King County Industrial Waste (KCIW) Program Update

Presented to the Metropolitan Water Pollution Abatement Advisory Committee June 24, 2015

KCIW Update

Program elements & services

- Annual standard fee update process
- Surcharge program evaluation



EPA, Ecology & KCIW working together

Federal Environmental Protection Agency (EPA)

Delegates this responsibility to states

> Washington State Department of Ecology (Ecology)

- Delegates this responsibility to KCIW
- > Oversees KCIW's program

KCIW's program is required through treatment plants' National Pollutant Discharge Elimination System (NPDES) permits

Industrial pretreatment: part of the wastewater treatment process

Sewage treatment plants are designed to treat biological waste. Heavy metals and oils will not break down.

> Keeping industrial waste out of the sewage system works.



Working with businesses to prevent pollution

Industries do their part by:

- Pretreating the water they use before they send it to the sewer
- Removing substances that could harm the workers, environment, wastewater treatment process, or recycled products.







KCIW works with about 2,200 businesses

Over 600 businesses are permitted or authorized to discharge industrial waste that meets discharge requirements.

Type of Authorization	Number issued in 2014
Discharge Permit	121
Major Discharge Authorization	196
Minor Discharge Authorization	153
Letter of Authorization	165
Total	635

About 1,600 businesses have established or are developing best management practices (dentists, wineries, breweries, distilleries).

More than a billion gallons each year from many different industries



System-wide, 3 to 5 percent of wastewater flow comes from industrial sources.



GALLONS OF INDUSTRIAL WASTEWATER SENT TO COUNTY SEWER SYSTEM: 1,400,000,000

Food Processing

Metal Finishing

Construction Dewatering

Groundwater Remediation

Other: incl. manufacturing; medical; transportation and vehicle mgmt.

KCIW helps businesses meet regulations and prevent pollution

- Review business practices and issue approvals to send treated industrial wastewater to the sewer.
- Inspect and monitor the quality of the wastewater coming from businesses.
- Provide assistance and incentives to businesses.
- Maintain federal and local limits.
- Research new trends and investigate problems.



KCIW makes about 350 inspections each year and collects 1700 samples for analysis

Incentives for compliance

Companies with exceptional compliance receive awards
Over half of the eligible companies received awards in 2014.
Three companies received awards for perfect compliance for 5 years.





KCIW fees set to recover costs

- The following fees are paid by businesses:
- Permit and authorization fees
- Monitoring fees
- Surcharge fees
- Post-violation fees and fines



Circuit board manufacturers pay monitoring fees for heavy metals



Food and beverage processors pay a surcharge for high-strength wastewater

KCIW special projects

- Construction dewatering: Simplify permit process.
- Industrial User Survey: Inventory thousands of businesses to determine which need permits or authorizations to send industrial wastewater to the sewer.
- Surcharge: Update fee for businesses with high-strength (concentrated) waste.



Surcharge fee

> For businesses with high-strength waste.

- Fee covers additional cost to treat high levels of solids and organic material out of the water.
- Businesses that send high-strength waste to the sewer pay a surcharge
- The surcharge is based on the cost to remove material from the wastewater

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Food and beverage processing and pavement de-icing create high strength wastewater



Surcharge Update

Goal is to distribute costs of treating wastewater fairly among ratepayers

How We Compare to Our Peers



Breakdown of the cost of treating wastewater



Today, we spend much more removing material from wastewater than moving flow.

Establishing New Surcharge

- * Update how much it costs to treat high-strength waste (BOD, Soluble BOD, TSS).
- Use recent data to evaluate the concentration of waste sent by each business.
- * Address other issues that can impact treatment plant operations.
- Coordinate with local agencies to mplement change over time to be sensitive to the needs of affected businesses.

Surcharge Communications

Direct communications with affected businesses

- Letters and briefings
- Phased implementation
- Fact sheets to help answer questions
 - For King County staff
 - For local agency billing staff
- > Web updates

King County contact for additional questions

Industrial Waste Program

Working cooperatively with businesses to protect people, the environment, and the economy since 1969.

Contact us: Phone: 206-477-5300 Email: Info.KCIW@kingcounty.gov Web: www.kingcounty.gov/IndustrialWaste