

ATTACHMENT B.2, SITE CERTIFICATE , PWGP



**OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
LARGE ONSITE WPCF PERMIT EVALUATION
May 1, 2002**

Permittee:	Portland General Electric	Manager Approval Initials:	
	121 SW Salmon Street Portland, Oregon 97204 File Number: 111764		
Source Contact:	Arya Behbehani-Divers	Telephone Number: (503) 464-8141	
Source Location:	80997 Kallunki Road, Clatskanie		
County:	Columbia		
Permit Writer:	Anne Cox	NWR Office	
Proposed Action:	New WPCF-OS	Application No.: 986243	Date Received: 3/29/02

Introduction

Under Oregon Administrative Rule Chapter 340 Division 71 Section 130 (15) [OAR 340-71-130(15)], any person proposing a sand filter system to serve a commercial facility shall obtain a WPCF permit from the Department of Environmental Quality.

This area was originally evaluated for on-site sewage disposal by Columbia County onsite staff. On February 8, 2002, the Department confirmed the evaluation of this site in relation to the proposed PGE facility.

Facility Description

Total Design Flow of Facility	1,200 Gallons per day
Number of Systems	One

System #1

Date Constructed	To be constructed in 2002 or later
Design Capacity	1,200 gpd
Facilities Served	Sanitary facilities for the Port Westward Generating plant, bathrooms & sinks.
Type of Treatment	Bottomless Sand filter
Type of Soils	Sand

Comments: Latitude and Longitude for the test pit area is 46 10 41, -123 10 16.

Groundwater

As part of this permit evaluation, a groundwater prioritization screening was done. The results of this screening is as follows:

For new and existing drainfield systems (confirm all statements given as true or false:	
1. Based on the depth to the water table <u>underline the applicable statement</u> and confirm it as either true or false: A. <u>Depth to water table is less than 100 feet</u> : System design flow is less than 5,000 gpd. B. Depth to water table is between 100 and 300 feet; system design flow is less than 10,000 gpd. C. Depth to water table is greater than 300 feet; system design flow is less than 15,000 gpd.	True
2. System is not located in Groundwater Management Area where an identified contaminant of concern may be associated with domestic wastewater.	True
3. Drainfield is not located within: 1000 feet of an existing public or private drinking water supply well or a designated Wellhead Protection Area, And, all land within 1000 feet of the system is zoned such that no drinking water wells are likely to be installed in the future.	False
4. No industrial sources discharge to the system	True
5. There are no exceptional situations under which the system may require further groundwater review to determine the likelihood of an adverse impact.	True

If all answers are true, then no further information is needed.

If any answers are false, has additional information been gathered to satisfy the permit writer and groundwater reviewer that the facility actually has a low potential to adversely impact groundwater? **Yes** If yes, provide details.

All domestic wells are over the 100 foot setback required by OAR 340-71. In fact there are no wells within ½ mile of the project. The initial groundwater in this area is essentially the Columbia River and can be expected to discharge to the river.

The projected sewage flow from this facility is 1,200 gpd, equivalent to 2.6 residential homes located on a parcel of 19 acres. Sand filter effluent is expected to produce 10 mg/l BOD, 10 mg/l TSS, reduce bacteria counts by 98 to 99% and lowers total nitrogen by approximately 50%. The site meets Division 71 Onsite rules criteria for approval of a bottomless sand filter. The proposed flows will be low. The potential to impact the groundwater is negligible.

Compliance History

This is a new permit. There is no compliance history.

PERMIT DISCUSSION

Schedule A – Waste Disposal Limitations

Schedule A contains the following limitations for each system:

- x System Maximum Daily flow
- x Influent maximum concentrations (Sand Filters and RGFs only)
- x Effluent maximum concentrations
- x Prohibition of discharges to surface waters
- x Prohibition of discharge of detrimental substances to system
- x Groundwater restrictions.

Schedule B – Minimum Monitoring and Reporting Requirements

Monitoring parameters and frequencies are based on the Department monitoring matrix. Any modifications are listed as follows:

If the permittee enters into a five year maintenance contract with an acceptable entity, the Department will reduce sampling requirements to one time during that period, at the fifth year of the permit. Further reduction in sampling can be allowed after the fifth year of the permit if the permittee enters into another five year contract.

Schedule D – Special Conditions

Schedule D contains the following special conditions:

- x Operations and Maintenance Requirements
- x Septage/sludge management
- x Maintenance of vegetation in the drainfield area
- x Prohibition of activities that would adversely affect the soil or functioning of the system.
- x Contingency plan requirement
- x Groundwater Requirements

Schedule F – General Conditions

This Schedule contains general conditions that are applicable to all WPCF permits in Oregon.