Seattle Public Utilities 2012-2014 Wholesale Water Rate Study Full and Partial Requirements Contracts

April 8, 2011

Summary

Seattle proposes to adjust regional wholesale water rates beginning January 1, 2012 by Option 2 below.

The difference between the options is the split of the negative regional true up balances between years: the first option spreads the balances evenly between all three years, and the second option frontloads a higher portion of the balances to 2012. On April 7, 2011, the Operating Board was presented with both options and recommended Option 2.

Option 1 – Not selected by Operating Board

| | 201 | 11 | 2012 | | 20 | 13 | 20 | 14 |
|---|----------|---------|----------|--------|----------|--------|----------|--------------|
| Rates per CCF | Off-Peak | Peak | Off-Peak | Peak | Off-Peak | Peak | Off-Peak | Peak |
| System Desaline Dates | \$1.29 | \$1.91 | \$1.48 | \$2.19 | \$1.52 | \$2.26 | \$1.58 | \$2.35 |
| System Baseline Rates Change from Prior Year: | \$1.29 | \$1.91 | 15% | 15% | 3% | 3% | 4% | \$2.33 4% |
| Transition Discount: | -\$0.13 | -\$0.12 | N/A | N/A | N/A | N/A | N/A | N/A |
| Adjusted Wholesale Rate: | \$1.16 | \$1.79 | \$1.48 | \$2.19 | \$1.52 | \$2.26 | \$1.58 | \$2.35 |
| Change from Prior Year: | | | 28% | 22% | 3% | 3% | 4% | 4% |
| Interim Growth Charge: | \$0.60 | | N/A | | N/A | | N/A | |
| Sub-regional Surcharge Rates | | | | | | | | |
| Southwest Sub-region: | \$0. | 05 | \$0.0 | 06 | \$0. | \$0.07 | | 07 |
| East Sub-region, Segment 3: | \$0. | 05 | \$0. | 15 | \$0. | 16 | \$0. | 16 |
| East Sub-region, Segment 4: | \$0. | 07 | \$0. | 18 | \$0. | \$0.19 | | 19 |
| ERU Fee (\$/ERU): | \$78 | 33 | \$78 | \$783 | | \$783 | | BD |

Option 2 -Selected by Operating Board

| | 20: | 11 | 2012 | | 2013 | | 201 | 14 |
|------------------------------|----------|---------------|----------|--------|----------|--------|----------|--------|
| Rates per CCF | Off-Peak | Peak | Off-Peak | Peak | Off-Peak | Peak | Off-Peak | Peak |
| System Baseline Rates | \$1.29 | \$1.91 | \$1.52 | \$2.25 | \$1.53 | \$2.26 | \$1.53 | \$2.27 |
| Change from Prior Year: | | | 18% | 18% | 0% | 0% | 0% | 0% |
| Transition Discount: | -\$0.13 | -\$0.12 | N/A | N/A | N/A | N/A | N/A | N/A |
| Adjusted Wholesale Rate: | \$1.16 | \$1.79 | \$1.52 | \$2.26 | \$1.53 | \$2.26 | \$1.53 | \$2.27 |
| Change from Prior Year: | | | 31% | 26% | 0% | 0% | 0% | 0% |
| Interim Growth Charge: | \$0. | 60 | N/A | | N/A | | N/A | |
| Sub-regional Surcharge Rates | | | | | | | | |
| Southwest Sub-region: | \$0. | 05 | \$0.0 | 06 | \$0. | 07 | \$0. | 07 |
| East Sub-region, Segment 3: | \$0. | 05 | \$0. | 15 | \$0. | 16 | \$0. | 16 |
| East Sub-region, Segment 4: | \$0.07 | | \$0.18 | | \$0.19 | | \$0.19 | |
| ERU Fee (\$/ERU): | \$78 | 33 | \$78 | 33 | \$78 | 33 | \$TE | BD. |

¹ Section IV.I.3 of the contracts state that "Each wholesale rate study shall adjust rates to eliminate the cost pool balances."

- 1 -

_

This document describes the calculation of rates for Full and Partial Requirements customers. It is organized to follow the steps involved in the rate study including the assumptions, allocating O&M and asset costs to develop the Regional Cost, allocating this Regional Cost between Block contracts and Full and Partial Requirements customers, incorporating true up adjustments, and designing rates.

This rate study also develops rates for the Southwest and East sub-regions, Renton New Supply block, CWA and Northshore blocks, and North Bend treatment discount.

Overall Assumptions

- 1. Inflation is assumed to be 2.0% through the period of the rate study.
- 2. Effective in 2011, the Cities of Bothell, Duvall, and Renton, and Water Districts 49, 90, and 119 will have Full and Partial contracts substantially similar to the existing Full and Partial contracts.
- 3. Effective in 2011, the City of Edmonds and Lake Forest Park Water Districts will have emergency intertie agreements only, not wholesale contracts.
- 4. The effect of North Bend demand and revenue is excluded because it is unknown and minimal. The actual effect of any water sales will be captured through the true up process.
- 5. Seattle's average cost of debt is assumed at 4.7%, which is the rate calculated for the 2010 Purveyor Statements.
- 6. A true up is performed each year to compare the prior year's actual revenues and actual costs of service. A running balance of the excess or deficit in revenues is maintained. This rate study sets rates to amortize the projected 2011 year-end true-up balance over the 2013-2014 rate period.

Significant Changes since the last Rate Study

- 1. Effective in 2011, the Cities of Bothell, Duvall, and Renton, and Water Districts 49, 90, and 119 will have Full and Partial contracts substantially similar to the existing Full and Partial contracts.
- 2. Effective in 2011, the City of Edmonds and Lake Forest Park Water Districts will have emergency intertie agreements only, not wholesale contracts.
- 3. Cascade's Declining Block Contract was amended in late 2008 to include a "Supplemental Block" of 3.0 MGD annually, priced at Full and Partial Commodity rates. This acts as 3.0 MGD of additional Full and Partial demand when setting the Full and Partial rates, regardless of actual Cascade consumption.
- 4. As per section IV.E.12.b of the contracts, the transition growth charge expires at the end of 2011, and these revenues are no longer available to hold down "base" rates in 2012 and beyond.
- 5. This rate study creates separate rates for Existing Supply, Existing Transmission, New Supply, and New Transmission.

Total Regional O&M Costs

Yearly operations costs for each cost pool (e.g. Existing Supply) are calculated by applying an index to a base amount. The index is developed from the cost of certain O&M activities as identified in the contract. The original base amount for each cost pool is identified in the contracts.

The starting point for this rate study was the 2009 base and index amounts developed during the 2009 true up. Final (e.g. audited) 2010 costs were not available, so 2010 year end costs as of January 11, 2011 were used. For 2012, the O&M budget by activity was used. For 2012-2016, a general inflation rate of 2.0% was used.

Regional O&M Costs

| | 2009 Actual | 2010 Estimated | 2011 Projected | 2012 Projected | 2013 Projected | 2014 Projected | 2015 Projected | 2016 Projected |
|-------------------------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Existing Supply | | | | | | | | |
| PY Base | 26,674,018 | 27,279,519 | 27,623,053 | 28,295,113 | 28,861,015 | 29,438,236 | 30,027,001 | 30,627,541 |
| | | | | | | | | |
| PY Costs in identified activities | 18,545,673 | 18,967,489 | 19,206,349 | 19,673,634 | 20,067,106 | 20,468,448 | 20,877,817 | 21,295,374 |
| CY Costs in identified activities | 18,967,489 | 19,206,349 | 19,673,634 | 20,067,106 | 20,468,448 | 20,877,817 | 21,295,374 | 21,721,281 |
| Ratio of CY/PY | 1.023 | 1.013 | 1.024 | 1.020 | 1.020 | 1.020 | 1.020 | 1.020 |
| CY Operations Cost Base | 27,279,519 | 27,623,053 | 28,295,113 | 28,861,015 | 29,438,236 | 30,027,001 | 30,627,541 | 31,240,091 |
| Expensed CIP | 2,772,725 | 855,958 | | | | | | |
| Total CY Cost | 30,052,243 | 28,479,011 | 28,295,113 | 28,861,015 | 29,438,236 | 30,027,001 | 30,627,541 | 31,240,091 |
| | | | | | | | | |
| Existing Transmission | | | | | | | | |
| PY Base | 8,502,433 | 10,417,181 | 10,429,556 | 10,560,100 | 10,771,302 | 10,986,728 | 11,206,463 | 11,430,592 |
| PY Costs in identified activities | 2,232,207 | 2,734,888 | 2,738,137 | 2,772,409 | 2,827,858 | 2,884,415 | 2,942,103 | 3,000,945 |
| CY Costs in identified activities | 2,734,888 | 2,738,137 | 2,772,409 | 2,827,858 | 2,884,415 | 2,942,103 | 3,000,945 | 3,060,964 |
| Ratio of CY/PY | 1.225 | 1.0012 | 1.0125 | 1.0200 | 1.0200 | 1.0200 | 1.0200 | 1.0200 |
| CY Operations Cost Base | 10,417,181 | 10,429,556 | 10,560,100 | 10,771,302 | 10,986,728 | 11,206,463 | 11,430,592 | 11,659,204 |
| Expensed CIP, gain on sale | (4,513,122) | 528,984 | 10,500,100 | 10,771,502 | 10,700,720 | 11,200,403 | 11,430,372 | 11,037,204 |
| Total CY Cost | 5,904,059 | 10,958,540 | 10,560,100 | 10,771,302 | 10,986,728 | 11,206,463 | 11,430,592 | 11,659,204 |
| | | | | | | | | |
| New Supply | | | | | | | | |
| PY Base | 866,066 | 705,844 | 635,077 | 979,548 | 999,139 | 1,019,121 | 1,039,504 | 1,060,294 |
| | | | | | | | | |
| PY Costs in identified activities | 387,757 | 316,031 | 284,346 | 438,578 | 447,349 | 456,296 | 465,422 | 474,731 |
| CY Costs in identified activities | 316,031 | 284,346 | 438,578 | 447,349 | 456,296 | 465,422 | 474,731 | 484,225 |
| Ratio of CY/PY | 0.815 | 0.900 | 1.542 | 1.020 | 1.020 | 1.020 | 1.020 | 1.020 |
| CY Operations Cost Base | 705,844 | 635,077 | 979,548 | 999,139 | 1,019,121 | 1,039,504 | 1,060,294 | 1,081,500 |
| | | | | | | | | |
| New Trans portation | | | | | | | | |
| 2009 Costs in identified activities | 1,067 | | | | | | | |
| Apply G&A as per CIP | 2,059 | | | | | | | |
| Total New Transmission Costs | 2,059 | 0 | 0 | 0 | 0 | 0 | 0 | |

Total Regional Capital Costs

Yearly capital costs for the Existing Supply and Existing Transmission cost pools are calculated on the utility basis for assets assigned to those cost pool. Under the utility basis, the annual cost of an asset is depreciation plus the Net Book Value of the asset multiplied by a return on assets. The capital costs for the New Supply cost pool are calculated on the utility basis for assets created prior to 2011, and on a cash basis for assets added in 2011 and later.

The assets to be included in each cost pool are identified in the contract. Administratively, there are three categories of assets to be included in the rate study cost allocation: existing assets, future assets (inconstruction or planned), and special assets.

Existing Assets

The basis for existing assets was the preliminary 2010 asset schedule available in February 2011. Depreciation and Net Book Value were calculated for each asset through 2016 and allocated to the appropriate cost pool.

In-Construction and Future Assets

Identification of future assets came from the 6-year Capital Improvement Plan for the Water Fund, which covers 2011-2016. The SPU financial system provided spending on these projects through year-end 2010.

For each project, an in-service year was determined – typically the last year of spending in the CIP budget. Exceptions were annual programs, such as Transmission Pipeline Rehabilitation, that are capitalized at the end of each year. Interest costs associated with assets in construction ("AFUDC") were calculated for assets through June of the year they are to be placed in service, and depreciation was calculated for each project starting with the year after the asset is placed in service. All of these assumptions are consistent with SPU's actual accounting practices.

Assets were assigned to cost pools per the lists in the contract exhibits. In a few cases, the CIP item consists of smaller projects (such as the Cathodic Protection Program), some included in the wholesale rate base and some not. These assets were categorized where the majority of the costs will be incurred. When the projects are executed, they will be disaggregated for tracking and allocating actual costs.

Special Assets

There are several assets that receive special treatment for rate making/cost allocation purposes.

1. Interest paid during construction on the Tolt Filtration Plant.

Wholesale customers agreed to pay a portion of interest costs during construction of the Tolt Filtration Plant. These payments reduce the rate-based cost of the Tolt Filtration Plant now that construction is complete. This appears as a contributed asset on the existing asset schedule.

2. Interest paid during construction on the Cedar Treatment Plant.

Wholesale customers agreed to pay a portion of the interest costs for the Cedar Treatment Plant during construction. These payments reduce the rate-based cost of the Cedar Treatment Plant now that construction is complete. This appears as a contributed asset on the existing asset schedule.

Allocation of Total Regional Costs

The work above determines total regional costs, which are then allocated between wholesale customers. For cost allocation purposes, Seattle's retail service area is considered a wholesale customer of the water system. Each allocation described below is done in parallel for each cost pool, where applicable.

Allocation to Block Customers

Cascade Water Alliance (CWA) has a declining block contract with Seattle rather than full or partial requirements contract. For its Base Block, CWA shares in the Regional Existing Supply and Existing Transmission cost pools but not New Supply or New Transmission. The allocation to Cascade's Base Block is done according to the CWA contract; CWA pays 18.1% of the regional existing supply and transmission costs. This allocation is 102% times the CWA block volume (30.3 MGD) divided by the system firm yield (171 MGD).

Northshore has a fixed block contract with Seattle. Northshore shares in the Regional Existing Supply and Existing Transmission cost pools, and the conservation related portions of the New Supply and Facilities Charge cost pools. The allocation of Existing Supply and Existing Transmission is 5.1%, which is 102% of Northshore's block volume (8.55 MGD) divided by the system firm yield (171 MGD). Northshore's allocation of conservation is 6.2%, which is 102% of Northshore's block volume (8.55 MGD) divided by the system firm yield minus the CWA block (171 MGD - 30.3 MGD). CWA's block is not included in conservation calculations since CWA does not participate in SPU's regional conservation programs.

Renton has a Partial Requirements Contract, but their allocation of New Supply costs is being handled as a block allocation. This is because their entire retail area will be participating in Regional Conservation while their purchases from Seattle are only a small portion of their supply. They will be allocated 5.7% of New Supply O&M costs and New Supply asset costs for assets added in 2012 and later.

Remainder to Full and Partial Requirements Contract Holders

Full and Partial Requirements customers and the 3.0 MGD Cascade Supplemental Block pay the remaining costs in the new contract cost pool.

True Up Adjustments

Although regional cost development is done jointly for Full and Partial Requirements Customers and the CWA, Northshore, and Renton blocks, the true ups and resulting excesses/deficiencies for these groups are maintained separately. As such, Seattle (rather than Full and Partial wholesale customers) funds any excesses or deficiencies in the CWA, Northshore, and Renton blocks.

For costs recovered through rates, the true up balance is applied during rate studies to raise or lower future rates. For costs recovered through block payments, the excess or deficiency is applied to the following year's block payments; For example, the true up covering 2010 will be calculated in 2011 and applied to 2012's block.

This rate study takes into account the actual Full and Partial Requirements Contracts true up balances from the 2009 true up and the current forecast for the 2010 and 2011 true ups. Rates are set to amortize the projected 2011 balances plus interest over the period 2012-2014.

Cost Allocation Summary

The following schedules presents the summary of Full and Partial Contract costs for 2009-2016. They only differ in the split of the regional true up balances between years.

Option 1 – Not selected by Operating Board

| | | | | Operatin | | | | |
|---|-------------|---|---|--|--|--|--|---|
| xisting Supply Cost Pool | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Asset cost | | 33,500,624 | 34,131,392 | 34,252,425 | 34,591,548 | 34,748,272 | 34,772,304 | 38,814,429 |
| O&M cost | | 26,767,095 | 28,295,113 | 28,861,015 | 29,438,236 | 30,027,001 | 30,627,541 | 31,240,091 |
| Regional Cost | | 60,267,719 | 62,426,505 | 63,113,441 | 64,029,784 | 64,775,273 | 65,399,845 | 70,054,520 |
| Allocation to 1982 contract | | (2,195,194) | | | | | | |
| Allocation to CWA Base Block | | (10,892,597) | (11,282,769) | (11,406,924) | (11,572,541) | (11,707,278) | (11,820,161) | (12,661,433 |
| Allocation to NUD Block | | (3,073,654) 44,106,274 | (3,183,752) 47,959,984 | (3,218,785) | (3,265,519) | (3,303,539) 49,764,456 | (3,335,392) | (3,572,781 53,820,307 |
| Remaining Costs to F&P rates includes CWA supplemental block & Renton | | 44,100,274 | 47,939,964 | 48,487,731 | 49,191,724 | 49,704,430 | 50,244,291 | 33,620,307 |
| True Up balance applied | | - | - | 2,400,000 | 2,350,000 | 2,200,000 | - | |
| Amount to be collected through rates | | 44,106,274 | 47,959,984 | 50,887,731 | 51,541,724 | 51,964,456 | 50,244,291 | 53,820,307 |
| Expected revenues, incl CWA suppl block | | 41,860,023 | 45,025,140 | 50,913,123 | 51,554,275 | 51,971,251 | 50,980,403 | 53,037,305 |
| CY (under)/Over payment | | (2,246,251) | (2,934,844) | 2,425,392 | 2,362,551 | 2,206,796 | 736,112 | (783,002 |
| | | | 11 | | | | | |
| Balance | (1,022,276) | (3,316,573) | (6,407,296) | (4,283,047) | (2,121,799) | (14,728) | 720,692 | (28,438) |
| Interest on above, affect following year | (48,047) | (155,879) | (301,143) | (201,303) | (99,725) | (692) | 33,873 | (1,337) |
| xisting Transmission Cost Pool | | | | | | | | |
| Asset cost | | 17,727,969 | 17,477,844 | 17,329,624 | 17,220,237 | 18,445,610 | 18,575,665 | 18,495,287 |
| O&M cost | | 10,865,874 | 10,560,100 | 10,771,302 | 10,986,728 | 11,206,463 | 11,430,592 | 11,659,204 |
| Regional Cost | | 28,593,844 | 28,037,944 | 28,100,926 | 28,206,965 | 29,652,073 | 30,006,257 | 30,154,491 |
| Allocation to 1982 contract | | (1,041,504) | | | | | | |
| Allocation to CWA Base Block | | (5,167,961) | (5,067,489) | (5,078,873) | (5,098,038) | (5,359,222) | (5,423,236) | (5,450,027 |
| Allocation to NUD Block | | (1,458,286) | (1,429,935) | (1,433,147) | (1,438,555) | (1,512,256) | (1,530,319) | (1,537,879 |
| Remaining Costs to F&P rates | | 20,926,093 | 21,540,519 | 21,588,906 | 21,670,372 | 22,780,595 | 23,052,701 | 23,166,584 |
| includes CWA supplemental block & Renton | | | | | | | | |
| True Up balance applied | | - | - | 1,120,000 | 1,120,000 | 1,120,000 | | - |
| Amount to be collected through rates | | 20,926,093 | 21,540,519 | 22,708,906 | 22,790,372 | 23,900,595 | 23,052,701 | 23,166,584 |
| Expected revenues, incl CWA suppl block | | 19,860,366 | 20,222,377 | 22,712,936 | 22,708,970 | 23,830,789 | 23,214,471 | 22,922,092 |
| CY (under)/Over payment | | (1,065,727) | (1,318,142) | 1,124,029 | 1,038,598 | 1,050,194 | 161,770 | (244,492 |
| Balance | (441,611) | (1,528,094) | (2,918,056) | (1,931,175) | (983,342) | 20,634 | 183,374 | (52,500) |
| Interest on above, affect following year | (20,756) | (71,820) | (137,149) | (90,765) | (46,217) | 970 | 8,619 | (2,467 |
| | | | | | | | | |
| lew Supply Cost Pool - Rate Based | | | | | | | | |
| Asset cost | | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| O&M cost | _ | 635,077 | 979,548 | 999,139 | 1,019,121 | 1,039,504 | 1,060,294 | 1,081,500 |
| Regional Cost Allocation to 1982 contract | | 635,077 (23,132) | 979,548 | 999,139 | 1,019,121 | 1,039,504 | 1,060,294 | 1,081,500 |
| Allocation to NUD Block | | (39,364) | (60,715) | (61,930) | (63,168) | (64,432) | (65,720) | (67,035 |
| Allocation to Renton Block | | (39,304) | (00,713) | (56,951) | (58,090) | (59,252) | (60,437) | (61,645) |
| Remaining Costs to F&P rates | | 572,581 | 918,832 | 880,258 | 897,863 | 915,821 | 934,137 | 952,820 |
| includes CWA supplemental block | | 372,301 | 710,032 | 000,250 | 057,003 | 713,021 | 231,137 | 752,020 |
| Transfer from/(to) FC cost pool | | - | - | - | - | - | - | - |
| True Up balance applied | | - | - | 38,000 | 38,000 | 38,000 | - | - |
| Amount to be collected through rates | | 572,581 | 918,832 | 918,258 | 935,863 | 953,821 | 934,137 | 952,820 |
| Expected revenues, incl CWA suppl block | | 543,420 | 862,606 | 841,749 | 994,666 | 976,056 | 957,446 | 938,836 |
| CY (under)/Over payment | | (29,160) | (56,227) | (38,509) | 96,802 | 60,235 | 23,309 | (13,984) |
| Balance | (23,050) | (53,294) | (112,025) | (155,799) | (66,320) | (9,201) | 13,675 | 334 |
| Interest on above, affect following year | (1,083) | (2,505) | (5,265) | (7,323) | (3,117) | (432) | 643 | 16 |
| 1 | | | | | | | | |
| New Transmission Cost Pool | | | | | | | | |
| Asset cost | | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| O&M cost | | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Regional Cost | | - | - | - | - | - | - | - |
| Allocation to 1982 contract | | - | | | | | | |
| Remaining Costs to F&P rates | | - | - | - | - | - | - | - |
| includes CWA supplemental block & Renton True Up balance applied | | | | - | - | - | - | |
| Amount to be collected through rates | | - | - | - | - | | - | |
| Expected revenues, incl CWA suppl block | | - 1 | - 1 | | | | | - |
| CY (under)/Over payment | | | | | | | | |
| CY (under)/Over payment | | - | - | - | - | - | - | - |
| Balance Interest on above, affect following year | (14) | (15) | (16) | (16) | (17) | (18) | (19) | (20 |
| interest on above, affect following year | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1, |
| New Supply Cost Pool - FC Based | | | | | | | | |
| | | 3,071,429 | 4,819,213 | 4,714,107 | 4,609,740 | 4,506,129 | 2,698,031 | 2,708,690 |
| Asset cost | | | | 4,714,107 | 4,609,740 | 4,506,129 | 2,698,031 | 2,708,690 |
| Asset cost Regional Cost | | 3,071,429 | 4,819,213 | | | | | |
| Asset cost Regional Cost Allocation to 1982 contract | | 3,071,429 (111,874) | | | | | | (167,893) |
| Asset cost Regional Cost Allocation to 1982 contract Allocation to NUD Block | | 3,071,429 (111,874) (190,376) | (298,709) | (292,194) | (285,725) | (279,303) | (167,232) | |
| Asset cost Regional Cost Allocation to 1982 contract Allocation to NUD Block Allocation to Renton Block | | 3,071,429 (111,874) | | (292,194) (107,559) | (285,725) (109,710) | (279,303) (111,904) | (167,232) (114,142) | |
| Asset cost Regional Cost Allocation to 1982 contract Allocation to NUD Block Allocation to Renton Block Transfer from/(to) FC New Supply Rates Cost Pool | | 3,071,429 (111,874) (190,376) | (298,709) | (107,559) | (109,710) | (111,904) | (114,142) | (116,425 |
| Asset cost Regional Cost Allocation to 1982 contract Allocation to NUD Block Allocation to Renton Block Transfer from/(to) FC New Supply Rates Cost Pool Remaining Costs to balance FCs | | 3,071,429 (111,874) (190,376) - - 2,769,179 | (298,709) - - 4,520,504 | (107,559) - 4,314,353 | (109,710) - 4,214,304 | (111,904) - 4,114,922 | (114,142) - 2,416,656 | 2,424,372 |
| Asset cost Regional Cost Allocation to 1982 contract Allocation to NUD Block Allocation to Renton Block Transfer from/(to) FC New Supply Rates Cost Pool Remaining Costs to balance FCs Expected revenues | | 3,071,429 (111,874) (190,376) - - 2,769,179 1,186,432 | (298,709) - - 4,520,504 1,300,563 | (107,559) - 4,314,353 2,199,447 | (109,710) - 4,214,304 2,199,447 | (111,904) - 4,114,922 2,747,010 | (114,142) - 2,416,656 2,747,010 | 2,424,372 2,747,010 |
| Asset cost Regional Cost Allocation to 1982 contract Allocation to NUD Block Allocation to Renton Block Transfer from/(to) FC New Supply Rates Cost Pool Remaining Costs to balance FCs | | 3,071,429 (111,874) (190,376) - - 2,769,179 | (298,709) - - 4,520,504 | (107,559) - 4,314,353 | (109,710) - 4,214,304 | (111,904) - 4,114,922 | (114,142) - 2,416,656 | 2,424,372 2,747,010 |
| Asset cost Regional Cost Allocation to 1982 contract Allocation to NUD Block Allocation to Renton Block Transfer from/(to) FC New Supply Rates Cost Pool Remaining Costs to balance FCs Expected revenues | 12,882,597 | 3,071,429 (111,874) (190,376) - - 2,769,179 1,186,432 | (298,709) - - 4,520,504 1,300,563 | (107,559) - 4,314,353 2,199,447 | (109,710) - 4,214,304 2,199,447 | (111,904) - 4,114,922 2,747,010 | (114,142) - 2,416,656 2,747,010 | 2,424,372 2,747,010 322,638 |
| Asset cost Regional Cost Allocation to 1982 contract Allocation to NUD Block Allocation to Renton Block Transfer from/(to) FC New Supply Rates Cost Pool Remaining Costs to balance FCs Expected revenues CY (under)/Over payment | | 3,071,429 (111,874) (190,376) - - 2,769,179 1,186,432 (1,582,747) | (298,709) - - 4,520,504 1,300,563 (3,219,941) | (107,559) - 4,314,353 2,199,447 (2,114,906) | (109,710) - 4,214,304 2,199,447 (2,014,857) | (111,904) - 4,114,922 2,747,010 (1,367,912) | (114,142) - 2,416,656 2,747,010 330,354 | 2,424,372 2,747,010 322,638 5,946,609 279,491 |
| Asset cost Regional Cost Allocation to 1982 contract Allocation to NUD Block Allocation to Renton Block Transfer from/(to) FC New Supply Rates Cost Pool Remaining Costs to balance FCs Expected revenues CY (under)/Over payment Balance | 12,882,597 | 3,071,429 (111,874) (190,376) - 2,769,179 1,186,432 (1,582,747) 11,905,332 | (298,709) - - 4,520,504 1,300,563 (3,219,941) 9,244,941 | (107,559) - 4,314,353 2,199,447 (2,114,906) 7,564,547 | (109,710) - 4,214,304 2,199,447 (2,014,857) 5,905,224 | (111,904) - 4,114,922 2,747,010 (1,367,912) 4,814,858 | (114,142) - 2,416,656 2,747,010 330,354 5,371,510 | 2,424,372 2,747,010 322,638 5,946,609 |

Option 2 – Selected by Operating Board

| | | | | | 2014 | 2015 | 2016 |
|------------|--|--|--|--|---|---|--|
| 2003 | 2010 | 2011 | 2012 | 2013 | 2017 | 2013 | 2010 |
| | 33,500,624 | 34,131,392 | 34,252,425 | 34,591,548 | 34,748,272 | 34,772,304 | 38,814,42 |
| | 26,767,095 | 28,295,113 | 28,861,015 | 29,438,236 | 30,027,001 | 30,627,541 | 31,240,09 |
| | 60,267,719 | 62,426,505 | 63,113,441 | 64,029,784 | 64,775,273 | 65,399,845 | 70,054,52 |
| | (2,195,194) | | | | | | |
| | | | | | | | (12,661,4 |
| | | | | | | | (3,572,7 |
| | 44,106,274 | 47,959,984 | 48,487,731 | 49,191,724 | 49,764,456 | 50,244,291 | 53,820,3 |
| | | | | | | | |
| | - | - | | | | - | - |
| | | | | | | | 53,820,3 |
| | 41,860,023 | 45,025,140 | 52,347,274 | 51,385,934 | 50,589,745 | 50,258,726 | 53,744,8 |
| | (2,246,251) | (2,934,844) | 3,859,542 | 2,194,210 | 825,289 | 14.435 | (75,4 |
| | | | | | | | |
| (48,047) | (3,316,573) | (301,143) | (2,848,896) (133,898) | (37,063) | (359) | 661 | (60,6 |
| | | | | | | | |
| | | | | | | | |
| | 17,727,969 | 17,477,844 | 17,329,624 | 17,220,237 | 18,445,610 | 18,575,665 | 18,495,2 |
| | | | | | | | 11,659, |
| | | 28,037,944 | 28,100,926 | 28,206,965 | 29,652,073 | 30,006,257 | 30,154,4 |
| | | | | | | | |
| | (5,167,961) | | | | | (5,423,236) | (5,450,0 |
| | (1,458,286) | | | | | | (1,537,8 |
| | 20,926,093 | 21,540,519 | 21,588,906 | 21,670,372 | 22,780,595 | 23,052,701 | 23,166, |
| | | | 1 000 000 | 1 450 000 | | | |
| | - | - | | | 22 500 5 | | |
| | | | | | | | 23,166,5 |
| | 19,860,366 | 20,222,377 | 23,305,336 | 23,122,132 | 22,689,578 | 22,978,703 | 22,922, |
| | (1,065,727) | (1,318,142) | 1,716,430 | 1,451,761 | (91,017) | (73,999) | (244, |
| (441 411) | | | | | | | (364, |
| (20,756) | (71,820) | (137,149) | (62,922) | 2,353 | (1,814) | (5,377) | (17, |
| | | | | | | | |
| | | | | | | | |
| | N/A | N/A | N/A | N/A | N/A | N/A | N |
| | 635,077 | 979,548 | 999,139 | 1,019,121 | 1,039,504 | 1,060,294 | 1,081, |
| | 635,077 | 979,548 | 999,139 | 1,019,121 | 1,039,504 | 1,060,294 | 1,081, |
| | | | | | | | |
| | (39,364) | (60,715) | | | | | (67,0 |
| | - | - | | | | | (61,0 |
| | 572,581 | 918,832 | 880,258 | 897,863 | 915,821 | 934,137 | 952,8 |
| | | | | | | | |
| | - | | | | | | |
| | - | | | | | | |
| | | | | | | | 952,8 |
| | 545,420 | 802,000 | 841,749 | 994,000 | 970,050 | 957,440 | 938,8 |
| | (29,160) | (56,227) | (38,509) | 96,802 | 60,235 | 23,309 | (13,9 |
| (23,050) | (53,294) | (112,025) | (155,799) | (66,320) | (9,201) | 13,675 | |
| (1,083) | (2,505) | (5,265) | (7,323) | (3,117) | (432) | 643 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | N |
| | | | | | | | N |
| | | - | - | - | - | - | |
| | - | | | | | | |
| | - | - | - | - | - | - | |
| | | | | | | | |
| | | | | | | | |
| | | | | - | | | |
| | - | - | | - | | | |
| | | | | | - | - | |
| | - | - | - | - | | | |
| (14) | (15) | (16) | (16) | (17) | (18) | (19) | |
| (14) | | | | | (18) (1) | (19) | |
| | (15) | (16) | (16) | (17) | | | |
| | (15) | (16) | (16) | (17) | (1) | (1) | |
| | (15) (1) 3,071,429 | (16) (1) 4,819,213 | (16) (1) 4,714,107 | (17) (1) 4,609,740 | 4,506,129 | 2,698,031 | 2,708,6 |
| | (15) (1) 3,071,429 3,071,429 | (16) | (16) | (17) | (1) | (1) | 2,708,6 |
| | 3,071,429 3,071,429 (111,874) | (16) (1) 4,819,213 4,819,213 | (16) (1) 4,714,107 4,714,107 | (17) (1) 4,609,740 4,609,740 | 4,506,129 4,506,129 | 2,698,031 2,698,031 | 2,708,0 2,708,0 |
| | 3,071,429 3,071,429 (111,874) (190,376) | (16) (1) 4,819,213 4,819,213 (298,709) | (16) (1) 4,714,107 4,714,107 (292,194) | (17) (1) 4,609,740 4,609,740 (285,725) | 4,506,129 4,506,129 (279,303) | 2,698,031 2,698,031 (167,232) | 2,708,6 2,708,6 (167,8 |
| | 3,071,429 3,071,429 (111,874) (190,376) | (16) (1) 4,819,213 4,819,213 | (16) (1) 4,714,107 4,714,107 | (17) (1) 4,609,740 4,609,740 | 4,506,129 4,506,129 | 2,698,031 2,698,031 | 2,708, 2,708, (167, |
| | 3,071,429 3,071,429 (111,874) (190,376) | (16) (1) 4,819,213 4,819,213 (298,709) | (16) (1) 4,714,107 4,714,107 (292,194) (107,559) | (17) (1) 4,609,740 4,609,740 (285,725) (109,710) | (1) 4,506,129 4,506,129 (279,303) (111,904) | (1) 2,698,031 2,698,031 (167,232) (114,142) | 2,708, 2,708, (167, (116, |
| | (15) (1) 3,071,429 3,071,429 (111,874) (190,376) | (16) (1) 4,819,213 4,819,213 (298,709) - - 4,520,504 | (16) (1) 4,714,107 4,714,107 (292,194) (107,559) 4,314,353 | (17) (1) 4,609,740 4,609,740 (285,725) (109,710) 4,214,304 | 4,506,129 4,506,129 (279,303) (111,904) | 2,698,031 2,698,031 (167,232) (114,142) 2,416,656 | 2,708, 2,708, (167, (116, |
| | (15) (1) 3,071,429 3,071,429 (111,874) (190,376) - - 2,769,179 1,186,432 | (16) (1) 4,819,213 4,819,213 (298,709) - - 4,520,504 1,300,563 | (16) (1) 4,714,107 4,714,107 (292,194) (107,559) - 4,314,353 2,199,447 | (17) (1) 4,609,740 4,609,740 (285,725) (109,710) - 4,214,304 2,199,447 | 4,506,129 4,506,129 (279,303) (111,904) - 4,114,922 2,747,010 | 2,698,031 2,698,031 (167,232) (114,142) - 2,416,656 2,747,010 | 2,708, 2,708, (167, (116, 2,424, 2,747, |
| | (15) (1) 3,071,429 3,071,429 (111,874) (190,376) | (16) (1) 4,819,213 4,819,213 (298,709) - - 4,520,504 | (16) (1) 4,714,107 4,714,107 (292,194) (107,559) 4,314,353 | (17) (1) 4,609,740 4,609,740 (285,725) (109,710) 4,214,304 | 4,506,129 4,506,129 (279,303) (111,904) | 2,698,031 2,698,031 (167,232) (114,142) 2,416,656 | 2,708, 2,708, (167, (116, 2,424, 2,747, |
| (1) | (15) (1) 3,071,429 3,071,429 (111,874) (190,376) - 2,769,179 1,186,432 (1,582,747) | (16) (1) 4,819,213 4,819,213 (298,709) - - 4,520,504 1,300,563 (3,219,941) | (16) (1) 4,714,107 4,714,107 (292,194) (107,559) - 4,314,353 2,199,447 (2,114,906) | (17) (1) 4,609,740 4,609,740 (285,725) (109,710) - 4,214,304 2,199,447 (2,014,857) | 4,506,129 4,506,129 (279,303) (111,904) - 4,114,922 2,747,010 (1,367,912) | 2,698,031 2,698,031 (167,232) (114,142) 2,416,556 2,747,010 330,354 | 2,708, 2,708, (167, (116, 2,424, 2,747, 322, |
| | (15) (1) 3,071,429 3,071,429 (111,874) (190,376) - - 2,769,179 1,186,432 | (16) (1) 4,819,213 4,819,213 (298,709) - - 4,520,504 1,300,563 | (16) (1) 4,714,107 4,714,107 (292,194) (107,559) - 4,314,353 2,199,447 | (17) (1) 4,609,740 4,609,740 (285,725) (109,710) - 4,214,304 2,199,447 | 4,506,129 4,506,129 (279,303) (111,904) - 4,114,922 2,747,010 | 2,698,031 2,698,031 (167,232) (114,142) - 2,416,656 2,747,010 | 2,708,6 2,708,6 (167,8 (116,- 2,424,1 322,6 5,946,6 279,- |
| 12,882,597 | (15) (1) 3.071.429 3.071.429 (111.874) (190.376) - - 2.769.179 1.186.432 (1.582.747) 11.905.332 | (16) (1) 4.819.213 4.819.213 (298.709) - - - 4.520.504 1.300.563 (3.219.941) 9.244.941 | (16) (1) 4.714,107 4.714,107 (292,194) (107,559) - 4.314,353 2,199,447 (2,114,906) 7,564,547 | (17) (1) 4,609,740 4,609,740 (285,725) (109,710) - 4,214,304 2,199,447 (2,014,857) 5,905,224 | 4,506,129 4,506,129 (279,303) (111,904) - 4,114,922 2,747,010 (1,367,912) 4,814,858 | 2,698,031 2,698,031 (167,232) (114,142) - 2,416,656 2,747,010 330,354 5,371,510 | 2,708,4 2,708,6 (167,4 (116,- 2,424,1 322,6 5,946,1 |
| | (1,022,276) (48,047) (48,047) | 2009 2010 33,500,624 26,767,095 60,267,719 (2,195,194) (10,892,997) (3,073,654) 44,106,274 41,860,023 (2,246,251) (1,022,276) (3,316,573) (48,047) (155,879) 17,727,969 10,865,874 28,593,844 (1,041,504) (5,167,961) (1,458,286) 20,926,093 20,926,093 19,860,366 (1,065,727) (441,611) (1,528,094) (20,756) (71,820) N/A 635,077 | 2009 2010 2011 33,500,624 34,131,392 26,767,095 28,295,113 60,267,719 62,426,505 (2,195,194) (10,892,597) (11,282,769) (3,073,654) (3,183,752) 44,106,274 47,959,984 41,860,023 45,025,140 (2,246,251) (2,934,844) (1,022,276) (3,316,573) (6,407,296) (48,047) (155,879) (301,143) 17,727,969 17,477,844 10,865,874 10,560,100 28,593,844 28,037,944 (1,041,504) (5,167,961) (5,067,489) (1,458,286) (1,429,935) 20,926,093 21,540,519 19,860,366 20,222,377 (1,065,727) (1,318,142) (441,611) (1,528,094) (2,918,056) (20,756) (71,820) (137,149) N/A N/A N/A Signary (3,24) (1,083,077) 979,548 (33,132) (39,364) (60,715) 5,72,581 918,832 543,420 862,606 (29,160) (56,227) (23,050) (53,294) (112,025) (1,083) (2,505) (5,265) | 2009 2010 2011 2012 | 2009 2010 2011 2012 2013 | 2019 2010 2011 2012 2013 2014 | 33,500,624 34,131,92 34,252,425 34,591,548 34,748,272 34,772,204 26,767,095 28,951,13 28,861,015 29,48,82,56 300,72,001 30,672,541 (0,926,776) 22,951,13 28,861,015 29,48,82,56 300,72,001 30,672,541 (1,952,549) (1,108,92,97) (11,282,769) (11,466,924) (11,572,541) (11,707,276) (11,801,61) (3,073,654) (3,183,752) (3,218,785) (3,365,519) (3,303,339) (3,335,392) (44,106,774 47,959,984 48,48,773,1 49,191,724 49,764,456 59,224,291 44,106,274 47,959,984 52,287,731 51,291,724 59,564,456 59,224,291 (2,246,251) (2,293,844) 38,895,542 21,94,210 825,289 14,435 (1,022,276) (3,316,573) (6,407,296) (2,548,896) (788,585) (359) 14,699 (48,047) (155,879) (301,143) (133,589) (37,063) (17) 661 17,772,969 17,477,844 17,329,624 17,220,237 18,445,610 18,575,665 11,085,574 10,560,100 10,771,902 10,986,728 11,206,463 11,470,929 22,825,93,844 28,937,944 28,109,266 (1,439,349) (1,438,349) (1,616,756) (1,617,561) (5,676,889) (5,578,873) (5,598,089) (5,392,222) (5,422,256) (1,011,294) (1,438,269) (1,438,269) (1,433,147) (1,438,559) (1,439,449) (1,438,269) (1,439,479) (1,438,4 |

Rate Making

The essence of rate making is to determine the unit price by dividing the revenues to be collected by the units of service. Water rates are set in whole penny amounts and are seasonally differentiated (i.e. there is a peak rate and an off-peak rate). Seasonal rate rounding was selected to generate revenues that were closest to the annual revenue requirement while maintaining the existing ratio of peak rate to off-peak rate of 1.45 to 1.5.

Transition Discount

Until January 1, 2012, wholesale customers paid a \$0.60 per CCF "Interim Growth Surcharge" on consumption above 1982 levels (ie. their "Old Water Allowance"). The revenue from this surcharge discounted the base rate charged to wholesale customers (for an example of this mechanism, see the "2011" column on page 1 of this rate study). Because this surcharge has expired, customers who have not been paying the surcharge will experience a significant rate increase, while those paying growth charges may experience a rate decrease.

Demand Volumes

Since the revenue generated by rates is dependent on the amount of water sold, the forecast of demand has an impact on rates. Historically, Seattle has underestimated the rate of decline in demand, resulting in significantly negative true up balances. The overall forecast of demand used in this rate study is downward by 1.5% per year. This continues the trend in weather adjusted purchases seen over the last 10 years.

| ccf | 2011 | 2012 | 2013 | 2014 |
|-------------------------|------------|------------|------------|------------|
| Full and Partial | | | | |
| Peak | 5,697,465 | 5,528,562 | 5,359,661 | 5,190,758 |
| Off-Peak | 7,082,444 | 6,868,726 | 6,655,007 | 6,441,288 |
| Total | 12,779,909 | 12,397,288 | 12,014,668 | 11,632,046 |
| CWA | | | | |
| Base Block | 14,785,428 | 14,785,428 | 14,785,428 | 14,785,428 |
| Supplemental Block | 1,463,904 | 1,463,904 | 1,463,904 | 1,463,904 |
| Actual Demand: Peak | 5,732,938 | 5,748,146 | 5,763,355 | 5,778,563 |
| Actual Demand: Off-Peak | 6,710,986 | 6,728,789 | 6,746,592 | 6,764,394 |
| Actual Demand: Total | 12,443,924 | 12,476,935 | 12,509,947 | 12,542,957 |
| Northshore | | | | |
| Annual Block | 4,172,126 | 4,172,126 | 4,172,126 | 4,172,126 |
| Actual Demand: Peak | 1,013,685 | 990,777 | 967,869 | 944,961 |
| Actual Demand: Off-Peak | 1,307,769 | 1,278,215 | 1,248,662 | 1,219,108 |
| Actual Demand: Total | 2,321,454 | 2,268,992 | 2,216,531 | 2,164,069 |
| Seattle as-if-wholesale | | | | |
| Peak | 11,014,894 | 10,865,252 | 10,715,611 | 10,565,969 |
| Off-Peak | 17,599,988 | 17,361,029 | 17,122,071 | 16,883,111 |
| Total | 28,614,882 | 28,226,281 | 27,837,681 | 27,449,080 |

Cost Pools and Regional Rates

Full and partial contract customers technically have separate rates for each cost pool: Existing Supply, Existing Transmission, New Supply, and New Transmission. In the past, these rates were not published individually. This rate study establishes separate rates, since Renton pays for three of the cost pools through rates, and one through a block payment.

Individual rates by cost pool are below for both options.

Option 1 – Not selected by Operating Board

| | 2012 | | 201 | 3 | 2014 | |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Rates per CCF | Off-Peak | Peak | Off-Peak | Peak | Off-Peak | Peak |
| Existing Supply Existing Transmission | \$1.01 \$0.45 | \$1.50 \$0.67 | \$1.04 \$0.46 | \$1.55 \$0.68 | \$1.07 \$0.49 | \$1.59 \$0.73 |
| New Supply | \$0.43 | \$0.02 | \$0.02 | \$0.03 | \$0.02 | \$0.03 |
| New Transmission | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

Option 2 -Selected by Operating Board

| | 2012 | | 201 | .3 | 2014 | |
|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Rates per CCF | Off-Peak | Peak | Off-Peak | Peak | Off-Peak | Peak |
| Existing Supply Existing Transmission New Supply New Transmission | \$1.04 \$0.46 \$0.02 \$0.00 | \$1.54 \$0.69 \$0.02 \$0.00 | \$1.04 \$0.47 \$0.02 \$0.00 | \$1.54 \$0.69 \$0.03 \$0.00 | \$1.04 \$0.47 \$0.02 \$0.00 | \$1.55 \$0.69 \$0.03 \$0.00 |

For regional rates, underlying costs were actually not a factor in the large increase from 2011 to 2012. The rate drivers for 2012 are:

| Declines in demand | 11 % |
|----------------------------|------|
| 12/31/2011 true up balance | 9 % |
| Growth charge expiration | 8 % |
| Total | 28 % |

SUBREGIONAL RATES AND INDIVIDUAL BLOCK PAYMENTS

Southwest Sub-Region

Calculating rates for the Southwest Sub-region uses data from the main rate study, but is done as a separate step. The Southwest Sub-region is comprised of six "Facilities" as defined in the contract. For each Facility, total O&M and utility basis capital costs are determined. Then, for each of the six facilities, the percent used by all wholesale customers (as opposed to Seattle) is determined, and that percent is applied to the O&M and asset cost for the corresponding facility. These are combined to form the Southwest Sub-region cost pool.

Capital Cost

During the main rate study, certain existing assets and future/planned assets were identified as Subregional. The utility basis cost was calculated using the same method as for the regional cost pools.

0&M

O&M cost tracking for sub-regions was done a little differently than for the regional cost pools. Location codes are pulled from the financial system, rather than using budgeted spending per activity code. For each Facility, the O&M costs from the preliminary 2010 true up were carried forward.

Setting Rates

The procedures above produce a total Sub-regional cost for all wholesale customers served by the sub-region. This total cost was divided by the total flow for all wholesale customers in the sub-region, regardless of the exact location of their wholesale meter, to produce a rate per ccf.

| | 2009 true | up allocators | | | | | | | |
|---|-----------|---------------|-------------------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | | 2009 | 2010 projected | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | 2007 | projecteu | 2011 | 2012 | 2013 | 2014 | 2015 | 2010 |
| 585 Zone Facilities | | | | | | | | | |
| Operations Costs | | | 3,579 | 3,579 | 3,579 | 3,579 | 3,579 | 3,579 | 3,579 |
| Asset Recovery Costs | | | 455,365 | 538,823 | 528,249 | 517,303 | 506,357 | 495,411 | 484,283 |
| Total | | | 458,945 | 542,402 | 531,828 | 520,882 | 509,936 | 498,990 | 487,862 |
| Allocation to Southwest Subregion Customers | 18.9% | | 86,741 | 102,514 | 100,515 | 98,447 | 96,378 | 94,309 | 92,206 |
| West Seattle Reservoir | | | | | | | | | |
| Operations Costs | | | 2,569 | 2,569 | 2,569 | 2,569 | 2,569 | 2,569 | 2,569 |
| Asset Recovery Costs | | | 2,508,204 | 3,088,823 | 3,037,036 | 3,014,656 | 2,969,510 | 2,917,284 | 2,865,058 |
| Total | | | 2,510,774 | 3,091,393 | 3,039,606 | 3,017,226 | 2,972,079 | 2,919,853 | 2,867,628 |
| Allocation to Southwest Subregion Customers | 1.7% | | 42,683 | 52,554 | 51,673 | 51,293 | 50,525 | 49,638 | 48,750 |
| West Seattle Pipeline | | | | | | | | | |
| Operations Costs | | | 7,437 | 7,437 | 7,437 | 7,437 | 7,437 | 7,437 | 7,437 |
| Asset Recovery Costs | | | 160,727 | 157,319 | 153,911 | 150,503 | 147,094 | 143,686 | 140,278 |
| Total | | | 168,164 | 164,756 | 161,347 | 157,939 | 154,531 | 151,123 | 147,715 |
| Allocation to Southwest Subregion Customers | 8.0% | | 13,453 | 13,180 | 12,908 | 12,635 | 12,362 | 12,090 | 11,817 |
| Des Moines Way Pipeline | | | | | | | | | |
| Operations Costs | | | 2,357 | 2,357 | 2,357 | 2,357 | 2,357 | 2,357 | 2,357 |
| Asset Recovery Costs | | | 10,698 | 10,254 | 9,811 | 9,368 | 8,924 | 8,481 | 8,038 |
| Total | | | 13,054 | 12,611 | 12,167 | 11,724 | 11,281 | 10,837 | 10,394 |
| Allocation to Southwest Subregion Customers (at 100%) | 100.0% | | 13,054 | 12,611 | 12,167 | 11,724 | 11,281 | 10,837 | 10,394 |
| Military Road Feeder | | | | | | | | | |
| Operations Costs | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asset Recovery Costs | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | | 0 | 0 | 0 | 0 | 0 | 0 | C |
| Allocation to Southwest Subregion Customers (at 100%) | 100.0% | | 0 | 0 | 0 | 0 | 0 | 0 | C |
| East Marginal Way Feeder | | | | | | | | | |
| Operations Costs | | | 0 | 0 | 0 | 0 | 0 | 0 | C |
| Asset Recovery Costs | | | 0 | 0 | 0 | 0 | 0 | 0 | C |
| Total | | | 0 | 0 | 0 | 0 | 0 | 0 | C |
| Allocation to Southwest Subregion Customers (at 100%) | 100.0% | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Cost Allocated to SW Subregion | | | 155,931 | 180,859 | 177,264 | 174,099 | 170,547 | 166,874 | 163,167 |
| | | | 133,731 | 100,039 | 90,000 | 100,000 | 100,702 | 100,074 | 103,107 |
| True Up balance applied | | | 155 021 | 100.050 | , | | | 166.074 | 162.167 |
| Amount to be collected through rates Flow | | | 155,931 | 180,859 | 267,264 4,197,000 | 274,099 4,010,000 | 271,249 3,824,000 | 166,874 3,638,000 | 163,167 3,451,000 |
| Calculated Rates | | | | | 0.064 | 0.068 | 0.071 | 0.046 | 0.04 |
| Rounded rates, per ccf | | | | | \$ 0.06 | \$ 0.07 | \$ 0.07 | \$ 0.05 | \$ 0.05 |
| Expected revenues | | | 136,613 | 219,200 | 251,820 | 280,700 | 267,680 | 181,900 | 172,550 |
| CY (under)/Over payment | | | (19,318) | 38,341 | 74,556 | 106,601 | 97,133 | 15,026 | 9,383 |
| True up Balance | | (250,234) | (281,314) | (256,195) | (193,680) | (96,182) | (3,569) | 11,290 | 21,204 |
| Interest on above, affect following year | | (11,761) | (13,222) | (12,041) | (9,103) | (4,521) | (168) | 531 | 997 |

East Sub-Region

The East sub-region consists of four segments of the Mercer Island Pipeline, each serving different combinations of wholesale customers. Because the segments are in series (each segment feeds the next one) cost allocation is a sequential calculation based on flows.

Capital Cost and O&M

The utility basis cost of each segment of the existing pipeline was determined using length to divide the total cost. No CIP items were identified that affect the Mercer Island Pipeline. For each segment, the 2006 true up O&M costs were carried forward.

Setting Rates

Consistent with the contract, a rate was calculated for each segment of the pipeline and the rate will be applied to flow through wholesale meters on that segment. These rates and the revenues they generate will be tracked and trued up separately for each segment. As a result, Mercer Island, who has meters on two different segments, will experience two different Sub-regional surcharges on their monthly bills.

| Split Cost to Segment by Flows | | 2010 | 2011 | 2012 | 2012 | 2014 | 2015 | 2017 |
|---|-----------|------------------|------------------|----------------------------|----------------------------|----------------------------|-------------------|--------------------|
| C 1 | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Segment 1 | | 15,788 | 15,401 | 15,013 | 14,626 | 14,238 | 13,850 | 13,463 |
| Assets O&M | | 3,351 | 8,751 | 3,487 | 3,700 | 4,005 | 4,422 | 4,980 |
| | | | | | | | | |
| Cost | | 19,140 | 24,151 | 18,500 | 18,326 | 18,243 | 18,272 | 18,443 |
| Bellevue Taps | | 2,297 | 2,899 | 2,220 | 2,200 | 2,190 | 2,193 | 2,214 |
| Downstream | | 16,843 | 21,253 | 16,280 | 16,126 | 16,054 | 16,079 | 16,229 |
| Segment 2 | | | | | | | | |
| Assets | | 21,968 | 21,443 | 20,919 | 20,394 | 19,870 | 19,345 | 18,821 |
| O&M | | 4,727 | 4,727 | 4,727 | 4,727 | 4,727 | 4,727 | 4,727 |
| Cost | | 43,537 | 47,423 | 41,925 | 41,247 | 40,650 | 40,151 | 39,777 |
| Bellevue Taps | | 7,887 | 8,591 | 7,595 | 7,472 | 7,364 | 7,274 | 7,206 |
| Downstream | | 35,650 | 38,832 | 34,330 | 33,775 | 33,286 | 32,878 | 32,571 |
| Segment 3 | | | | | | | | |
| Assets | | 29,520 | 28,795 | 28,070 | 27,345 | 26,621 | 25,896 | 25,171 |
| O&M | | 6,266 | 6,266 | 6,266 | 6,266 | 6,266 | 6,266 | 6,266 |
| Cost | | 71,436 | 73,893 | 68,666 | 67,387 | 66,173 | 65,040 | 64,008 |
| Mercer Island & Seattle Taps | | 16,914 | 17,496 | 16,258 | 15,955 | 15,668 | 15,400 | 15,155 |
| Downstream | | 54,522 | 56,397 | 52,408 | 51,431 | 50,505 | 49,640 | 48,853 |
| Segment 4 | | | | | | | | |
| Assets | | 15,634 | 15,250 | 14,866 | 14,483 | 14,099 | 13,715 | 13,331 |
| O&M | | 3,319 | 3,319 | 3,319 | 3,319 | 3,319 | 3,319 | 3,319 |
| Cost | | 73,475 | 74,966 | 70,593 | 69,233 | 67,922 | 66,674 | 65,503 |
| Mercer Island Taps | | 73,475 | 74,966 | 70,593 | 69,233 | 67,922 | 66,674 | 65,503 |
| Segment 3 Rate Calc: Total Cost Allocated to Segment 3 True Up balance applied Amount to be collected through rates | 2009 | 16,914 16,914 | 17,496 17,496 | 16,258 15,000 31,258 | 15,955 17,000 32,955 | 15,668 15,000 30,668 | 15,400 15,400 | 15,155 15,155 |
| Flow | | 10,914 | 17,490 | 206,757 | 201,017 | 195,494 | 189,768 | 184,259 |
| Calculated Rates | | | | 0.151 | 0.164 | 0.157 | 0.081 | 0.082 |
| Rounded rates | | | | 0.15 | 0.16 | 0.16 | 0.08 | 0.08 |
| Expected revenues | | 10,119 | 10,615 | 31,014 | 32,163 | 31,279 | 15,181 | 14,741 |
| CY (under)/Over payment | | (6,795) | (6,881) | 14,755 | 16,207 | 15,611 | (218) | (415) |
| • • | | | | | | | 1 | |
| True up Balance | (26,035) | (34,054) | (42,535) | (29,779) | (14,971) | (64) | (285) | (713) |
| Interest on above, affect following year | (1,224) | (1,601) | (1,999) | (1,400) | (704) | (3) | (13) | (34) |
| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Segment 4 Rate Calc: | | | | | 20.111 | 2= | 22 1 | |
| Total Cost Allocated to Segment 4 | | 73,475 | 74,966 | 70,593 | 69,233 | 67,922 | 66,674 | 65,503 |
| True Up balance applied | | | | 45,000 | 50,000 | 50,000 | 66 (7) | 6F 500 |
| Amount to be collected through rates Flow | | | | 115,593 646,220 | 119,233 626,470 | 117,922 607,510 | 66,674 587,760 | 65,503 568,800 |
| Calculated Rates | | | | 0.179 | 0.190 | 0.194 | 0.113 | 0.115 |
| | | | | | | | | |
| Rounded rates Expected revenues | | 82,713 | 58,940 | 0.18 116,320 | 0.19 119,029 | 0.19 115,427 | 64,654 | 0.12 68,256 |
| | | | | | | | | |
| CY (under)/Over payment | | 9,238 | (16,026) | 45,726 | 49,797 | 47,505 | (2,020) | 2,753 |
| True up Balance | (115,522) | (111,713) | (132,990) | (93,514) | (48,112) | (2,869) | (5,024) | (2,507) |
| Interest on above, affect following year | (5,430) | (5,251) | (6,251) | (4,395) | (2,261) | (135) | (236) | (118) |

Notes: Bellevue is part of Cascade, so their "rate" is a block payment

Numbers may not sum due to rounding

ERU Fee

The current Facilities Charge rate of \$783/ERU became effective 1/1/2011. This charge recovers the cost of durable investments made as part of the 1% conservation plan. Per Operating Board guidance, this charge is expected to be updated effective 1/1/2014.

North Bend Treatment Discount

North Bend's Contract is designed to use the published rates for Full and Partial Requirements (the "Basic Services Rate" defined in the contract) with a discount for untreated water. This discount is mentioned in Section IV.C.2 and detailed in Attachment 1, Exhibit C.

The table below shows the calculation of this discount for 2012-2016.

| Treatment Costs | 2012 | 2013 | 2014 | 2015 | 2016 |
|---|------------|------------|------------|------------|------------|
| | | | | | |
| Cedar Treatment NBV | 79,598,131 | 77,084,446 | 74,569,602 | 72,206,801 | 69,842,886 |
| Cedar Treatment Depreciation | 2,614,715 | 2,617,806 | 2,620,961 | 2,471,047 | 2,547,827 |
| Cedar Treatment Util Basis Cost | 7,549,799 | 7,397,041 | 7,244,276 | 6,947,868 | 6,878,086 |
| Tolt Treatment NBV | 63,477,279 | 61,135,963 | 58,794,647 | 56,453,331 | 54,112,014 |
| Tolt Treatment Depreciation | 2,341,316 | 2,341,316 | 2,341,316 | 2,341,316 | 2,341,316 |
| Tolt Treatment Util Basis Cost | 6,276,908 | 6,131,746 | 5,986,584 | 5,841,423 | 5,696,261 |
| Landsburg Chlorination NBV | _ | _ | _ | 2,425,515 | 2,352,015 |
| Landsburg Chlorination Depreciation | | _ | _ | 2,123,313 | 73,500 |
| Landsburg Chlorination Util Basis Cost | - | - | - | 150,382 | 219,325 |
| | | | | | |
| O&M Budget Items (including overhead) | | | | | |
| N050302 TOLT DBO CONTRACT PAYMENTS | 3,909,859 | 3,988,057 | 4,067,818 | 4,149,174 | 4,232,158 |
| N050303 CEDAR DBO CONTRACT PAYMENTS | 3,102,559 | 3,164,610 | 3,227,903 | 3,292,461 | 3,358,310 |
| N750705 TOLT DBO MANAGEMENT COSTS | 433,205 | 441,869 | 450,707 | 459,721 | 468,915 |
| N750707 CEDAR DBO MANAGEMENT COSTS | 936,460 | 955,189 | 974,293 | 993,779 | 1,013,654 |
| N654003 (CEDAR) CHOLRINATION FAC O&M | 841,300 | 858,126 | 875,288 | 892,794 | 910,650 |
| N654004 FLUORIDATION PROGRAM O&M | 521,469 | 531,898 | 542,536 | 553,387 | 564,455 |
| N790301 SWTR MONITORING, REPRTING & ADM | 194,170 | 198,054 | 202,015 | 206,055 | 210,176 |
| N790302 TCR MONITORING, REPRTING & ADM | 1,002,456 | 1,022,505 | 1,042,955 | 1,063,814 | 1,085,091 |
| N790303 LCR MONITORING, REPRTING & ADM | 48,259 | 49,224 | 50,208 | 51,213 | 52,237 |
| N790304 DBP MONITORING, REPRTING & ADM | 87,058 | 88,800 | 90,576 | 92,387 | 94,235 |
| N790306 REGULATORY SUPPORT | 116,793 | 119,129 | 121,512 | 123,942 | 126,421 |
| O&M Cost | 11,193,590 | 11,417,462 | 11,645,811 | 11,878,727 | 12,116,302 |
| Total Regional Cost related to treatment | 25,020,296 | 24,946,249 | 24,876,672 | 24,668,018 | 24,690,649 |
| | , , | , , | , , | , , | , , |
| CWA Base Block and NUD Allocation | 5,798,124 | 5,780,965 | 5,764,841 | 5,716,489 | 5,721,733 |
| Portion of regional cost to full and partial contract | 19,222,172 | 19,165,284 | 19,111,830 | 18,951,530 | 18,968,916 |
| Flow under full and partial contracts | 42,072,436 | 41,299,970 | 40,529,549 | 39,758,129 | 38,986,662 |
| Treatment discount per ccf | \$ 0.46 | \$ 0.46 | \$ 0.47 | \$ 0.48 | \$ 0.49 |

Renton New Supply Cost Pool

Renton's Partial Supply Contract has an alternative cost recovery mechanism for the New Supply Cost Pool since their entire retail area will participate in conservation yet only a small portion of the area is served by Seattle water. Beginning in 2012, Renton will be allocated 5.7% of the Renton New Supply cost pool, which differs from the regional New Supply cost pool in that it does not include the costs for conservation assets created prior to 2012. The resulting costs for Renton are shown below.

| | 2012 | 2013 | 2014 | 2015 | 2016 |
|---|-----------|-----------|-----------|-----------|-----------|
| Renton New Supply Block, starts in 2012 | | | | | |
| Asset cost | 1,887,000 | 1,924,739 | 1,963,235 | 2,002,499 | 2,042,550 |
| Allocation to Renton New Supply Block | 107,559 | 109,710 | 111,904 | 114,142 | 116,425 |
| O&M cost | 999,139 | 1,019,121 | 1,039,504 | 1,060,294 | 1,081,500 |
| Allocation to Renton New Supply Block | 56,951 | 58,090 | 59,252 | 60,437 | 61,645 |
| | | | | | |
| Total Renton New Supply Block | 164,510 | 167,800 | 171,156 | 174,579 | 178,071 |

Northshore Fixed Block

Northshore is allocated a portion of the Existing Supply and Existing Transmission cost pools. This allocation is 5.1%, which is 102% of Northshore's block volume (8.55 MGD) divided by the system firm yield (171 MGD).

Northshore also participates in the 1% conservation program and shares in the conservation portion of the New Supply and Facilities Charge cost pools. These costs have been combined into a "Conservation" cost pool and allocated to Northshore at 6.2%, which is 102% of Northshore's block volume (8.55 MGD) divided by the system firm yield minus the CWA block (171 MGD - 30.3 MGD).

Northshore's allocation of each year's costs is shown below. The surpluses shown in 2010 and 2011 are projections only.

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---|------------|------------|------------|------------|------------|------------|------------|
| Existing Supply Cost Pool | | | | | | | |
| Asset cost | 33,500,624 | 34,131,392 | 34,252,425 | 34,591,548 | 34,748,272 | 34,772,304 | 38,814,429 |
| O&M cost | 26,767,095 | 28,295,113 | 28,861,015 | 29,438,236 | 30,027,001 | 30,627,541 | 31,240,091 |
| Regional Cost | 60,267,719 | 62,426,505 | 63,113,441 | 64,029,784 | 64,775,273 | 65,399,845 | 70,054,520 |
| Allocation to NUD Block | 3,073,654 | 3,183,752 | 3,218,785 | 3,265,519 | 3,303,539 | 3,335,392 | 3,572,781 |
| Existing Transmission Cost Pool | | | | | | | |
| Asset cost | 17,727,969 | 17,477,844 | 17,329,624 | 17,220,237 | 18,445,610 | 18,575,665 | 18,495,287 |
| O&M cost | 10,865,874 | 10,560,100 | 10,771,302 | 10,986,728 | 11,206,463 | 11,430,592 | 11,659,204 |
| Regional Cost | 28,593,844 | 28,037,944 | 28,100,926 | 28,206,965 | 29,652,073 | 30,006,257 | 30,154,491 |
| Allocation to NUD Block | 1,458,286 | 1,429,935 | 1,433,147 | 1,438,555 | 1,512,256 | 1,530,319 | 1,537,879 |
| Conservation Block | | | | | | | |
| Asset cost | 3,071,429 | 4,819,213 | 4,714,107 | 4,609,740 | 4,506,129 | 2,698,031 | 2,708,690 |
| Allocation to NUD Conservation Block | 190,376 | 298,709 | 292,194 | 285,725 | 279,303 | 167,232 | 167,893 |
| O&M cost | 635,077 | 979,548 | 999,139 | 1,019,121 | 1,039,504 | 1,060,294 | 1,081,500 |
| Allocation to NUD Conservation Block | 39,364 | 60,715 | 61,930 | 63,168 | 64,432 | 65,720 | 67,035 |
| Total Conservation Block | 229,740 | 359,424 | 354,124 | 348,893 | 343,735 | 232,952 | 234,927 |
| | | | | | | | |
| Revenue for CY expenses, set during 2009-2011 rate study | 4,964,616 | 5,008,133 | | | | | |
| Expected CY expenses | 4,761,680 | 4,973,111 | 5,006,056 | 5,052,968 | 5,159,529 | 5,098,663 | 5,345,587 |
| Projected (Under)/Over Payment | 202,936 | 35,022 | | | | | |
| Amount due for CY Block expenses | | | 5,006,056 | 5,052,968 | 5,159,529 | 5,098,663 | 5,345,587 |
| Projected amount due for PY (under)/over payment, plus interest | | | (217,243) | (37,491) | | | |

Cascade Water Alliance Declining Bock

Cascade's Base Block is allocated a portion of the Existing Supply and Existing Transmission cost pools. This allocation is 18.1%, which is 102% of Cascade's Base block volume (30.3 MGD) divided by the system firm yield (171 MGD).

Cascade is also allocated subregional costs for the facilities that serve only Cascade or that Cascade shares with a few neighboring utilities (ie. the Cascade Sub-Region). Subregion A is the Bellevue Feeders, which are used solely by Cascade (NE 8th St., Bellevue Redmond Road, and NE 24th St). Segments 1 and 2 are the same as East Subregion 1 and 2, and the costs below were developed under that section. Segment 3 is specific to the CWA contract; the costs are currently zero because the West Marginal Way feeder is not yet identified separately in the asset schedule.

Cascade's Supplemental Block is a 3.0MGD block priced at the Full and Partial Commodity rates developed above. As such, Option 1 and Option 2 produce slightly different Supplemental Block costs.

Option 1 - Not selected by Operating Board

| | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------|---------------------------------|------------|------------|------------|------------|------------|------------|------------|
| BASEBLOCK | | | | | | | | |
| Existing Supply Cost Pool | | | | | | | | |
| Asset cost | | 33,500,624 | 34,131,392 | 34,252,425 | 34,591,548 | 34,748,272 | 34,772,304 | 38,814,429 |
| O&M cost | | 26,767,095 | 28,295,113 | 28,861,015 | 29,438,236 | 30,027,001 | 30,627,541 | 31,240,091 |
| Regional Cost | | 60,267,719 | 62,426,505 | 63,113,441 | 64,029,784 | 64,775,273 | 65,399,845 | 70,054,520 |
| Allocation to CWA | Base Block | 10,892,597 | 11,282,769 | 11,406,924 | 11,572,541 | 11,707,278 | 11,820,161 | 12,661,433 |
| Existing Transmission Co | ost Pool | | | | | | | |
| Asset cost | | 17,727,969 | 17,477,844 | 17,329,624 | 17,220,237 | 18,445,610 | 18,575,665 | 18,495,287 |
| O&M cost | | 10,865,874 | 10,560,100 | 10,771,302 | 10,986,728 | 11,206,463 | 11,430,592 | 11,659,204 |
| Regional Cost | | 28,593,844 | 28,037,944 | 28,100,926 | 28,206,965 | 29,652,073 | 30,006,257 | 30,154,49 |
| Allocation to CWA | A Base Block | 5,167,961 | 5,067,489 | 5,078,873 | 5,098,038 | 5,359,222 | 5,423,236 | 5,450,027 |
| Total Base Block | | 16,060,558 | 16,350,259 | 16,485,797 | 16,670,579 | 17,066,500 | 17,243,397 | 18,111,460 |
| CWA SUBREGIONAL CO | OST | | | | | | | |
| Cascade Subregion | ı A | | | | | | | |
| Operations Cost | S | N/A |
| Asset Recovery | Costs | 15,803 | 15,137 | 14,471 | 13,805 | 13,139 | 12,473 | 11,807 |
| Cascade Subregion | | 2,297 | 2,899 | 2,220 | 2,200 | 2,190 | 2,193 | 2,21 |
| calculated on East | t tab | | | | | | | |
| Cascade Subregion | | 7,887 | 8,591 | 7,595 | 7,472 | 7,364 | 7,274 | 7,200 |
| calculated on East | t tab | | | | | | | |
| Cascade Subregion | | | | | | | | |
| Operations Cost | | N/A |
| Asset Recovery | Costs | N/A |
| Total Subregional | | 25,988 | 26,627 | 24,287 | 23,477 | 22,693 | 21,940 | 21,227 |
| SUPPLEMENTAL BLOCK | K | | | | | | | |
| Calculated Suppler | mental Block Cost | 2,153,939 | 2,176,166 | 2,705,319 | 2,786,638 | 2,897,236 | 2,889,648 | 3,022,473 |
| Revenue for CY expenses, | set during 2009-2011 rate study | 18,619,492 | 18,737,467 | | | | | |
| Expected CY expenses | , , | 18,240,485 | 18,553,052 | 19,215,402 | 19,480,694 | 19,986,430 | 20,154,986 | 21,155,160 |
| Projected (Under)/Over Pa | ayment | 379,007 | 184,415 | | | | | |
| Amount due for CY Block | | | | 19,215,402 | 19,480,694 | 19,986,430 | 20,154,986 | 21,155,160 |
| | under payment, plus interest | | | (405,727) | (197,416) | | | |
| Total CWA cost | | | | 18,809,675 | 19,283,278 | 19,986,430 | 20,154,986 | 21,155,160 |

Option 2 –Selected by Operating Board

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---|--------------|------------|------------|------------|------------|------------|------------|
| BASEBLOCK | | | | | | | |
| Existing Supply Cost Pool | | | | | | | |
| Asset cost | 33,500,624 | 34,131,392 | 34,252,425 | 34,591,548 | 34,748,272 | 34,772,304 | 38,814,429 |
| O&M cost | 26,767,095 | 28,295,113 | 28,861,015 | 29,438,236 | 30,027,001 | 30,627,541 | 31,240,091 |
| Regional Cost | 60,267,719 | 62,426,505 | 63,113,441 | 64,029,784 | 64,775,273 | 65,399,845 | 70,054,520 |
| Allocation to CWA Base Block | 10,892,597 | 11,282,769 | 11,406,924 | 11,572,541 | 11,707,278 | 11,820,161 | 12,661,433 |
| Existing Transmission Cost Pool | | | | | | | |
| Asset cost | 17,727,969 | 17,477,844 | 17,329,624 | 17,220,237 | 18,445,610 | 18,575,665 | 18,495,287 |
| O&M cost | 10,865,874 | 10,560,100 | 10,771,302 | 10,986,728 | 11,206,463 | 11,430,592 | 11,659,204 |
| Regional Cost | 28,593,844 | 28,037,944 | 28,100,926 | 28,206,965 | 29,652,073 | 30,006,257 | 30,154,491 |
| Allocation to CWA Base Block | 5,167,961 | 5,067,489 | 5,078,873 | 5,098,038 | 5,359,222 | 5,423,236 | 5,450,027 |
| Total Base Block | 16,060,558 | 16,350,259 | 16,485,797 | 16,670,579 | 17,066,500 | 17,243,397 | 18,111,460 |
| CWA SUBREGIONAL COST | | | | | | | |
| Cascade Subregion A | | | | | | | |
| Operations Costs | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Asset Recovery Costs | 15,803 | 15,137 | 14,471 | 13,805 | 13,139 | 12,473 | 11,807 |
| Cascade Subregion B - Segment 1 | 2,297 | 2,899 | 2,220 | 2,200 | 2,190 | 2,193 | 2,214 |
| calculated on East tab | 2,27 | 2,055 | 2,220 | 2,200 | 2,170 | 2,173 | 2,211 |
| Cascade Subregion B - Segment 2 | 7,887 | 8,591 | 7,595 | 7,472 | 7,364 | 7,274 | 7,206 |
| calculated on East tab | 1,000 | 0,07 | 7,670 | ., | ,, | ., | ., |
| Cascade Subregion B - Segment 3 | | | | | | | |
| Operations Costs | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Asset Recovery Costs | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Subregional | 25,988 | 26,627 | 24,287 | 23,477 | 22,693 | 21,940 | 21,227 |
| Total Suin egional | 23,766 | 20,027 | 24,207 | 23,477 | 22,073 | 21,740 | 21,227 |
| SUPPLEMENTAL BLOCK | | | | | | | |
| Calculated Supplemental Block Cost | 2,153,939 | 2,176,166 | 2,779,050 | 2,793,690 | 2,801,277 | 2,852,782 | 3,052,288 |
| Rewenue for CY expenses, set during 2009-2011 rate stud | v 18,619,492 | 18,737,467 | | | | | |
| Expected CY expenses | 18,240,485 | 18,553,052 | 19,289,134 | 19,487,745 | 19,890,471 | 20,118,120 | 21,184,975 |
| Projected (Under)/Over Payment | 379,007 | 184,415 | | | | | |
| Amount due for CY Block expenses | | | 19,289,134 | 19,487,745 | 19,890,471 | 20,118,120 | 21,184,975 |
| Amount due for PY (over)/under payment, plus interest | | | (405,727) | (197,416) | | | |
| Total CWA cost | | | 18,883,407 | 19,290,329 | 19,890,471 | 20,118,120 | 21,184,975 |