CITY OF COOS BAY CITY COUNCIL
Agenda Staff Report

MEETING DATE	AGENDA ITEM NUMBER
November 17, 2015	

TO: Mayor Shoji and City Councilors

FROM: Jim Hossley, Public Works Director

THROUGH: Rodger Craddock, City Manager

ISSUE: Consideration of Tiered High Strength Wastewater Rates

BACKGROUND

At the July 21, 2015 City Council meeting, the City's rate consultant, Mr. Steve Donovan gave a presentation to the Council on the methodology that is currently in place to calculate the City's wastewater rates. During his presentation, Mr. Donovan pointed out the differential in the monthly volume charge between the domestic strength customer classes and the commercial high strength class is based on the assumed strength of wastewater discharged from these customers to the City's wastewater collection and treatment system. For rate making purposes, the City assumes domestic strength wastewater concentrations are 200 mg/l BOD, and 200 mg/l TSS. For the commercial high strength customers, the assumed concentrations are 350 mg/l BOD and 350 mg/l TSS. These concentration thresholds have been used by the City to calculate volume rates for over thirty years. Mr. Donovan said these threshold concentrations are industry standards, and are used in jurisdictions across the Country.

During the presentation, the question was posed whether the current volume charge for the commercial high strength customer class is too high, and places an undue financial burden on those customers. By way of comparison, the current volume charge for domestic strength customers is $6.76 per month per 100 cubic feet of water consumption (CCF). The corresponding volume charge for the commercial high strength customer class is $8.38 per CCF.

Mr. Donovan pointed out if the Council chose to reduce the commercial high strength volume charge, an increase in the domestic strength volume charge would have to be initiated to fully recover the wastewater system revenue requirements. At the August 18, 2015 Council meeting Jim Hossley presented Mr. Donovan's rate sensitivity calculations that produced a schedule of possible volume charges for both domestic and high strength rates over a range of assumed wastewater concentrations. Mr. Donovan's provided, as one example, the assumed domestic concentrations remained at 200 mg/l and the assumed commercial high strength concentration is lowered from 350 mg/l to 200 mg/l. This revision in the assumed strength concentration resulted in a $0.18 increase per 100 cubic feet for all classes of domestic strength users and a $1.44 decrease per 100 cubic feet for the commercial high strength class user.

A majority of Councilors were in favor of a shared 50/50 rate split between the high strength and all other user classifications. It was Council's consensus to direct staff to prepare a resolution

based on 50/50 rate split reducing high strength user rates and increase all other user classification rates and advertise for a public hearing.

At the September 1, 2015 Council meeting during New Council Business, Mayor Shoji noted during the August 18, 2015 Council meeting the majority of Councilors were in favor of 50/50 rate split between high strength users and all other user classifications. Mayor Shoji stated she wanted to explore a tiered rate approach by use for the high strength users; stated she did not wish to help corporations at the expense of Coos Bay residents. Consensus of the Council was for staff to postpone the hearing for consideration of the 50/50 rate split between the high strength and all other user classifications to allow time for staff to research an alternative tiered rate structure by use for high strength users.

Between the August 18th and September 1st meetings, staff had Steve Donovan prepare work on the 50/50 split scenario. Per this scenario the assumed domestic concentrations remained at 200 mg/l and the assumed commercial high strength concentration is lowered from 350 mg/l to 275 mg/l. This revision in the assumed strength concentration resulted in a $0.09 increase per 100 cubic feet for all classes of domestic strength users and a $0.69 decrease per 100 cubic feet for the commercial high strength class user.

Since September 1st, staff has explored ways to create a tiered structure for high strength users. Communities that have tiered high strength user rates usually differentiate the various tiers based on BOD and TSS loadings typical of a particular use. Many communities then charge the user based on the actual measure of the BOD and TSS produced by the user. The City of Coos Bay does not currently have the resources to measure actual BOD and TSS loadings. However, the measurements could be something done at the expense of the individual customer. Several variables would influence the cost of determining the BOD and TSS loadings. The cost could range from several hundreds of dollars per customer to several thousand dollars per customer.

I came up with a three-tier structure. I put particular user types in the various tiers based on assumed BOD and TSS loads typical of the particular use. I designed the tiers based on a blend of what I found other communities have done. I then sent the information to Steve Donovan to come up with a rate charge based on the proposed tiers. Based on Mr. Donovan's analysis, the volume rate for domestic strength users would increase by $0.04 per 100 cubic feet. The volume rate for tier 1 high strength users would decrease by $0.49 per 100 cubic feet; tier 2 the decrease would be $0.22; and tier 3 would increase $0.05 per 100 cubic feet.

ADVANTAGES:

Exploring the merits of revising the wastewater rates provides Council additional familiarity with the City's rate structure. The option of implementing the 3-tier system, as presented tonight, provides some reduction of wastewater rates for most current high strength users; the 3-tier system has the potential to more fairly apportion rates among current high strength assuming loading allocations are correct. If Council were to implement the 50/50 split option, current high strength users would realize reduction in wastewater rates. Some users could see significant monthly reductions in their wastewater bills. If Council were to take no action, the City's wastewater rate structure would remain unchanged. The current rate structure and its concentration thresholds have been used by the City to calculate volume rates for over thirty years. These threshold concentrations are industry standards, and are used in jurisdictions across the Country. The current structure is likely the most legally defensible of the three options.

DISADVANTAGES:

Any reduction in the commercial high strength volume charge, and the corresponding reduction in revenue recovered from this class will have to be made up from volume rate increases to the

domestic strength customer classes. Based on historical metered flow data, roughly 91% of total wastewater system flows originate from the domestic strength customer classes, and only 9% of metered flow originates from the commercial high strength class. This means that a relatively large reduction in the commercial high strength volume charge would translate into a much more modest increase in the domestic strength volume charge.

BUDGET IMPLICATIONS:

None to the City if the Council balances rate decreases to the commercial high strength volume charge with corresponding rate increases to the domestic strength volume charge.

If the Council chooses to move in some other direction relative to the volume charges for high strength and domestic strength customers, direction to staff will be required to calculate the budget implications.

ACTION REQUESTED:

Council can consider four different options:

1. Do nothing
2. Direct staff to prepare the appropriate resolution and advertise for a public hearing to take public input in advance of the proposed adoption of revised City of Coos Bay wastewater rates to include the "50/50 split scenario" revising the rates for all customer classes assuming the high strength customer class strength of discharge is reduced to 275 mg/l BOD and 275 mg/l TSS. The domestic strength BOD and TSS thresholds are not changed
3. Direct staff to prepare the appropriate resolution and advertise for a public hearing to take public input in advance of the proposed adoption of revised City of Coos Bay wastewater rates to include a tiered rate structure within the commercial high strength user class.
4. Direct staff to do a Request for Proposal (RFP) to prepare a cost of service and rate analysis. This analysis could examine and recommend a tiered rate structure as well as insure rates are appropriate to meet the community's wastewater needs.

ATTACHMENTS:

July 30, 2015 wastewater volume rate sensitivity analysis report prepared by Steve Donovan

August 19, 2015 investigation of wastewater rates based on the "50/50" split scenario by Steve Donovan

3-Tier commercial high strength rate structure spread sheets

Coos Bay High Strength User List

Memorandum

To: Jim Hossley

From: Steve Donovan

Cc: Susanne Baker, Rodger Craddock

Date: July 30, 2015

Re: Council Decision Support – Wastewater Volume Rates

At my July 21st City Council presentation concerning the City's current wastewater rates methodology, I pointed out that assumed strength of discharge is the key variable that differentiates the wastewater volume charge of the domestic strength customer classes (i.e., single family residential, multi-family residential, general commercial, and public/government) and the commercial high strength customer class. Under the current rate structure, domestic strength wastewater concentrations are assumed to be 200 mg/l BOD and 200 mg/l TSS. The assumed concentrations for the commercial high strength class are 350 mg/l BOD and 350 mg/l TSS.

After I completed my presentation, Councilor Daily presented a couple of charts that showed the difference in the current and [his] projected monthly wastewater bills for an average single family residential customer and a commercial high strength customer that uses 2,600 cubic feet of water per month. His argument centered on the size of the differential between the monthly bill for these two types of customers, and the need for the City to consider reducing the volume rate differential between domestic and high strength customers.

The Council discussed the policy implications of Councilor Daily's suggestion, but generally felt unprepared to act on the suggestion without the benefit of concrete alternatives. I pointed out to the Mayor and Council, any reduction in the commercial high strength volume charge would have to be counteracted with an increase in the domestic strength volume charge to fully recover total system revenue requirements. To help the Council with this issue of concrete alternatives, I offered to run a rate sensitivity analysis. Specifically, I created a model that "steps down" the assumed concentrations of wastewater discharges from the commercial high strength class in 50 mg/l increments until it matched the assumed concentrations of the domestic strength classes. In other words, I solved for the volume charges for both classes under alternative concentration assumptions for the high strength class. I held the domestic strength concentrations at 200 mg/l BOD and 200 mg/l TSS over the sliding scale of concentrations for the high strength class. The results of this sensitivity analysis are shown below in Table 1.

Table 1

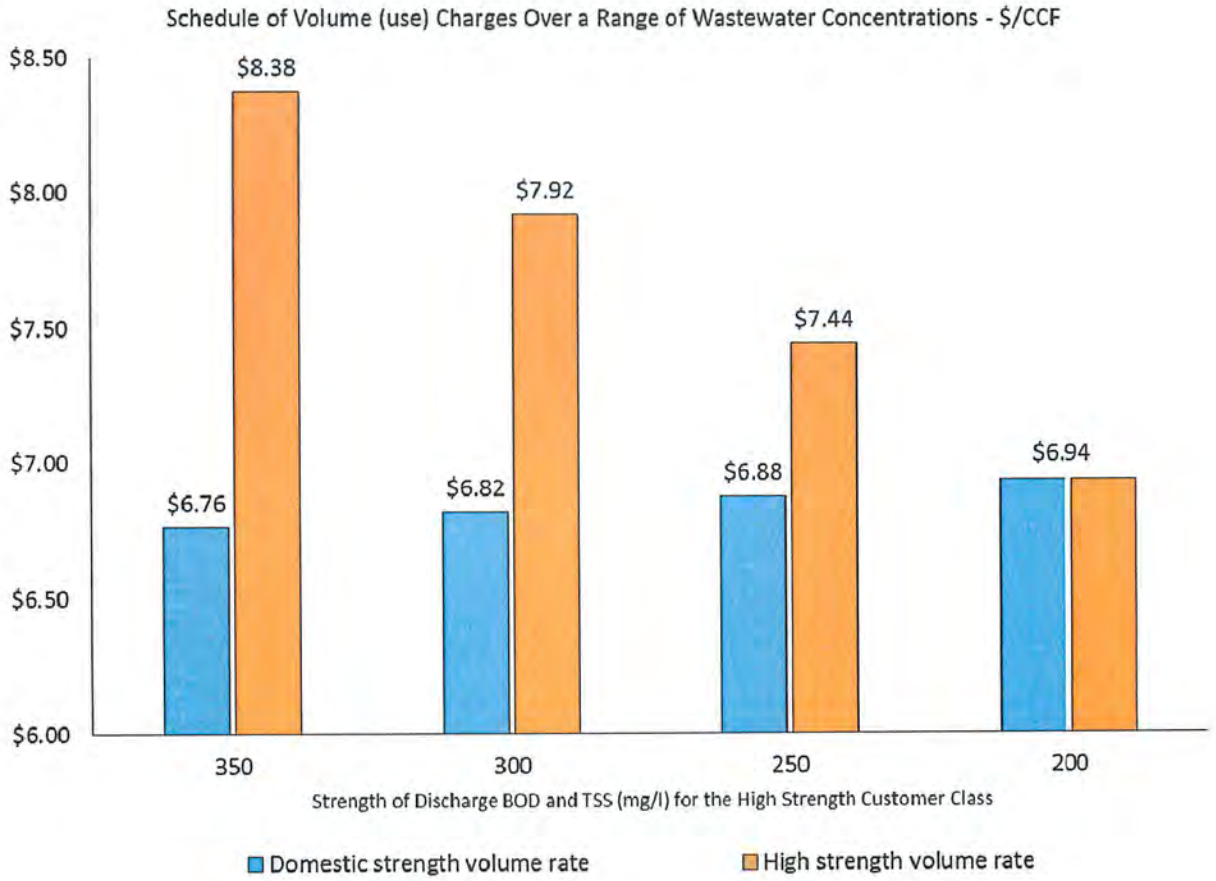
City of Coos Bay, Oregon
Schedule of Volume (Use) Charges over a range of Wastewater Concentrations

Assumed Wastewater Concentrations:	milligrams per liter			
Domestic strength:				
BOD	200	200	200	200
TSS	200	200	200	200
High strength:				
BOD	350	300	250	200
TSS	350	300	250	200
Single Family Residential				
Sanitary flow and I&I	$ 4.61	$ 4.61	$ 4.61	$ 4.61
Strength - BOD	$ 1.27	$ 1.30	$ 1.33	$ 1.37
Strength - TSS	$ 0.89	$ 0.91	$ 0.93	$ 0.96
Total - $/Ccf	$ 6.76	$ 6.82	$ 6.88	$ 6.94
Multi-Family				
Sanitary flow and I&I	$ 4.61	$ 4.61	$ 4.61	$ 4.61
Strength - BOD	$ 1.27	$ 1.30	$ 1.33	$ 1.37
Strength - TSS	$ 0.89	$ 0.91	$ 0.93	$ 0.96
Total - $/Ccf	$ 6.76	$ 6.82	$ 6.88	$ 6.94
Commercial				
Sanitary flow and I&I	$ 4.61	$ 4.61	$ 4.61	$ 4.61
Strength - BOD	$ 1.27	$ 1.30	$ 1.33	$ 1.37
Strength - TSS	$ 0.89	$ 0.91	$ 0.93	$ 0.96
Total - $/Ccf	$ 6.76	$ 6.82	$ 6.88	$ 6.94
Governmental				
Sanitary flow and I&I	$ 4.61	$ 4.61	$ 4.61	$ 4.61
Strength - BOD	$ 1.27	$ 1.30	$ 1.33	$ 1.37
Strength - TSS	$ 0.89	$ 0.91	$ 0.93	$ 0.96
Total - $/Ccf	$ 6.76	$ 6.82	$ 6.88	$ 6.94
High Strength				
Sanitary flow and I&I - $/Ccf	$ 4.61	$ 4.61	$ 4.61	$ 4.61
BOD - $/lb	$ 2.22	$ 1.95	$ 1.67	$ 1.37
TSS - $/lb	$ 1.55	$ 1.36	$ 1.16	$ 0.96
Total - $/Ccf	$ 8.38	$ 7.92	$ 7.44	$ 6.94

The data in Table 1 shows that as we reduce the concentrations (and thus the rates) for the high strength class, the rates for the domestic strength classes go up, but at a modest pace

relative to the pace of declines seen for the high strength rates. The reason for this "weighting" lies in the assumed flow contributions to the system by the domestic and high strength classes. Based on actual fiscal 2014-15 metered water consumption data from the Coos Bay-North Bend Water Board, 89% of all metered Coos Bay flows to the wastewater collection and treatment system originate from the domestic strength customer classes. Only 11% of metered Coos Bay flows come from the commercial high strength class. To put this in perspective, if the Council chose to move the current high strength class concentration threshold from 350/350 to the current domestic strength concentration threshold of 200/200, the commercial high strength volume charge would go from $8.38 per CCF to $6.94 per CCF; a reduction of 17 percent. Conversely, the domestic strength volume charge would go from $6.76 per CCF to $6.94 per CCF; an increase of only 3%. The volume charges for domestic and high strength classes over the range of concentrations are shown graphically in Figure 1.

Figure 1



Monthly Wastewater Bill Impacts

To estimate the impact of changing volume rates on the average customer's monthly wastewater bill requires an estimate of average monthly consumption by customer class. To

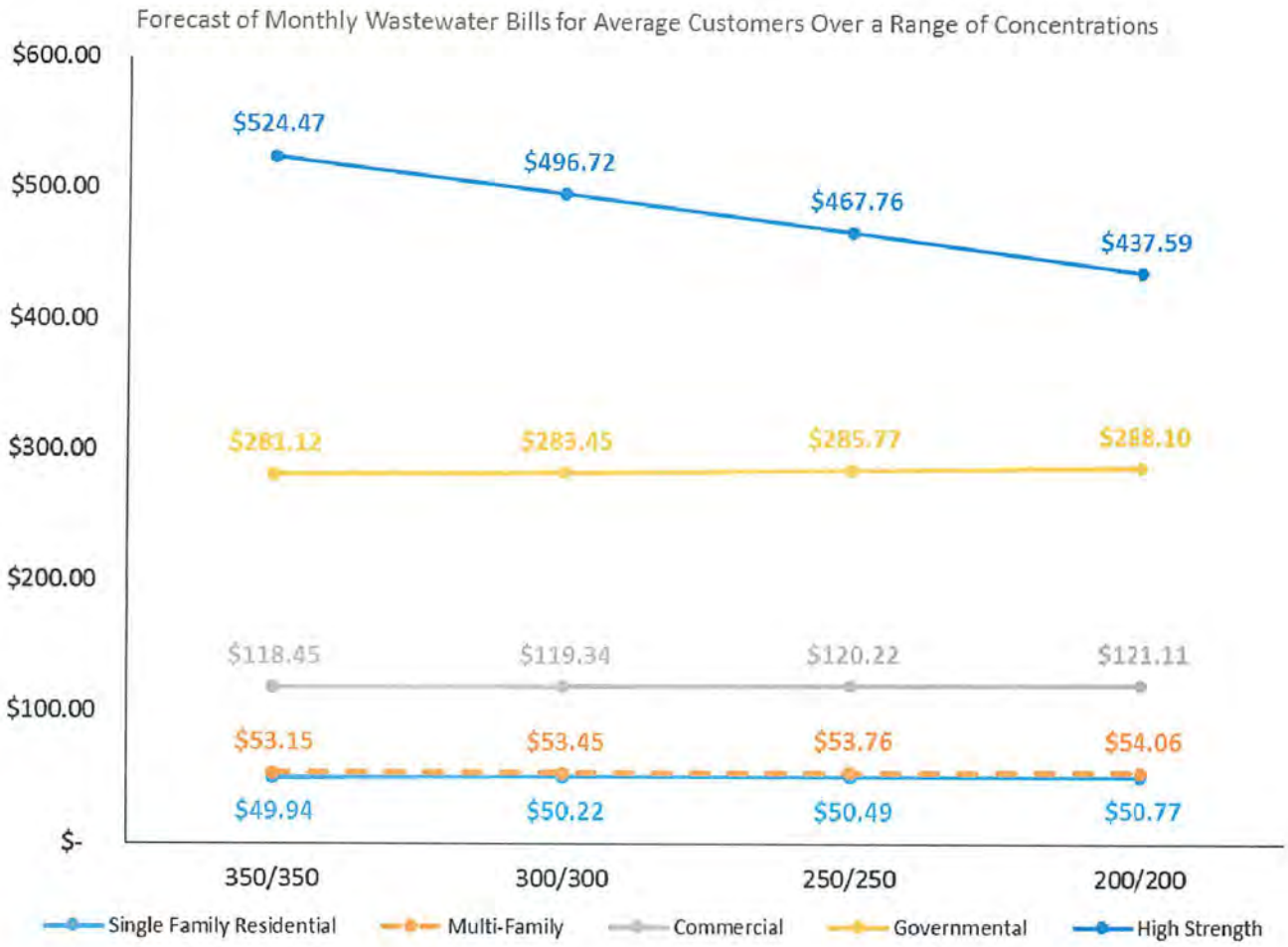
facilitate this, I asked the Finance Department to supply me with metered water sales and active accounts data for the most recently completed fiscal year 2014-15. Based on wastewater billing records, the following monthly average consumption statistics were derived (per account, and per dwelling unit for multi-family):

Customer Class	Monthly Ave. Consumption (CCF)
Single family residential (based on winter average consumption)	4.60
Multi-family residential (per dwelling unit)	5.07
Commercial	14.73
Public/Government	38.80
Commercial high strength	60.34

The other component of any customer's wastewater bill is the base charge. This charge is billed to customers uniformly, and thus would not vary based on assumed strength of wastewater discharged to the system. The current wastewater base charge is $18.86 per account (per dwelling unit for multi-family) per month.

With this data in hand, we were able to calculate monthly wastewater bills for the "average" customer in each of the City's wastewater customer classes across the range of concentrations for the commercial high strength class. This information is displayed below in Figure 2.

Figure 2



The chart data shown above is recast below in tabular format (Table 2).

Table 2

Schedule of Average Monthly Bills by Customer Class

	milligrams per liter BOD/TSS			
High Strength Class Concentrations	350/350	300/300	250/250	200/200
Single Family Residential	$ 49.94	$ 50.22	$ 50.49	$ 50.77
Multi-Family	$ 53.15	$ 53.45	$ 53.76	$ 54.06
Commercial	$ 118.45	$ 119.34	$ 120.22	$ 121.11
Governmental	$ 281.12	$ 283.45	$ 285.77	$ 288.10
High Strength	$ 524.47	$ 496.72	$ 467.76	$ 437.59

Conclusions

On a total monthly bill basis, the data in Table 2 indicates the average commercial high strength customer's bill could be reduced by $86.88. Currently, this customer pays $524.47 per month. If the Council chose to bring the assumed strength of discharge concentration down to the domestic strength concentration of 200/200, this customer's total monthly wastewater bill would be $437.59. To maintain revenue neutrality, the monthly bills for the average customers in all other domestic strength classes would go up. The estimated amounts of these monthly cost increases are shown below in Table 3 for all classes across the three (3) step reductions in concentrations for the commercial high strength class.

Table 3

Monthly Wastewater Bill Impacts
Dollars per Month to the Average Customer in 50 mg/l Step Reductions in Concentration Threshold for the Commercial High Strength Customer Class

	Monthly Cost	Change in Cost to Ave. Customer - $/mo. 300/300	250/250	200/200
350/350 Concentration BOD/TSS:				
Single Family Residential	$ 49.94			
Multi-Family	$ 53.15			
Commercial	$ 118.45			
Governmental	$ 281.12			
High Strength	$ 524.47			
300/300 Concentration BOD/TSS:				
Single Family Residential	$ 50.22	$ 0.28		
Multi-Family	$ 53.45	$ 0.30		
Commercial	$ 119.34	$ 0.88		
Governmental	$ 283.45	$ 2.33		
High Strength	$ 496.72	$ (27.75)		
250/250 Concentration BOD/TSS:				
Single Family Residential	$ 50.49		$ 0.55	
Multi-Family	$ 53.76		$ 0.61	
Commercial	$ 120.22		$ 1.77	
Governmental	$ 285.77		$ 4.66	
High Strength	$ 467.76		$ (56.72)	
200/200 Concentration BOD/TSS:				
Single Family Residential	$ 50.77			$ 0.83
Multi-Family	$ 54.06			$ 0.91
Commercial	$ 121.11			$ 2.65
Governmental	$ 288.10			$ 6.98
High Strength	$ 437.59			$ (86.88)

Memorandum

To: Jim Hossley

From: Steve Donovan

Cc: Susanne Baker, Rodger Craddock

Date: August 19, 2015

Re: Council Decision Support – Wastewater Volume Rates

At the August 18th City Council meeting, the Council discussed the decision support analysis that was prepared for them relative to assumed strength of discharge for the High Strength wastewater customer class. At my July 21st City Council presentation, I pointed out that assumed strength of discharge is the key variable that differentiates the wastewater volume charge of the domestic strength customer classes (i.e., single family residential, multi-family residential, general commercial, and public/government) from the commercial high strength customer class. Under the current rate structure, domestic strength wastewater concentrations are assumed to be 200 mg/l BOD and 200 mg/l TSS. The assumed concentrations for the commercial high strength class is 350 mg/l BOD and 350 mg/l TSS.

Per City Council direction, I reran the wastewater rate model to solve for rates for all customer classes assuming the high strength customer class strength of discharge was reduced to 275 mg/l BOD and 275 mg/l TSS. The domestic strength BOD and TSS thresholds were not changed. The results of this analysis are shown below in Table 1. For ease of comparison, the data in table 1 is broken out by the currently adopted schedule of wastewater rates (per Resolution 15-15, dated August 4, 2015), and what I am calling the "Council Proposed" schedule of rates. The "Council Proposed" schedule of rates reflects the lower strength of discharge threshold for the high strength customer class.

Table 1

City of Coos Bay, Oregon
Schedule of Current and Proposed Wastewater User Charges

	Current[1]	Council Proposed[2]	Difference
Customer account service (base) charge:			
Inside City monthly	$ 18.86	$ 18.86	$ -
Commodity (use) charges:			
Single Family Residential			
Sanitary flow and I&I	$ 4.61	$ 4.61	$ -
Strength - BOD	$ 1.26	$ 1.32	$ 0.06
Strength - TSS	$ 0.89	$ 0.92	$ 0.03
Total - $/Ccf	$ 6.76	$ 6.85	$ 0.09
Multi-Family			
Sanitary flow and I&I	$ 4.61	$ 4.61	$ -
Strength - BOD	$ 1.26	$ 1.32	$ 0.06
Strength - TSS	$ 0.89	$ 0.92	$ 0.03
Total - $/Ccf	$ 6.76	$ 6.85	$ 0.09
Commercial			
Sanitary flow and I&I	$ 4.61	$ 4.61	$ -
Strength - BOD	$ 1.26	$ 1.32	$ 0.06
Strength - TSS	$ 0.89	$ 0.92	$ 0.03
Total - $/Ccf	$ 6.76	$ 6.85	$ 0.09
Governmental			
Sanitary flow and I&I	$ 4.61	$ 4.61	$ -
Strength - BOD	$ 1.26	$ 1.32	$ 0.06
Strength - TSS	$ 0.89	$ 0.92	$ 0.03
Total - $/Ccf	$ 6.76	$ 6.85	$ 0.09
High Strength			
Sanitary flow and I&I - $/Ccf	$ 4.61	$ 4.61	$ -
BOD - $/lb	$ 2.22	$ 1.82	$ (0.40)
TSS - $/lb	$ 1.55	$ 1.26	$ (0.29)
Total - $/Ccf	$ 8.38	$ 7.69	$ (0.69)

1 High strength class strength of discharge assumed to be 350 mg/l BOD, and 350 mg/l TSS; All other classes assumed to be 200 mg/l BOD, and 200 mg/l TSS

2 High strength class strength of discharge assumed to be 275 mg/l BOD, and 275 mg/l TSS; All other classes assumed to be 200 mg/l BOD, and 200 mg/l TSS

Although not specifically requested, I took it upon myself to calculate the monthly billing impact on customers. On a total monthly bill basis, the analysis indicates the average commercial high strength customer's bill could be reduced by $41.63 to $482.84 if the strength of discharge threshold for this class was reduced to 275 mg/l BOD and 275 mg/l TSS. Currently, this customer pays $524.47 per month. To maintain revenue neutrality, the monthly bills for the average customers in all other domestic strength classes would go up. The estimated amounts of these monthly cost increases are shown below in Table 2 for all the domestic strength classes.

Table 2

City of Coos Bay, Oregon
Schedule of Average Monthly Wastewater Bills by Customer Class

	Current[1]	Council Proposed[2]	Difference
Single Family Residential	$ 49.94	$ 50.36	$ 0.42
Multi-Family (per DU)	$ 53.15	$ 53.61	$ 0.46
Commercial	$ 118.45	$ 119.78	$ 1.33
Government/Public	$ 281.12	$ 284.61	$ 3.49
High Strength	$ 524.47	$ 482.84	$ (41.63)

1 High strength class strength of discharge assumed to be 350 mg/l BOD, and 350 mg/l TSS; All other classes assumed to be 200 mg/l BOD, and 200 mg/l TSS

2 High strength class strength of discharge assumed to be 275 mg/l BOD, and 275 mg/l TSS; All other classes assumed to be 200 mg/l BOD, and 200 mg/l TSS

If you have any questions concerning the analysis, please feel to contact me at your earliest convenience. I will send you the wastewater rate sensitivity model to via e-mail.

PROPOSED HIGH STRENGTH TIERS

High Strength Tier 1 > 300 mg/l

Grocery stores; no food prep, deli, bakery, or meat processing
Coffe Shop; no food preparation
Bar, Tavern; no food preparation
Convenience Store
Gas Station with Convenience Store
Car Wash
Specialty food maker

High Strength Tier 2 > 325 mg/l

Hospital
Convalescent/Assisted living facility
Laundromats/Laundry
Grocery; with food preparation, deli, bakery, or meat processing
Schools; with food preparation
Bar, Pub, Tavern serving food
Restaurants; full service and fast food,
Bakery
Fraternal Clubs with food preparation
Retail/Entertainment facilities with food preparation

High Strength Tier 3 > 350 mg/l

Mortuary
Brewery
Food processing

City of Coos Bay, Oregon
Schedule of Current and Proposed Wastewater User Charges - Summary

	Current[1]	Proposed[2]	Difference
Customer account service (base) charge:			
Inside City monthly	$ 18.86	$ 18.86	$ -
Commodity (use) charges:			
Single Family Residential	$ 6.76	$ 6.80	$ 0.04
Multi-Family	$ 6.76	$ 6.80	$ 0.04
Commercial	$ 6.76	$ 6.80	$ 0.04
Governmental	$ 6.76	$ 6.80	$ 0.04
High Strength: Proposed			
Tier 1	$ 8.38	$ 7.89	$ (0.49)
Tier 2	$ 8.38	$ 8.16	$ (0.22)
Tier 3	$ 8.38	$ 8.43	$ 0.05

1 High strength class strength of discharge assumed to be 350 mg/l BOD, and 350 mg/l TSS; All other classes assumed to be 200 mg/l BOD, and 200 mg/l TSS

2 High strength class strength of discharge assumed to be:

Tier 1 - 300 mg/l BOD, 300 mg/l TSS

Tier 2 - 325 mg/l BOD, 325 mg/l TSS

Tier 3 - 350 mg/l BOD, 350 mg/l TSS

City of Coos Bay, Oregon
Schedule of Current and Proposed Wastewater User Charges - Summary

	Current[1]	Proposed[2]	Difference
Customer account service (base) charge:			
Inside City monthly	$ 18.86	$ 18.86	$ -
Commodity (use) charges:			
Single Family Residential	$ 6.76	$ 6.80	$ 0.04
Multi-Family	$ 6.76	$ 6.80	$ 0.04
Commercial	$ 6.76	$ 6.80	$ 0.04
Governmental	$ 6.76	$ 6.80	$ 0.04
High Strength: Current	$ 8.38	$ -	
High Strength: Proposed			
Tier 1		$ 7.89	
Tier 2		$ 8.16	
Tier 3		$ 8.43	

1 High strength class strength of discharge assumed to be 350 mg/l BOD, and 350 mg/l TSS; All other classes assumed to be 200 mg/l BOD, and 200 mg/l TSS

2 High strength class strength of discharge assumed to be:

Tier 1 - 300 mg/l BOD, 300 mg/l TSS

Tier 2 - 325 mg/l BOD, 325 mg/l TSS

Tier 3 - 350 mg/l BOD, 350 mg/l TSS

Monthly sewer bills:
Assumed monthly consumption based on Fiscal 2014-15 actuals - ccf

Single Family	4.60
Multi-family (per EDU)	5.07
Commercial	14.73
Government	38.80
High Strength - Class Ave	60.34
High Strength - Dec, 2014 snapshot FYI	
Tier 1	52.76
Tier 2	66.42
Tier 3	73.30

City of Coos Bay, Oregon
Schedule of Average Monthly Wastewater Bills by Customer Class

	Current[1]	Council Proposed[2]	Difference
Single Family Residential	$ 49.94	$ 50.13	$ 0.19
Multi-Family (per DU)	$ 53.15	$ 53.35	$ 0.20
Commercial	$ 118.45	$ 119.04	$ 0.59
Government/Public	$ 281.12	$ 282.67	$ 1.55
High Strength			
Tier 1	$ 524.47	$ 494.91	$ (29.56)
Tier 2	$ 524.47	$ 511.20	$ (13.27)
Tier 3	$ 524.47	$ 527.49	$ 3.02

1 High strength class strength of discharge assumed to be 350 mg/l BOD, and 350 mg/l TSS; All other classes assumed to be 200 mg/l BOD, and 200 mg/l TSS

2 High strength class strength of discharge assumed to be:

Tier 1 - 300 mg/l BOD, 300 mg/l TSS

Tier 2 - 325 mg/l BOD, 325 mg/l TSS

Tier 3 - 350 mg/l BOD, 350 mg/l TSS

Utility Billing
Coos Bay Hi Strgth Sewer

COOS BAY - NORTH BEND WATER BOARD
2505 Ocean Boulevard
P.O. Box 539, Coos Bay, Oregon 97420-0108
Phone: (541)267-3128 Fax: (541)269-5370

User: csrmgr
Printed: 08/06/2015 - 9:56 AM

UB Acco	Acct Sta	Add	Last Name (Custome	Street Numbe	Street Directiona	Street Name (Lot)	Service N	Service C
000078-00(	Active		BAYSHORE CHEVRON	600A	N	BAYSHORE DR	02	05
000113-00(	Active		BLUE HERON BISTRO	100	W	COMMERCIAL AVE	02	05
000121-001	Active		HEROLD	171	S	BROADWAY	02	05
000146-00(	Active		BENETTI'S DELI	260	S	BROADWAY	02	05
000154-00(	Active		SUMIN'S RESTAURANT	298	S	BROADWAY	02	05
000167-00(	Active		CONEY STATION #1	295	S	BROADWAY	02	05
000170-00(	Active		SMITH'S BAY WAY MAI	325	S	BROADWAY	02	05
000265-00(	Active		COOS BAY SCHOOL DIS	260		2ND AVE	02	05
000464-00(	Active		COOS BAY SCHOOL DIS	303		D ST	02	05
000946-00(	Active		THE COACH HOUSE	604		6TH AVE	02	05
001403-00(	Active		TAEGU FOODS LLC	835	S	BROADWAY	02	05
001433-00(	Active		SUNWAH RESTAURANT	850	S	BROADWAY	02	05
001437-00(	Active		PAPA MURPHY'S	88		INGERSOLL AVE	02	05
001450-00(	Active		GREEN	910	S	1ST ST	02	05
001465-00(	Active		ABBYS PIZZA #27	997	S	1ST ST	02	05
001487-00(	Active		FRED MEYER INC	1020	S	1ST ST	02	05
001492-001	Active		LUCKY LOGGER RV PAI	250		JOHNSON AVE	02	05
001495-00(	Active		SAFEWAY INC #1556	230		JOHNSON AVE	02	05
002524-00(	Active		FRATN'L ORD EAGLES #	634	S	2ND ST	02	05
002565-00(	Active		PUERTO VALLARTA	230	S	2ND ST	02	05
002633-00(	Active		COOS BAY DAIRY QUEI	670		CENTRAL AVE	02	05
002647-00(	Active		MC KAYS MARKET	775		CENTRAL AVE	02	05
003926-00(	Active		BAY AREA HOSPITAL	1775		THOMPSON RD	02	05
003996-00(	Active		HEARTHSIDE	2625		KOOSBAY BLVD	02	05
004045-001	Active		COOS BAY SCHOOL DIS			BOYS GYM	02	05
005188-00(	Active		LIFE CARE CENTER OF (	2890	SE	OCEAN BLVD	02	05
005815-00(	Active		COOS BAY SCHOOL DIS			10TH & CURTIS AVE/BL(	02	05
006385-00(	Active		BAY AREA SENIOR CEN	886	S	4TH ST	02	05
006840-00(	Active		COOS BAY SCHOOL DIS		S	10TH ST-MAIN BUILD	02	05
008708-00(	Active		GEO'S ENGLEWOOD MA	1434		SOUTHWEST BLVD	02	05
009568-00(	Active		OR MILITARY DEPT/CB	255	N	NORMAN AVE	02	05
009665-00(	Active		7-11 GROC STR 17090	1075		NEWMARK AVE	02	05
009667-00(	Active		EMPIRE CAR WASH	1109		NEWMARK AVE	02	05
009671-001	Active		SWOCC			CULINARY BUILDING	02	05
009673-001	Active		SWOCC	285		STUDENT WY/WILLAMI	02	05
009675-00(	Active		SWOCC	262		STUDENT WY #9/LIGHT	02	05
009698-00(	Active		SWOCC			EMPIRE HALL	02	05
009716-00(	Active		SWOCC			PROSPER HALL	02	05
009721-00(	Active		SWOCC			MAINTENANCE BLDG	02	05
009728-001	Active		WAL-MART STORES INC	2051		NEWMARK AVE	02	05
009751-00(	Active		DOMINO'S PIZZA	3440	SE	OCEAN BLVD	02	05
011766-00(	Active		MC KAY'S MARKET	130	N	WASSON ST	02	05
014817-00(	Active		SILVER DOLLAR TAVEI	479		NEWMARK AVE	02	05
014831-00(	Active		PACIFIC EMPIRE MOTEI	155	S	EMPIRE BLVD	02	05
015475-00(	Active		LUIGI'S ITALIAN SANDV	801		NEWMARK AVE	02	05

Agenda Item #7

UB Acco	Acct Sta	Add	Last Name (Custome	Street Numbe	Street Directiona	Street Name (Lot)	Service N	Service C
015485-00(	Active		COOS BAY SCHOOL DIS	245	S	CAMMANN ST	02	05
015515-00(	Active		CRANBERRY SWEETS C	1005		NEWMARK AVE	02	05
019111-002	Active		COASTAL BELLS	1030		EVANS BLVD	02	05
020610-001	Active		LITTLE CAESERS	789	S	BROADWAY	02	05
020681-001	Active		DAVE'S PIZZA	740		KOOSBAY BLVD	02	05
024287-001	Active		SUBWAY	950	S	1ST ST	02	05
024287-003	Active		SUBWAY	814		NEWMARK AVE	02	05
024609-001	Active		ALDER ACRES RV PK	2855	SE	OCEAN BLVD	02	05
025159-002	Active		B P O E #1160	265		CENTRAL AVE	02	05
025327-00(	Active		CITY SUBS	149	N	4TH ST	02	05
026126-003	Active		PRUDENTIAL SEABOAR	520	N	BAYSHORE DR	02	05
026585-001	Active		ALDER ACRES RV PK	1800		28TH CT-2 METER	02	05
027174-002	Active		MENTEN	240	S	BROADWAY	02	05
028591-012	Active		BAY AREA PROPERTIES	955		KENTUCKY AVE	02	05
029244-007	Active		RYZEBOL	525		NEWMARK AVE	02	05
030297-00(	Active		WARDROBE CLEANERS	225	N	2ND ST	02	05
030903-00(	Active		BLACK MARKET GOURI	495		CENTRAL AVE	02	05
031109-00(	Active		KALISTA	1155-1165		NEWMARK AVE	02	05
031197-00(	Active		DUTCH BROTHERS	843	S	1ST ST	02	05
032575-013	Active		SWOCC	270		STUDENT WY/TRINIDAI	02	05
033055-00(	Active		GOONEY'S SPORTS BAR	3290	SE	OCEAN BLVD	02	05
033303-00(	Active		KOZY KITCHEN	581	N	BAYSHORE DR	02	05
036349-00(	Active		WALT'S POURHOUSE	1881	N	6TH ST	02	05
037092-001	Active		VIRK HOSPITALITY CO(	1001	N	BAYSHORE DR	02	05
037998-00(	Active		SOL COAST CONSULTIN	299	S	BAYSHORE	02	05
038036-00(	Active		SHAKE-N-BURGER	673		D ST	02	05
038104-00(	Active		BISHOP	852	S	BROADWAY	02	05
038325-00(	Active		GREEN LIGHTNING LAU	693		CENTRAL AVE	02	05
038378-00(	Active		BAY BURGER INN	1175		NEWMARK AVE	02	05
038741-00(	Active		OREGON SEAFOODS	723	S	2ND ST	02	05
039529-00(	Active		RODRIGUEZ	825		CENTRAL AVE	02	05
039718-00(	Active		BBSI	137		HALL AVE	02	05
040977-001	Active		1031 INC	190		CENTRAL AVE	02	05
041014-00(	Active		NISARAT & SURAKIT LI	274	S	BROADWAY	02	05
041545-00(	Active		O'BRADI	702		NEWMARK AVE	02	05
041868-00(	Active		LITTLE ITALY	160	S	2ND ST	02	05
041977-00(	Active		RAINDANCE LAUNDRY	350		LACLAIR ST	02	05
042350-00(	Active		BKGBMO	2021		NEWMARK AVE	02	05
042351-00(	Active		BKGBMO	881	S	1ST ST	02	05
042439-00(	Active		LIGHTHOUSE MARKET	705	S	EMPIRE BLVD	02	05
043467-00(	Active		GONZALES	252	S	BROADWAY	02	05
029992-00(	Active		TAYLOR	170	S	EMPIRE BLVD	02	05
043681-00(	Active		WENOREGON LLC	905	S	BROADWAY	02	05
042888-00(	Active		EMPIRE CLEANERS LLC	982		NEWMARK AVE	02	05
042934-00(	Active		GLASS LIFESTYLE OUTI	753		NEWMARK AVE	02	05
030996-002	Active		ESCOBAR	1060		NEWMARK AVE	02	05
042987-00(	Active		BLUE MOON SALOON &	871	S	BROADWAY	02	05
043806-00(	Active		COAST KARATE	305	S	4TH ST	02	05
034059-001	Active		THE EGYPTIAN PRESER	225	S	BROADWAY	02	05
044025-001	Active		CASH PROPERTIES LLC	712	S	4TH ST	02	05
044439-00(	Active		TRU FURNITURE	134	S	BROADWAY	02	05
004455-001	Active		RL COOS BAY LLC	658		HEMLOCK AVE	02	05
044555-00(	Active		MA'S GARDEN RESTAUI	1088		NEWMARK AVE	02	05
025159-004	Active		B P O E #1160	295		CENTRAL AVE	02	05
044740-00(	Active		SOUTH COAST FAMILY	250		HULL ST	02	05

UB Acco	Acct Sta	Add	Last Name (Custome	Street Numbe	Street Directiona	Street Name (Lot)	Service N	Service C
044987-00(	Active		THE TIN THISTLE CAFE	273		CURTIS AVE	02	05
045122-00(	Active		THREE RIVERS CASINO	1297A	NW	OCEAN BLVD	02	05
045222-00(	Active		SPOONY BAY LLC	772	S	BROADWAY	02	05