State of Oregon
Department of Environmental Quality
700 NE Multnomah St. Suite 600, Portland, OR 97232

DEQ use only

Recycled Water Annual Report
Part I: Recycled water production and disposition

A. REPORTING PERIOD

1. This report is for recycled water produced during the calendar year: 2022

B. PERMIT INFORMATION

1. Permit Type (select one): ■ NPDES or ☐ WPCF | DEQ File No.: 57613
   DEQ Permit No.: 101514 | EPA Permit No.:

C. FACILITY INFORMATION

1. Legal name of facility: Molalla Sewer Treatment Plant
2. **Physical address**
   Street Address: 12424 S. Toliver Rd
   City: Molalla | State: OR | Zip code: 97038
3. **Mailing address** ☐ Same as physical address.
   Mailing Address: PO Box 248
   City: Molalla | State: OR | Zip code: 97038
4. **Facility Type (check all that apply)**
   - ■ Major or Tier 1 facility (design flow of 1 mgd or greater, or serving a population of 10,000 or greater)
   - ☐ Minor or Tier 2 facility (design flow less than 1 mgd or serving a population less than 10,000)
   - ☐ Class I wastewater treatment facility (i.e., facility with a pre-treatment program)
   - ☐ Other, please specify:

D. CONTACT INFORMATION

1. **Responsible official**
   Name: Andy Peters | Title: Public Works Operations Supervisor
   Email Address: apeters@cityof molalla.com | Telephone: 503-283-6855
   Mailing Address: PO Box 248
   City: Molalla | State: OR | Zip code: 97038
2. **Recycled water contact** ☐ Same as responsible official
   Name: Seth Kelly | Title: Wastewater Treatment Lead Operator
   Email Address: skelly@cityofmolalla.com | Telephone: 503-302-3600
   Mailing Address: PO Box 248
   City: Molalla | State: OR | Zip code: 97038

E. RECYCLED WATER TREATMENT PROCESSES

Please indicate the recycled water treatment processes used at your facility (mark all that apply)

	Treatment technology	Filtration technology	Disinfection technology
1.	☐ Primary Clarifier ☐ Secondary Clarifier ■ DAF ■ Lagoon ☐ Membrane reactor ☐ Trickling filter ☐ Other:	☐ Sand filter ■ Mixed media filter ☐ Bio-filtration ☐ Artificial wetland ☐ Other:	☐ Ultraviolet ☐ Chlorine ☐ Ozone ☐ Paracetic acid ☐ Hydrogen peroxide ■ Hypochlorite ☐ Pasteurization ☐ Other:

F. RECYCLED WATER SAMPLING and PRODUCTION

Select your facility's regulatory monitoring frequency:

	Water Class	A	B	C	D	Non-disinfected
1.	Monitoring frequency	☐ Daily/hourly	☐ 3/week	■ 1/week	☐ Once per month	☐ As specified in permit
	Parameters	Total Coliform (daily) Turbidity (hr)	Total coliform	Total coliform	*E. coli*	As Specified in permit
2.	**Please indicate total volume of each class of recycled water produced at your facility.**					
	Total quantity produced (gal)			99.397		

G. SUMMARY OF ATTACHMENTS

Information required with some annual reports:

1. ☐ Additional copies of tables in Part II for all recycled water produced during the calendar year.
   ■ Laboratory reports showing analytical results only. **NO LAB QA/QC**

Example of documentation held by the permittee and available upon request:

2. ■ Additional land application site information.
   ■ Daily irrigation and records.
   ☐ Nitrogen loading calculations
   ■ Daily or hourly sampling results

H. SIGNATURE OF LEGALLY AUTHORIZED REPRESENTATIVE

I certify that the information in this report is true, correct and representative of the recycled water produced at my facility to the best of my knowledge and belief. Information and records used or referenced with this report will be maintained and made available to the Oregon Department of Environmental Quality on request.

Signature: Seth Kelly | Title: Lead Operator | Date: 01/11/2023

Print Name: Seth Kelly

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Recycled Water Annual Report
Part II: Sampling and Monitoring Summary

I. RECYCLED WATER CLASSIFICATION

	Month	Turbidity (NTU)				Total Coliform (organisms/100mL)					*E. coli* (organisms/100mL)				
		Max 24hr Mean	Avg 24 hr mean	Max	Ave	# of samples	Max 7day median	Avg 7day median	Max	Ave	# of samples	Max 30day log mean	Avg 30day log mean	Max	Ave
1.	Jan														
2.	Feb														
3.	Mar														
4.	Apr														
5.	May														
6.	Jun														
7.	Jul			.5	.3	26	4.2	6	8.6	2.7					
8.	Aug			.6	.4	23	1.7	1.5	12.2	6.3					
9.	Sep			.6	.5	30	10.4	1.6	11.0	5.1					
10.	Oct			.5	.4	18	<1	<1	2.0	<1					
11.	Nov														
12.	Dec														
13.															
14.															
15.	Annual														

Attach additional pages as needed to report all sampling.

** *Please attach laboratory report showing sample results only. No lab QA/QC.*

J. RECYCLED WATER CHARACTERIZATION

	Month	pH (SU)				Residual Cl (mg/L)				Sodium (mg/L)			
		# of samples	Min	Max	Ave	# of samples	Min	Max	Ave	# of samples	Min	Max	Ave
1.	Jan												
2.	Feb												
3.	Mar												
4.	Apr												
5.	May												
6.	Jun												
7.	Jul	8	6.7	7.5	7.1	26	0.57	4.30	1.64				
8.	Aug	9	6.9	7.5	7.2	28	0.29	3.20	1.15				
9.	Sep	9	7.0	7.3	7.2	30	0.26	2.17	0.93				
10.	Oct	6	7.3	7.4	7.4	18	0.60	3.90	1.39				
11.	Nov												
12.	Dec												
13.													
14.													
15.	Annual												

Attach additional pages as needed to report all sampling.

*** Please attach laboratory report showing sample results only. No lab QA/QC.*

K. RECYCLED WATER NUTRIENT

Month	Nitrogen TKN (mg/L)			Nitrogen NO2 + NO3 (mg/L)			Ammonia NH3-N (mg/L)			Phosphate PO4 (mg/L)			Potassium K (mg/L)		
	# of samples	Max	Ave	# of samples	Max	Ave	# of samples	Max	Ave	# of samples	Max	Ave	# of samples	Max	Ave
Jan															
Feb															
Mar															
Apr															
May															
Jun	1	10.6	10.6	1	2.06	2.06	1	7.87	7.87	1	0.051	0.051			
Jul															
Aug															
Sep															
Oct	1	8.62	8.62	1	2.53	2.53	1	11.1	11.1	1	0.052	0.052			
Nov															
Dec															
Annual															

Attach additional pages as needed to report all sampling.

*** Please attach laboratory report showing sample results only. No lab QA/QC.*

L. RECYCLED WATER APPLICATION

	Site Name:	North Coleman	Site Name:	South Coleman	Site Name:	Cemetary	Site Name:	WWTP
	Class:	A	Class:	A	Class:	A	Class:	A
	Use or Crop:	Pasture	Use or Crop:	Pasture	Use or Crop:	Ornamental	Use or Crop:	Ornamental
	Area (acres):	270	Area (acres):	163	Area (acres):	3.4	Area (acres):	8.1
	Agronomic rate:	50 N/ac	Agronomic rate:	50 N/ac	Agronomic rate:		Agronomic rate:	
	Soil moisture monitoring:	Moisture Blocks	Soil moisture monitoring:	Moisture Blocks	Soil moisture monitoring:	Moisture Blocks	Soil moisture monitoring:	Moisture Blocks
	Additional N sources:	Manure	Additional N sources:	Manure	Additional N sources:		Additional N sources:	

Month	# of days discharging	Total Volume applied	Ave Daily Loading	Max Daily Loading	# of days discharging	Total volume applied	Ave Daily Loading	Max Daily Loading	# of days discharging	Total Volume applied	Ave Daily Loading	Max Daily Loading	# of days discharging	Total Volume applied	Ave Daily Loading	Max Daily Loading
		gal	in	in		gal	in	in		gal	in	in		gal	in	in
Jan																
Feb																
Mar																
Apr																
May																
Jun																
Jul	23	18.121			17	7.103										
Aug	26	22.209	0.1	0.2	19	10.562	0.1	0.2	7	.407	0.1	0.4				
Sep	30	22.994	0.1	0.2	13	5.684	0.1	0.1	2	.018	0.0	0.0				
Oct	10	5.996	0.1	.1	15	6.276	0.1	0.1								
Nov																
Dec																
Annual	89	69.32	0.1	.2	64	29.625	0.1	.2	9	4.25	0.1	0.4				

Attach additional pages as needed to report all sites.

$$Daily\ Loading\ (inches) = \frac{\text{Volume Applied (gallons)}}{\text{Area (acres)}\ x\ 27{,}152\ (\frac{gallons}{acre\ inches})}$$