



MODIFICATION #4

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM WASTE DISCHARGE PERMIT

Oregon Department of Environmental Quality
Western Region – Salem Office
4026 Fairview Industrial Dr. SE
Salem, OR 97302
Telephone: 541-276-4063

Issued pursuant to ORS 468B.050 and the federal Clean Water Act.

ISSUED TO:

City of Ashland
20 E. Main Street
Ashland, Oregon 97520

SOURCES COVERED BY THIS PERMIT:

Type of Waste	Outfall Number	Outfall Location
Treated Wastewater	001	Ashland Creek
	002	42.214546, -122.714678 Bear Creek
		42.215335, -122.720688
Recycled Water Reuse	003	Specified in Recycled Water Use Plan

FACILITY LOCATION:

Ashland STP
1195 Oak St.
Ashland, OR 97520
County: Jackson
EPA Permit Type: Major

RECEIVING STREAM INFORMATION:

Receiving stream/NHD name: Ashland Creek & Bear Creek
USGS 12-Digit HUC: 171003080106
OWRD Administrative Basin: Rogue
NHD Reach Code & % along reach: 17100308000126 – 5.5%
ODEQ LLID & RM: 1227202422154 – Ashland Creek RM 0.32 &
Bear Creek RM 22.8
Integrated Report AU ID: OR_SR_1710030801_05_105552 &
OR_SR_1710030801_02_105548

DEQ-initiated minor modification of Schedule B.3. Table B3 to correct typographical errors and to correct a compliance date in Schedule C.

Ranei Nomura

Ranei Nomura (Aug 26, 2024 15:37 PDT)

Ranei Nomura, Water Quality Manager,
Western Region

August 26, 2024
Issuance Date

August 27, 2024
Effective Date

PERMITTED ACTIVITIES

Until this permit expires or is modified or revoked, the permittee is authorized to: 1) operate a wastewater collection, treatment, control and disposal system; and 2) discharge treated wastewater to waters of the state only from the authorized discharge point or points in Schedule A in conformance with the requirements, limits, and conditions set forth in this permit.

Expiration Date: January 31, 2027
EPA Ref. Number: OR0026255
Permit Number: 101609
File Number: 3780
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Unless specifically authorized by this permit, by another NPDES or Water Pollution Control Facility permit, or by Oregon statute or administrative rule, any other direct or indirect discharge of pollutants to waters of the state is prohibited.

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SCHEDULE B: MINIMUM MONITORING AND REPORTING REQUIREMENTS

Delete existing Schedule B.3.b and replace with the following updated sentence. (Deletions from the existing sentence are indicated with red strikethrough text and additions are in red text).

3. Monitoring and Reporting Requirements

b. The permittee must monitor effluent at Outfalls 001, and 002, and 004 as follows:

- ~~a. Effluent flow measurements will be taken from the flow meters in the UV disinfection building.~~
- ~~b. Effluent samples will be taken from the manhole downstream of the point where the re-aeration effluent and membrane filter effluent combine.~~

The permittee must monitor effluent at Outfalls 001, and 002, and 004 **at the effluent diversion structure** and report results in accordance with Table B1 and the table below:

Table B3: Internal Outfall 004 (Combined Outfall 001 and 002, after Bear Creek outfall completion) Effluent Monitoring Requirements

Item or Parameter	Units	Time Period	Minimum Frequency	Sample Type/ Required Action (See note a.)	Report Statistic (See note b.)
Flow (50050)	MGD	Year-round	Daily	Metered	1. Monthly Average 2. Daily Maximum
CBOD ₅ (80082)	mg/L	Year-round	2/week	24-hour composite	1. Monthly Average 2. Maximum Weekly Average
CBOD ₅ (80082)	lb/day	Year-round	2/week	Calculation	1. Daily Maximum 2. Monthly Average 3. Maximum Weekly Average
CBOD ₅ Percent Removal (81383) (See note c.)	%	Year-round	1/month	Calculation based on monthly average CBOD ₅ concentration values	Monthly Average
TSS (00530)	mg/L	Year-round	2/week	24-hour composite	1. Monthly Average 2. Maximum Weekly Average
TSS (00530)	lb/day	Year-round	2/week	Calculation	1. Daily Maximum 2. Monthly Average 3. Maximum Weekly Average

Item or Parameter	Units	Time Period	Minimum Frequency	Sample Type/ Required Action (See note a.)	Report Statistic (See note b.)
TSS Percent Removal (81011) (See note c.)	%	Year-round	1/month	Calculation based on monthly average TSS concentration values	Monthly Average
Temperature (00010)	°C	Year-round	1/hour	Continuous	1. Daily Maximum 2. Maximum 7-day 3. Rolling Average of Daily Maximums (See note h.)
Sum of Thermal Credits Generated	Million kcal/day	Year-round	Daily	Calculation, per the procedures in the approved trading program	Sum of Credits
Excess Thermal Load Limit	Million kcal/day	Year-round	Daily	Calculation (See note f below and note b in Table A1)	Maximum 7-day Rolling Average (See note f.)
Excess Thermal Load (51405)	Million kcal/day	Year-round	Daily	Calculation (See note d.)	Maximum 7-day Rolling Average (See note h.)
<i>E. coli</i> (51040)	#/100 mL	Year-round	2/week	Grab (See note i.)	1. Daily Maximum 2. Monthly Geometric Mean
Mercury, Total Recoverable (MMP) (71901)	µg/L	See note e.	Quarterly	24-hour composite	Quarterly Value
Total Ammonia (as N) (00610)	lb/day	May 1 – Nov 30	2/week	Calculation	Monthly Average
Total Phosphorus (00665)	mg/L	May 1 – Oct 31	2/week	24-hr composite	1. Daily Maximum 2. Monthly Average
Total Phosphorus (00665)	lb/day	May 1 – Oct 31	2/week	Calculation	Monthly Average

Item or Parameter	Units	Time Period	Minimum Frequency	Sample Type/ Required Action (See note a.)	Report Statistic (See note b.)
Hardness (00900)	mg/L	Year-round	1/month	24-hour composite	Daily Maximum
UV intensity	mW/cm ²	Year-round	Daily	Continuous	Maintain records on site (See note g.)
UV dose	mJ/cm ²	Year-round	Daily	Calculation	Maintain records on site (See note g.)
UV transmittance	%	Year-round	Daily	Continuous	Maintain records on site (See note g.)
Dissolved Oxygen (00300)	mg/L	2025	Quarterly	Grab	Quarterly Minimum
Total Kjeldahl Nitrogen (TKN) (00625)	mg/L	2025	Quarterly	24-hr composite	Quarterly Maximum
Nitrate Plus Nitrite Nitrogen (NO ₃ +NO ₂) (00630)	mg/L	2025	Quarterly	24-hr composite	Quarterly Maximum
Total Dissolved Solids (70295)	mg/L	2025	Quarterly	Grab	Quarterly Maximum
Oil and Grease (00556)	mg/L	2025	Quarterly	Grab	Quarterly Maximum

Item or Parameter	Units	Time Period	Minimum Frequency	Sample Type/ Required Action (See note a.)	Report Statistic (See note b.)
Notes: a. In the event of equipment failure or loss, the permittee must notify DEQ and deploy new equipment to minimize interruption of data collection. If new equipment cannot be immediately deployed, the permittee must perform grab measurements. If the failure or loss is for continuous temperature monitoring equipment, the permittee must perform grab measurements daily between 2 PM and 4 PM until continuous monitoring equipment is redeployed. b. When submitting DMRs electronically, all data used to determine summary statistics must be submitted in a DEQ-approved format as a spreadsheet via electronic reporting unless otherwise directed by DEQ. c. Percent Removal must be calculated on a monthly basis using the following formula: $\text{Percent Removal} = \frac{[\text{Influent Concentration}] - [\text{Effluent Concentration}]}{[\text{Influent Concentration}]} \times 100$ Where: Influent Concentration = Corresponding monthly average influent concentration based on the analytical results of the reporting period. Effluent Concentration = Corresponding monthly average effluent concentration based on the analytical results of the reporting period. d. The daily excess thermal load (ETL) discharged must be calculated using the daily maximum effluent temperature and the corresponding daily average effluent flow using the formula below. The 7-day rolling average is then calculated from the daily ETLs. The daily ETL is calculated as follows: $\text{ETL} = 3.785 * Q_e * \Delta T$ ETL = Excess Thermal Load (million kcal/day) Q_e = Daily Average Effluent flow (MGD) ΔT = Daily Maximum Effluent temperature (°C) minus temperature criterion (°C) Criterion = 18°C (May 16 – Oct 14) Criterion = 13°C (Oct 15 – May 15) Where: e. Monitoring must occur in the 3rd quarter 2024, 4th quarter 2024, 1st quarter 2025, 2nd quarter 2025. f. If the permittee selects Excess Thermal Load Limit (ETLL) Option B from Table A1, then the permittee must calculate the ETLL (million kcal/day) each day the permittee uses this option. The permittee must use the equation and procedure noted in Table A1. The daily limit must be reported on the daily data spreadsheet. g. Continuous UV records must be maintained onsite. UV intensity and transmittance must be recorded at a minimum of every 15 minutes. h. The 7-day rolling average for any day is the average of the daily values for that day and the preceding six days. The maximum 7-day rolling average is the maximum value from this series of 7-day averages. i. The compliance monitoring point for <i>E. coli</i> is after the UV system and prior to the membrane treatment.					

SCHEDULE C: COMPLIANCE SCHEDULE

Delete existing Schedule C1 and replace with the following updated Table. (Deletions from the existing Table are indicated with red strikethrough text and additions are in red text).

1. Compliance Schedule to Meet Final Effluent Limits

The permittee must comply with the following schedule:

Compliance Date:	Requirement:
By March 1, 2023	The permittee must submit final design plans and specifications for the outfall relocation to Bear Creek to DEQ for review and approval
By March 1, 2024	- The permittee must submit to DEQ a progress report summarizing the progress made toward constructing the outfall to Bear Creek. - Permittee must complete flow augmentation feasibility studies and submit findings to DEQ.
By September 1, 2023 2024	The permittee must submit to DEQ a progress report summarizing the progress made toward acquiring the thermal credit target. The permittee must have obtained a total of at least 40% of the needed kilocalories.
By March 1, 2025	- The permittee must complete construction of the outfall to Bear Creek. - Permittee must complete a study and submit findings to DEQ on the thermal benefits of cold-water releases from Reeder Reservoir at the new outfall site in Bear Creek.
By March 1, 2026	- The permittee must submit to DEQ a progress report summarizing the progress made toward acquiring the thermal credit target. The permittee must have obtained a total of at least 70% of the needed kilocalories to comply with the Outfall 004 excess thermal load limits - Permittee must submit a DRAFT Flow Augmentation Water Quality Trading Plan to DEQ that details an analysis approach to evaluate benefits transferrable to the outfall site in Bear Creek and possible permit conditions.
By March 1, 2027	The permittee must submit to DEQ a final report summarizing all of the thermal credits that have been obtained. The permittee must achieve compliance with the final Outfall 004 excess thermal load limits.