

Oregon Department of Environmental Quality
RECYCLED WATER USE PLAN SUMMARY



Directions: Check (✓) appropriate boxes for tables and provide brief narrative where necessary. Submit with Recycled Water Use Plan to DEQ.

APPLICANT INFORMATION

Facility Name:
Address:
Contact Name/Phone Number:

TYPE OF WASTEWATER TREATMENT PLANT

Activated Sludge	Re-circulating Gravel/Sand Filter
Mechanically Aerated Lagoon	Rotating Biological Filter
Aerated Lagoon	Other (Specify):

Average Dry Weather Flow, million gallons per day (MGD): _____

TREATMENT CLASS IN ACCORDANCE WITH OAR 340-055-0012

Class A	Class C
Class B	Class D
Non-Disinfected water	

TREATMENT EFFICIENCY CAPABILITY DURING REUSE

Tertiary Treatment	85% or more BOD/TSS removal
95% or more BOD/TSS removal	Rotating Biological Filter
90% or more BOD/TSS removal	Other (Specify):

DISINFECTION METHOD

Chlorine injection just prior to irrigation	
Chlorine injection with storage of recycled water	
Chlorine injection after storage just prior to irrigation	
UV exposure just prior to irrigation	
UV exposure with storage of recycled water	
UV exposure after storage just prior to irrigation	
Other (specify):	

STORAGE IMPOUNDMENT

	Y	N
Is there a storage facility proposed for this project?		
If yes, at the WWTP		
If yes, located at a location other than the WWTP		
If yes to either of the above, specify the location and length of time the storage facility will be used:		

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ARE THERE ALARMS FOR VARIOUS UNIT PROCESSES?

	Y	N
Are alarms independent of the normal power supply of the plant?		
Failure of a disinfection treatment process?		
Failure of a clarification process?		
Failure of a coagulation process?		
Failure of a filtration process?		
Are the alarms on separate circuit breakers from the reuse pumps?		
Is the Recycled Water back-up generator tested regularly?		

IN THE EVENT OF POWER LOSS:

	Y	N
Can the plant continue to discharge?		
Can there be any irrigation of non-disinfected water?		
If no to either of the above, specify control measures that will be in place to stop the irrigation as soon as possible.		

RECYCLED WATER WILL BE BENEFICIALLY USED FOR THE FOLLOWING (CHECK ALL THAT APPLY):

✓	Beneficial Purpose	Class				
		A	B	C	D	ND
	Irrigation					
	Fodder, fiber, seed crops not intended for human ingestion, commercial timber	Y	Y	Y	Y	Y
	Firewood, ornamental nursery stock, Christmas trees	Y	Y	Y	Y	N
	Sod	Y	Y	Y	Y	N
	Pasture for animals	Y	Y	Y	Y	N
	Processed food crops	Y	Y	Y	N	N
	Orchards or vineyards if an irrigation method is used to apply recycled water directly to the soil	Y	Y	Y	N	N
	Golf courses, cemeteries, highway medians, industrial or business campuses	Y	Y	Y	N	N
	Any agricultural or horticultural use	Y	N	N	N	N
	Parks, playgrounds, school yards, residential landscapes, other landscapes accessible to the public	Y	N	N	N	N
	Industrial, Commercial, or Construction					
	Industrial cooling	Y	Y	Y	N	N
	Rock crushing, aggregate washing, mixing concrete	Y	Y	Y	N	N
	Dust control	Y	Y	Y	N	N
	Nonstructural fire fighting using aircraft	Y	Y	Y	N	N
	Street sweeping or sanitary sewer flushing	Y	Y	Y	N	N
	Stand alone fire suppression systems in commercial and residential buildings	Y	Y	N	N	N
	Non-residential toilet or urinal flushing, floor drain trap priming	Y	Y	N	N	N
	Commercial car washing	Y	N	N	N	N
	Fountains when the water is not intended for human consumption	Y	N	N	N	N

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✓	Beneficial Purpose	Class				
		A	B	C	D	ND
	Impoundments or Artificial Groundwater Recharge					
	Water supply for landscape impoundments including, but not limited to, golf course water ponds and non-residential landscape ponds	Y	Y	Y	N	N
	Restricted recreational impoundments	Y	Y	N	N	N
	Nonrestricted recreational impoundments including, but not limited to, recreational lakes, water features accessible to the public, and public fishing ponds	Y	N	N	N	N
	Artificial groundwater recharge	Y	N	N	N	N
	Other (describe):					

PAGES 4 & 5 REQUIRED FOR IRRIGATION ONLY

THE IRRIGATION AREA WILL BE USED FOR THE FOLLOWING (CHECK ALL THAT APPLY):

Crops (specify types):
Pasture
Forest
Public access areas (specify types):
Natural areas (specify species or mix):
Other (specify):

APPLICATION RATE

	Y	N
Will irrigation be controlled not to exceed the water consumption rate of the crop being grown?		
Will irrigation be controlled not to exceed the nutrient requirements of the crop being grown?		

What is the proposed application rate of the recycled water? _____

Acreage of irrigation site _____

The months that irrigation will be permitted _____

If irrigation occurs with Class C recycled water at nighttime, will the public access be restricted to allow for sunlight contact on irrigated water? Yes No

If so, specify length of time _____

TRANSMISSION & DISTRIBUTION LINES/PIPES

	Y	N
At the end of the irrigation day, will the transport lines/pipes be drained back to the wastewater treatment facility?		
Is there a gate/ball shut off valve at the irrigation pump?		
Is there an in line pressure relief valve to by-pass reuse water back into the source basin if there is a line transmission plug?		
At the cessation of the irrigation season, will the transport lines/pipes be flushed and cleaned?		
Is there a gate/ball shut off valve at the irrigation field, or at each irrigation zone?		

ZONED LAND USE OF IRRIGATION SITE (CHECK ALL THAT APPLY)

Exclusive Farm Use (EFU)	Industrial
Forestry	State/Federal lands
Rural Residential	Other (Specify):

ZONED LAND USE OF AREA AROUND IRRIGATION SITE (CHECK ALL THAT APPLY)

Exclusive Farm Use (EFU)	Industrial
Forestry	State/Federal lands
Rural Residential	Other (Specify):

Prevailing wind direction during irrigation season (specify): _____

Will irrigation be restricted when winds exceed 10 MPH?: _____

THE NEAREST DEVELOPED PROPERTY FROM IRRIGATION SITE (ft):

North boundary:
South boundary:
East boundary:
West boundary:
What is the nearest developed property downwind of irrigation site (specify type and distance):
Are there any playgrounds, schools, or public parks within 1/2 mile of irrigation site? (specify):

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DOMESTIC WELLS

	Y	N
Are there any domestic wells or other domestic water sources located within the irrigation site?		
Are there any domestic wells or other domestic water sources located within 150', 100', or 50' of the irrigation site?		
<i>If yes to either of the above, identify the number of wells or sources and identify their location on the attached site plan.</i>		

POTENTIAL RUN-OFF POINTS ARE LOCATED AT THE (CHECK ALL THAT APPLY):

<input type="checkbox"/>	North boundary (specify):
<input type="checkbox"/>	South boundary (specify):
<input type="checkbox"/>	East boundary (specify):
<input type="checkbox"/>	West boundary (specify):

PUBLIC ACCESS WILL BE CONTROLLED BY THE FOLLOWING (CHECK ALL THAT APPLY):

<input type="checkbox"/>	No trespassing or warning signs (specify spacing):
<input type="checkbox"/>	Fencing (specify type):
<input type="checkbox"/>	Other (specify):

BARRIERS ON BOUNDARIES THAT MAY MITIGATE AEROSOL DRIFT (CHECK ALL THAT APPLY)

<input type="checkbox"/>	Natural vegetation (specify height and width):
<input type="checkbox"/>	Natural topography (specify):
<input type="checkbox"/>	Tree or fence row (specify height):
<input type="checkbox"/>	Other (specify):
<input type="checkbox"/>	None:

IRRIGATION METHOD (CHECK ALL THAT APPLY)

<input type="checkbox"/>	Set sprinkler heads with spray height of _____ and spray diameter of _____
<input type="checkbox"/>	Wheel irrigation line with spray height of _____ and spray diameter of _____
<input type="checkbox"/>	Big gun irrigation with spray height of _____ and spray diameter of _____
<input type="checkbox"/>	Other (specify):

IRRIGATION EQUIPMENT SPECIFICATIONS (insert more rows as needed)

Sprinkler head types (brand and model)	Irrigation zones/cells	PSI operating ranges

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REQUIRED ATTACHEMENTS:

1. Overhead scale diagram/plan view of the wastewater treatment plant that identifies the treatment and disinfection components of the plant.
2. Overhead scale diagram/plan view of the transport line from wastewater treatment plant to the reuse area.
3. Overhead scale diagram/plan of the irrigation site showing surrounding properties and irrigation system layout.
4. A full copy of the Recycled Water Use Plan.

HEALTH DIVISION REVIEW COMMENTS: