P 206.706.8893
PO Box 30008
Seattle, WA 98113-2008
Katy@kisaksenassociates.com

Katy Isaksen & Associates
Utility Financial Planning for Local Government

City of Sedro-Woolley
Sewer Volume-Based Rate Study
Residential Consumption Analysis
June 30, 2015 - Draft

This report summarizes the water consumption analysis of the information provided by Skagit PUD. The 2012-2014 water usage reports were provided for the PUD meters in the Sedro-Woolley (S-W) service area.

KI&A performed initial analysis to compare residential average usage for the three years and determine the best "test-period" to work with. The PUD reads residential meters bimonthly and the annual average over 2012-2014 was 1100 cubic feet per bimonthly period, or 550 cf per month. The test period of November 2013-October 2014 was selected to have winter water and a full year. The file was shortened and sent to S-W to review the data. Note that the PUD commercial meters are either monthly or bimonthly.

Sedro-Woolley staff reviewed the accounts to identify the sewer accounts within the City and the Northern State complex (only sewer customers currently outside of city limits).

- Addresses are different in the 2 billing systems
- Reviewed account designations and made notes to have customer classes (residential, multi, commercial) match S-W billing

Average Residential Usage - KI&A continued the consumption analysis. The residential accounts were reviewed to determine the average consumption for the annual test year (Nov13-Oct14) and for the winter test period (Nov13-Apr14). The annual average computed to 11.4 ccf and the winter average to 10.8 ccf for a bi-monthly period and each would be rounded to 11 ccf and divided by 2 for monthly billing. The PUD readings are all in whole numbers (such as 11 ccf). S-W currently converts bi-monthly PUD readings for commercial customers by dividing the bi-monthly consumption by two with half billed each month.

RESIDENTIAL	Bi-monthly	
COUNT NOV13-OCT14	17,625	
SUM NOV13-OCT14	201,124	ccf
AVERAGE	11.4	ccf
COUNT NOV13-APR14	8,769	
SUM	94,497	ccf
AVERAGE	10.8	ccf

The "count" is the number of entries and includes 6 bi-monthly meter readings per customer for the year. The "sum" is the total consumption in one hundred cubic foot increments (i.e. 29ccf = 2900cf). The average was calculated by the Excel spreadsheet. Note that 1 cubic foot equals 7.48 gallons.

Winter Average – The winter average was compared to the annual average to determine whether residential usage patterns varied much in S-W. Some jurisdictions use winter consumption averages to bill for sewer during higher use summer months, others use the winter average as a cap. In the past, more customers used outdoor watering during the summer for washing cars, sprinklers for kids, pools, irrigation for lawn and garden, etc. In some communities, this could represent a noticeable difference between the annual and winter averages. We are finding that in current times, after years of conservation focus, there is less difference between winter and annual averages. When looking at the calculated averages above, the winter average is 95% of the annual average.

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Winter Averages for Sample Customers – 28 sample customers were identified to test alternative volume-based rate structures. The residential customers were selected by size of household (couple with 2 teens, single adult, etc.) and commercial customers were selected by type and size of business. During the analysis, we tested to see how the winter average compared to the annual average. The table below shows that for 13 customers, the annual average was better for the customer, for 8 customers, the winter average was better and for 7 customers, the averages were the same.

Is Winter Usage Higher Than Average?			
Yes	13	46%	12-mo avg better for customer
No	8	29%	W avg better for customer
Same	7	25%	Both averages are the same
Sample Customer #	28	100%	

The conclusion is that for 71% of sample customers, the annual average would be the same or better for customers, and for 54% of sample customers, the winter average would be the same or better. Thus the annual average would be favorable to more customers.

Residential Customer Usage – The PUD water usage data was analyzed further to demonstrate how many customers are at each level of usage over the test period Nov13-Oct14. The PUD data is in bi-monthly billings, so S-W monthly billing would be half. For example, 27% of the residential customers used up to 600cf bimonthly (300cf per month). Another 32%, or 60% cumulatively used up to 1100cf bimonthly (550cf per month), which is the overall average. 78% cumulatively used up to 1500cf bimonthly (750cf per month); 90% used up to 2000cf bimonthly (1000cf per month); 99% cumulatively used up to 4000cf bimonthly (2000cf per month) and the last 1% of customers used more than 4000cf bimonthly.

Summary - Bimonthly Residential Nov13-Oct14						
Usage Tier	**Count**	% Count	Cum Count	**Cu. Ft.**	% Cu.Ft.	Cum Cu.Ft.
0-600 cf	4,802	27%	27%	1,730,300	9%	9%
601-1100 cf	5,712	32%	60%	5,116,300	26%	34%
1101-1500 cf	3,282	19%	78%	4,370,400	22%	56%
1501-2000 cf	2,065	12%	90%	3,647,200	18%	74%
2001-4000 cf	1,604	9%	99%	4,210,300	21%	95%
4000+ cf	160	1%	100%	934,600	5%	100%
Totals	17,625	100%		20,009,100	100%	

The right side of the table shows how the consumption in cubic feet looks for the same usage tiers. For the purposes of this review, the customer counts at each usage tier are a better indicator for considering sewer volume-based rates. This is also useful in considering whether to include any volume in a base rate alternative.

The same information is provided in pie charts below to quickly visualize the customers by usage tier.

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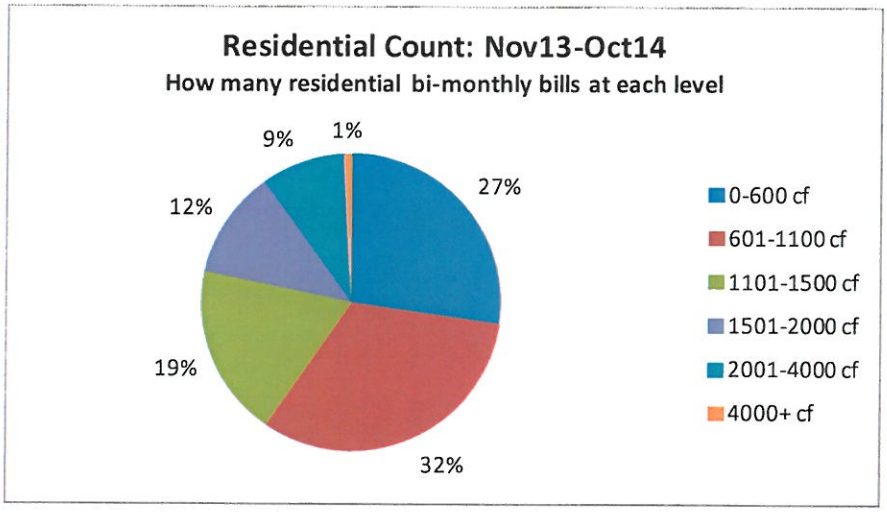
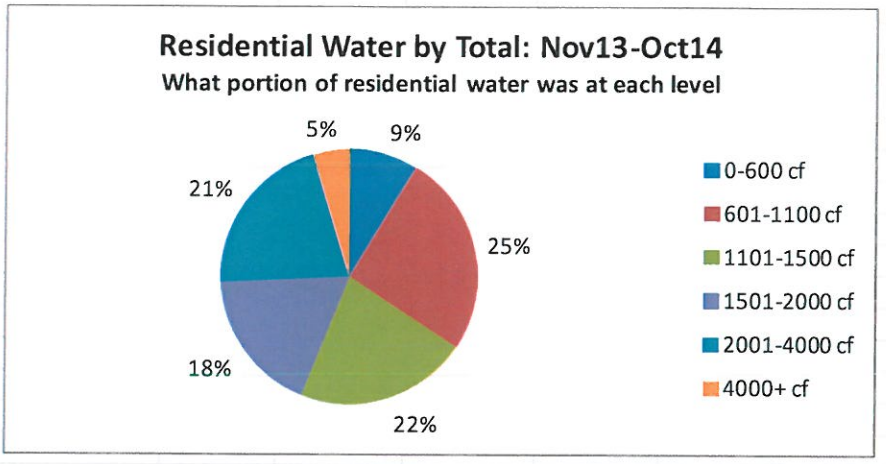
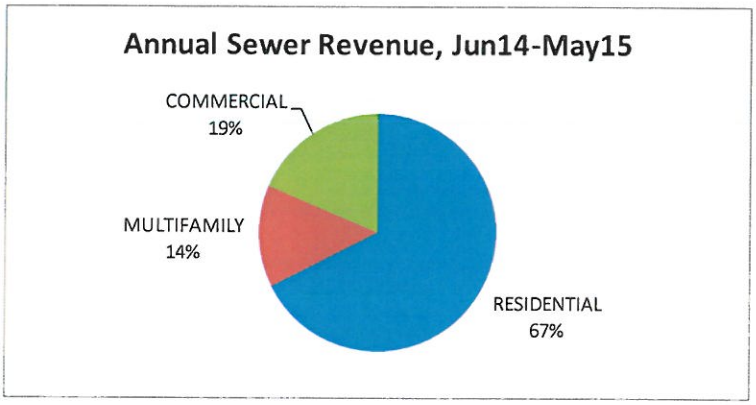




Revenue by Customer Class - The residential customer class including multifamily represents 81% of the utility revenue. The current rate structure is considered fixed with a flat rate per dwelling unit for residential customers. The commercial class provides the remaining 19% of utility revenue. The commercial rates have a base rate for the first 750cf + a volume rate for additional usage. This rate structure results in both fixed and variable revenue.



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Fixed versus Variable Revenue - The current residential rate structure is considered fixed with a flat rate per dwelling unit for residential customers including multifamily. The commercial structure is a mixture of base rate for the first 750cf plus a volume rate for additional usage. This rate structure results in both fixed and variable revenue. Overall, the current rate structure provides 96% fixed revenue and 4% variable revenue based on the usage of commercial customers.

A sustainable utility will strive to balance the predictability of customer bills with the predictability of utility revenue. The consumption analysis is focused on the equity and impact on customers. A change in the rate structure from fixed to volume-based will impact the variability of the utility revenue.

Fixed versus Variable Costs - Utility costs are both fixed and variable. A greater share of costs are fixed, including debt payments, salaries & benefits, operator training & certification, operating permits, insurance, meter reading, customer service, billing and collections, and city overhead contributions/allocation of shared costs. Variable costs include chemicals, electricity, water, fuel, state taxes, etc.

Alternative Rate Structures & Fixed vs. Variable Revenue – The alternatives presented to the Council were developed to show the range of possibilities. They were calculated to demonstrate both the impact on customers and the offsetting impact on utility revenue. While each alternative is theoretical, they all produce the same estimated revenue of $3,225,000 (2015 budget). It's how you slice the pie, or pizza.

- Current Rates (Base $56.55, only commercial pays volume) – 96% fixed + 4% variable
- Volume Rates Only (Base $0.00) – 100% variable
- Base includes 300cf + Volume for All Customer Classes (Base $35.00) – 54% fixed + 46% variable

Volume Rates & Strength – The current commercial volume rates are based on the volume of flow being sent to the treatment plant. The actual cost of treatment varies by the amount and strength of the flow. Two alternatives are provided, one with flow and one with strength and flow. The type of customers with the highest strength would be restaurants and others with food preparation on site. Medium strength would be bars and grocery without food prep. Low strength would be residential, offices, banks, etc. By charging more to the high strength customers, the volume rates could be less for the lower strength customers.

Rate Structure Alternatives – Four alternatives are provided for discussion and comparison. Alternative 1 is the existing structure with flat residential and base + volume (750cf) for commercial. Alternative 1a is similar but adjusts the commercial volume allowance to reflect the current residential average of 550cf. Alternative 3a is Base (includes 300cf) + Volume for all customers. Alternative 4 adds a strength component with Base (includes 300cf) + Volume by Strength (Low, Med, High).

	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
RES:	Flat		Flat		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
COMM:	Base + Vol incl 7.5ccf		Base + Vol incl 5.5ccf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
Base Res	$56.55		$56.55		$35.00		$35.00	
Base Comm	$56.55		$56.55		$35.00		$35.00	
Vol Res	$0.00		$0.00		$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$9.71	3.0		
Strength Low (Residential, Offices, Banks)							$5.50	3.0
Strength Med (Tavern, Grocery w/out food prep))							$7.43	3.0
Strength High (Restaurant, Grocery w/food prep))							$9.90	3.0

Sample Customers – A variety of sample customers have been identified to assist in demonstrating and comparing the impact of the rate alternatives.

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Sample Customer Summary

Rate Structure Alternatives

DISCUSSION DRAFT Revised 6/29/15

	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
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Strength Med (Tavern, Grocery w/out food prep))							$7.43	3.0
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Customer Type	Comments	Average Month ccf	Sewer for Avg. Mo.	Sewer for Avg. Mo.	Diff to Exist		Sewer for Avg. Mo.	Diff to Exist		Sewer for Avg. Mo.	Diff to Exist	
RESIDENTIAL												
Family, 2 teens + I pt time teen	Range 11 - 16	14	$56.55	$56.55	$0	0%	$141.81	$85	151%	$95.50	$39	69%
Family, 2 teens	Range 9 - 17	12	$56.55	$56.55	$0	0%	$122.39	$66	116%	$84.50	$28	49%
Family, 2 young teens	Range 9 - 20	13	$56.55	$56.55	$0	0%	$132.10	$76	134%	$90.00	$33	59%
Family, 2 children	Range 7 - 10	8	$56.55	$56.55	$0	0%	$83.55	$27	48%	$62.50	$6	11%
Family, 2 older teens	Range 14 - 22	10	$56.55	$56.55	$0	0%	$102.97	$46	82%	$73.50	$17	30%
Family, 1 older teen	Range 3 - 5	4	$56.55	$56.55	$0	0%	$44.71	-$12	-21%	$40.50	-$16	-28%
One Adult	Range 3 - 4	3	$56.55	$56.55	$0	0%	$35.00	-$22	-38%	$35.00	-$22	-38%
One Adult	Range 3 - 5	4	$56.55	$56.55	$0	0%	$44.71	-$12	-21%	$40.50	-$16	-28%
Two Adults	Range 1 - 7	2	$56.55	$56.55	$0	0%	$35.00	-$22	-38%	$35.00	-$22	-38%
Two Adults	Range 5 - 7	6	$56.55	$56.55	$0	0%	$64.13	$8	13%	$51.50	-$5	-9%
Two Adults	Range 2 - 3	3	$56.55	$56.55	$0	0%	$35.00	-$22	-38%	$35.00	-$22	-38%
Three Adults	Range 6 - 11	8	$56.55	$56.55	$0	0%	$83.55	$27	48%	$62.50	$6	11%
Low Use Residence	Range 0 - 2	2	$56.55	$56.55	$0	0%	$35.00	-$22	-38%	$35.00	-$22	-38%
Low Use Residence	Range 1 - 1	1	$56.55	$56.55	$0	0%	$35.00	-$22	-38%	$35.00	-$22	-38%
Low Use Residence	Range 1 - 2	2	$56.55	$56.55	$0	0%	$35.00	-$22	-38%	$35.00	-$22	-38%
Apartment - 48 units (3 bldgs)	Total 3 Bldgs	141	$2,714.40	$2,714.40	$0	0%	$1,728.55	-$986	-36%	$1,707.50	-$1,007	-37%
Bldg A (assume 16 units)	Bldg A (16 units)	53	$904.80	$904.80	$0	0%	$608.55	-$296	-33%	$587.50	-$317	-35%
Bldg B (assume 16 units)	Bldg B (16 units)	41	$904.80	$904.80	$0	0%	$560.00	-$345	-38%	$560.00	-$345	-38%
Bldg C (assume 16 units)	Bldg C (16 units)	47	$904.80	$904.80	$0	0%	$560.00	-$345	-38%	$560.00	-$345	-38%
COMMERCIAL												
Adult Home Care	Low Strength	19	$114.96	$125.58	$11	9%	$190.36	$75	66%	$123.00	$8	7%
Adult Home Care	Low Strength	21	$130.89	$141.51	$11	8%	$209.78	$79	60%	$134.00	$3	2%
Low Use Office	Low Strength	4	$56.55	$56.55	$0	0%	$44.71	-$12	-21%	$40.50	-$16	-28%
Church	Low Strength	4	$56.55	$56.55	$0	0%	$44.71	-$12	-21%	$40.50	-$16	-28%
Convenience Store	Med Strength	10	$67.17	$77.79	$11	16%	$102.97	$36	53%	$87.01	$20	30%
Convenience Store	Med Strength	8	$61.86	$72.48	$11	17%	$83.55	$22	35%	$72.15	$10	17%
Bar	Med Strength	18	$109.65	$120.27	$11	10%	$180.65	$71	65%	$183.50	$74	67%
Bar	Med Strength	16	$104.34	$114.96	$11	10%	$161.23	$57	55%	$163.70	$59	57%
Restaurant	High Strength	35	$205.23	$215.85	$11	5%	$345.72	$140	68%	$351.80	$147	71%
Drive-In	High Strength	43	$247.71	$258.33	$11	4%	$423.40	$176	71%	$431.00	$183	74%

Low Income Discount – The City currently provides a low-income citizen discounted flat rate of $39.75 per month to residential owners that meet the County Assessor's qualifications for real estate tax exemption. The rate represents a 30% discount and there are currently 164 units receiving the discount. The rate study assumes that a 30% discount will continue and the low income rate will be 70% of the single family rate.

Policy Options – The ultimate rate structure will be developed to reflect utility and city goals and Council policy direction. Examples are provided for consideration and to assist in discussion:

1. Change to volume rates for all customers?
2. Should any volume be included in the base rates? If so, what amount?
3. Should there be a strength component to the volume rates?
4. If no change to residential, should commercial volume allowance be adjusted to 550cf from 750cf?
5. What percent of fixed revenue is acceptable?

DISCUSSION DRAFT Revised 6/29/15

City of Sedro-Woolley
Volume-Based Sewer Rate Study
Sample Customers - Source = PUD data, with SW billing categories pro

Sample Cust

	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3 - Base+Vol		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
RES:	Flat		Flat		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
COMM:	Base + Vol incl 7.5ccf		Base + Vol incl 5.5ccf		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
Base Res	$56.55		$56.55		$46.00		$35.00		$35.00	
Base Comm	$56.55		$56.55		$46.00		$35.00		$35.00	
Vol Res	$0.00		$0.00		$5.31	3.0	$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$5.31	3.0	$9.71	3.0		
Strength Low									$5.50	3.0
Strength Med (Tavern, Grocery w/out food prep))									$7.43	3.0
Strength High (Restaurant, Grocery w/food prep))									$9.90	3.0

	SW Rate Class	# Multiple		Usage 100cf	Date		Monthly	Monthly	Monthly	Monthly		Monthly
090023	Commercial	ACA		34	11/1/2013		$199.92	$210.54	$210.61	$336.01	High	$341.90
090023	Commercial	ACA		42	12/4/2013		$242.40	$253.02	$253.09	$413.69	High	$421.10
090023	Commercial	ACA		28	1/2/2014		$168.06	$178.68	$178.75	$277.75	High	$282.50
090023	Commercial	ACA		33	2/3/2014		$194.61	$205.23	$205.30	$326.30	High	$332.00
090023	Commercial	ACA		29	3/3/2014		$173.37	$183.99	$184.06	$287.46	High	$292.40
090023	Commercial	ACA		34	4/2/2014		$199.92	$210.54	$210.61	$336.01	High	$341.90
090023	Commercial	ACA		29	5/2/2014		$173.37	$183.99	$184.06	$287.46	High	$292.40
090023	Commercial	ACA		33	6/2/2014		$194.61	$205.23	$205.30	$326.30	High	$332.00
090023	Commercial	ACA		38	7/2/2014		$221.16	$231.78	$231.85	$374.85	High	$381.50
090023	Commercial	ACA		42	8/4/2014		$242.40	$253.02	$253.09	$413.69	High	$421.10
090023	Commercial	ACA		35	9/2/2014		$205.23	$215.85	$215.92	$345.72	High	$351.80
090023	Commercial	ACA		40	10/2/2014		$231.78	$242.40	$242.47	$394.27	High	$401.30
090023	Commercial	ACA		40	11/4/2014							
090023	Commercial	ACA		38	12/4/2014							
Restaurant			hi/low				$2,446.83	$2,574.27	$2,575.11	$4,119.51		$4,191.90
Range	Low-High	28	1.50			Diff $		$ 127	$ 128	$ 1,673		$ 1,745
Average	12-mo	35	avg/Wavg			Diff %		5.2%	5.2%	68.4%		71.3%
W Average	Nov13-Mar14	33	1.06	35		Average Mo.	$205.23	$215.85	$215.92	$345.72	High	$351.80
Average	Nov14-Dec14	39	Nov14/13	per mo		Diff $		$ 11	$ 11	$ 140		$ 147
Average	Nov13-Dec13	38	0.97			Diff %		5.2%	5.2%	68.5%		71.4%
122149	Commercial	ACB		91	11/15/2013		$258.33	$268.95	$274.33	$452.53	High	$460.70
122149	Commercial	ACB		120	1/16/2014		$337.98	$348.60	$348.67	$588.47	High	$599.30
122149	Commercial	ACB		62	3/13/2014		$183.99	$194.61	$194.68	$306.88	High	$312.20
122149	Commercial	ACB		71	5/16/2014		$205.23	$215.85	$221.23	$355.43	High	$361.70
122149	Commercial	ACB		75	7/14/2014		$215.85	$226.47	$231.85	$374.85	High	$381.50
122149	Commercial	ACB		92	9/15/2014		$263.64	$274.26	$274.33	$452.53	High	$460.70
122149	Commercial	ACB		67	11/14/2014							
Drive-In Restaurant			hi/low	86	43	Average Mo.	$247.71	$258.33	$258.40	$423.40	High	$431.00
Range	Low-High	62	1.94	per 2 mos	per mo			$ 11	$ 11	$ 176		$ 183
Average	12-mo	83	avg/Wavg					4.3%	4.3%	70.9%		74.0%
W Average	Nov13-Mar-14	91	0.91									
Average	Nov13	91	Nov14/13									
Average	Nov14	67	0.74									
100004	Commercial	ACB		41	11/6/2013		$125.58	$136.20	$141.58	$209.78	Med.	$168.74
100004	Commercial	ACB		32	1/7/2014		$104.34	$114.96	$115.03	$161.23	Med.	$131.59
100004	Commercial	ACB		38	3/6/2014		$120.27	$130.89	$130.96	$190.36	Med.	$153.88
100004	Commercial	ACB		42	5/6/2014		$130.89	$141.51	$141.58	$209.78	Med.	$168.74

DISCUSSION DRAFT Revised 6/29/15

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Sample Cust

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Base Comm	$56.55		$56.55		$46.00		$35.00		$35.00	
Vol Res	$0.00		$0.00		$5.31	3.0	$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$5.31	3.0	$9.71	3.0		
Strength Low									$5.50	3.0
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	SW Rate Class	# Multiple	Usage 100cf	Date		Monthly	Monthly	Monthly	Monthly		Monthly
100004	Commercial	ACB	30	7/8/2014		$99.03	$109.65	$109.72	$151.52	Med.	$124.16
100004	Commercial	ACB	25	9/5/2014		$83.10	$93.72	$99.10	$132.10	Med.	$109.30
100004	Commercial	ACB	26	11/6/2014							
Bar		*hi/low*	35	18	Average Mo.	$109.65	$120.27	$125.65	$180.65	Med.	$183.50
Range	Low-High 25	*1.68*	per 2 mos	per mo			$ 11	$ 16	$ 71		$ 74
Average	12-mo 33	*avg/Wavg*					9.7%	14.6%	64.8%		67.4%
W Average	Nov13-Mar-14 37	*0.89*									
Average	Nov13 41	*Nov14/13*									
Average	Nov14 26	*0.63*									

										Med.	Med.
120021	Commercial	ACB	31	11/15/2013		$99.03	$109.65	$115.03	$161.23	Med.	$131.59
120021	Commercial	ACB	34	1/16/2014		$109.65	$120.27	$120.34	$170.94	Med.	$139.02
120021	Commercial	ACB	30	3/13/2014		$99.03	$109.65	$109.72	$151.52	Med.	$124.16
120021	Commercial	ACB	34	5/16/2014		$109.65	$120.27	$120.34	$170.94	Med.	$139.02
120021	Commercial	ACB	30	7/14/2014		$99.03	$109.65	$109.72	$151.52	Med.	$124.16
120021	Commercial	ACB	29	9/15/2014		$93.72	$104.34	$109.72	$151.52	Med.	$124.16
120021	Commercial	ACB	25	11/14/2014							
Bar		*hi/low*	32	16	Average Mo.	$104.34	$114.96	$115.03	$161.23	Med.	$163.70
Range	Low-High 25	*1.36*	per 2 mos	per mo			$ 11	$ 11	$ 57		$ 59
Average	12-mo 30	*avg/Wavg*					10.2%	10.2%	54.5%		56.9%
W Average	Nov13-Mar-14 32	*0.94*									
Average	Nov13 31	*Nov14/13*									
Average	Nov14 25	*0.81*									

											Low
120256	Commercial	ACB	7	11/15/2013		$56.55	$56.55	$51.31	$44.71	Low	$40.50
120256	Commercial	ACB	11	1/16/2014		$56.55	$56.55	$61.93	$64.13	Low	$51.50
120256	Commercial	ACB	5	3/13/2014		$56.55	$56.55	$46.00	$35.00	Low	$35.00
120256	Commercial	ACB	7	5/16/2014		$56.55	$56.55	$51.31	$44.71	Low	$40.50
120256	Commercial	ACB	9	7/14/2014		$56.55	$56.55	$56.62	$54.42	Low	$46.00
120256	Commercial	ACB	7	9/15/2014		$56.55	$56.55	$51.31	$44.71	Low	$40.50
120256	Commercial	ACB	7	11/14/2014							
Church		*hi/low*	8	4	Average Mo.	$56.55	$56.55	$51.31	$44.71	Low	$40.50
Range	Low-High 5	*2.20*	per 2 mos	per mo			$ -	$ (5)	$ (12)		$ (16)
Average	12-mo 8	*avg/Wavg*					0.0%	-9.3%	-20.9%		-28.4%
W Average	Nov13-Mar-14 8	*1.00*									
Average	Nov13 7	*Nov14/13*									
Average	Nov14 7	*1.00*									

			21								
100157012		AAB	21	11/6/2013		$56.55	$56.55	$88.48	$112.68		$79.00

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City of Sedro-Woolley
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Sample Cust

	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3 - Base+Vol		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
RES:	Flat		Flat		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
COMM:	Base + Vol incl 7.5ccf		Base + Vol incl 5.5ccf		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
Base Res	$56.55		$56.55		$46.00		$35.00		$35.00	
Base Comm	$56.55		$56.55		$46.00		$35.00		$35.00	
Vol Res	$0.00		$0.00		$5.31	3.0	$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$5.31	3.0	$9.71	3.0		
Strength Low									$5.50	3.0
Strength Med (Tavern, Grocery w/out food prep))									$7.43	3.0
Strength High (Restaurant, Grocery w/food prep))									$9.90	3.0

	SW Rate Class	# Multiple	Usage 100cf	Date		Monthly	Monthly	Monthly	Monthly	Monthly
100157012	AAB		32	1/7/2014		$56.55	$56.55	$115.03	$161.23	$106.50
100157012	AAB		31	3/6/2014		$56.55	$56.55	$115.03	$161.23	$106.50
100157012	AAB		24	5/6/2014		$56.55	$56.55	$93.79	$122.39	$84.50
100157012	AAB		25	7/8/2014		$56.55	$56.55	$99.10	$132.10	$90.00
100157012	AAB		26	11/6/2014		$56.55	$56.55	$99.10	$132.10	$90.00
Family, 2 teens + 1 pt time teen	*hi/low*		27	14	Average Mo.	$56.55	$56.55	$104.41	$141.81	$95.50
Range Low-High	21	*1.52*	per 2 mos	per mo			$ -	$ 48	$ 85	$ 39
Average 12-mo	26	*avg/Wavg*					0.0%	84.6%	150.8%	68.9%
W Average Nov13-Mar-14	28	*0.93*								
Average Nov13	21	*Nov14/13*								
Average Nov14	26	*1.24*								

122044510	AAB		17	11/15/2013		$56.55	$56.55	$77.86	$93.26	$68.00
122044510	AAB		20	1/16/2014		$56.55	$56.55	$83.17	$102.97	$73.50
122044510	AAB		18	3/13/2014		$56.55	$56.55	$77.86	$93.26	$68.00
122044510	AAB		22	5/16/2014		$56.55	$56.55	$88.48	$112.68	$79.00
122044510	AAB		26	7/14/2014		$56.55	$56.55	$99.10	$132.10	$90.00
122044510	AAB		34	9/15/2014		$56.55	$56.55	$120.34	$170.94	$112.00
122044510	AAB		18	11/14/2014						
Family, 2 teens	*hi/low*		23	12	Average Mo.	$56.55	$56.55	$93.79	$122.39	$84.50
Range Low-High	17	*2.00*	per 2 mos	per mo			$ -	$ 37	$ 66	$ 28
Average 12-mo	22	*avg/Wavg*					0.0%	65.9%	116.4%	49.4%
W Average Nov13-Mar-14	18	*1.22*								
Average Nov13	17	*Nov14/13*								
Average Nov14	18	*1.06*								

122216010	AAB		24	11/15/2013		$56.55	$56.55	$93.79	$122.39	$84.50
122216010	AAB		25	1/16/2014		$56.55	$56.55	$99.10	$132.10	$90.00
122216010	AAB		25	3/13/2014		$56.55	$56.55	$99.10	$132.10	$90.00
122216010	AAB		39	5/16/2014		$56.55	$56.55	$136.27	$200.07	$128.50
122216010	AAB		19	7/14/2014		$56.55	$56.55	$83.17	$102.97	$73.50
122216010	AAB		20	9/15/2014		$56.55	$56.55	$83.17	$102.97	$73.50
122216010	AAB		18	11/14/2014						
Family, 2 young teens	*hi/low*		26	13	Average Mo.	$56.55	$56.55	$99.10	$132.10	$90.00
Range Low-High	18	*2.17*	per 2 mos	per mo			$ -	$ 43	$ 76	$ 33
Average 12-mo	24	*avg/Wavg*					0.0%	75.2%	133.6%	59.2%
W Average Nov13-Mar-14	25	*0.96*								
Average Nov13	24	*Nov14/13*								
Average Nov14	18	*0.75*								

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Sample Cust

	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3 - Base+Vol		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
RES:	Flat		Flat		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
COMM:	Base + Vol incl 7.5ccf		Base + Vol incl 5.5ccf		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
Base Res	$56.55		$56.55		$46.00		$35.00		$35.00	
Base Comm	$56.55		$56.55		$46.00		$35.00		$35.00	
Vol Res	$0.00		$0.00		$5.31	3.0	$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$5.31	3.0	$9.71	3.0		
Strength Low									$5.50	3.0
Strength Med (Tavern, Grocery w/out food prep))									$7.43	3.0
Strength High (Restaurant, Grocery w/food prep))									$9.90	3.0

	SW Rate Class	# Multiple	Usage 100cf	Date		Monthly	Monthly	Monthly	Monthly	Monthly
100113510	AAB		14	11/6/2013		$56.55	$56.55	$67.24	$73.84	$57.00
100113510	AAB		14	1/7/2014		$56.55	$56.55	$67.24	$73.84	$57.00
100113510	AAB		14	3/6/2014		$56.55	$56.55	$67.24	$73.84	$57.00
100113510	AAB		14	5/6/2014		$56.55	$56.55	$67.24	$73.84	$57.00
100113510	AAB		20	7/8/2014		$56.55	$56.55	$83.17	$102.97	$73.50
100113510	AAB		15	9/5/2014		$56.55	$56.55	$72.55	$83.55	$62.50
100113510	AAB		16	11/6/2014						
Family, 2 children		*hi/low*	16	8	Average Mo.	$56.55	$56.55	$72.55	$83.55	$62.50
Range Low-High	14	*1.43*	per 2 mos	per mo			$ -	$ 16	$ 27	$ 6
Average 12-mo	15	*avg/Wavg*					0.0%	28.3%	47.7%	10.5%
W Average Nov13-Mar-14	14	*1.07*								
Average Nov13	14	*Nov14/13*								
Average Nov14	16	*1.14*								
122070010	AAB		17	11/15/2013		$56.55	$56.55	$77.86	$93.26	$68.00
122070010	AAB		17	1/16/2014		$56.55	$56.55	$77.86	$93.26	$68.00
122070010	AAB		17	3/13/2014		$56.55	$56.55	$77.86	$93.26	$68.00
122070010	AAB		20	5/16/2014		$56.55	$56.55	$83.17	$102.97	$73.50
122070010	AAB		22	7/14/2014		$56.55	$56.55	$88.48	$112.68	$79.00
122070010	AAB		20	9/15/2014		$56.55	$56.55	$83.17	$102.97	$73.50
122070010	AAB		14	11/14/2014						
Family, 2 older teens		*hi/low*	19	10	Average Mo.	$56.55	$56.55	$83.17	$102.97	$73.50
Range Low-High	14	*1.57*	per 2 mos	per mo			$ -	$ 27	$ 46	$ 17
Average 12-mo	18	*avg/Wavg*					0.0%	47.1%	82.1%	30.0%
W Average Nov13-Mar-14	17	*1.06*								
Average Nov13	17	*Nov14/13*								
Average Nov14	14	*0.82*								
101141511	AAB		8	11/6/2013		$56.55	$56.55	$51.31	$44.71	$40.50
101141511	AAB		8	1/7/2014		$56.55	$56.55	$51.31	$44.71	$40.50
101141511	AAB		7	3/6/2014		$56.55	$56.55	$51.31	$44.71	$40.50
101141511	AAB		6	5/6/2014		$56.55	$56.55	$46.00	$35.00	$35.00
101141511	AAB		10	7/8/2014		$56.55	$56.55	$56.62	$54.42	$46.00
101141511	AAB		8	9/5/2014		$56.55	$56.55	$51.31	$44.71	$40.50
101141511	AAB		8	11/6/2014						
Family, 1 older teen		*hi/low*	8	4	Average Mo.	$56.55	$56.55	$51.31	$44.71	$40.50
Range Low-High	6	*1.67*	per 2 mos	per mo			$ -	$ (5)	$ (12)	$ (16)
Average 12-mo	8	*avg/Wavg*					0.0%	-9.3%	-20.9%	-28.4%

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Sample Cust

	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3 - Base+Vol		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
RES:	Flat		Flat		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
COMM:	Base + Vol incl 7.5ccf		Base + Vol incl 5.5ccf		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
Base Res	$56.55		$56.55		$46.00		$35.00		$35.00	
Base Comm	$56.55		$56.55		$46.00		$35.00		$35.00	
Vol Res	$0.00		$0.00		$5.31	3.0	$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$5.31	3.0	$9.71	3.0		
Strength Low									$5.50	3.0
Strength Med (Tavern, Grocery w/out food prep))									$7.43	3.0
Strength High (Restaurant, Grocery w/food prep))									$9.90	3.0

	SW Rate Class	# Multiple	Usage 100cf	Date		Monthly	Monthly	Monthly	Monthly	Monthly
W Average	Nov13-Mar-14	8	*1.00*							
Average	Nov13	8	*Nov14/13*							
Average	Nov14	8	*1.00*							
101236011		AAB	5	11/6/2013		$56.55	$56.55	$46.00	$35.00	$35.00
101236011		AAB	7	1/7/2014		$56.55	$56.55	$51.31	$44.71	$40.50
101236011		AAB	6	3/6/2014		$56.55	$56.55	$46.00	$35.00	$35.00
101236011		AAB	5	5/6/2014		$56.55	$56.55	$46.00	$35.00	$35.00
101236011		AAB	7	7/8/2014		$56.55	$56.55	$51.31	$44.71	$40.50
101236011		AAB	6	9/5/2014		$56.55	$56.55	$46.00	$35.00	$35.00
101236011		AAB	6	11/6/2014						
One Adult		*hi/low*	6	3	Average Mo.	$56.55	$56.55	$46.00	$35.00	$35.00
Range	Low-High	5 *1.40*	per 2 mos	per mo			$ -	$ (11)	$ (22)	$ (22)
Average	12-mo	6 *avg/Wavg*					*0.0%*	*-18.7%*	*-38.1%*	*-38.1%*
W Average	Nov13-Mar-14	6 *1.00*								
Average	Nov13	5 *Nov14/13*								
Average	Nov14	6 *1.20*								
120233712		AAB	7	11/15/2013		$56.55	$56.55	$51.31	$44.71	$40.50
120233712		AAB	9	1/16/2014		$56.55	$56.55	$56.62	$54.42	$46.00
120233712		AAB	8	3/13/2014		$56.55	$56.55	$51.31	$44.71	$40.50
120233712		AAB	6	5/16/2014		$56.55	$56.55	$46.00	$35.00	$35.00
120233712		AAB	7	7/14/2014		$56.55	$56.55	$51.31	$44.71	$40.50
120233712		AAB	8	9/15/2014		$56.55	$56.55	$51.31	$44.71	$40.50
120233712		AAB	7	11/14/2014						
One Adult		*hi/low*	8	4	Average Mo.	$56.55	$56.55	$51.31	$44.71	$40.50
Range	Low-High	6 *1.50*	per 2 mos	per mo			$ -	$ (5)	$ (12)	$ (16)
Average	12-mo	7 *avg/Wavg*					*0.0%*	*-9.3%*	*-20.9%*	*-28.4%*
W Average	Nov13-Mar-14	8 *0.88*								
Average	Nov13	7 *Nov14/13*								
Average	Nov14	7 *1.00*								
120761510		AAB	6	11/15/2013		$56.55	$56.55	$46.00	$35.00	$35.00
120761510		AAB	6	1/16/2014		$56.55	$56.55	$46.00	$35.00	$35.00
120761510		AAB	5	3/13/2014		$56.55	$56.55	$46.00	$35.00	$35.00
120761510		AAB	6	5/16/2014		$56.55	$56.55	$46.00	$35.00	$35.00
120761510		AAB	5	7/14/2014		$56.55	$56.55	$46.00	$35.00	$35.00
120761510		AAB	9	9/15/2014		$56.55	$56.55	$56.62	$54.42	$46.00
120761510		AAB	5	11/14/2014						

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	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3 - Base+Vol		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
RES:	Flat		Flat		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
COMM:	Base + Vol incl 7.5ccf		Base + Vol incl 5.5ccf		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
Base Res	$56.55		$56.55		$46.00		$35.00		$35.00	
Base Comm	$56.55		$56.55		$46.00		$35.00		$35.00	
Vol Res	$0.00		$0.00		$5.31	3.0	$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$5.31	3.0	$9.71	3.0		
Strength Low									$5.50	3.0
Strength Med (Tavern, Grocery w/out food prep))									$7.43	3.0
Strength High (Restaurant, Grocery w/food prep))									$9.90	3.0

	SW Rate Class	# Multiple	Usage 100cf	Date		Monthly	Monthly	Monthly	Monthly	Monthly
One Adult		*hi/low*	7	4	Average Mo.	$56.55	$56.55	$51.31	$44.71	$40.50
Range	Low-High 5	*1.80*	per 2 mos	per mo			$ -	$ (5)	$ (12)	$ (16)
Average	12-mo 6	*avg/Wavg*					*0.0%*	*-9.3%*	*-20.9%*	*-28.4%*
W Average	Nov13-Mar-14 6	*1.00*								
Average	Nov13 6	*Nov14/13*								
Average	Nov14 5	*0.83*								
122143910	AAB	1	11/15/2013			$56.55	$56.55	$46.00	$35.00	$35.00
122143910	AAB	1	1/16/2014			$56.55	$56.55	$46.00	$35.00	$35.00
122143910	AAB	2	3/13/2014			$56.55	$56.55	$46.00	$35.00	$35.00
122143910	AAB	2	5/16/2014			$56.55	$56.55	$46.00	$35.00	$35.00
122143910	AAB	14	7/14/2014			$56.55	$56.55	$67.24	$73.84	$57.00
122143910	AAB	3	9/15/2014			$56.55	$56.55	$46.00	$35.00	$35.00
122143910	AAB	14	11/14/2014							
Two Adults	LEAK	*hi/low*	4	2	Average Mo.	$56.55	$56.55	$46.00	$35.00	$35.00
Range	Low-High 1	*14.00*	per 2 mos	per mo			$ -	$ (11)	$ (22)	$ (22)
Average	12-mo 5	*avg/Wavg*					*0.0%*	*-18.7%*	*-38.1%*	*-38.1%*
W Average	Nov13-Mar-14 1	*5.00*								
Average	Nov13 1	*Nov14/13*								
Average	Nov14 14	*14.00*								
120480010	AAB	11	11/15/2013			$56.55	$56.55	$61.93	$64.13	$51.50
120480010	AAB	14	1/16/2014			$56.55	$56.55	$67.24	$73.84	$57.00
120480010	AAB	11	3/13/2014			$56.55	$56.55	$61.93	$64.13	$51.50
120480010	AAB	12	5/16/2014			$56.55	$56.55	$61.93	$64.13	$51.50
120480010	AAB	11	7/14/2014			$56.55	$56.55	$61.93	$64.13	$51.50
120480010	AAB	12	9/15/2014			$56.55	$56.55	$61.93	$64.13	$51.50
120480010	AAB	9	11/14/2014							
Two Adults		*hi/low*	12	6	Average Mo.	$56.55	$56.55	$61.93	$64.13	$51.50
Range	Low-High 9	*1.56*	per 2 mos	per mo			$ -	$ 5	$ 8	$ (5)
Average	12-mo 11	*avg/Wavg*					*0.0%*	*9.5%*	*13.4%*	*-8.9%*
W Average	Nov13-Mar-14 12	*0.92*								
Average	Nov13 11	*Nov14/13*								
Average	Nov14 9	*0.82*								

Extra Reading in Oct 14

100142522	AAB	6	11/6/2013		$56.55	$56.55	$46.00	$35.00	$35.00
100142522	AAB	6	1/7/2014		$56.55	$56.55	$46.00	$35.00	$35.00
100142522	AAB	5	3/6/2014		$56.55	$56.55	$46.00	$35.00	$35.00
100142522	AAB	6	5/6/2014		$56.55	$56.55	$46.00	$35.00	$35.00

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Sample Cust

	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3 - Base+Vol		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
RES:	Flat		Flat		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
COMM:	Base + Vol incl 7.5ccf		Base + Vol incl 5.5ccf		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
Base Res	$56.55		$56.55		$46.00		$35.00		$35.00	
Base Comm	$56.55		$56.55		$46.00		$35.00		$35.00	
Vol Res	$0.00		$0.00		$5.31	3.0	$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$5.31	3.0	$9.71	3.0		
Strength Low									$5.50	3.0
Strength Med (Tavern, Grocery w/out food prep))									$7.43	3.0
Strength High (Restaurant, Grocery w/food prep))									$9.90	3.0

	SW Rate Class	# Multiple	Usage 100cf	Date		Monthly	Monthly	Monthly	Monthly	Monthly
100142522	AAB		6	7/8/2014		$56.55	$56.55	$46.00	$35.00	$35.00
100142522	AAB		5	9/5/2014		$56.55	$56.55	$46.00	$35.00	$35.00
100142522	AAB		3	10/2/2014						
100142522	AAB		4	11/6/2014		$0.00 $339.30	$0.00 $339.30	$0.00 $276.00	$0.00 $210.00	$0.00 $210.00
Two Adults		*hi/low*	6	3	Average Mo.	$56.55	$56.55	$46.00	$35.00	$35.00
Range	Low-High	3 *2.00*	per 2 mos	per mo			$ -	$ (11)	$ (22)	$ (22)
Average	12-mo	5 *avg/Wavg*					0.0%	-18.7%	-38.1%	-38.1%
W Average	Nov13-Mar-14	6 *0.83*								
Average	Nov13	6 *Nov14/13*								
Average	Nov14	4 *0.67*								

100113018	AAB		16	11/6/2013		$56.55	$56.55	$72.55	$83.55	$62.50
100113018	AAB		13	1/7/2014		$56.55	$56.55	$67.24	$73.84	$57.00
100113018	AAB		11	3/6/2014		$56.55	$56.55	$61.93	$64.13	$51.50
100113018	AAB		19	5/6/2014		$56.55	$56.55	$83.17	$102.97	$73.50
100113018	AAB		22	7/8/2014		$56.55	$56.55	$88.48	$112.68	$79.00
100113018	AAB		15	9/5/2014		$56.55	$56.55	$72.55	$83.55	$62.50
100113018	AAB		16	11/6/2014						
Three Adults		*hi/low*	16	8	Average Mo.	$56.55	$56.55	$72.55	$83.55	$62.50
Range	Low-High	11 *2.00*	per 2 mos	per mo			$ -	$ 16	$ 27	$ 6
Average	12-mo	16 *avg/Wavg*					0.0%	28.3%	47.7%	10.5%
W Average	Nov13-Mar-14	13 *1.23*								
Average	Nov13	16 *Nov14/13*								
Average	Nov14	16 *1.00*								

									Low	Low
100074 Commercial	ACB		32	11/6/2013		$104.34	$114.96	$115.03	$161.23	Low $106.50
100074 Commercial	ACB		21	1/7/2014		$72.48	$83.10	$88.48	$112.68	Low $79.00
100074 Commercial	ACB		30	3/6/2014		$99.03	$109.65	$109.72	$151.52	Low $101.00
100074 Commercial	ACB		36	5/6/2014		$114.96	$125.58	$125.65	$180.65	Low $117.50
100074 Commercial	ACB		54	7/8/2014		$162.75	$173.37	$173.44	$268.04	Low $167.00
100074 Commercial	ACB		45	9/5/2014		$136.20	$146.82	$152.20	$229.20	Low $145.00
100074 Commercial	ACB		38	11/6/2014						
Adult Home Care (Commercial)		*hi/low*	37	19	Average Mo.	$114.96	$125.58	$130.96	$190.36	Low $123.00
Range	Low-High	21 *2.57*	per 2 mos	per mo			$ 11	$ 16	$ 75	$ 8
Average	12-mo	37 *avg/Wavg*					9.2%	13.9%	65.6%	7.0%
W Average	Nov13-Mar-14	28 *1.32*								
Average	Nov13	32 *Nov14/13*								
Average	Nov14	38 *1.19*								

Low Low

Sample Cust

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	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3 - Base+Vol		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
RES:	Flat		Flat		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
COMM:	Base + Vol incl 7.5ccf		Base + Vol incl 5.5ccf		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
Base Res	$56.55		$56.55		$46.00		$35.00		$35.00	
Base Comm	$56.55		$56.55		$46.00		$35.00		$35.00	
Vol Res	$0.00		$0.00		$5.31	3.0	$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$5.31	3.0	$9.71	3.0		
Strength Low									$5.50	3.0
Strength Med (Tavern, Grocery w/out food prep))									$7.43	3.0
Strength High (Restaurant, Grocery w/food prep))									$9.90	3.0

	SW Rate Class	# Multiple		Usage 100cf	Date		Monthly	Monthly	Monthly	Monthly		Monthly
100024	Commercial		ACB	36	11/6/2013		$114.96	$125.58	$125.65	$180.65	Low	$117.50
100024	Commercial		ACB	44	1/7/2014		$136.20	$146.82	$146.89	$219.49	Low	$139.50
100024	Commercial		ACB	43	3/6/2014		$130.89	$141.51	$146.89	$219.49	Low	$139.50
100024	Commercial		ACB	43	5/6/2014		$130.89	$141.51	$146.89	$219.49	Low	$139.50
100024	Commercial		ACB	44	7/8/2014		$136.20	$146.82	$146.89	$219.49	Low	$139.50
100024	Commercial		ACB	41	9/5/2014		$125.58	$136.20	$141.58	$209.78	Low	$134.00
100024	Commercial		ACB	40	11/6/2014							
Adult Home Care (Commercial)			*hi/low*	**42**	21	Average Mo.	$130.89	$141.51	$141.58	$209.78	Low	$134.00
Range	Low-High	36	*1.22*	**per 2 mos**	per mo			$ 11	$ 11	$ 79		$ 3
Average	12-mo	42	*avg/Wavg*					8.1%	8.2%	60.3%		2.4%
W Average	Nov13-Mar-14	41	*1.02*									
Average	Nov13	36	*Nov14/13*									
Average	Nov14	40	*1.11*									

											Low	
120003	Commercial	2	ACB	4	11/15/2013		$56.55	$56.55	$46.00	$35.00	Low	$35.00
120003	Commercial	2	ACB	2	1/16/2014		$56.55	$56.55	$46.00	$35.00	Low	$35.00
120003	Commercial	2	ACB	9	3/13/2014		$56.55	$56.55	$56.62	$54.42	Low	$46.00
120003	Commercial	2	ACB	16	5/16/2014		$61.86	$72.48	$72.55	$83.55	Low	$62.50
120003	Commercial	2	ACB	9	7/14/2014		$56.55	$56.55	$56.62	$54.42	Low	$46.00
120003	Commercial	2	ACB	5	9/15/2014		$56.55	$56.55	$46.00	$35.00	Low	$35.00
120003	Commercial	2	ACB	1	11/14/2014							
Low Use Office (2 units)			*hi/low*	**8**	4	Average Mo.	$56.55	$56.55	$51.31	$44.71	Low	$40.50
Range	Low-High	1	*16.00*	**per 2 mos**	per mo			$ -	$ (5)	$ (12)		$ (16)
Average	12-mo	7	*avg/Wavg*					0.0%	-9.3%	-20.9%		-28.4%
W Average	Nov13-Mar-14	5	*1.40*									
Average	Nov13	4	*Nov14/13*									
Average	Nov14	1	*0.25*									

											Med.	Med.
100015	Commercial		ABB	21	11/6/2013		$72.48	$83.10	$88.48	$112.68	Med.	$94.44
100015	Commercial		ABB	23	1/7/2014		$77.79	$88.41	$93.79	$122.39	Med.	$101.87
100015	Commercial		ABB	15	3/6/2014		$56.55	$67.17	$72.55	$83.55	Med.	$72.15
100015	Commercial		ABB	15	5/6/2014		$56.55	$67.17	$72.55	$83.55	Med.	$72.15
100015	Commercial		ABB	20	7/8/2014		$72.48	$83.10	$83.17	$102.97	Med.	$87.01
100015	Commercial		ABB	18	9/5/2014		$67.17	$77.79	$77.86	$93.26	Med.	$79.58
100015	Commercial		ABB	18	11/6/2014							
Convenience Store			*hi/low*	**19**	10	Average Mo.	$67.17	$77.79	$83.17	$102.97	Med.	$87.01
Range	Low-High	15	*1.53*	**per 2 mos**	per mo			$ 11	$ 16	$ 36		$ 20
Average	12-mo	19	*avg/Wavg*					15.8%	23.8%	53.3%		29.5%
W Average	Nov13-Mar-14	20	*0.95*									
Average	Nov13	21	*Nov14/13*									

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Sample Cust

	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3 - Base+Vol		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
RES:	Flat		Flat		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
COMM:	Base + Vol incl 7.5ccf		Base + Vol incl 5.5ccf		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
Base Res	$56.55		$56.55		$46.00		$35.00		$35.00	
Base Comm	$56.55		$56.55		$46.00		$35.00		$35.00	
Vol Res	$0.00		$0.00		$5.31	3.0	$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$5.31	3.0	$9.71	3.0		
Strength Low									$5.50	3.0
Strength Med (Tavern, Grocery w/out food prep))									$7.43	3.0
Strength High (Restaurant, Grocery w/food prep))									$9.90	3.0

	SW Rate Class	# Multiple	Usage 100cf	Date		Monthly	Monthly	Monthly	Monthly		Monthly
Average	Nov14	18	*0.86*							Med.	Med.
100029	Commercial	ACB	**17**	11/6/2013		$61.86	$72.48	$77.86	$93.26	Med.	$79.58
100029	Commercial	ACB	**16**	1/7/2014		$61.86	$72.48	$72.55	$83.55	Med.	$72.15
100029	Commercial	ACB	**15**	3/6/2014		$56.55	$67.17	$72.55	$83.55	Med.	$72.15
100029	Commercial	ACB	**15**	5/6/2014		$56.55	$67.17	$72.55	$83.55	Med.	$72.15
100029	Commercial	ACB	**16**	7/8/2014		$61.86	$72.48	$72.55	$83.55	Med.	$72.15
100029	Commercial	ACB	**15**	9/5/2014		$56.55	$67.17	$72.55	$83.55	Med.	$72.15
100029	Commercial	ACB	**17**	11/6/2014							
Convenience Store		*hi/low*	**16**	8	Average Mo.	$61.86	$72.48	$72.55	$83.55	Med.	$72.15
Range	Low-High	15	*1.13*	**per 2 mos** per mo			$ 11	$ 11	$ 22		$ 10
Average	12-mo	16	*avg/Wavg*				*17.2%*	*17.3%*	*35.1%*		*16.6%*
W Average	Nov13-Mar-14	16	*1.00*								
Average	Nov13	17	*Nov14/13*								
Average	Nov14	17	*1.00*								
					per unit						
08033E	multifamily	b/c (< ABB	**144**	11/21/2013	9	$904.80	$904.80	$863.44	$793.04		$692.00
08033E	multifamily	b/c (< ABB	**138**	1/24/2014	8.625	$904.80	$904.80	$847.51	$763.91		$675.50
08033E	multifamily	b/c (< ABB	**86**	3/21/2014	5.375	$904.80	$904.80	$736.00	$560.00		$560.00
08033E	multifamily	b/c (< ABB	**121**	5/22/2014	7.5625	$904.80	$904.80	$805.03	$686.23		$631.50
08033E	multifamily	b/c (< ABB	**68**	7/21/2014	4.25	$904.80	$904.80	$736.00	$560.00		$560.00
08033E	multifamily	b/c (< ABB	**72**	9/22/2014	4.5	$904.80	$904.80	$736.00	$560.00		$560.00
08033E	multifamily	b/c (< ABB	**69**	11/19/2014							
Apartment - 48-units Bldg 1 of		*hi/low*	**105**	53	Average Mo.	$904.80	$904.80	$762.55	$608.55		$587.50
Range	Low-High	68	*2.12*	**per 2 mos** per mo			$ -	$ (142)	$ (296)		$ (317)
Average	12-mo	100	*avg/Wavg*				*0.0%*	*-15.7%*	*-32.7%*		*-35.1%*
W Average	Nov13-Mar-14	123	*0.81*								
Average	Nov13	144	*Nov14/13*								
Average	Nov14	69	*0.48*								
					per unit						
08033E	multifamily	b/c (< ABB	**85**	11/21/2013	5.3125	$904.80	$904.80	$736.00	$560.00		$560.00
08033E	multifamily	b/c (< ABB	**84**	1/24/2014	5.25	$904.80	$904.80	$736.00	$560.00		$560.00
08033E	multifamily	b/c (< ABB	**75**	3/21/2014	4.6875	$904.80	$904.80	$736.00	$560.00		$560.00
08033E	multifamily	b/c (< ABB	**76**	5/22/2014	4.75	$904.80	$904.80	$736.00	$560.00		$560.00
08033E	multifamily	b/c (< ABB	**79**	7/21/2014	4.9375	$904.80	$904.80	$736.00	$560.00		$560.00
08033E	multifamily	b/c (< ABB	**82**	9/22/2014	5.125	$904.80	$904.80	$736.00	$560.00		$560.00
08033E	multifamily	b/c (< ABB	**69**	11/19/2014							
Apartment - 48-units Bldg 2 of		*hi/low*	**81**	41	Average Mo.	$904.80	$904.80	$736.00	$560.00		$560.00
Range	Low-High	69	*1.23*	**per 2 mos** per mo			$ -	$ (169)	$ (345)		$ (345)

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Sample Cust

	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3 - Base+Vol		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
RES:	Flat		Flat		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
COMM:	Base + Vol incl 7.5ccf		Base + Vol incl 5.5ccf		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
Base Res	$56.55		$56.55		$46.00		$35.00		$35.00	
Base Comm	$56.55		$56.55		$46.00		$35.00		$35.00	
Vol Res	$0.00		$0.00		$5.31	3.0	$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$5.31	3.0	$9.71	3.0		
Strength Low									$5.50	3.0
Strength Med (Tavern, Grocery w/out food prep))									$7.43	3.0
Strength High (Restaurant, Grocery w/food prep))									$9.90	3.0

	SW Rate Class	# Multiple	Usage 100cf	Date		Monthly	Monthly	Monthly	Monthly	Monthly
Average	12-mo	79	*avg/Wavg*				*0.0%*	*-18.7%*	*-38.1%*	*-38.1%*
W Average	Nov13-Mar-14	81	*0.98*							
Average	Nov13	85	*Nov14/13*							
Average	Nov14	69	*0.81*							

					per unit					
08033E	multifamily	b/c (4 ABB	177	11/21/2013	11.0625	$904.80	$904.80	$953.71	$958.11	$785.50
08033E	multifamily	b/c (4 ABB	90	1/24/2014	5.625	$904.80	$904.80	$736.00	$560.00	$560.00
08033E	multifamily	b/c (4 ABB	69	3/21/2014	4.3125	$904.80	$904.80	$736.00	$560.00	$560.00
08033E	multifamily	b/c (4 ABB	72	5/22/2014	4.5	$904.80	$904.80	$736.00	$560.00	$560.00
08033E	multifamily	b/c (4 ABB	71	7/21/2014	4.4375	$904.80	$904.80	$736.00	$560.00	$560.00
08033E	multifamily	b/c (4 ABB	76	9/22/2014	4.75	$904.80	$904.80	$736.00	$560.00	$560.00
08033E	multifamily	b/c (4 ABB	68	11/19/2014						
Apartment - 48-units Bldg 3 of		*hi/low*	**93**	47	Average Mo.	$904.80	$904.80	$736.00	$560.00	$560.00
Range	Low-High	68	*2.60*	**per 2 mos**	per mo		$ -	$ *(169)*	$ *(345)*	$ *(345)*
Average	12-mo	89	*avg/Wavg*				*0.0%*	*-18.7%*	*-38.1%*	*-38.1%*
W Average	Nov13-Mar-14	112	*0.79*							
Average	Nov13	177	*Nov14/13*							
Average	Nov14	68	*0.38*							

101600211		AAB	2	11/6/2013	$56.55	$56.55	$46.00	$35.00	$35.00
101600211		AAB	3	1/7/2014	$56.55	$56.55	$46.00	$35.00	$35.00
101600211		AAB	0	3/6/2014	$56.55	$56.55	$46.00	$35.00	$35.00
101600211		AAB	4	5/6/2014	$56.55	$56.55	$46.00	$35.00	$35.00
101600211		AAB	4	7/8/2014	$56.55	$56.55	$46.00	$35.00	$35.00
101600211		AAB	3	9/5/2014	$56.55	$56.55	$46.00	$35.00	$35.00
101600211		AAB	3	11/6/2014					
Residential - Low Use		*hi/low*	3	2	Average Mo.	$56.55	$56.55	$46.00	$35.00	$35.00
Range	Low-High	0	*#DIV/0!*	**per 2 mos**	per mo		$ -	$ *(11)*	$ *(22)*	$ *(22)*
Average	12-mo	3	*avg/Wavg*				*0.0%*	*-18.7%*	*-38.1%*	*-38.1%*
W Average	Nov13-Mar-14	2	*1.50*							
Average	Nov13	2	*Nov14/13*							
Average	Nov14	3	*1.50*							

102324110	AAB	3	11/6/2013	$56.55	$56.55	$46.00	$35.00	$35.00
102324110	AAB	4	1/7/2014	$56.55	$56.55	$46.00	$35.00	$35.00
102324110	AAB	3	3/6/2014	$56.55	$56.55	$46.00	$35.00	$35.00
102324110	AAB	3	5/6/2014	$56.55	$56.55	$46.00	$35.00	$35.00
102324110	AAB	4	7/8/2014	$56.55	$56.55	$46.00	$35.00	$35.00
102324110	AAB	4	9/5/2014	$56.55	$56.55	$46.00	$35.00	$35.00

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Sample Cust

	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3 - Base+Vol		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
RES:	Flat		Flat		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
COMM:	Base + Vol incl 7.5ccf		Base + Vol incl 5.5ccf		Base+Vol, incl 300cf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
Base Res	$56.55		$56.55		$46.00		$35.00		$35.00	
Base Comm	$56.55		$56.55		$46.00		$35.00		$35.00	
Vol Res	$0.00		$0.00		$5.31	3.0	$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$5.31	3.0	$9.71	3.0		
Strength Low									$5.50	3.0
Strength Med (Tavern, Grocery w/out food prep))									$7.43	3.0
Strength High (Restaurant, Grocery w/food prep))									$9.90	3.0

	SW Rate Class	# Multiple	Usage 100cf		Date		Monthly	Monthly	Monthly	Monthly	Monthly
102324110			AAB	3	11/6/2014						
Residential - Low Use			*hi/low*	4	2	Average Mo.	$56.55	$56.55	$46.00	$35.00	$35.00
Range	Low-High	3	*1.33*	per 2 mos	per mo			$ -	$ (11)	$ (22)	$ (22)
Average	12-mo	3	*avg/Wavg*					0.0%	-18.7%	-38.1%	-38.1%
W Average	Nov13-Mar-14	3	*1.00*								
Average	Nov13	3	*Nov14/13*								
Average	Nov14	3	*1.00*								
122144810			AAB	2	11/15/2013		$56.55	$56.55	$46.00	$35.00	$35.00
122144810			AAB	2	1/16/2014		$56.55	$56.55	$46.00	$35.00	$35.00
122144810			AAB	1	3/13/2014		$56.55	$56.55	$46.00	$35.00	$35.00
122144810			AAB	2	5/16/2014		$56.55	$56.55	$46.00	$35.00	$35.00
122144810			AAB	2	7/14/2014		$56.55	$56.55	$46.00	$35.00	$35.00
122144810			AAB	1	9/15/2014		$56.55	$56.55	$46.00	$35.00	$35.00
122144810			AAB	1	11/14/2014						
Residential - Low Use			*hi/low*	2	1	Average Mo.	$56.55	$56.55	$46.00	$35.00	$35.00
Range	Low-High	1	*2.00*	per 2 mos	per mo			$ -	$ (11)	$ (22)	$ (22)
Average	12-mo	2	*avg/Wavg*					0.0%	-18.7%	-38.1%	-38.1%
W Average	Nov13-Mar-14	2	*1.00*								
Average	Nov13	2	*Nov14/13*								
Average	Nov14	1	*0.50*								
122128110			AAB	1	11/15/2013		$56.55	$56.55	$46.00	$35.00	$35.00
122128110			AAB	1	1/16/2014		$56.55	$56.55	$46.00	$35.00	$35.00
122128110			AAB	4	3/13/2014		$56.55	$56.55	$46.00	$35.00	$35.00
122128110			AAB	1	5/16/2014		$56.55	$56.55	$46.00	$35.00	$35.00
122128110			AAB	2	7/14/2014		$56.55	$56.55	$46.00	$35.00	$35.00
122128110			AAB	4	9/15/2014		$56.55	$56.55	$46.00	$35.00	$35.00
122128110			AAB	4	11/14/2014						
Residential - Low Use			*hi/low*	3	2	Average Mo.	$56.55	$56.55	$46.00	$35.00	$35.00
Range	Low-High	1	*4.00*	per 2 mos	per mo			$ -	$ (11)	$ (22)	$ (22)
Average	12-mo	2	*avg/Wavg*					0.0%	-18.7%	-38.1%	-38.1%
W Average	Nov13-Mar-14	2	*1.00*								
Average	Nov13	1	*Nov14/13*								
Average	Nov14	4	*4.00*								

City of Sedro-Woolley
Sample Customer Summary

Rate Structure Alternatives

DISCUSSION DRAFT Revised 6/29/15

	ALT 1 - EXISTING		ALT 1a - Similar		Alt 3a - Base+Vol		Alt 4 - Base+Vol Strength	
RES:	Flat		Flat		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
COMM:	Base + Vol incl 7.5ccf		Base + Vol incl 5.5ccf		Base+Vol, incl 300cf		Base+Vol, incl 300cf	
Base Res	$56.55		$56.55		$35.00		$35.00	
Base Comm	$56.55		$56.55		$35.00		$35.00	
Vol Res	$0.00		$0.00		$9.71	3.0	$5.50	3.0
Vol Comm	$5.31	7.5	$5.31	5.5	$9.71	3.0		
Strength Low (Residential, Offices, Banks)							$5.50	3.0
Strength Med (Tavern, Grocery w/out food prep))							$7.43	3.0
Strength High (Restaurant, Grocery w/food prep))							$9.90	3.0

Customer Type	Comments	Average Month ccf	Sewer for Avg. Mo.	Sewer for Avg. Mo.	*Diff to Exist*		Sewer for Avg. Mo.	*Diff to Exist*		Sewer for Avg. Mo.	*Diff to Exist*	
RESIDENTIAL												
Family, 2 teens + l pt time teen	Range 11 - 16	14	$56.55	$56.55	*$0*	*0%*	$141.81	*$85*	*151%*	$95.50	*$39*	*69%*
Family, 2 teens	Range 9 - 17	12	$56.55	$56.55	*$0*	*0%*	$122.39	*$66*	*116%*	$84.50	*$28*	*49%*
Family, 2 young teens	Range 9 - 20	13	$56.55	$56.55	*$0*	*0%*	$132.10	*$76*	*134%*	$90.00	*$33*	*59%*
Family, 2 children	Range 7 - 10	8	$56.55	$56.55	*$0*	*0%*	$83.55	*$27*	*48%*	$62.50	*$6*	*11%*
Family, 2 older teens	Range 14 - 22	10	$56.55	$56.55	*$0*	*0%*	$102.97	*$46*	*82%*	$73.50	*$17*	*30%*
Family, 1 older teen	Range 3 - 5	4	$56.55	$56.55	*$0*	*0%*	$44.71	*-$12*	*-21%*	$40.50	*-$16*	*-28%*
One Adult	Range 3 - 4	3	$56.55	$56.55	*$0*	*0%*	$35.00	*-$22*	*-38%*	$35.00	*-$22*	*-38%*
One Adult	Range 3 - 5	4	$56.55	$56.55	*$0*	*0%*	$44.71	*-$12*	*-21%*	$40.50	*-$16*	*-28%*
Two Adults	Range 1 - 7	2	$56.55	$56.55	*$0*	*0%*	$35.00	*-$22*	*-38%*	$35.00	*-$22*	*-38%*
Two Adults	Range 5 - 7	6	$56.55	$56.55	*$0*	*0%*	$64.13	*$8*	*13%*	$51.50	*-$5*	*-9%*
Two Adults	Range 2 - 3	3	$56.55	$56.55	*$0*	*0%*	$35.00	*-$22*	*-38%*	$35.00	*-$22*	*-38%*
Three Adults	Range 6 - 11	8	$56.55	$56.55	*$0*	*0%*	$83.55	*$27*	*48%*	$62.50	*$6*	*11%*
Low Use Residence	Range 0 - 2	2	$56.55	$56.55	*$0*	*0%*	$35.00	*-$22*	*-38%*	$35.00	*-$22*	*-38%*
Low Use Residence	Range 1 - 1	1	$56.55	$56.55	*$0*	*0%*	$35.00	*-$22*	*-38%*	$35.00	*-$22*	*-38%*
Low Use Residence	Range 1 - 2	2	$56.55	$56.55	*$0*	*0%*	$35.00	*-$22*	*-38%*	$35.00	*-$22*	*-38%*
Apartment - 48 units (3 bldgs)	Total 3 Bldgs	141	$2,714.40	$2,714.40	*$0*	*0%*	$1,728.55	*-$986*	*-36%*	$1,707.50	*-$1,007*	*-37%*
Bldg A (assume 16 units)	Bldg A (16 units)	53	$904.80	$904.80	*$0*	*0%*	$608.55	*-$296*	*-33%*	$587.50	*-$317*	*-35%*
Bldg B (assume 16 units)	Bldg B (16 units)	41	$904.80	$904.80	*$0*	*0%*	$560.00	*-$345*	*-38%*	$560.00	*-$345*	*-38%*
Bldg C (assume 16 units)	Bldg C (16 units)	47	$904.80	$904.80	*$0*	*0%*	$560.00	*-$345*	*-38%*	$560.00	*-$345*	*-38%*
COMMERCIAL												
Adult Home Care	Low Strength	19	$114.96	$125.58	*$11*	*9%*	$190.36	*$75*	*66%*	$123.00	*$8*	*7%*
Adult Home Care	Low Strength	21	$130.89	$141.51	*$11*	*8%*	$209.78	*$79*	*60%*	$134.00	*$3*	*2%*
Low Use Office	Low Strength	4	$56.55	$56.55	*$0*	*0%*	$44.71	*-$12*	*-21%*	$40.50	*-$16*	*-28%*
Church	Low Strength	4	$56.55	$56.55	*$0*	*0%*	$44.71	*-$12*	*-21%*	$40.50	*-$16*	*-28%*
Convenience Store	Med Strength	10	$67.17	$77.79	*$11*	*16%*	$102.97	*$36*	*53%*	$87.01	*$20*	*30%*
Convenience Store	Med Strength	8	$61.86	$72.48	*$11*	*17%*	$83.55	*$22*	*35%*	$72.15	*$10*	*17%*
Bar	Med Strength	18	$109.65	$120.27	*$11*	*10%*	$180.65	*$71*	*65%*	$183.50	*$74*	*67%*
Bar	Med Strength	16	$104.34	$114.96	*$11*	*10%*	$161.23	*$57*	*55%*	$163.70	*$59*	*57%*
Restaurant	High Strength	35	$205.23	$215.85	*$11*	*5%*	$345.72	*$140*	*68%*	$351.80	*$147*	*71%*
Drive-In	High Strength	43	$247.71	$258.33	*$11*	*4%*	$423.40	*$176*	*71%*	$431.00	*$183*	*74%*