

Oregon DEQ –Water Quality Program

Troutdale Energy Center Draft NPDES Permit

Sandy Watershed Council Presentation

Rob Burkhart
May 18, 2015

- Facility Overview
- Overview of NPDES Permitting Process
- How Draft Permit Was Developed
- Draft Permit and Evaluation Report

Columbia River

Troutdale Energy Center Location

City of Troutdale
WPCF

Sandy River

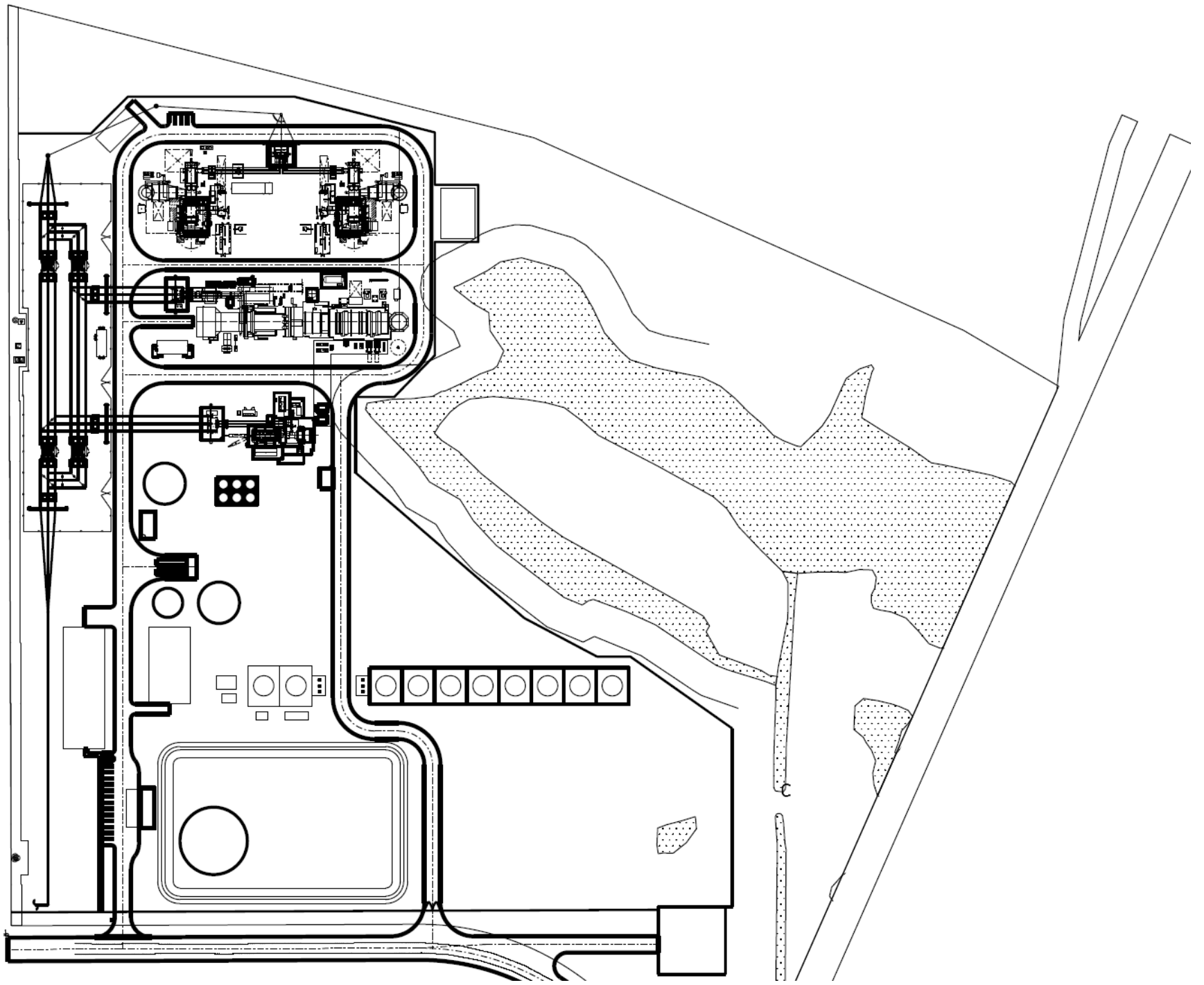
Wastewater
Outfall



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SE 2nd St
SE 3rd St
SE 4th St
SE 5th St





Troutdale Energy Center (TEC)

Supply water to TEC

- Groundwater and/or treated wastewater
- Flows: 3.0 – 5.4 million gallons per day (MGD)

TEC Wastewater

- Primarily from cooling towers
- Maximum wastewater flow rates: 0.8 – 1.2 MGD

National Pollutant Discharge Elimination System (Wastewater) Permitting Process

Process established under both Federal (Clean Water Act) and State law

Effluent Limits

- Applicable technology-based effluent limits (TBELs)
- Water quality-based Effluent limits (WQBELs)

Monitoring and Reporting

- Demonstrate compliance with limits
- Characterize effluent/impacts

TEC Permit Development

Technology-Based Effluent Limits

(TBELs, Section 4.2, page 17 of Evaluation Report)

These limits are based on appropriate technological wastewater controls (e.g. chlorine removal)

TEC TBELs

- Federal: pH, Cr, Zn, Chlorine
- State: Treatment of filter backwash, operation of heat exchanger, Chlorine

TEC Permit Development

Water Quality Based Effluent Limits

(WQBELs, Section 4.3, page 20 of Evaluation Report)

1. These limits address applicable instream water quality criteria.
2. Oregon criteria are contained in Oregon Administrative Rules
3. Designed to protect beneficial uses (e.g. Aquatic Life, Human Health)
4. May be species and/or life stage dependent

Examples:

Ammonia: Applicable criteria are dependent on salmonid presence

Temperature: Applicable criteria are dependent on salmonid presence and the life stage

TEC WQBELs:

- Temperature
- Chlorine

Obtaining Documents and Submitting Written Comments

Permitting Documents available online at:

<http://www.oregon.gov/deq/docs/052215troutdaleec.pdf>

Written comments due by Friday, May 22, 2015 5 p.m.

You may submit your comments by mail, fax or email to:

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Fax: **503-229-6957**

Email: **nwr.wqpermit@deq.state.or.us**



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Department of
Environmental
Quality