



WATER POLLUTION CONTROL FACILITIES PERMIT

Oregon Department of Environmental Quality
Northwest Region – Portland Office
700 NE Multnomah St., Suite 600
Portland, OR 97232
Telephone: 503-229-5263

Issued pursuant to ORS 468B.050

ISSUED TO:

Oregon Military Department
P.O. Box 14350
Salem, OR 97309

SOURCES COVERED BY THIS PERMIT:

Type of Waste	Outfall Number	Location
Vehicle Pad, Maintenance Area, and Wash Rack Wastewaters	001	Wastewater Treatment Facility
Secondary Treated Domestic Wastewater	002	Rapid Infiltration Basins
Class A Treated Recycled Waters	003	Specified in Recycled Water Use Plan
Biosolids	004	Specified in Biosolids Management Plan

FACILITY TYPE AND LOCATION:

Facility Type: Domestic Wastewater Treatment and Recycled Water Use Facility
Facility Address: Camp Rilea,
91204 Rilea Oregon Road
Warrenton, OR 97146
Clatsop County

RIVER BASIN INFORMATION:

WRD Basin: North Coast
USGS Sub-Basins: Arch Cape Creek-Frontal Pacific Ocean,
Lower Necanicum River, and Skipanon-Frontal Columbia River
Nearest Surface Water Body: Neacoxie Creek
NHD Reach Code: 17100201000563
Lat/Long: 46.116728 N/-123.929264 W

Issued in response to Application No. 950230 received January 11, 2021. This permit is issued based on the land use findings in the permit record.

A handwritten signature in blue ink, appearing to read "Tiffany Yelton-Bram".

Tiffany Yelton-Bram, Manager
DEQ Northwest Region – Portland Office

May 8, 2024
Issuance Date

June 1, 2024
Effective Date

PERMITTED ACTIVITIES

Until this permit expires or is modified or revoked, the permittee is authorized to construct, install, modify, or operate a wastewater collection, treatment, control, and disposal system in conformance with the requirements, limits, and conditions set forth in this permit.

Unless specifically authorized by this permit, by another NPDES or WPCF permit, or by Oregon statute or administrative rule, any direct or indirect discharge of pollutants to waters of the state is prohibited.

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SCHEDULE A: WASTE DISCHARGE LIMITS

1. Permitted System

The permittee is authorized to operate and maintain a domestic wastewater treatment and recycled water use facility pursuant to this WPCF permit. Major components of the permitted treatment and recycled water use facility include: 1) Gravity sewers; 2) Comminutor; 3) One primary pump station; 3) Three small pump stations; 4) One primary aeration lagoon; 5) One secondary storage lagoon; 6) Effluent recirculation line; 7) Chlorine contact basin; 8) Four rapid infiltration basins for management of secondary treated wastewaters; 9) Membrane filter system for the production of Class A recycling waters; 10) Filtered water tanks; 11) Irrigation pumps; 12) Chlorine disinfection; and 13) Turf irrigation system for the recycling of Class A produced waters.

2. Surface Water Protection

Direct discharge to navigable waters as defined in OAR Chapter 340, Division 45, Section 0010 (14) is prohibited.

3. Groundwater Protection

Any activity that has an adverse effect on existing or potential beneficial uses of groundwater is prohibited. All wastewater and wastewater solids must be managed and disposed in a manner that will prevent a violation of the Groundwater Quality Protection Rules (OAR Chapter 340, Division 40). If warranted, at any time, DEQ may evaluate the need for or require a full assessment of the facility's effect on groundwater quality.

4. Vehicle Pad, Maintenance Area, and Wash Rack Wastewaters

This discharge is referred to as Outfall 001 under this permit. During the term of this permit, the permittee is authorized to collect, treat, and discharge vehicle pad, maintenance area, and wash rack wastewaters to the facility's sewage treatment plant. Such wastewater collection, treatment, and management must be done in accordance with the following conditions:

Prior to the discharge of collected vehicle pad, maintenance area, and wash rack wastewaters to the facility's sewage treatment plant, all these wastewaters must receive proper pretreatment to remove oils, greases, and sediments to prevent operational problems at the sewage treatment plant.

- a. All wastewaters discharged to the facility's sewage treatment plant for management must not contain any more than 100 mg/L of petroleum-based oil and greases (non-polar fraction of oil and grease) and must not have a pH lower than 5.0.
- b. The use of organic solvents or non-biodegradable chemicals, soaps and detergents at the facility's wash racks is prohibited. Any detergents and soaps used in washing activities must be phosphate-free and not cause excessive foaming in the sewage treatment plant.
- c. Solids, sludges, oils, and other pollutants removed in the action of treatment of the wastewaters must be properly classified as being hazardous or non-hazardous and be recycled or disposed in accordance with applicable federal and state solid waste rules.

- d. “No Dumping” signs must be posted in all areas of the facility with drains that discharge to the CRUTES Wash Rack for pretreatment and that discharge to the facility’s sewage treatment plant. The signs must include the words “Do Not Dump Chemicals, Solvents, or Oils Down Drains” or equivalent wording.
- e. The CRUTES Wash Rack wastewater treatment system must be properly operated and always maintained. Records of maintenance activities must be maintained on-site for DEQ inspection when requested. The log must include the type of maintenance activity, name of person responsible for the activity, and time and date of activity.

5. Treatment Plant Lagoons

The treatment plant lagoons shall be operated to achieve the discharge requirements detailed in the sections of this permit that follow and in accordance with the following conditions:

- a. At all times, the lagoon area shall be enclosed with an adequate fence to prevent entry by pets, cattle, sheep, and children and discourage trespassing. All access gates shall be provided with locks.
- b. Appropriate permanent warning signs shall be provided and maintained along the fence around the lagoons to designate the nature of the facility and advise against trespassing. The warning signs should include the international symbol for “Do Not Drink” and the words “Sewage Treatment Pond Keep Away – Not Safe for Drinking” or equivalent wording. At all times, at least one sign should be provided on each side of the site.
- c. The lagoons shall be equipped and maintained with level gauges and overflow alarms. The alarms should be audible with flashing lights. At all times, sufficient freeboard shall be maintained in the lagoons to prevent unauthorized wastewater overflows or spills. If an overflow or spill occurs, the facility shall immediately implement its Emergency Response and Public Notification Plan (Schedule D, Item 1, and Schedule F, Section B, Conditions 5 and 6).
- d. The lagoons shall be routinely maintained to control burrowing animals, vegetation growth, and erosion.
- e. The lagoons shall be dredged or cleaned of wastewater solids at a frequency to preserve design treatment capacity and prevent the creation of nuisance odors and other problems that can result in treatment lagoons that are not regularly cleaned of accumulated wastewater solids.

6. Rapid Infiltration Basins

This discharge is referred to as Outfall 002 under this permit. During the term of this permit, the permittee is authorized to discharge secondary treated effluent to four rapid infiltration basins (RIBs) at the facility for management. The basins are designated 1, 2, 3, and 4. The RIB system consists of four equally sized 4-foot-deep basins. The bottom area of each basin is 1,307 square feet (ft²) for a total wetted area of 5,228 ft². The effective hydraulic conductivity or permeability at the site equals 66 inches/day (5.5-feet/day). At the RIBs, the facility's secondary treated effluent shall be managed in accordance with the following conditions:

- a. The permittee can only discharge secondary treated effluent to the basins. No other wastes can be introduced into the rapid infiltration basins.
- b. The facility shall operate its treatment plant lagoons to treat plant influent to achieve the federal secondary treatment standards detailed in Table A1 below before discharging the treated wastewaters to the rapid infiltration basins.

Table A1: Treatment Lagoon Effluent Limits for Discharging to the Rapid Infiltration Basins

Parameter	Units	Average Monthly Limit ¹
BOD ₅	mg/L	30
	% Removal	85
TSS	mg/L	30
	% Removal	85
pH	S.U.	Instantaneous limit between a daily minimum of 6.0 and a daily maximum of 9.0
Note: ¹ Federal secondary treatment standards listed in 40 CFR §133.102.		

- c. At all times, the basins shall be managed to prevent unauthorized wastewater overflows and spills. Based on site infiltration measurements, the amount of wastewater discharged to each site basin shall be limited on an annual and daily basis as detailed in Table A2 below.

Table A2: Rapid Infiltration Basin System Hydraulic Loading Limits

Basin Number	Maximum Annual Average Loading Rate	Maximum Daily Loading Rate
1, 2, 3, and 4	5.5 feet/day (ft/day) or 53,757 gallons per day (GPD)	160,000 GPD or 122.5 gallons/ft ² /day

- d. The basins shall be loaded and rested to minimize groundwater mounding and to maximize long-term infiltration rates and wastewater treatment as detailed in the facility's DEQ-approved Discharge Management Plan (DMP) for the Rapid Infiltration Basin System. Table A3 below details the loading and resting cycles that normally shall be followed for the basins during the winter and summer months unless an equally protective and/or effective hydraulic loading cycle for the basin system is identified in the facility's DEQ-approved DMP.

Table A3: Rapid Infiltration Basin System Hydraulic Loading Cycle Limits

Type of Wastewater	Discharge Season	Loading Period Days	Resting Period Days	Total Cycle Days	Number of Cycles
Secondary	Summer (April to October, 214 days)	3	5	8	214 days/8 = 26.8
	Winter (November to March, 151 days)	3	8	11	151 days/11 = 13.7

- e. During the term of this permit, the system design loading rates detailed in paragraphs 6c. and 6d. above shall be adjusted if the infiltration capacity of any of the basins should decrease over time due to poor management or other factors and result in overflows or spills at the site.
- f. The basins shall be routinely maintained to control burrowing animals, vegetation growth, erosion, and to maintain percolation capability by scarification or removal of deposited solids when necessary. Basin bottoms shall be maintained to be level and basin embankments shall be repaired as necessary.
- g. The basins shall be operated to prevent the creation of nuisance odors, fly and mosquito breeding and other nuisance conditions.
- h. The basins shall be fenced and posted with warning signs on all sides. The warning signs should include the international symbol for “Do Not Drink” and the words “Sewage Treatment Pond Keep Away – Not Safe for Drinking” or equivalent wording.
- i. The overflow piping provided between the basins must be routinely inspected and maintained to ensure the piping will work in case of a basin overflow.
- j. The basins shall be operated and managed to ensure that basin discharges to groundwater do not cause the following numerical groundwater quality concentration limits to be exceeded in the designated compliance point monitoring well(s).

Table A4: Groundwater Quality Concentration Limits

Constituent/Parameter	Annual Average Groundwater Quality Concentration Limits (All mg/L, except for pH in S.U.) ^{1,2}	Downgradient Basin Management Area Boundary Compliance Point Monitoring Wells ⁴
pH	Monitor Only	RIBMW-6
Total Arsenic		RIBMW-6
Total Chloride		RIBMW-6
Total Iron		RIBMW-6
Total Manganese		RIBMW-6
Total Nitrate + Nitrite (as N)	10 ³	RIBMW-6
Total Sulfate		RIBMW-6
Total Dissolved Solids		RIBMW-6

Constituent/Parameter	Annual Average Groundwater Quality Concentration Limits (All mg/L, except for pH in S.U.) ^{1,2}	Downgradient Basin Management Area Boundary Compliance Point Monitoring Wells ⁴
Notes: ¹ The Groundwater Quality Concentration Limits for Arsenic, Chloride, Iron, Manganese, Sulfate, and Total Dissolved Solids will be established by DEQ pursuant to OAR 340-040-0030 after 12 or more samples have been collected over a three-year period at the site. ² All limits are for total (unfiltered) concentrations unless the DEQ specifies or determines otherwise. ³ Maximum Contaminant Levels for Drinking Water listed in Table 1 of OAR 333-061-0030. ⁴ RIBMW-6 is a new groundwater monitoring well to be constructed during the term of this permit pursuant to Schedule C of this this permit.		

7. Use of Class A Treated Recycled Waters

This discharge is referred to as Outfall 003 under this permit. The permittee is authorized pursuant to OAR Chapter 340, Division 55, and this permit to distribute Class A recycled water for turf and other landscape irrigation at the facility. This recycled water must be distributed at the facility in accordance with all of the following conditions:

- a. All recycling water must be treated and be used according to the treatment criteria and beneficial use limitations detailed in Table A5 below.
- b. Recycling waters can only be distributed and be conveyed by a system of valves, pipes, tanks, and other equipment that have been properly constructed and marked in a manner to prevent cross-connections with the facility's potable water systems.
- c. Recycling waters can only be applied in areas that are posted with warning signs. The warning signs must include the international symbol for "Do Not Drink" and the words "Recycled Water Used – Not Safe for Drinking" or equivalent wording.
- d. Recycling waters must be managed in accordance with a DEQ-approved Recycled Water Use Plan.
- e. Recycling waters must be used in a manner and be applied at a rate that does not adversely affect groundwater quality.
- f. Recycling waters must be applied at a rate and in accordance with management practices that benefit and sustain the on-going growth of facility turf and other landscaping being grown on recycle use sites.
- g. All recycling waters must be irrigated or be reused following best management practices designed to prevent:
 - i. Offsite surface runoff to any nearby stormwater systems, surface water bodies, and adjoining properties;
 - ii. Creation of odors, fly and mosquito breeding, or other nuisance conditions;
 - iii. Overloading of landscaping areas with nutrients, organics, salts, or other pollutants; and

- iv. Sprinkler irrigation onto an area where food is being prepared or served, or onto a drinking water fountain.

Table A5: Recycled Water Limits

Class	Level of Treatment (After disinfection unless otherwise specified)	Beneficial Uses
Class A Recycled Water	Class A recycled water must be oxidized, filtered, and disinfected before turf and/or other landscape irrigation at the facility. <u>Before disinfection</u>, <u>turbidity</u> cannot exceed: • An average of 2 NTUs within a 24-hour period; • Five (5) NTUs more than five percent of the time within a 24-hour period; and • 10 NTUs at any time. <i>NTU = Nephelometric Turbidity Units</i> <u>After disinfection</u>, total coliform cannot exceed: • A median of 2.2 organisms per 100 mL, based on daily sampling over the last 7 days that analyses have been completed; and • 23 total coliform organisms per 100 mL in any single sample.	• Turf and landscape irrigation. • Other potential uses for Class A Recycled Water produced at the facility under this permit are listed in OAR 340-055-0012(7)(A-E) and must be identified in the facility's DEQ-approved Recycled Water Use Plan before such uses may be implemented under this permit (Schedule D, Condition 2).

8. Management of Wastewater Solids and Biosolids

This discharge is referred to as Outfall 004 under this permit. The permittee may transfer its wastewater solids or sewage sludges to other DEQ-approved facilities permitted to process or dispose of these materials or treat and land apply these materials as biosolids pursuant to OAR 340, Division 50 and 40 CFR Part 503, and the following conditions:

- a. The permittee must manage its biosolids in accordance with its DEQ-approved Biosolids Management Plan and Land Application Plan.

- b. The permittee must apply its biosolids at or below the agronomic rates approved by DEQ to minimize potential groundwater degradation. DEQ may require adjustment to the allowable agronomic rate after review of annual reporting and to ensure adequate protection of public waters, including groundwater.
- c. The permittee must obtain written site authorization from DEQ for each land application site prior to land application (see Schedule D) and follow the site-specific management conditions in the DEQ-issued site authorization letter.
- d. Prior to application of any facility biosolids, the permittee must ensure that the facility's biosolids meet one of the pathogen reduction standards under 40 CFR §503.32 and one of the vector attraction reduction standards under 40 CFR §503.33.
- e. The permittee must not apply biosolids containing pollutants in excess of the ceiling concentrations shown in Table A6 below. The permittee may apply biosolids containing pollutants in excess of the pollutant concentrations in the table below. However, the total quantity of these land applied biosolids cannot exceed the cumulative pollutant loading rates in the table below over the lifetime of a land application site. If the biosolids are subject to the cumulative pollutant loading rates, the permittee must obtain specific approval from DEQ to land apply these biosolids in accordance with their approved Biosolids Management Plan and Land Application Site Authorization.

Table A6: Biosolids Limits

Pollutant (See note a.)	Ceiling Concentrations (mg/kg)	Monthly Average Pollutant Concentrations (mg/kg)	Cumulative Pollutant Loading Rates (kg/ha)
Arsenic	75	41	41
Cadmium	85	39	39
Copper	4300	1500	1500
Lead	840	300	300
Mercury	57	17	17
Molybdenum	75	N/A	N/A
Nickel	420	420	420
Selenium	100	100	100
Zinc	7500	2800	2800
Note: a. Biosolids pollutant limits are described in 40 CFR §503.13, which uses the terms <i>ceiling concentrations</i> , <i>pollutant concentrations</i> , and <i>cumulative pollutant loading rates</i> .			

SCHEDULE B: MINIMUM MONITORING AND REPORTING REQUIREMENTS

1. Reporting Requirements

The permittee must submit to DEQ monitoring results and reports as listed below.

Table B1: Reporting Requirements and Due Dates

Reporting Requirement	Frequency	Due Date (See note a.)	Report Form (See note b.)	Submit To: (See note c & d.)
Table B2: Vehicle Pad, Maintenance Area, and Wash Rack Monitoring	Monthly	By the 15 th of the following month	Specified in Schedule B, Section 3, Table B2 of this permit	As directed by DEQ
Table B3: Vehicle Pad, Maintenance Area, and Wash Rack Residuals Monitoring	Annually	January 15	Specified in Schedule B, Section 3, Table B3 of this permit	As directed by DEQ
Table B4: Treatment and Storage Lagoon Monitoring	Monthly	By the 15 th of the following month	Specified in Schedule B, Section 4a of this permit	As directed by DEQ
Table B5: Treatment Plant Influent Monitoring	Monthly	By the 15 th of the following month	Specified in Schedule B, Section 4b of this permit	As directed by DEQ
Table B6: Treatment Plant Effluent Discharged to Rapid Infiltration Basin System	Monthly	By the 15 th of the following month	Specified in Schedule B, Section 4c of this permit	As directed by DEQ
Table B7: Groundwater Quality Monitoring	Semi-Annually	February 19	Specified in Schedule B, Section 4d of this permit	As directed by DEQ
Groundwater Quality Monitoring Annual Report	Annually	February 19	Specified in Schedule D, Section 8c of this permit	As directed by DEQ
Table B8: Class A Recycling Water Monitoring	Monthly	By the 15 th of the following month	Specified in Schedule B, Section 5 of this permit	As directed by DEQ

Reporting Requirement	Frequency	Due Date (See note a.)	Report Form (See note b.)	Submit To: (See note c & d.)
Recycled Water Annual Report (Schedule D, Condition 3)	Annually	January 15	Electronic copy in the DEQ-approved format	- As directed by DEQ - Electronic copy to DEQ Water Reuse Program Coordinator
Table B9 and B10: Wastewater Solids and Biosolids Annual Report (Schedule D, Condition 4)	Annually	February 19	Electronic copy in the DEQ-approved format	- As directed by DEQ - Electronic copy to DEQ Biosolids Program Coordinator
Notes: a. For submittals that are provided to DEQ by mail, the postmarked date must not be later than the due date. b. All reporting requirements are to be submitted in a DEQ-approved format, unless otherwise specified in writing. c. Electronic reporting information is provided on DEQ's web page (https://www.oregon.gov/deq/wq/wqpermits/Pages/NPDES-E-Reporting.aspx). d. Email address for biosolids and recycled water coordinator are provided on DEQ's biosolids web page (https://www.oregon.gov/deq/wq/programs/Pages/Biosolids.aspx).				

2. Monitoring and Reporting Protocols

a. Paper Submissions

When submitting paper copies as required by Table B1, the permittee must submit to DEQ the results of the monitoring in a paper format as specified below.

- i. Until directed by DEQ all Discharge Monitoring Reports (DMRs) must be submitted in an approved paper format:
 - (A) The reporting period is the calendar month.
 - (B) The permittee must submit monitoring data and other information required by this permit for all compliance points by the 15th day of the month following the reporting period unless specified otherwise in this permit or as specified in writing by DEQ.
- ii. Until directed by DEQ, the permittee must submit any required Pretreatment Program Reports, Wastewater Solids and Biosolids Annual Report, Recycled Water Annual Report, Sanitary Sewer Overflow/Bypass Event Reports, and other required information to DEQ.
- iii. The permittee must sign and certify submittals of Discharge Monitoring Reports (DMRs), Annual Reports, and other information in accordance with the requirements of Section D3 within Schedule F of this permit.

b. Electronic Submissions

When submitting electronic copies as required by Table B1, the permittee must submit to DEQ the results of monitoring in an electronic format as specified below.

- i. When directed by DEQ, the permittee must submit monitoring results required by this permit via DEQ-approved web-based Electronic Discharge Monitoring Report (DMR) forms.
- ii. The reporting period is the calendar month.
- iii. The permittee must submit monitoring data and other information required by this permit for all compliance points by the 15th day of the month following the reporting period unless specified otherwise in this permit or as specified in writing by DEQ.
- iv. When directed by DEQ, the permittee must submit electronic reports for any required Pretreatment Program Reports, Wastewater Solids and Biosolids Annual Report, Recycled Water Annual Report, Sewer Overflow/Bypass Event Reports, and other required information to DEQ via designated web-based reporting process.

c. Test Methods

The permittee must conduct monitoring according to test procedures in 40 CFR, Part 136 and 40 CFR §503.8 and OAR 340-050-0035(2)(b) for biosolids or other approved procedures as per Schedule F of this permit.

d. Quality Assurance and Quality Control

- i. Quality Assurance Plan – The permittee must develop and implement a written Quality Assurance Plan that details the facility sampling procedures. This plan should include any equipment calibration and maintenance, analytical methods, quality control activities and laboratory data handling and reporting if the permittee conducts any of their own analytical work. The QA/QC program must conform to the requirements of 40 CFR §136.7.
- ii. If QA/QC requirements are not met for any analysis, the permittee must re-analyze the sample. If the sample cannot be re-analyzed, the permittee must re-sample and analyze at the earliest opportunity. If the permittee is unable to collect a sample that meets QA/QC requirements, then the permittee must include the result in the discharge monitoring report (DMR) along with a notation (data qualifier). In addition, the permittee must explain how the sample does not meet QA/QC requirements. The permittee may not use the result that failed the QA/QC requirements in any calculation required by the permit unless authorized in writing by DEQ.
- iii. Flow measurement, field measurement, and continuous monitoring devices - The permittee must:
 - (A) Establish verification and calibration frequency for each device or instrument in the quality assurance plan that conforms to the frequencies recommended by the manufacturer.
 - (B) Verify at least once per year that flow-monitoring devices are functioning properly according to manufacturer's recommendation. Calibrate as needed according to manufacturer's recommendations.
 - (C) Verify at least weekly that the continuous monitoring instruments are functioning properly according to manufacturer's recommendation unless the permittee demonstrates a longer period is sufficient and such longer period is approved by DEQ in writing.

e. Reporting Sample Results

- i. The permittee must report the same number of significant digits as the permit limit for a given parameter.

3. Vehicle Pad, Maintenance Area, and Wash Rack Wastewaters

The permittee must monitor vehicle pad, maintenance area, and wash rack wastewaters at Outfall 001 and report the results in accordance with Table B2 and B3 below. This outfall will be equipped with a flow meter for tracking flows and a sampling port for collecting wash rack wastewater quality samples as they are being discharged to the facility wastewater treatment plant.

Table B2: Vehicle Pad, Maintenance Area, and Wash Rack Discharge Monitoring Requirements

Item or Parameter	Units	Time Period	Minimum Frequency	Sample Type / Required Action (See note a.)	Report Statistic (See note b.)
Flow (50050)	GPD	When discharging	Monthly	Continuous	Monthly Total
pH (00400)	SU	When discharging	2/Year	Grab	Value
Petroleum Oils and Greases (Non-Polar Oils & Greases) (00556)	mg/L	When discharging	2/Year	Grab	Value
Flow Meter Calibration	Measure/Record	Jan – Dec	1/Year	Verify	Pass/Fail
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. b. When submitting DMRs electronically, all data used to determine summary statistics shall be submitted in a DEQ-approved format as an attachment unless otherwise directed by DEQ. If submitting paper DMRs, all data collected shall be reported on each DMR.					

Table B3: Vehicle Pad, Maintenance Area, and Wash Rack Residuals Monitoring Requirements

Item or Parameter	Minimum Frequency	Sample Type
Record of off-site wash rack residuals/solids management including: 1) Date; 2) Wet or dry pounds managed off-site; 3) Hauler name; and 4) Name of receiving facility.	Each Event	Record, Document, and Report Annually Complete Annual Report and File with the Monthly December DMR at the End of Each Calendar Year

4. Treatment Plant Lagoons, Influent, Effluent, and Rapid Infiltration Basin Systems

- a. The permittee must routinely monitor the treatment and storage lagoons at the facility in accordance with Table B4: below.

Table B4: Treatment and Storage Lagoon Monitoring Requirements

Item or Parameter	Units	Time Period	Minimum Frequency	Sample Type/Required Action (See note a.)	Report Statistic (See note b.)
Inspect Lagoon Embankments and Liner for Damage	Damage/Condition	Year-round	Monthly	Visual/ Log	Monthly
Inspect Lagoon Fence and Signage for Damage (See note c.)	Damage/Condition	Year-round	Monthly	Visual/ Log	Monthly
Measure Liquid Depth in Pond (See note d.)	Feet	Year-round	Weekly	Visual/ Log	Monthly
Check Lagoon Solids Accumulation	Volume	Jan – Dec.	1/5 Years	Visual/Log	Every Five Years
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. b. When submitting DMRs electronically, all data used to determine summary statistics shall be submitted in a DEQ-approved format as an attachment unless otherwise directed by DEQ. If submitting paper DMRs, all data collected shall be reported on each DMR. c. The lagoons must be fenced and posted with warning signs on all sides. d. The lagoons must always be operated with sufficient freeboard to prevent unauthorized wastewater overflows or spills.					

- b. The permittee must monitor treatment plant influent discharged to Lagoon 1 in accordance with Table B5 below.

Table B5: Treatment Plant Influent Monitoring Requirements

Item or Parameter	Units	Time Period	Minimum Frequency	Sample Type/Required Action (See note a.)	Report Statistic (See note b.)
Flow (50050)	GPD	Year-round	Daily	Continuous	1. Monthly Total 2. Monthly Average 3. Daily Maximum
pH (00400)	SU	Year-round	Daily (See note c.)	Grab	1. Raw Data 2. Monthly Maximum 3. Monthly Minimum
BOD ₅ (00310)	mg/L	Year-round	Monthly	Grab	Monthly Value
TSS (00530)	mg/L	Year-round	Monthly	Grab	Monthly Value
Flow Meter Calibration	Measure/ Record	Jan – Dec	1/Year	Verify	Pass/Fail
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. b. When submitting DMRs electronically, all data used to determine summary statistics shall be submitted in a DEQ-approved format as an attachment unless otherwise directed by DEQ. If submitting paper DMRs, all data collected shall be reported on each DMR. c. Excludes weekends and holidays.					

- c. The permittee must monitor treatment plant effluent discharged to the facility's rapid infiltration basin system identified as Outfall 002 in this permit in accordance with Table B6 below.

Table B6: Monitoring Requirements for Plant Effluent Discharged to Rapid Infiltration Basin System

Item or Parameter	Units	Time Period	Minimum Frequency	Sample Type/Required Action (See note a.)	Report Statistic (See note b.)
Flow (50050)	GPD	Year-round	Daily	Continuous	1. Monthly Total 2. Monthly Average 3. Daily Minimum 4. Daily Maximum
pH (00400)	SU	Year-round	Daily (See note c.)	Grab	1. Daily Value 2. Monthly Minimum 3. Monthly Maximum
BOD ₅ (00310)	mg/L	Year-round	Monthly	24-hour composite	Monthly Value
BOD ₅ , Percent Removal (81010) (See note d.)	%	Year-round	Monthly	Calculation based on monthly BOD concentration values (See note d.)	Monthly Value
TSS (00530)	mg/L	Year-round	Monthly	24-hour composite	Monthly Value
TSS Percent Removal (81011) (See note d.)	%	Year-round	Monthly	Calculation based on monthly TSS concentration values (See note d.)	Monthly Value
Total Chloride (Cl)	mg/L	Year-round	Quarterly	24-hour composite	Quarterly Value
Total Kjeldahl Nitrogen (00625)	mg/L	Year-round	Quarterly	24-hour composite	Quarterly Value
Nitrate (NO ₃) Plus Nitrite (NO ₂) Nitrogen (00630)	mg/L	Year-round	Quarterly	24-hour composite	Quarterly Value
Total Sulfate (81020)	mg/L	Year-round	Quarterly	24-hour composite	Quarterly Value
Total Dissolved Solids (70295)	mg/L	Year-round	Quarterly	24-hour composite	Quarterly Value
RIB Distribution	Visual	Year-round	When discharging	Record	Date(s) each RIB is Active
Flow Meter Calibration	Measure/Record	Jan – Dec	1/Year	Verify	Pass/Fail

Item or Parameter	Units	Time Period	Minimum Frequency	Sample Type/Required Action (See note a.)	Report Statistic (See note b.)
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Notes:

- In the event of equipment failure or loss, the permittee must notify DEQ and deploy new equipment to minimize interruption of data collection.
- When submitting DMRs electronically, all data used to determine summary statistics shall be submitted in a DEQ-approved format as an attachment unless otherwise directed by DEQ. If submitting paper DMRs, all data collected shall be reported on each DMR.
- Excludes weekends and holidays.
- Percent removal must be calculated monthly using the following formula:

$$\text{Percent Removal} = \frac{[\text{Influent Concentration}] - [\text{Effluent Concentration}]}{[\text{Influent Concentration}]} \times 100$$

Where:

Influent Concentration = Corresponding monthly influent concentration based on the analytical results for the month.

Effluent Concentration = Corresponding monthly effluent concentration based on the analytical results for the month.

- The permittee must monitor each facility groundwater monitoring well positioned around the facility's rapid infiltration basin system in accordance with the facility's Groundwater Monitoring Plan (Schedule D, Condition 8) and Table B7 below. In review of Table B7 below, please pay particular attention to the footnote of this table that details the changing sampling frequency for the monitoring wells over the term of the permit.

Table B7: Groundwater Quality Monitoring Requirements

Constituent/Parameter	Frequency (See note a.)	Reporting Units	Sample Type/Required Action	Report Statistic
Depth to Groundwater	Semi-Annually	Feet (Nearest Tenth of Foot)	Measured	Annual Report
Groundwater Elevation	Semi-Annually	Feet, MSL (Surveyed Measuring Point)	Calculated	Annual Report
pH	Semi-Annually	Standard Units	Grab (Field Measured)	Annual Report
Temperature	Semi-Annually	°C	Grab (Field Measured)	Annual Report
Electrical Conductivity	Semi-Annually	mmhos/cm	Grab (Field Measured)	Annual Report
Total Arsenic	Semi-Annually	mg/L	Grab	Annual Report
Total Chloride	Semi-Annually	mg/L	Grab	Annual Report

Constituent/ Parameter	Frequency (See note a.)	Reporting Units	Sample Type/Required Action	Report Statistic
Total Iron	Semi-Annually	mg/L	Grab	Annual Report
Total Manganese	Semi-Annually	mg/L	Grab	Annual Report
Total Nitrite-Nitrogen	Semi-Annually	mg/L	Grab	Annual Report
Total Nitrate-Nitrogen	Semi-Annually	mg/L	Grab	Annual Report
Total Sulfate	Semi-Annually	mg/L	Grab	Annual Report
Total Dissolved Solids	Semi-Annually	mg/L	Grab	Annual Report

Note:

- a. Grab samples shall be collected from each facility well for quality testing on a semi-annual basis until the permittee installs the new monitoring wells required pursuant to Schedule C of this permit. When the new site monitoring wells are installed and ready for sampling, all site monitoring wells (new and old) shall then be sampled for testing on a quarterly basis over three (3) years. Following this three-year quarterly testing period, all site monitoring wells may then be sampled/tested on a semi-annual basis for the remaining term of this permit.

e. Groundwater Monitoring Resampling Requirements

- ii. If the monitoring completed pursuant to Table B7 above indicates that a concentration limit in Schedule A6, Table A4, has been exceeded at a compliance point, the permittee must notify the Department within 10 days of obtaining the monitoring results and shall immediately resample the monitoring well for the exceeding parameter and any other parameters deemed necessary by the Department. The results of both sampling events must be reported to the Department within 10 days of receipt of the laboratory data.
- iii. If the monitoring completed pursuant to Table B7 above indicates a significant increase (increase or decrease for pH) in the value of a parameter monitored, the permittee must immediately resample the monitoring well(s) for the increased or decreased parameter and other parameters deemed necessary by the Department. If the resampling confirms a change in water quality, the permittee must:
 - a) Report the results to the Department within 10 days of receipt of the laboratory data; and
 - b) Prepare and submit to the Department within 30 days of receiving lab results a plan for developing a preliminary assessment unless another time schedule is approved by the Department.

5. Recycled Water Monitoring Requirements

The permittee must monitor facility generated Class A treated recycled water flows and quality at Outfall 003 and report the results in accordance with Table B8 below. This outfall will be equipped with a flow meter for tracking flows and a sampling port for collecting treated water quality samples before they are land applied.

Table B8: Class A Recycling Water Monitoring Requirements

Item or Parameter	Units	Time Period	Minimum Frequency	Sample Type/Required Action (See note a.)	Report Statistic (See note b.)
Turbidity (00070) (See note c.)	NTU	When discharging	Hourly	Grab	1. Daily Average 2. Daily Minimum 3. Daily Maximum
Turbidity, % of time above 5 NTU limit (61736) (see note d.)	%	When discharging	Daily	Calculate	Daily Maximum
Flow (50050)	MGD	When discharging	Daily	Continuous	1. Monthly Total 2. Monthly Average 3. Daily Maximum
Total Coliform (74056)	#/100 ml	When discharging	Daily	Grab	1. Raw Data 2. Weekly Median 3. Daily Maximum
Quantity Chlorine Used (81400)	lb/day	When discharging	Daily	Measurement/ Calculation	Daily Value
Total Residual Chlorine (50060)	mg/L	When discharging	Daily	Grab	Daily Value
pH (00400)	SU	When discharging	2/Week	Grab	1. Raw Data 2. Monthly Maximum 3. Monthly Minimum
Total Kjeldahl Nitrogen (00625)	mg/L	When discharging	Quarterly	Grab	Quarterly Value
Total Ammonia (as N) (00610)	mg/L	When discharging	Quarterly	Grab	Quarterly Value

Item or Parameter	Units	Time Period	Minimum Frequency	Sample Type/Required Action (See note a.)	Report Statistic (See note b.)
Nitrate (NO ₃) Plus Nitrite (NO ₂) Nitrogen (00630)	mg/L	When discharging	Quarterly	Grab	Quarterly Value
Total Phosphorus (00665)	mg/L	When discharging	Quarterly	Grab	Quarterly Value
Total Annual Nitrogen (TN) Loading Rate	lbs/acre-year	Jan – Dec	1/Year	Measurement/ Calculation	Annual Report/ Amount Applied to Each Reuse Site
Total Annual Irrigation Rate (Hydraulic Loading Rate)	ac-in/year	Jan – Dec.	1/Year	Measurement/ Calculation	Annual Report/ Amount Applied to Each Reuse Site
Flow Meter Calibration	Measure/ Record	Jan – Dec	1/Year	Verify	Pass/Fail

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.
- b. When submitting DMRs electronically, all data used to determine summary statistics shall be submitted in a DEQ-approved format as an attachment unless otherwise directed by DEQ. If submitting paper DMRs, all data collected shall be reported on each DMR.
- c. Turbidity measurements must be taken post filtration and prior to chlorine disinfection.
- d. Turbidity cannot exceed five (5) NTUs more than five percent of the time within a 24-hour period.

6. Biosolids Monitoring Requirements

The permittee must monitor the facility's biosolids land applied under this permit pursuant to Table B9 and B10 below. The samples must be representative of the quality and quantity of biosolids generated and undergo the same treatment process used to prepare the biosolids.

Table B9: Biosolids Monitoring Requirements

Item or Parameter	Minimum Frequency	Sample Type
Nutrient and conventional parameters (% dry weight unless otherwise specified): Total Kjeldahl Nitrogen (TKN) Nitrate-Nitrogen (NO ₃ -N) Total Ammonia Nitrogen (NH ₃ -N) Total Phosphorus (P) Potassium (K) pH (S.U.) Total Solids Volatile Solids	As described in the DEQ-approved Biosolids Management Plan, but not less than the frequency in Table B10.	As described in the DEQ-approved Biosolids Management Plan
Total Pollutants (Dry Weight, mg/kg): Arsenic (As), Cadmium (Cd), Copper (Cu), Lead (Pb), Mercury (Hg), Molybdenum (Mo), Nickel (Ni), Selenium (Se), and Zinc (Zn)	As described in the DEQ-approved Biosolids Management Plan, but not less than the frequency in Table B10.	As described in the DEQ-approved Biosolids Management Plan
Pathogen reduction	As described in the DEQ-approved Biosolids Management Plan, but not less than the frequency in Table B10.	As described in the DEQ-approved Biosolids Management Plan
Vector attraction reduction	As described in the DEQ-approved Biosolids Management Plan, but not less than the frequency in Table B10.	As described in the DEQ-approved Biosolids Management Plan
Record of biosolids land application: date, quantity, location.	Each event	Record the date, quantity, and location of biosolids land applied on site location map or equivalent electronic system, such as GIS.

Table B10: Biosolids Minimum Monitoring Frequency

Quantity of biosolids land applied or produced for sale or distribution per calendar year		Minimum Sampling Frequency
(dry metric tons)	(dry U.S. tons)	
Less than 290	Less than 320	Once per year
290 to 1,500	320 to 1,653	Once per quarter (4x/year)
1500 to 15,000	1,653 to 16,535	Once per 60 days (6x/year)
15,000 or more	16,535 or more	Once per month (12x/year)

SCHEDULE C: COMPLIANCE SCHEDULE

1. Compliance Schedule to Meet Regulatory Requirements

The permittee must comply with the following schedule:

Compliance Date	Requirement
9/1/2024 Three (3) months after effective date of permit.	The permittee must submit an updated “Recycled Water Use Plan” meeting all the requirements in OAR 340-055-0025 and this permit (Schedule D, Condition 2). This plan must be updated to reflect current operations, reuse sites, contact names/operators, and new requirements detailed in this permit renewal.
10/1/2024 Four (4) months after effective date of permit.	The permittee must submit a Discharge Management Plan (DMP) for the Rapid Infiltration Basin System. The DMP must be clearly written to provide the necessary information for the facility’s treatment plant operators to operate the RIB system in compliance with Schedule A, Condition 6 of this permit. The DMP should describe discharge controls and monitoring, number and size of basins, hydraulic loading rates and scheduling of discharges to the basins, ongoing maintenance, monitoring of ongoing bed performance, and record keeping. Please refer to the “Process Design Manual, Land Treatment of Municipal Wastewater,” U.S. Environmental Protection Agency, EPA 625/1-91-013 updated 2006; EPA/625/R-06/016 for guidance on developing appropriate loading cycles. Document EPA 625/1-81-13a offers additional explanations and guidance for RIBs. The referenced USEPA Manuals can be found at https://nepis.epa.gov/EPA/html/pubindex.html .
11/1/2024 Five (5) months after effective date of permit.	The permittee must submit an updated “Groundwater Monitoring Plan” meeting all the requirements in OAR 340-040-0030 and this permit. The plan must include at least one new background and downgradient monitoring well. The new background monitoring well must be located where water quality is unaffected by the facility’s RIB system. The new downgradient monitoring well must be installed downgradient of the facility’s RIBs and be capable of evaluating groundwater quality at the waste management boundary of the site. The updated plan must also reflect current sampling practices, operations, and new requirements detailed in this permit. The contents of the plan should closely follow DEQ’s Groundwater Monitoring Plan Part B: Guidelines. All new or replacement monitoring wells constructed at the site must conform with Oregon Water Resources Department (WRD) monitoring well construction rules at OAR 690-240.
Nine (9) months from DEQ approval of the updated Groundwater Monitoring Plan.	The permittee must install, develop, and start sampling the facility’s new background and waste management boundary monitoring wells. Pursuant to OAR 690-240 the new wells must be installed by a Licensed Oregon Monitoring Well Constructor. Copies of the well reports or well logs shall be filed with the Oregon Water Resources Department (WRD) and DEQ. The well reports or well logs shall be submitted to the DEQ within 60 days of the installation of the new monitoring wells.

2. Responsibility to Meet Compliance Dates

No later than 14 days following each compliance date listed in the table above, the permittee must notify DEQ in writing of its compliance or noncompliance with the requirements. Any reports of noncompliance must include the cause of noncompliance, any remedial actions taken, and a discussion of when the permittee anticipates meeting the requirement.

SCHEDULE D: SPECIAL CONDITIONS

1. Emergency Response and Public Notification Plan

The permittee must develop an Emergency Response and Public Notification Plan (“plan”) or ensure the facility’s existing plan is current and accurate, per Schedule F, Section B, Condition 6 within 6 months of permit effective date. The permittee must update the plan annually to ensure all information contained in the plan, including telephone and email contact information for applicable public agencies, is current and accurate. An updated copy of the plan must be kept on file at the facility for DEQ review. The latest plan revision date must be listed on the plan cover along with the reviewer’s initials or signature.

2. Recycled Water Use Plan

The permittee must maintain an up-to-date DEQ-approved Recycled Water Use Plan (“RWUP”) meeting the requirements in OAR 340-055-0025. Any significant modifications to this plan will require DEQ review and a public notice period prior to implementing changes to the recycled water use program. All plan revisions will require authorization from DEQ and will be effective upon the permittee’s receipt of DEQ written approval. No significant modifications can be made to a plan for an administratively extended permit (after the permit expiration date). Conditions in the plan are enforceable requirements under the permit. DEQ will provide an opportunity for public review and comment on any significant plan modifications prior to approving or denying. Public review is not required for minor modifications, changes to utilization dates, or changes in use within the recycled water class.

3. Recycled Water Use Annual Report

The permittee must submit a Recycled Water Use Annual Report to DEQ each year on the production and use of recycled water. This report must be submitted to DEQ by January 15 of each year and cover activities during the previous calendar year. The report must comply with the approved facility RWUP and the limitations and conditions of this permit. For annual reporting, the facility will use the DEQ’s Recycled Water Annual Report Form or an equivalent reporting form. Part I of the form requires the permittee to report on recycled water production and disposition. Part II of the form requires the permittee to report on recycled water sampling and monitoring.

4. Wastewater Solids and Biosolids Annual Report

The permittee must submit a Wastewater Solids and Biosolids Annual Report to DEQ each year documenting the production, use, disposal, or storage of domestic wastewater solids. This report must be submitted to the DEQ by February 19 of each year and cover activities during the previous calendar year. For reporting, the permittee must use the DEQ’s approved Wastewater Solids and Biosolids Annual Report Form. Part I of the form requires the permittee to report on wastewater solids production and disposition. Part II of the form requires the permittee to report on biosolids production and quality. Part III of the form requires the permittee to report on biosolids land application activities. At a minimum, all facilities must complete and submit Part I of the reporting form to the DEQ each year. Parts I, II and III of the form must be completed and submitted to the DEQ by all facilities that produce Class B biosolids for land application.

5. Biosolids Management Plan

Prior to distributing biosolids to the public, the permittee must develop and maintain a Biosolids Management Plan and Land Application Plan meeting the requirements in OAR 340-050-0031. The permittee must submit these plans and any significant modification of these plans to DEQ for review and approval with sufficient time to clear DEQ review and a public notice period prior to removing biosolids from the facility. The permittee must keep the plans updated. All plan revisions require written authorization from DEQ and are effective upon permittee's receipt of DEQ written approval. No significant modifications can be made to a plan for an administratively extended permit (after the permit expiration date). Conditions in the plans are enforceable requirements under this permit.

a. Site Authorization

The permittee must obtain written authorization from DEQ for each land application site prior to its use. Conditions in site authorizations are enforceable requirements under this permit. The permittee is prohibited from land applying biosolids to a DEQ-approved site except in accordance with the site authorization, while this permit is effective and with the written approval of the property owner. DEQ may modify or revoke a site authorization following the procedures for a permit modification described in OAR 340-045-0055.

b. Public Participation

- i. DEQ will provide an opportunity for public review and comment on any significant plan modifications prior to approving or denying. Public review is not required for minor modifications or changes to utilization dates.
- ii. No DEQ-initiated public notice is required for continued use of sites identified in the DEQ-approved biosolids management plan.
- iii. For new sites that fail to meet the site selection criteria in the biosolids management plan or that are deemed by DEQ to be sensitive with respect to residential housing, runoff potential, or threat to groundwater, DEQ will provide an opportunity for public comment as directed by OAR 340-050-0030(2).
- iv. For all other new sites, the permittee must provide for public participation following procedures in its DEQ-approved land application plan.

6. Wastewater Solids Transfers

- a. *Within state.* The permittee may transfer wastewater solids including Class A and Class B biosolids, to another facility permitted to process or dispose of wastewater solids, including but not limited to: another wastewater treatment facility, landfill, or incinerator. The permittee must satisfy the requirements of the receiving facility. The permittee must report the name of the receiving facility and the quantity of material transferred in the Wastewater Solids and Biosolids Annual Report identified in Schedule D, Condition 4 of this permit.
- b. *Out of state.* If wastewater solids, including Class A and Class B biosolids, are transferred out of state for use or disposal, the permittee must obtain written authorization from DEQ, meet Oregon requirements for the use or disposal of wastewater solids, notify in writing the receiving state of the proposed use or disposal of wastewater solids, and satisfy the requirements of the receiving state.

7. Operator Certification

- a. Definitions
 - i. “Supervise” means to have full and active responsibility for the daily on site technical operation of a wastewater treatment system or wastewater collection system.
 - ii. “Supervisor” or “designated operator”, means the operator delegated authority by the permittee for establishing and executing the specific practice and procedures for operating the wastewater treatment system or wastewater collection system in accordance with the policies of the owner of the system and any permit requirements.
 - iii. “Shift Supervisor” means the operator delegated authority by the permittee for executing the specific practice and procedures for operating the wastewater treatment system or wastewater collection system when the system is operated on more than one daily shift.
 - iv. “System” includes both the collection system and the treatment systems.
- b. The permittee must comply with OAR Chapter 340, Division 49, “Regulations Pertaining to Certification of Wastewater System Operator Personnel” and designate a supervisor whose certification corresponds with the classification of the collection and/or treatment system as specified in the DEQ Supervisory Wastewater Operator Status Report. DEQ may revise the permittee’s classification in writing at any time to reflect changes in the collection or treatment system. This reclassification is not considered a permit modification and may be made after the permit expiration date provided the permit has been administratively extended by DEQ. If a facility is re-classified, a certified letter will be mailed to the system owner from the DEQ Operator Certification Program. Current system classifications are publicized on the DEQ Supervisory Wastewater Operator Status Report found on the [DEQ Wastewater Operator Certification Homepage](#).
- c. The permittee must have its system supervised on a part-time or full-time basis by one or more operators who hold a valid certificate for the type of wastewater treatment or wastewater collection system the operator is supervising and at a grade equal to or greater than the wastewater system’s classification.

When compliance with this section is not possible or practicable because the system supervisor is not available or the position is vacated unexpectedly, and another certified operator is not qualified to assume supervisory responsibility, the Director may grant a time extension for compliance with the requirements in response to a written request from the system owner. The Director will not grant an extension longer than 120 days unless the system owner documents the existence of extraordinary circumstances.
- d. The permittee's wastewater system may be without the designated supervisor for up to 30 consecutive days if another person who is certified at no more than one grade lower than the classification of the wastewater system supervises. The permittee must delegate authority to this operator to supervise the operation of the system.
- e. If the wastewater system has more than one daily shift, the permittee must have another properly certified operator available to supervise operation of the system. Each shift supervisor must be certified at no more than one grade lower than the system classification.
- f. The permittee is not required to have a supervisor on site at all times; however, the supervisor must be available to the permittee and operator at all times.

- g. The permittee must notify DEQ in writing of the name of the system supervisor by completing and submitting the Supervisory Wastewater System Operator Designation Form along with the Delegated Authority form. The most recent version of this form may be found on the [DEQ Wastewater Operator Certification homepage](#) *NOTE: This form is different from the Delegated Authority form. The permittee may replace or re-designate the system supervisor with another properly certified operator at any time and must notify DEQ in writing within 30 days of replacement or re-designation of the operator in charge. As of this writing, the notice of replacement or re-designation must be sent to Water Quality Division, Operator Certification Program, 700 NE Multnomah St, Suite 600, Portland, OR 97232-4100. This address may be updated in writing by DEQ during the term of this permit.

8. Groundwater Monitoring Plan and Annual Report

a. Groundwater Monitoring Plan

The permittee must maintain an up-to-date DEQ-approved groundwater monitoring plan for monitoring on-going groundwater flow and quality conditions in the vicinity of the facility's rapid infiltration basins (RIBs) during the term of this permit. Any significant modifications to this plan will require DEQ review and written approval before they may be implemented by the permittee.

b. Groundwater Monitoring Well Management

- i. The permittee must protect and maintain each groundwater monitoring well such that representative samples of the targeted aquifer can be collected.
- ii. All monitoring well abandonment, replacement, and installation must be completed in compliance with the Oregon Water Resources Department Rules OAR Chapter 690, Division 240, and with the DEQ's "Guidelines for Groundwater Monitoring Well Drilling, Construction, and Decommissioning." All monitoring well repair, abandonment, replacement, and installation must be documented in a report prepared by a State of Oregon registered geologist.
- iii. If a monitoring well becomes damaged or inoperable, the permittee shall notify the Department in writing 14 days of discovery. The written report shall describe what has occurred, the remedial measures that have been or will be taken to correct the problem, and the measures taken to prevent its recurrence. The Department may require the replacement of inoperable monitoring wells.
- iv. New or replacement monitoring well placement or design must be approved by the Department prior to installation. Well logs and a well completion report must be submitted to the Department within 60 days of installation of the well. The report must include a survey drawing showing the location of all monitoring wells, adjacent structures, and water bodies.
- v. An abandonment plan for existing wells deemed unsuitable for groundwater monitoring must be submitted for Department approval prior to abandonment.

c. Groundwater Quality Monitoring Annual Report

The permittee must submit a Groundwater Quality Monitoring Annual Report to DEQ each year detailing groundwater depths and quality measured in the vicinity of the facility's rapid infiltration basins. This report must be submitted to DEQ by February 19 of each year and cover the groundwater depths and quality data collected at the site during the previous calendar year as required by Table B7 of this permit. At a minimum, the annual report must include the following information and analyses:

- i. A table showing the groundwater depths, elevations, and constituent concentrations measured at each monitoring well during the year.
- ii. Groundwater contour map(s) based on groundwater elevations for each monitoring event during the year.
- iii. Concentration versus time graphs for each of the constituents listed in Table B7 for each monitoring well using all the available data.
- iv. Review and comparison of groundwater quality data with respect to groundwater quality concentration limits detailed in Table A4 of this permit. At a minimum, the facility must factor the 95% upper tolerance limits (UTLs) for each of the sampling parameters listed in Table B7 at all monitoring wells every two years.
- v. Discussion of any concerning groundwater quality trends at the site during the year and any changes that the facility may have to implement to further protect groundwater quality at the site moving into the next year.

SCHEDULE F: WPCF GENERAL CONDITIONS

SECTION A. STANDARD CONDITIONS

1. Duty to Comply with Permit

The permittee must comply with all conditions of this permit. Failure to comply with any permit condition is a violation of Oregon Revised Statutes (ORS) 468B.025 and grounds for an enforcement action. Failure to comply is also grounds for the Department to modify, revoke, or deny renewal of a permit.

2. Property Rights and Other Legal Requirements

Issuance of this permit does not convey any property rights of any sort, or any exclusive privilege, or authorize any injury to persons or property or invasion of any other rights, or any infringement of federal, tribal, state, or local laws or regulations.

3. Liability

The Department of Environmental Quality or its officers, agents, or employees may not sustain any liability on account of the issuance of this permit or on account of the construction or maintenance of facilities or systems because of this permit.

4. Permit Actions

After notice by the Department, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including but not limited to the following:

- a. Violation of any term or condition of this permit, any applicable rule or statute, or any order of the Commission; and
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts.

5. Transfer of Permit

This permit may not be transferred to a third party without prior written approval from the Department. The Department may approve transfers where the transferee acquires a property interest in the permitted activity and agrees in writing to fully comply with all the terms and conditions of this permit and the rules of the Commission. A transfer application and filing fee must be submitted to the Department.

6. Permit Fees

The permittee must pay the fees required by Oregon Administrative Rules.

SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

At all times the permittee must maintain in good working order and properly operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to comply with the terms and conditions of this permit.

2. Standard Operation and Maintenance

All waste collection, control, treatment, and disposal facilities or systems must be operated in a manner consistent with the following:

- a. At all times, all facilities or systems must be operated as efficiently as possible in a manner that will prevent discharges, health hazards, and nuisance conditions.
- b. All screenings, grit, and sludge must be disposed of in a manner approved by the Department to prevent any pollutant from the materials from reaching waters of the state, creating a public health hazard, or causing a nuisance condition.
- c. Bypassing untreated waste is generally prohibited. Bypassing may not occur without prior written permission from the Department except where unavoidable to prevent loss of life, personal injury, or severe property damage.

3. Noncompliance and Notification Procedures

If the permittee is unable to comply with conditions of this permit because of surfacing sewage; a breakdown of equipment, facilities, or systems; an accident caused by human error or negligence; or any other cause such as an act of nature, the permittee must:

- a. Immediately take action to stop, contain, and clean up the unauthorized discharges and correct the problem.
- b. Immediately notify the Department's Regional office so that an investigation can be made to evaluate the impact and the corrective actions taken, and to determine any additional action that must be taken.
- c. Within 5 days of the time the permittee becomes aware of the circumstances, the permittee must submit to the Department a detailed written report describing the breakdown, the actual quantity and quality of waste discharged, corrective action taken, steps taken to prevent a recurrence, and any other pertinent information.

Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of this permit or liability for failure to comply.

4. Wastewater System Personnel

The permittee must provide an adequate operating staff that is duly qualified to carry out the operation, maintenance, and monitoring requirements to assure continuous compliance with the conditions of this permit.

5. Public Notification of Effluent Violation or Overflow

If effluent limitations specified in this permit are exceeded or an overflow occurs that threatens public health, the permittee must take such steps as are necessary to alert the public, health agencies and other affected entities (e.g., public water systems) about the extent and nature of the discharge in accordance with the notification procedures developed under General Condition B.6. Such steps may include, but are not limited to, posting of the river at access points and other places, news releases, and paid announcements on radio and television.

6. Emergency Response and Public Notification Plan

The permittee must develop and implement an emergency response and public notification plan that identifies measures to protect public health from overflows, bypasses or upsets that may endanger public health. At a minimum the plan must include mechanisms to:

- a. Ensure that the permittee is aware (to the greatest extent possible) of such events;
- b. Ensure notification of appropriate personnel and ensure that they are immediately dispatched for investigation and response;
- c. Ensure immediate notification to the public, health agencies, and other affected public entities (including public water systems). The overflow response plan must identify the public health and other officials who will receive immediate notification;
- d. Ensure that appropriate personnel are aware of and follow the plan and are appropriately trained;
- e. Provide emergency operations; and
- f. Ensure that DEQ is notified of the public notification steps taken.

SECTION C. MONITORING AND RECORDS

1. Inspection and Entry

The permittee must at all reasonable times allow authorized representatives of the Department to:

- a. Enter upon the permittee's premises where a waste source or disposal system is located or where any records are required to be kept under the terms and conditions of this permit;
- b. Have access to and copy any records required by this permit;
- c. Inspect any treatment or disposal system, practices, operations, monitoring equipment, or monitoring method regulated or required by this permit; or
- d. Sample or monitor any substances or permit parameters at any location at reasonable times for the purpose of assuring permit compliance or as otherwise authorized by state law.

2. Averaging of Measurements

Calculations of averages of measurements required for all parameters except bacteria must use an arithmetic mean; bacteria must be averaged as specified in the permit.

3. Monitoring Procedures

Monitoring must be conducted according to test procedures specified in the most recent edition of **Standard Methods for the Examination of Water and Wastewater** unless other test procedures have been approved in writing by the Department and specified in this permit.

4. Representative Sampling

Sampling and measurements taken as required herein must be representative of the volume and nature of the monitored discharge when discharging or land applying. Monitoring points must not be changed without notification to and the approval of DEQ.

5. Retention of Records

The permittee must retain records of all monitoring and maintenance information, including all calibrations, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. The Department may extend this period at any time.

SECTION D. REPORTING REQUIREMENTS

1. Plan Submittal

Pursuant to Oregon Revised Statute 468B.055, unless specifically exempted by rule, construction, installation, or modification of disposal systems, treatment works, or sewerage systems may not commence until plans and specifications are submitted to and approved in writing by the Department. All construction, installation, or modification shall be in strict conformance with the Department's written approval of the plans.

2. Change in Discharge

Whenever a facility expansion, production increase, or process modification is expected to result in a change in the character of pollutants to be discharged or in a new or increased discharge that will exceed the conditions of this permit, a new application must be submitted together with the necessary reports, plans, and specifications for the proposed changes. A change may not be made until plans have been approved and a new permit or permit modification has been issued.

3. Signatory Requirements

All applications, reports, or information submitted to the Department must be signed and certified by the official applicant of record (owner) or authorized designee.

4. Twenty-Four Hour Reporting

The permittee must report any noncompliance that may endanger health or the environment. Any information must be provided orally (by telephone) to DEQ or to the Oregon Emergency Response System (1-800-452-0311) as specified below within 24 hours from the time the permittee becomes aware of the circumstances.

a. Overflows.

(1) Oral Reporting within 24 hours.

- i. For overflows other than basement backups, the following information must be reported to the Oregon Emergency Response System (OERS) at 1-800-452-0311. For basement backups, this information should be reported directly to DEQ.
 - a) The location of the overflow;
 - b) The receiving water (if there is one);

- c) An estimate of the volume of the overflow;
- d) A description of the sewer system component from which the release occurred (e.g., manhole, constructed overflow pipe, crack in pipe); and
- e) The estimated date and time when the overflow began and stopped or will be stopped.
- ii. The following information must be reported to the Department's Regional office within 24 hours, or during normal business hours, whichever is first:
 - a) The OERS incident number (if applicable); and
 - b) A brief description of the event.
- (2) Written reporting postmarked within 5 days.
 - i. The following information must be provided in writing to the Department's Regional office within 5 days of the time the permittee becomes aware of the overflow:
 - a) The OERS incident number (if applicable);
 - b) The cause or suspected cause of the overflow;
 - c) Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the overflow and a schedule of major milestones for those steps;
 - d) Steps taken or planned to mitigate the impact(s) of the overflow and a schedule of major milestones for those steps; and
 - e) For storm-related overflows, the rainfall intensity (inches/hour) and duration of the storm associated with the overflow.

The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

b. Other instances of noncompliance.

- (1) The following instances of noncompliance must be reported:
 - i. Any unanticipated bypass that exceeds any effluent limitation in this permit;
 - ii. Any upset that exceeds any effluent limitation in this permit;
 - iii. Violation of maximum daily discharge limitation for any of the pollutants listed by the Department in this permit; and
 - iv. Any noncompliance that may endanger human health or the environment.
- (2) During normal business hours, the Department's Regional office must be called. Outside of normal business hours, the Department must be contacted at 1-800-452-0311 (Oregon Emergency Response System).
- (3) A written submission must be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission must contain:
 - i. A description of the noncompliance and its cause;
 - ii. The period of noncompliance, including exact dates and times;
 - iii. The estimated time noncompliance is expected to continue if it has not been corrected;
 - iv. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and
 - v. Public notification steps taken, pursuant to General Condition B.6.
- (4) The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

SECTION E. DEFINITIONS

- 1. *BOD₅* means five-day biochemical oxygen demand.
- 2. *TSS* means total suspended solids.
- 3. *FC* means fecal coliform bacteria.
- 4. *N* means nitrogen.
- 5. *NH₃-N* means Ammonia Nitrogen.

6. NO_3-N means Nitrate Nitrogen.
7. NO_2-N means Nitrite Nitrogen.
8. TKN means Total Kjeldahl Nitrogen.
9. Ca means Calcium.
10. Cl means Chloride.
11. TN means Total Nitrogen.
12. P means Phosphorus.
13. K means Potassium.
14. Na = Sodium.
15. Mg = Magnesium.
16. "*Bacteria*" includes but is not limited to fecal coliform bacteria, total coliform bacteria, *E. coli*, and *Salmonella* bacteria.
17. *Total residual chlorine* means combined chlorine forms plus free residual chlorine.
18. $CFU/gram$ means Colony Forming Units per gram.
19. dS/m means deci Siemens per meter at 25°C.
20. mg/L means milligrams per liter.
21. mg/kg means milligrams per kilogram.
22. ug/L means micrograms per liter.
23. meq/L means milliequivalents per liter.
24. kg means kilograms.
25. kg/ha means kilogram per hectare.
26. GPD means gallons per day.
27. MGD means million gallons per day.
28. $mmhos/cm$ means millimhos per centimeter.
29. $MPN/gram$ means Most Probable Number per gram.
30. NTU means Nephelometric Turbidity Units.
31. mJ/cm^2 means millijoule per square centimeter.
32. SU means standard units.
33. *Geometric Mean* means $(X_1 \times X_2 \times X_3 \dots X_n)^{1/n}$
34. *Median* means the middle number in a sorted, ascending or descending, list of numbers.
33. *Grab sample* means an individual discrete sample collected over a period of time not to exceed 15 minutes.
34. *Composite sample* means a combination of samples collected, generally at equal flow or time intervals over a 24-hour period.
35. *Week* means a calendar week of Sunday through Saturday.
36. *Month* means a calendar month.
37. *Quarter* means January through March, April through June, July through September, or October through December.
38. SAR means Sodium Adsorption Ratio = $Na/\sqrt{Ca+Mg/2}$
Where Na, Ca, and Mg concentrations are expressed in milliequivalents per liter (meq/L).
39. *Struvite* means magnesium ammonium phosphate.
40. *UV light disinfection* means Ultraviolet light disinfection.
41. *POTW* means publicly owned treatment works.