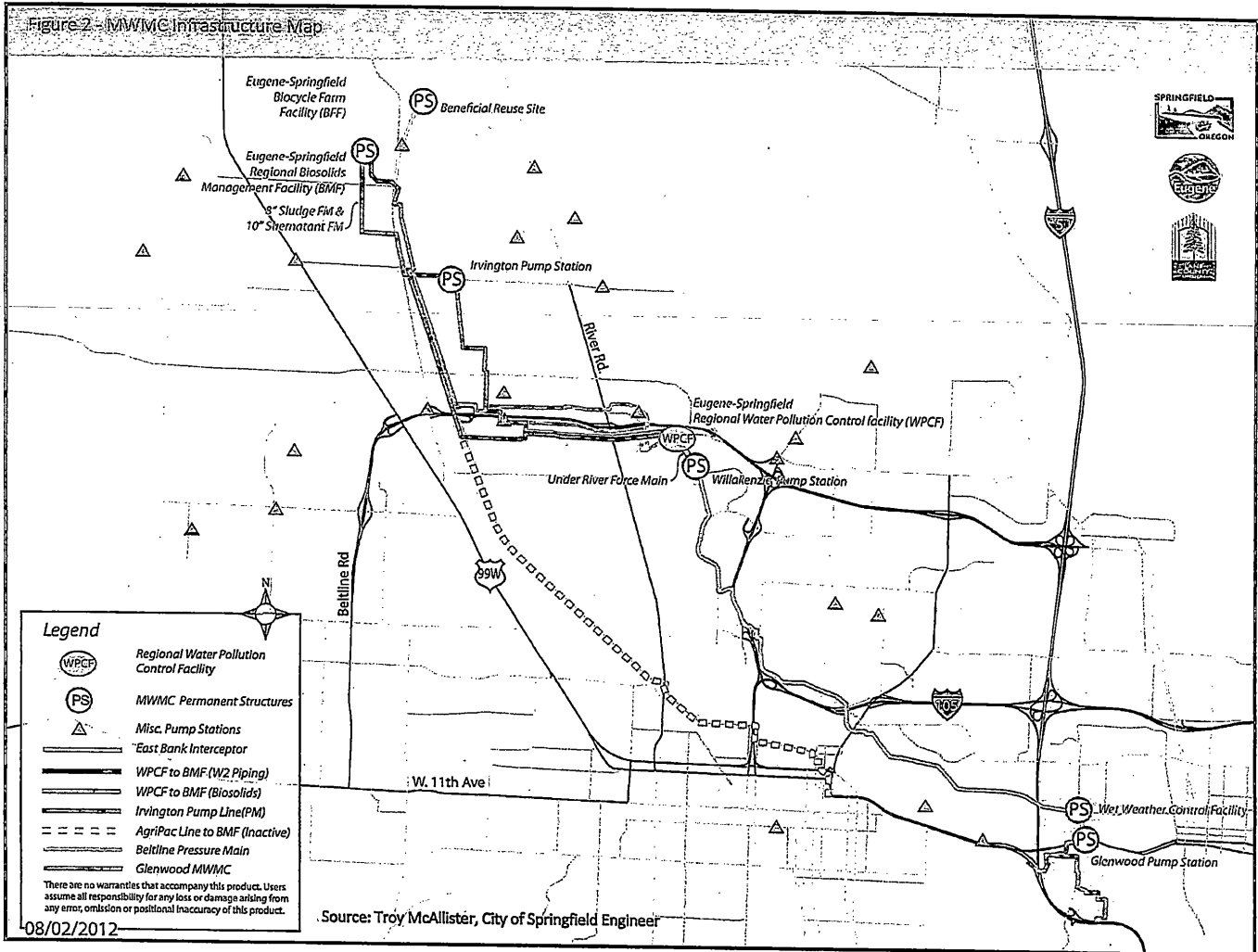


Figure 2 - MWWC Infrastructure Map





Metropolitan Wastewater Wastewater Treatment



RECLAIMED WATER REGISTRATION CHECKLIST

RM (assigned by Kerri): 238 County: Lane

Registrant (User of Water): MWMC Eugene Springfield Pollution Control Facility

Place of Use:

Twp	Rng	Mer	Sec	Q-Q	GLot	Acres	Location Description	Contract Years in Length
16 S	4 W	WM	29	NW SE		7.0	Management unit 2	5
16 S	4 W	WM	29	SW SE		32.0	Management unit 2	5
16 S	4 W	WM	29	SE SE		13.0	Management unit 2	5
16 S	4 W	WM	32	NE NE		34.0	Management unit 2	5
16 S	4 W	WM	32	NW NE		23.0	Management unit 2	5
16 S	4 W	WM	32	NW NE		3.0	Management unit 1	5
16 S	4 W	WM	32	SW NE		35.0	Management unit 1	5
16 S	4 W	WM	32	SE NE		10.0	Management unit 2	5
16 S	4 W	WM	32	SE NE		14.0	Management unit 1	5
16 S	4 W	WM	32	NE NW		1.0	Management unit 1	5
16 S	4 W	WM	32	NE NW		1.0	Management unit 1	5
16 S	4 W	WM	32	SE NW		1.0	Management unit 1	5
16 S	4 W	WM	32	NE SW		1.0	Management unit 1	5
16 S	4 W	WM	32	NE SE		35.0	Management unit 1	5
16 S	4 W	WM	32	NW SE		31.0	Management unit 1	5
16 S	4 W	WM	32	SW SE		5.0	Management unit 1	5
16 S	4 W	WM	32	SE SE		25.0	Management unit 1	5
16 S	4 W	WM	33	NW NE		1.0	Management unit 3	5
16 S	4 W	WM	33	SW NE		5.0	Management unit 3	5
16 S	4 W	WM	33	NE NW		28.0	Management unit 3	5
16 S	4 W	WM	33	NW NW		30.0	Management unit 3	5
16 S	4 W	WM	33	SW NW		28.0	Management unit 3	5
16 S	4 W	WM	33	SE NW		23.0	Management unit 3	5

6.238 cfs

Amount: 2800 GPM Use: IRRIGATION USE # of Acres (if for IR): 395 WM Dist #: #2

Supplier of the Reclaimed Water: MWMC Eugene Springfield Pollution Control Facility

DEQ Muni WW Permit #: 102486 DEQ File # 55999

Source of Reclaimed Water (Wastewater treatment plant): Groundwater LANE 58762/L19511

Streamcode-02114015800020100-unn>FLATT CR

Point of Diversion:

Twp	Rng	Mer	Sec	Q-Q
16 S	4 W	WM	33	NW SE

Agent (if any): Justin Sterger

Property Ownership: Does Registrant own all land for the proposed project? Yes No

If No: The affected landowner's name and mailing address is listed. Notes:

The map must meet the following minimum requirements.

Township, Range, Section

Streams and roads identified as they cross through the map

- Place of use, Q-Qs, and tax lot clearly identified
- Even map scale of not less than 44" = 1 mile (1" = 1320 ft.)
- Location of each diversion point (WW Treatment Plant)
- North Directional Symbol
- Number of acres per Q-Q if for irrigation, nursery, or agriculture—na USE IS INDUSTRIAL
- Legend

* *A map showing the wastewater treatment facility, transmission system and place of use at a scale of 4" = 1 mile is fine, **only if** a second map is provided showing the place of use at not less than 4" = 1 mile.*

- Signature of **all** Registrants and Reclaimed Water Supplier
- DEQ section (17) is completely filled out and signed
- Existing Water Rights: Certs-27805-77011

DO NOT send registration back to applicant if it is not complete. ALL registrations go to Joan Smith.

Reviewed by: *Joan Smith*

Date: 3/14/2023

*Remember there is no fee for Reclaimed Water Registrations