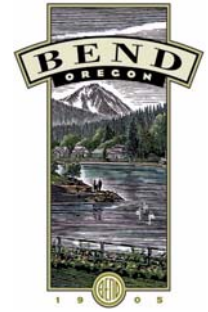


TECHNICAL MEMORANDUM



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Subject: Comparable Extra Strength Sewer Charges

Date: September 28th, 2011

Background

The following examines extra strength sewer charges from several municipalities within the state of Oregon for the sake of comparison with potential City of Bend rates. Each city assessed fees in a manner similar to that of the other cities, but no two fee structures were exactly alike. All extra strength charges given below are in addition to base sewer rates unless otherwise specified.

Definitions

BOD: Biochemical Oxygen Demand – used as a proxy to determine the degree of organic pollution in the water.

TSS: Total Suspended Solids - provides the amount of particulate material present in an aqueous sample.

City of Albany

The total extra strength charge is based on separate unit fees per lb. of BOD and TSS.

<u>Wastewater Pollutant</u>	<u>Cost per lb.</u>
Biochemical Oxygen Demand (BOD)	\$0.708
Total Suspended Solids (TSS)	\$0.947

City of Corvallis

<u>Category</u>	<u>Definitions</u>	<u>Cost per 100 ft³</u>
Low Strength	Less than 200 mg/l combined BOD and TSS	\$2.83
Medium Strength	201 mg/l to 500 mg/l combined BOD and TSS	\$3.29
High Strength	501 mg/l to 1000 mg/l combined BOD and TSS	\$4.51
Very High Strength	Greater than 1000 mg/l combined BOD and TSS	\$6.10

City of Eugene

<u>Category</u>	<u>Combined mg/L of BOD and TSS</u>	<u>Cost per 1000 gal.</u>
Low	0 - 400	\$3.482
Medium	400 - 800	\$4.449
High	800 - 1200	\$5.74
Very High	1200 - 1600	\$7.03
Super High	>1600	\$8.32

City of Gresham

<u>Category</u>	<u>Definitions</u>	<u>Cost per 100 ft³</u>
Low Strength	Less than 400 mg/l combined BOD and TSS	\$2.61
Medium Strength	400 mg/l to 1,100 mg/l combined BOD and TSS	\$4.38
High Strength	Greater than 1,100 mg/l combined BOD and TSS	\$5.41

<u>Category</u>	<u>Example Use Types</u>
Low Strength	Car wash, condominium, general commercial, home park (multi-family), hospital, laundries, multi-family, schools
Medium Strength	Industrial laundries, mortuaries
High Strength	Bakeries, restaurants

City of Medford

Extra strength charges are assessed when the discharge has more than 300 mg/L of BOD and an excess of 60 ppd of BOD. A six month moving average is used to determine which category (and associated surcharge rate) is used. The current cost per 1000 gal. is \$0.38 per 300 mg/L of BOD beyond the first 300 mg/L of BOD.

First 4 categories:

<u>Category</u>	<u>mg/L of BOD</u>	<u>Cost per 1000 gal.</u>
0	0 - 300	\$0.00
1	300 - 600	\$0.38
2	600 - 900	\$0.76
3	900 - 1200	\$1.14

City of Portland

<u>Wastewater Pollutant</u>	<u>Cost per lb.</u>
Biochemical Oxygen Demand (BOD)	\$0.583
Total Suspended Solids (TSS)	\$0.711

<u>Example Use Types</u>	<u>Base Charge per 100 ft³ (Range)</u>
Sit down restaurant	\$2.822 - \$3.942
Fast food restaurant	\$0.794 - \$1.354
Supermarket with bakery, meat cutting, deli, produce, or seafood	\$2.921 - \$4.061
Brew pub	\$5.099 - \$5.939
Meat market	\$0.349 - \$3.578
Bread bakery	\$5.936 - \$7.333
Confections, cake, pie, or cookie bakery	\$7.989 - \$9.721
Donut shop	\$2.664 - \$3.276
Coffee shop	\$1.412 - \$1.820
Commercial kitchens, cafeterias, caterers, and commissaries	\$2.231 - \$3.134
Hotel with full service restaurants and/or banquet kitchens	\$0.419 - \$0.950

City of Redmond

<u>Categories</u>	<u>Example Use Types</u>	<u>Cost per 100 ft³</u>
Low Strength	Antique store, athletic club, auto sales (no repair), bank, bicycle shop, chiropractic, church, day care, dental, electrical contractor, funeral service (without embalming), hair salon, office (professional), optometrist, pool, retail sales (general, without food), storage, thrift store	\$2.69
Medium Strength	Auto body shop, auto repair, bed & breakfast, bowling alley, car wash, convalescent care, equipment repair, garbage service (with equipment cleanup), garden shop, gas station (no convenience store), hotel, hospital, motel paint store, rentals (equipment), school, veterinary hospital, wrecking yard	\$3.32
High Strength	Carpet cleaner, cement/concrete, laundry, manufacturing (using water in process), stone mill, wood mill	\$3.96
Very High Strength	Bakery, brewery, butcher (meat processing), coffee shop, convenience store, dairy, food processor (industrial), grocery store, mortuary (with embalming), restaurant, tavern, winery	\$4.57

City of Salem

<u>Billing Item</u>	<u>Cost</u>
Base Charge	Monthly flat fee of \$1,293.40 + \$2,493 per million gallons of flow
BOD Charge	\$3.6774 per lb.
TSS Charge	\$2.5615 per lb.

City of Wilsonville

<u>Wastewater Pollutant</u>	<u>Cost per lb.</u>
Biochemical Oxygen Demand (BOD)	\$0.731
Total Suspended Solids (TSS)	\$0.731

City of Woodburn

<u>Billing Item</u>	<u>Cost</u>
Base Industrial User Charge	\$3.19 per 100 ft ³
BOD Charge	\$1.19 per lb.
TSS Charge	\$0.35 per lb.