## **Utility Rate Analysis**



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## 407 Wastewater Fund with METRO rate increase, elimination of Soos Ck charge of \$3.87 per month & allocating \$3.87 to City share of rate

		2011 Budget	User Charges	Funding Agreement	Metro	Fund Balance	Total
	REVENUE						
1	Metro Sewer Charges	438,396			438,396		438,396
1	Wastewater City Charges	212,006	212,006				212,006
2	Operating Revenue	650,402	212,006	•		-	650,402
3	Other Revenues						
4	Miscellaneous Reimbursements	1,000	1,000				1,000
5	Funding - PW Director Reimburse	49,612		49,612			49,612
6	Transfer in from Reserves	7,204	7,204				7,204
7	Investment Interest	400	400				400
8	Total Other Revenue	58,216	8,604	49,612	•		58,216
9	Total Revenue	708,618	220,610	49,612			708,618
10	Beginning Cash & Investments	93,949				93,949	93,949
11	Total Sources	802,567	220,610	49,612		93,949	802,567
12	EXPENDITURES						
13	Salaries and Benefits	163,519					
14	Furlough Days	(1,383)		-			
15	Total Salaries & Benefits	162,136	112,524	49,612			162,136
16	Office & Operating Supplies, Uniforms	3,200					
17	Allocated Office Supplies, Copies, Postag	6,945					
18	Fuel	2,300				*	
19	Small Tools	500					
20	Total Supplies	12,945	12,945				12,945
21	Insurance	10,672					
22	Repairs & Maintenance	1,500		- 1			
23	Travel, Memberships and Training	1,200					
24	Electricity & Gas	2,100		1			
25	Utilities	1,130		1		e .	
26	Telephone & Postage	5,300		- 1			
27	Legal Services	16,500			=	~; _==	
28	Audit - share of costs	6,250		1			
29	Cost Allocations	25,465					
30	Taxes Utility	36,150					
31	Taxes B&O	6,000					
32	Total Services & Charges	112,267	112,267				112,267
33	Subtotal Operating Expenses	287,348	237,736	49,612	Section 198		287,348
34	Other Expenses						
35	King County Metro	438,396			438,396		438,396
36	Total Payment Sewer Treatment	438,396			438,396		438,396
37	Total Operating Expenditures	725,744	237,736	49,612	438,396		725,744
38	Other Expenses						
39	Transfer for Equipment-CIP	10,000					10,000
40	Subtotal Other Expenditures	10,000	10,000				10,000
41	Total Expenditures	735,744	247,736	49,612	438,396		735,744
42	Ending Cash & Investments	66,823	(27,126)			93,949	
43	Total Uses	802,567	220,610	49,612	438,396	93,949	802,567

The Metro rate increase of \$4.20 from \$31.90 to 36.10 per month is a 13.5 % pass through rate increase. By reallocating the Soos charge to cover City expenditures. The 2011 operating short fall will be reduced from \$75,020 to \$27,126.

The three month expenditure reserve required by Resolution 08-850 is \$72,087. The ending Cash & Investment will still be short of that by \$5,264.

#### 407 Wastewater Fund with METRO rate increase, elimination of Soos Ck charge

		2011	User	Funding			
		Budget	Charges	Agreement	Metro	Fund Balance	Total
Harris and							EMSSUMMED CONTROL OF
	REVENUE						
1	Metro Sewer Charges	438,396		-	438,396		438,396
1	Wastewater City Charges	164,106	164,106				164,106
2	Operating Revenue	602,502	164,106	•	•	•	602,502
3	Other Revenues					1	
4	Miscellaneous Reimbursements	1,000	1,000				1,000
5	Funding - PW Director Reimburse	49,612		49,612			49,612
6	Transfer in from Reserves	7,204	7,204				7,204
7	Investment Interest	400	400				400
8	Total Other Revenue	58,216	8,604	49,612	-	STATE OF THE STATE	58,216
9	Total Revenue	660,718	172,710	49,612	•		660,718
10	Beginning Cash & Investments	93,949				93,949	93,949
11	Total Sources	754,667	172,710	49,612		93,949	754,667
12	EXPENDITURES						
13	Salaries and Benefits	163,519					
14	Furlough Days	(1,383)					
15	Total Salaries & Benefits	162,136	112,524	49,612			162,136
16	Office & Operating Supplies, Uniforms	3,200					
17	Allocated Office Supplies, Copies, Postag	6,945					
18	Fuel	2,300					
19	Small Tools	500					
20	Total Supplies	12,945	12,945				12,945
21	Insurance	10,672			-	-	
22	Repairs & Maintenance	1,500					
23	Travel, Memberships and Training	1,200					
24	Electricity & Gas	2,100			\$5		
25	Utilities	1,130					
26	Telephone & Postage	5,300					
27	Legal Services	16,500					
28	Audit - share of costs	6,250			77		
29	Cost Allocations	25,465		12.	4.		
30 31	Taxes Utility Taxes B&O	36,150 6,000					
		112,267	112,267				112 267
32	Total Services & Charges Subtotal Operating Expenses	287,348	237,736	49,612			112,267 287,348
34	Other Expenses	207,340	237,730	45,012			201,340
35	King County Metro	438,396			438,396		438,396
36	Total Payment Sewer Treatment	438,396			438,396		438,396
37	Total Operating Expenditures	725,744	237,736	49,612	438,396		725,744
38	Other Expenses		237,730	75,012	430,350		123,144
39	Transfer for Equipment-CIP	10,000		I	-		10,000
40	Subtotal Other Expenditures	10,000	10,000				10,000
41	TOTAL SECTION OF THE PROPERTY	735,744	247,736	49,612	438,396		735,744
42	Ending Cash & Investments	18,923	(75,026)	15,012	430,330	93,949	18,923
	Total Uses	754,667	172,710	49,612	438,396	93,949	754,667
-5	The Metro rate increase of \$4.20 from \$3			CONTRACTOR OF THE PERSON NAMED IN COLUMN	Company of the Association of the	CONTRACTOR OF STREET	C. Constitution of the Con

The Metro rate increase of \$4.20 from \$31.90 to 36.10 per month is a 13.5 % pass through rate increase. The 2011 operating short fall will be reduced from \$75,026.

<sup>★</sup> The three month expenditure reserve required by Resolution 08-850 is \$72,087. The ending Cash & Investment will be short of that by \$53,164.



#### ORDINANCE NO. 10-955

AN ORDINANCE OF THE CITY OF BLACK DIAMOND, KING COUNTY, WASHINGTON, AMENDING SECTION 13.24.010 OF THE BLACK DIAMOND MUNICIPAL CODE RELATING TO SEWER RATES

**WHEREAS,** the City of Black Diamond is a municipal corporation operating under the laws of the state of Washington as a code city pursuant to Chapter 35A of the Revised Code of Washington; and

**WHEREAS**, as a code city, the legislative body of the City of Black Diamond is vested with all powers possible for a city or town to have under the Constitution of this state, and not specifically denied to code cities by law; and

**WHEREAS**, the City of Black Diamond is authorized, pursuant to RCW 35A.21.150, to create, and has created, a sanitary sewerage system pursuant to RCW Ch. 35.67; and

**WHEREAS**, RCW Ch. 35.67 authorizes and grants to code cities, among other things, full jurisdiction and authority to manage, regulate, and control sanitary sewer systems, to compel connection to such sewerage systems, to set rates and charges for services, to collect delinquent charges, and to impose and foreclose upon liens for non-payment; and

**WHEREAS**, the City of Black Diamond has, pursuant to the above described authority, adopted procedures and requirements applicable to billing and collection of charges and fees for sewerage service, which procedures and requirements are codified in Title 13 of the Black Diamond Municipal Code; and

WHEREAS, the City of Black Diamond has contracted with King County Metro for wastewater conveyance and treatment services; and

WHEREAS, King County Metro bills the City of Black Diamond sanitary sewer utility for such services based upon its monthly rate and the number of customers the City's sanitary sewer utility serves, which cost become an expense to the City sanitary sewer utility; and

**WHEREAS**, King County Metro has notified the City of Black Diamond that their base rate will increase by \$4.20 per month per residential customer and the rate for all other users will increase by \$1.09 per each 100 cubic feet of water consumed per month in excess of 750 cubic feet; and

**WHEREAS** the City needs to increase its revenue by the imposition of new sewer rates of the same amount per month to cover the King County Metro increase; and

WHEREAS, the wastewater operating fund has required a financial subsidy from the capital reserve fund of \$50,000 for each of the last two years and will require a additional subsidy of approximately \$75,000 in year 2011 unless utility revenues increase; and

WHEREAS, the sanitary sewer utility rates include the costs of contracting with the Soos Creek Water and Sewer District for the conveyance of wastewater to the King County Sewer System (the "Soos Creek Wheeling Charge"); and

**WHEREAS**, the City sanitary sewer utility will no longer be obligated to pay the Soos Creek Wheeling Charge which will result in a reduction of utility operating costs; and

**WHEREAS**, a reallocation of the utility rates applied to the Soos Creek Wheeling Charge to payment of utility operating costs will allow the sanitary sewer utility to reduce the year 2011 subsidy from the capital reserve; and

WHEREAS the City Council finds, based upon the foregoing, that it would be in the best interest of the public health, safety and welfare to reallocate that portion of the rate revenues used to pay the Soos Creek Wheeling Charge to payment of sanitary sewer utility operating costs which reallocation will not result in an actual rate increase; and

WHEREAS, the City Council further finds, based upon the foregoing, that it would be in the best interest of the public health, safety and welfare to increase the monthly rates as set forth herein to pass through the additional costs for King County Metro conveyance and treatment services;

### NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, KING COUNTY, WASHINGTON, ORDAINS AS FOLLOWS:

<u>Section 1</u>. Section 13.24.010 of the Black Diamond Municipal Code is hereby amended to read as follows:

13.24.010 <u>Monthly Rates Designated</u>. Effective January 1, 2011 sewer service charges shall be as follows:

- A. For residential customers served by a single meter to the residence, \$\frac{51.06}{55.26};
- B. For residential customers served by a single meter who have been approved under the Lifeline Utility Program, will receive a discount on the city share of the sewer rate as shown in the City fee schedule.
- C. For all other users, including but not limited to commercial users, multifamily residences and mobile home parks, served by a single water meter, \$\frac{51.06}{55.26} per month for the first unit, plus \$10.00 for each additional unit served by that water meter, plus \$\frac{4.27}{5.36}\$ for each 100 cubic feet of water

consumed per month in excess of 750 cubic feet. For purposes of this section, the word "unit" shall be defined as any dwelling unit, home, condominium, mobile home, manufactured home or location at which business is conducted.

- D. Any user subject to an overage charge may apply to the City for installation of a separate meter to monitor water usage solely for irrigation and landscaping purposes. The individual or entity requesting such a meter shall pay the City for the cost of the meter and cost of installation. Water consumed for these purposes shall not be subject to the overage charge.
- E. For purposes of this chapter home occupations shall not be considered a second use.
- F. Federal, State and local taxes, where applicable, shall be added to the sums as set forth above.

<u>Section 2 Effective Date.</u> This Ordinance shall be in full force and effect on January 1, 2011 after its passage, approval, posting and publication as provided by law. A summary of this Ordinance may be published in lieu of publishing the Ordinance in its entirety.

<u>Section 3</u>. If any provision of this Ordinance is determined to be invalid or unenforceable for any reason, the remaining provisions of this Ordinance shall remain in force and effect.

Introduced the 16th day of December, 2010.

Passed by a majority of the City Council at a meeting held on the 16th day of December, 2010.

Attest:	Mayor Rebecca Olness	
Brenda L. Martinez, City Clerk		
APPROVED AS TO FORM:		
Chris Bacha, City Attorney		
Published: Posted: Effective Date:		

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#### ORDINANCE NO. 09-926

AN ORDINANCE OF THE CITY OF BLACK DIAMOND, KING COUNTY, WASHINGTON, AMENDING SECTION 13.24.010 OF THE BLACK DIAMOND MUNICIPAL CODE RELATING TO SEWER RATES

WHEREAS, the City is in need of increasing its revenue by the imposition of new sewer rates in order to meet current obligations to the Soos Creek Water and Sewer District;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, KING COUNTY, WASHINGTON, ORDAINS AS FOLLOWS:

<u>Section 1</u>. Section 13.24.010 of the Black Diamond Municipal Code is hereby amended to read as follows:

13.24.010 Monthly Rates Designated. Effective January 1, 2010 sewer service charges shall be as follows:

- A. For residential customers served by a single meter to the residence, \$51.06;
- B. For residential customers served by a single meter who have been approved under the Lifeline Utility Program, will receive a discount on the city share of the sewer rate as shown in the City fee schedule.
- C. For all other users, including but not limited to commercial users, multi-family residences and mobile home parks, served by a single water meter, \$51.06 per month for the first unit, plus \$10.00 for each additional unit served by that water meter, plus \$4.27 for each 100 cubic feet of water consumed per month in excess of 750 cubic feet. For purposes of this section, the word "unit" shall be defined as any dwelling unit, home, condominium, mobile home, manufactured home or location at which business is conducted.
- D. Any user subject to an overage charge may apply to the City for installation of a separate meter to monitor water usage solely for irrigation and landscaping purposes. The individual or entity requesting such a meter shall pay the City for the cost of the meter and cost of installation. Water consumed for these purposes shall not be subject to the overage charge.
- E. For purposes of this chapter home occupations shall not be considered a second use.
- F. Federal, State and local taxes, where applicable, shall be added to the sums as set forth above.

Section 2. This Ordinance shall be in full force and effect five days after its passage, approval, posting and publication as provided by law. A summary of this Ordinance may be published in lieu of publishing the Ordinance in its entirety.

Section 3. If any provision of this Ordinance is determined to be invalid or unenforceable for any reason, the remaining provisions of this Ordinance shall remain in force and effect.

Introduced the 17th day of December, 2009.

Passed by a majority of the City Council at a meeting held on the 17th day of December, 2009.

Mayor Howard Botts

Attest:

Brenda L. Martinez, City Clerk

APPROVED AS TO FORM:

Yvonne Ward, City Attorney

Published: 12-22-09
Posted: 12-18-09
Effective Date: 12-27-09

1   15% rate increase			401 Wa	ter Fund	with 15%	6 increase			
Section   Sect					Funding			Fund Balance	Total
Section   Sect									
1 User Charges   454,000   454,000   454,000   600			ate increase						
2 Surcharge @ 92.30 per customer   600	1		454 000	454 000					454,000
3 Deposits and Relimbursements			454,000	434,000					-
1		•	600	600					600
S Operating Revenue	1	•	16,000	16,000					16,000
7   Investment Interest   500   500   125,00	5			470,600					470,600
8 Transfer from Water Capital Fund 125,000 125,000 125,000 125,000 15,112	6	Funding PW Reimbursement	49,612		49,612				49,612
9   Subtotal Other Revenue   175,112   500   49,612   125,000	7	Investment Interest		500					
Total Revenue	8	Transfer from Water Capital Fund							
Debt PWTF & Tacoma Water	1								
11   Beginning Cash & Investments   133,745	10			471,100	49,612	125,000	-		
Total Sources	١.,						686,446	122.745	
Septembrures   13   Salary and Benefits   165,622   14   Furflough Days   (1,384)   15   Total Salaries and Benefits   164,238   114,626   49,612   164,238   16   Operating & Office Supplies/Uniforms   3,150   17   Allocated Office Supplies/Copies, Postage   6,945   18   Caustic (potassium hydroxide)   12,000   19   Fuel   2,300   20   Small tools   1,000   20   Small tools   1,000   21   Total Supplies   25,395   25,395   25,395   25,395   25,395   25,395   27,395				471 100	40.613	125 000	COC AAC		
13   Salary and Benefits   165,622   (1,384)	12	Total Sources	1,465,905	4/1,100	49,612	125,000	000,440	155,745	1,465,905
13   Salary and Benefits   165,622   (1,384)		EXPENDITURES						Table 18 Control	
14   Furlough Days	13		165,622						
Total Salaries and Benefits   164,238   114,626   49,612	1								
16   Operating & Office Supplies/Uniforms   3,150   17   Allocated Office Supplies, Copies, Postage   6,945   12,000   19   Fuel   2,300   1,000   19   Fuel   2,300   1,000   10   10   10   10   10   10				114,626	49,612				164,238
17	16	Operating & Office Supplies/Uniforms							
19 Fuel 2,300 1,000 20 Small tools 1,000 25,395 25			6,945						
20   Small tools   1,000	18	Caustic (potassium hydroxide)	12,000						
Total Supplies   25,395   25	19	Fuel	2,300						
22   Insurance	20	Small tools							
23 Telephone/DSL/Radios 2,500 24 Prof Services (Sensus Comp Supt & Main 4,500 25 Water Testing 1,500 26 Health Dept and Other Permits 1,700 27 Repairs & Maintenance/locates 5,800 28 Travel, Memberships and Training 1,900 29 Electricity/Gas 34,000 30 Water, Sewer, Drainage and Garbage 1,060 31 Legal Services 16,500 32 Postage/Printing 2,500 33 Advertising and Misc. 500 34 Audit - Share of costs 6,250 35 Cost Allocation 25,465 36 Taxes Utility 28,236 37 Taxes B&O 22,832 38 Total Services & Charges 174,794 174,794 39 Total Operating Expenditures 364,427 314,815 49,612 - 364,427 40 Transfer for Equipment 10,000 10,000 41 Debt Service for Water Meters 48,300 48,300 42 PWTF 95 Wtr Dep 13,314 13,314 43 PWTF 2006 Corr Cont. 11,925 11,925 44 Debt Service 2006 PWTF Loan 316,184 89,468 125,000 101,716 316,184 45 Tacoma Water Dev Wtr Cr 584,730 584,730 47 Total Expenditures 984,453 173,007 - 125,000 686,446 - 98,443 48 Ending Cash & Investments 117,023 (16,722)	21			25,395					25,395
24 Prof Services (Sensus Comp Supt & Main 25 Water Testing 26 Health Dept and Other Permits 27 Repairs & Maintenance/locates 28 Travel, Memberships and Training 29 Electricity/Gas 30 Water, Sewer, Drainage and Garbage 31 Legal Services 32 Postage/Printing 33 Advertising and Misc. 34 Audit - Share of costs 35 Cost Allocation 36 Taxes Utility 37 Taxes B&O 38 Total Services & Charges 38 Total Services & Charges 39 Total Services & Charges 40 Transfer for Equipment 40 Debt Service for Water Meters 40 PWTF 95 Wtr Dep 41 Ja,314 42 PWTF 2006 Corr Cont. 41 Debt Service 2006 PWTF Loan 43 If Jase B&O 44 B,300 45 Subtotal Other Expenditures 46 Subtotal Other Expenditures 47 Tacl Expenditures 48 J808 48 Bending Cash & Investments 48 J808 48 Ending Cash & Investments 48 J808 48 P&BENDER SERVICES 40 G86,446 5 J,348,880 5 R6,445 7 Total Expenditures 5 P84,453 7 Tale Expenditures 7 J,348,880					- 18 Te				
25   Water Testing								42	
26 Health Dept and Other Permits 1,700 27 Repairs & Maintenance/locates 5,800 28 Travel, Memberships and Training 1,900 30 Water, Sewer, Drainage and Garbage 1,060 31 Legal Services 16,500 32 Postage/Printing 2,500 33 Advertising and Misc. 500 34 Audit - Share of costs 6,250 35 Cost Allocation 25,465 36 Taxes Utility 28,236 37 Taxes B&O 22,832 38 Total Services & Charges 174,794 174,794 39 Total Operating Expenditures 364,427 314,815 49,612 - 364,427 40 Transfer for Equipment 10,000 10,000 41 Debt Service for Water Meters 48,300 48,300 42 PWTF 95 Wtr Dep 13,3114 13,314 43 PWTF 2006 Corr Cont. 11,925 11,925 44 Debt Service 2006 PWTF Loan 316,184 89,468 125,000 101,716 316,184 54 Tacoma Water Dev Wtr Cr 584,730 584,730 548,458 48,860 48 Subtotal Other Expenditures 984,453 173,007 - 125,000 686,446 - 984,453 48 Ending Cash & Investments 117,023 (16,722) 133,745 117,023									
Repairs & Maintenance/locates   5,800   28   Travel, Memberships and Training   1,900   30   Water, Sewer, Drainage and Garbage   1,060   31   Legal Services   16,500   32   Postage/Printing   2,500   33   Advertising and Misc.   500   34   Audit - Share of costs   6,250   35   Cost Allocation   25,465   36   Taxes Utility   28,236   37   Taxes B&O   22,832   37   Taxes B&O   22,832   38   Total Services & Charges   174,794   174,794   49,612   -   364,427   314,815   49,612   -   364,427   364,427   40   Transfer for Equipment   10,000   10,000   48,30									
28 Travel, Memberships and Training 1,900 29 Electricity/Gas 34,000 30 Water, Sewer, Drainage and Garbage 1,060 31 Legal Services 16,500 32 Postage/Printing 2,500 33 Advertising and Misc. 500 34 Audit - Share of costs 6,250 35 Cost Allocation 25,465 36 Taxes Utility 28,236 37 Taxes 8&O 22,832 38 Total Services & Charges 174,794 174,794 39 Total Operating Expenditures 364,427 314,815 49,612 - 364,427 40 Transfer for Equipment 10,000 10,000 41 Debt Service for Water Meters 48,300 48,300 42 PWTF 95 Wtr Dep 13,314 13,314 43 PWTF 2006 Corr Cont. 11,925 11,925 44 Debt Service 2006 PWTF Loan 316,184 89,468 125,000 101,716 316,184 45 Tacoma Water Dev Wtr Cr 584,730 584,730 48,880 48,880 48 Ending Cash & Investments 117,023 (16,722) 133,745 117,023									* 1
29   Electricity/Gas   34,000   30   Water, Sewer, Drainage and Garbage   1,060   31   Legal Services   16,500   32   Postage/Printing   2,500   33   Advertising and Misc.   500   34   Audit - Share of costs   6,250   35   Cost Allocation   25,465   36   Taxes Utility   28,236   37   Taxes B&O   22,832   38   Total Services & Charges   174,794   174,794   39   Total Operating Expenditures   364,427   314,815   49,612   -   364,427   364,427   314,815   49,612   -   364,427   364,427   314,815   49,612   -   364,427   314,815   49,612   -   364,427   314,815   49,612   -   364,427   314,816   48,300   48,30					4.00				
30   Water, Sewer, Drainage and Garbage   1,060   31   Legal Services   16,500   32   Postage/Printing   2,500   33   Advertising and Misc.   500   34   Audit - Share of costs   6,250   35   Cost Allocation   25,465   36   Taxes Utility   28,236   37   Taxes B&O   22,832   38   Total Services & Charges   174,794   174,794   39   Total Operating Expenditures   364,427   314,815   49,612   -   364,427   40   Transfer for Equipment   10,000   10,000   41   Debt Service for Water Meters   48,300   48,300   48,300   48,300   48,300   48,300   48,300   48,300   48,300   42   PWTF 95 Wtr Dep   13,314   13,314   43   PWTF 2006 Corr Cont.   11,925   11,925   44   Debt Service 2006 PWTF Loan   316,184   89,468   125,000   101,716   316,184   45   Tacoma Water Dev Wtr Cr   584,730   5									
16,500   2,500   32   Postage/Printing   2,500   33   Advertising and Misc.   500   34   Audit - Share of costs   6,250   35   Cost Allocation   25,465   36   Taxes Utility   28,236   37   Taxes B&O   22,832   38   Total Services & Charges   174,794   174,794   39   Total Operating Expenditures   364,427   314,815   49,612   -   364,427   364,427   40   Transfer for Equipment   10,000   10,000   41   Debt Service for Water Meters   48,300									
32       Postage/Printing       2,500         33       Advertising and Misc.       500         34       Audit - Share of costs       6,250         35       Cost Allocation       25,465         36       Taxes Utility       28,236         37       Taxes B&O       22,832         38       Total Services & Charges       174,794         39       Total Operating Expenditures       364,427         40       Transfer for Equipment       10,000         41       Debt Service for Water Meters       48,300         42       PWTF 95 Wtr Dep       13,314         43       PWTF 2006 Corr Cont.       11,925         44       Debt Service 2006 PWTF Loan       316,184         45       Tacoma Water Dev Wtr Cr       584,730         5ubtotal Other Expenditures       1,348,880         487,822       49,612       125,000         686,446       -       984,453         47       Total Expenditures       1,348,880         487,822       49,612       125,000       686,446       -         48       Ending Cash & Investments       117,023       (16,722)       125,000       686,446       -       1,348,880 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
33       Advertising and Misc.       500         34       Audit - Share of costs       6,250         35       Cost Allocation       25,465         36       Taxes Utility       28,236         37       Taxes B&O       22,832         38       Total Services & Charges       174,794         39       Total Operating Expenditures       364,427         40       Transfer for Equipment       10,000         41       Debt Service for Water Meters       48,300         42       PWTF 95 Wtr Dep       13,314         43       PWTF 2006 Corr Cont.       11,925         44       Debt Service 2006 PWTF Loan       316,184         45       Tacoma Water Dev Wtr Cr       584,730         5 Subtotal Other Expenditures       984,453       173,007       -         40       Subtotal Other Expenditures       1,348,880       487,822       49,612       125,000       686,446       -       984,453         47       Total Expenditures       1,348,880       487,822       49,612       125,000       686,446       -       1,348,880         48       Ending Cash & Investments       117,023       (16,722)       133,745       117,023							3		
35 Cost Allocation       25,465         36 Taxes Utility       28,236         37 Taxes B&O       22,832         38 Total Services & Charges       174,794       174,794         39 Total Operating Expenditures       364,427       314,815       49,612       -       364,427         40 Transfer for Equipment       10,000       10,000       10,000       10,000         41 Debt Service for Water Meters       48,300       48,300       48,300         42 PWTF 95 Wtr Dep       13,314       13,314       13,314         43 PWTF 2006 Corr Cont.       11,925       11,925         44 Debt Service 2006 PWTF Loan       316,184       89,468       125,000       101,716       316,184         45 Tacoma Water Dev Wtr Cr       584,730       584,730       584,730       584,730       584,730         5 Subtotal Other Expenditures       984,453       173,007       -       125,000       686,446       -       984,453         47 Total Expenditures       1,348,880       487,822       49,612       125,000       686,446       -       1,348,880         48 Ending Cash & Investments       117,023       (16,722)       125,000       686,446       -       1,348,880		0.							
36 Taxes Utility       28,236         37 Taxes B&O       22,832         38 Total Services & Charges       174,794         39 Total Operating Expenditures       364,427         40 Transfer for Equipment       10,000         41 Debt Service for Water Meters       48,300         42 PWTF 95 Wtr Dep       13,314         43 PWTF 2006 Corr Cont.       11,925         44 Debt Service 2006 PWTF Loan       316,184         45 Tacoma Water Dev Wtr Cr       584,730         46 Subtotal Other Expenditures       984,453         47 Total Expenditures       1,348,880         48 Ending Cash & Investments       117,023         117,023	34		6,250			=			
37         Taxes B&O         22,832         174,794         174,794           38         Total Services & Charges         174,794         174,794         174,794           39         Total Operating Expenditures         364,427         314,815         49,612         -         364,427           40         Transfer for Equipment         10,000         10,000         10,000         48,300         48,300           41         Debt Service for Water Meters         48,300         48,300         48,300         48,300           42         PWTF 95 Wtr Dep         13,314         13,314         13,314         13,314           43         PWTF 2006 Corr Cont.         11,925         11,925         11,925         11,925           44         Debt Service 2006 PWTF Loan         316,184         89,468         125,000         101,716         316,184           45         Tacoma Water Dev Wtr Cr         584,730         584,730         584,730         584,730           46         Subtotal Other Expenditures         1,348,880         487,822         49,612         125,000         686,446         -         1,348,880           48         Ending Cash & Investments         117,023         (16,722)         49,612         125,000					- 1				
Total Services & Charges         174,794         174,794         174,794           39         Total Operating Expenditures         364,427         314,815         49,612         -         364,427           40         Transfer for Equipment         10,000         10,000         10,000         48,300         48,300           41         Debt Service for Water Meters         48,300         48,300         48,300         48,300           42         PWTF 95 Wtr Dep         13,314         13,314         13,314         13,314           43         PWTF 2006 Corr Cont.         11,925         11,925         11,925         11,925           44         Debt Service 2006 PWTF Loan         316,184         89,468         125,000         101,716         316,184           45         Tacoma Water Dev Wtr Cr         584,730         584,730         584,730         584,730           46         Subtotal Other Expenditures         984,453         173,007         -         125,000         686,446         -         984,453           47         Total Expenditures         1,348,880         487,822         49,612         125,000         686,446         -         1,348,880           48         Ending Cash & Investments         117,023									
Total Operating Expenditures         364,427         314,815         49,612         -         364,427           40         Transfer for Equipment         10,000         10,000         10,000           41         Debt Service for Water Meters         48,300         48,300         48,300           42         PWTF 95 Wtr Dep         13,314         13,314         13,314           43         PWTF 2006 Corr Cont.         11,925         11,925           44         Debt Service 2006 PWTF Loan         316,184         89,468         125,000         101,716         316,184           45         Tacoma Water Dev Wtr Cr         584,730         584,730         584,730         584,730           46         Subtotal Other Expenditures         984,453         173,007         -         125,000         686,446         -         984,453           47         Total Expenditures         1,348,880         487,822         49,612         125,000         686,446         -         1,348,880           48         Ending Cash & Investments         117,023         (16,722)         133,745         117,023									
40       Transfer for Equipment       10,000       10,000         41       Debt Service for Water Meters       48,300       48,300         42       PWTF 95 Wtr Dep       13,314       13,314         43       PWTF 2006 Corr Cont.       11,925       11,925         44       Debt Service 2006 PWTF Loan       316,184       89,468       125,000       101,716       316,184         45       Tacoma Water Dev Wtr Cr       584,730       584,730       584,730       584,730         46       Subtotal Other Expenditures       984,453       173,007       -       125,000       686,446       -       984,453         47       Total Expenditures       1,348,880       487,822       49,612       125,000       686,446       -       1,348,880         48       Ending Cash & Investments       117,023       (16,722)       133,745       117,023					42.22				
41 Debt Service for Water Meters       48,300       48,300       48,300         42 PWTF 95 Wtr Dep       13,314       13,314       13,314         43 PWTF 2006 Corr Cont.       11,925       11,925       11,925         44 Debt Service 2006 PWTF Loan       316,184       89,468       125,000       101,716       316,184         45 Tacoma Water Dev Wtr Cr       584,730       584,730       584,730       584,730         46 Subtotal Other Expenditures       984,453       173,007       -       125,000       686,446       -       984,453         47 Total Expenditures       1,348,880       487,822       49,612       125,000       686,446       -       1,348,880         48 Ending Cash & Investments       117,023       (16,722)       133,745       117,023					49,612	-			
42       PWTF 95 Wtr Dep       13,314       13,314       13,314         43       PWTF 2006 Corr Cont.       11,925       11,925         44       Debt Service 2006 PWTF Loan       316,184       89,468       125,000       101,716       316,184         45       Tacoma Water Dev Wtr Cr       584,730       584,730       584,730       584,730         46       Subtotal Other Expenditures       984,453       173,007       -       125,000       686,446       -       984,453         47       Total Expenditures       1,348,880       487,822       49,612       125,000       686,446       -       1,348,880         48       Ending Cash & Investments       117,023       (16,722)       133,745       117,023	1				- 1				
43       PWTF 2006 Corr Cont.       11,925       11,925       11,925         44       Debt Service 2006 PWTF Loan       316,184       89,468       125,000       101,716       316,184         45       Tacoma Water Dev Wtr Cr       584,730       584,730       584,730       584,730         46       Subtotal Other Expenditures       984,453       173,007       125,000       686,446       984,453         47       Total Expenditures       1,348,880       487,822       49,612       125,000       686,446       1,348,880         48       Ending Cash & Investments       117,023       (16,722)       133,745       117,023					2.27	I			
44       Debt Service 2006 PWTF Loan       316,184       89,468       125,000       101,716       316,184         45       Tacoma Water Dev Wtr Cr       584,730       584,730       584,730         46       Subtotal Other Expenditures       984,453       173,007       -       125,000       686,446       -       984,453         47       Total Expenditures       1,348,880       487,822       49,612       125,000       686,446       -       1,348,880         48       Ending Cash & Investments       117,023       (16,722)       133,745       117,023						I			
45         Tacoma Water Dev Wtr Cr         584,730         584,730         584,730           46         Subtotal Other Expenditures         984,453         173,007         -         125,000         686,446         -         984,453           47         Total Expenditures         1,348,880         487,822         49,612         125,000         686,446         -         1,348,880           48         Ending Cash & Investments         117,023         (16,722)         133,745         117,023					- 1	125,000	101.716		
46         Subtotal Other Expenditures         984,453         173,007         -         125,000         686,446         -         984,453           47         Total Expenditures         1,348,880         487,822         49,612         125,000         686,446         -         1,348,880           48         Ending Cash & Investments         117,023         (16,722)         133,745         117,023				33,400	- 1	223,000			
47         Total Expenditures         1,348,880         487,822         49,612         125,000         686,446         -         1,348,880           48         Ending Cash & Investments         117,023         (16,722)         133,745         117,023				173,007		125,000		-	
48 Ending Cash & Investments 117,023 (16,722) 133,745 117,023					49,612			•	
Figure 1 and								133,745	
	49	THE RESIDENCE OF THE PROPERTY	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P		49,612	125,000	686,446	EXPERIMENDATION OF THE PROPERTY OF THE PROPERT	PERSONAL PROPERTY OF THE PERSON NAMED IN COLUMN 1

The 15% rate increase will be short of covering operating costs by \$16,722.

The three month reserve of \$121,956 per Resolution 08-560 will still short by \$4,933

#### 401 Water Fund with proposed 10% Rate Increase Hear Water Developer Reimburse **Fund Balance** Budget **Funding** Charges Reserves Total With 10% Rate Increase REVENUE **User Charges** 434,500 434,500 434,500 2 Deposits and Reimbursements 600 600 600 Late Charges & Name Changes 16,000 16,000 16,000 **Operating Revenue** 451,100 451,100 451,100 Funding PW Reimbursement 49.612 49.612 49,612 Investment Interest 500 500 500 Transfer from Water Capital Fund 125.000 125,000 125,000 **Subtotal Other Revenue** 175,112 500 49,612 125,000 175,112 **Total Revenue** 626,212 451,600 49,612 125,000 626,212 **Debt PWTF & Tacoma Water** 686,446 686,446 686,446 Beginning Cash & Investments 133,745 133,745 133,745 **Total Sources** 1.446.403 451,600 49,612 125,000 686,446 133,745 1,446,403 8 **EXPENDITURES** 10 Salary and Benefits 165.622 Furlough Days (1,384)11 114,626 **Total Salaries and Benefits** 164,238 49,612 164,238 11 Operating & Office Supplies/Uniforms 3.150 12 Allocated Office Supplies, Copies, Postagi 6,945 13 Caustic (potassium hydroxide) 12,000 13 14 Fuel 2,300 1,000 14 Small tools 25,395 25,395 **Total Supplies** 25,395 16 Insurance 19,551 Telephone/DSL/Radios 2,500 Prof Services (Sensus Comp Supt & Main 4,500 17 1,500 17 Water Testing 18 Health Dept and Other Permits 1.700 Repairs & Maintenance/locates 5,800 19 Travel, Memberships and Training 1,900 34,000 Electricity/Gas 1,060 Water, Sewer, Drainage and Garbage 20 16,500 21 Legal Services 2,500 Postage/Printing Advertising and Misc. 500 Audit - Share of costs 6.250 Cost Allocation 25,465 24 Taxes Utility 27,066 25 Taxes B&O 17,000 167,792 167,792 25 Total Services & Charges 167,792 357,425 307,813 49,612 357,425 26 Total Operating Expenditures 10,000 10,000 10,000 26 Transfer for Equipment 48,300 48,300 48,300 27 Debt Service for Water Meters 13,314 13,314 13,314 28 PWTF 95 Wtr Dep 28 PWTF 2006 Corr Cont. 11,925 11,925 11,925 29 Debt Service 2006 PWTF Loan 316,184 89,468 125,000 101.716 316,184 29 Tacoma Water Dev Wtr Cr 584,730 584,730 584,730 30 Subtotal Other Expenditures 984,453 173,007 125,000 686,446 984,453 1,341,878 480,820 49,612 31 Total Expenditures 125,000 686,446 1,341,878 **Ending Cash & Investments** 104,525 (29,220 133,745 104,525

49,612

125,000

686,446

451,600

1,446,403

31

32

The 10% rate increase is short of covering operating by \$29,220, and the three month reserve of \$120,205 per Resolution 08-560 is still short by \$15,680

## CITY OF BLACK DIAMOND WASHINGTON





AN ORDINANCE OF THE CITY OF BLACK DIAMOND, KING COUNTY, WASHINGTON; RELATING TO WATER SERVICE RATES; AMENDING SECTION 13.04.280 OF THE BLACK DIAMOND MUNICIPAL CODE; IMPLEMENTING A RATE INCREASE SET FOR IN THE 2008 WATER RATE STUDY; PROVIDING FOR SEVERABILITY; ESTABLISHING AN EFFECTIVE DATE

WHEREAS, the City of Black Diamond is a municipal corporation operating under the laws of the state of Washington as a code city pursuant to Chapter 35A of the Revised Code of Washington; and

WHEREAS, as a code city, the legislative body of the City of Black Diamond is vested with all powers possible for a city or town to have under the Constitution of this state, and not specifically denied to code cities by law; and

WHEREAS, RCW Ch. 35.92 authorizes the City of Black Diamond to construct, condemn and purchase, acquire, add to, alter, maintain, and operate waterworks, for the purpose of furnishing the City and its inhabitants, and any other persons, with an ample supply of water for all purposes, public and private, with full power to regulate and control the use, distribution, and price thereof; and

**WHEREAS**, RCW 35.92.020 specifically authorizes the City Council to set and establish uniform rates for the same class of customers or service and facilities; and

**WHEREAS**, pursuant to the above described authority, the City Council of Black Diamond has created a water system utility and rates and charges applicable thereto, which rates and charges are codified in Title 13 of the Black Diamond Municipal Code, and more specifically at BDMC 13.04.280; and

WHEREAS, in 2008 the City contracted with PacWest Engineering to perform a Water User Rates Study for the purpose of, (a) identifying current and projected water utility maintenance, operation and capital costs and needs to ensure that the City can continuing providing adequate water services throughout the City and meet its statutory and contractual obligations related thereto, and (b) identifying water user rates that will adequately fund such existing and projected costs; and

WHEREAS, PacWest in its October 20, 2008 Water user Rate Study recommended several possible rate structures and the City Council finds that Alternative "C" as set forth therein is the appropriate method for implementation of a rate increase to adequately fund the current and projected costs of maintenance, operation and capital improvement (expansion and replacement) of the water utility system; and

WHEREAS, the PacWest Alternative "C" included three years of rate increases of 15% for each year and the Council passed the first year of the rate increase effective in 2009; however, in 2010 due to the economic slump, the council did not increase rates; and

**WHEREAS**, in 2010 the water utility incurred additional debt through an interfund loan to pay for completion of a meter replacement project which debt was not anticipated to be serviced through user charges; and.

**WHEREAS**, the City Council Public Works Committee, Finance Committee and work-study group met several times during the months of October, November and December of 2010 to review the need for the rate increase and the structure of the increase; and

**WHEREAS**, the committees and work-study group recommend not increasing the consumption portion of the water rate as that has caused decreased revenue in some cities, and instead recommend a percentage increase in the base rate that will achieve an overall dollar increase in rate revenues that would equal 15%.; and

WHEREAS, based on the foregoing recommendation, the base rates will increase approximately 16% and there will be no increase to the consumption portion of the rate, which will result in an average net increase that equals the 15% dollar amount of the PacWest rate study without jeopardizing revenue;

### NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, KING COUNTY, WASHINGTON DO ORDAIN AS FOLLOWS:

<u>Section 1. Amendment of BDMC 13.04.280(a).</u> Section 13.04.280(A) of the Black Diamond Municipal Code is hereby amended to read as follows:

#### 13.04.280 Rates – Consumption and meter installation.

- A. 1. The water service rates for customers of the City's water utility shall be as set forth in section 2 through 8 below, plus \$1.82 per one hundred cubic feet of water used, for water consumption ranging between 0 to 600 cubic feet of water, per month, plus \$2.09 per one hundred cubic feet of water used, for water consumption ranging between 601 to 1,200 cubic feet of water per month, plus \$2.40 per one hundred cubic feet of water used, for consumption greater than 1,200 cubic feet of water per month.
  - 2. All 5/8" and 3/4" meters shall be charged a minimum fee of \$23.43 per month. Each additional dwelling/business served from the above described meter shall be charged \$14.95 for each additional unit for each month inside the City limits and \$29.90 for each additional unit for each month outside the City limits.

- 3. All 1" meters shall be charged \$29.62 per month plus the additional amount per unit served by such meter as established in subsection A(2) above.
- 4. All 1  $\frac{1}{2}$ " meters shall be charged \$31.95 per month plus the additional amount per unit served as established in subsection A(2) above.
- 5. All 2" meters shall be charged \$55.76 per month plus the additional amount per unit served as established in subsection A(2) above.
- 6. All 3" meters shall be charged a minimum of \$67.65 per month plus the additional amount per unit served as established in subsection A(2) above.
- 7. All 4" meters shall be charged a minimum of \$127.04 per month. For additional dwellings, apartments, or units, there shall be a minimum charge of \$14.95 per month for each additional dwelling, apartment or unit, and \$14.95 for each additional commercial use.
- 8. All 6" meters shall be charged a minimum of \$328.52 per month. For additional dwellings, apartments, or units, there shall be a minimum charge of \$14.95 per month for each additional dwelling, apartment, or unit, and \$14.95 for each additional commercial use.

<u>Section 2. Effective Date.</u> This Ordinance shall be in full force and effect on January 1, 2011, after its passage, approval, posting and publication as provided by law. A summary of this Ordinance may be published in lieu of publishing the ordinance in its entirety.

<u>Section 3. Severability.</u> If any provision of this ordinance, or ordinance modified by it is determined to be invalid or unenforceable for any reason, the remaining provision of this ordinance and ordinances and/or resolutions modified by it shall remain in force and effect.

	Mayor, Rebecca Onless
Attested:	
Brenda L. Martinez City Clerk	
APPROVED AS TO FORM:	
Chris Bacha,	
Kenyon Disend, PLLC	
City Attorney	
Published:	
Posted:	
Effective Date:	

ORDINANCE NO. 08-879

old water Ordinance (lastone)

AN ORDINANCE OF THE CITY OF BLACK DIAMOND, KING COUNTY, WASHINGTON, AMENDING SECTION 13.04.280 OF THE BLACK DIAMOND MUNICIPAL CODE RELATING TO WATER SERVICE RATES.

WHEREAS, the City finds it necessary to raise the rates charged to customers of its water utility in order to meet the obligations of maintenance, repair, and expansion of the City's water system;

Now, therefore, the City Council of the City of Black Diamond, King County, Washington do ordain as follows:

<u>Section 1.</u> Section 13.04.280(A) of the Black Diamond Municipal Code is hereby amended to read as follows:

13.04.280 Rates - Consumption and meter installation.

- A. 1. The water service rates for customers of the City's water utility shall be as set forth in section 2 through 8 below, plus \$1.82 per one hundred cubic feet of water used, for water consumption ranging between 0 to 600 cubic feet of water, per month, plus \$2.09 per one hundred cubic feet of water used, for water consumption ranging between 601 to 1,200 cubic feet of water per month, plus \$2.40 per one hundred cubic feet of water used, for consumption greater than 1,200 cubic feet of water per month.
  - 2. All 5/8" and ¾" meters shall be charged a minimum fee of \$17.88 per month. Each additional dwelling/business served from the above described meter shall be charged \$14.95 for each additional unit for each month inside the City limits and \$29.90 for each additional unit for each month outside the City limits.
  - 3. All 1" meters shall be charged \$22.60 per month plus the additional amount per unit served by such meter as established in subsection A(2) above.
  - 4. All 1 ½" meters shall be charged \$24.38 per month plus the additional amount per unit served as established in subsection A(2) above.
  - 5. All 2" meters shall be charged \$42.55 per month plus the additional amount per unit served as established in subsection A(2) above.

6. All 3" meters shall be charged a minimum of \$51.61 per month plus the additional amount per unit served as established in subsection A(2) above.

7. All 4" meters shall be charged a minimum of \$96.95 per month. For additional dwellings, apartments, or units, there shall be a minimum charge of \$14.95 per month for each additional dwelling, apartment or unit, and \$14.95 for each additional commercial use.

8. All 6" meters shall be charged a minimum of \$250.70 per month. For additional dwellings, apartments, or units, there shall be a minimum charge of \$14.95 per month for each additional dwelling, apartment, or unit, and \$14.95 for

each additional commercial use.

Section 2. This Ordinance shall be in full force and effect for the first billing cycle occurring after January 1, 2009, after its passage, approval, posting and publication as provided by law. A summary of this Ordinance may be published in lieu of publishing the ordinance in its entirety.

<u>Section 3.</u> If any provision of this ordinance, or ordinance modified by it is determined to be invalid or unenforceable for any reason, the remaining provision of this ordinance and ordinances and/or resolutions modified by it shall remain in force and effect.

Mayor Howard Botts

Attested:

Brenda L. Streepy

City Clerk

APPROVED AS TO FORM:

Loren Combs City Attorney

Published: /2

Effective Date:

: 12/5/08 re Date: 12/14/0

Ordinance No. 08-879 Page 2

# Water Rates Comparison

			Base	Add		<b>% SURCHARGE</b>	
CITY	COUNTY	CONNECTIONS	3/4"	800CF	* TOTAL	800CF   * TOTAL   OUTSIDE CITY	NOTES
Buckley (Summer)	Pierce	1818	1818 \$15.13	\$11.66	\$26.79	1	City unsure of increase
Enumclaw	King	5497	5497 \$12.51	\$14.81	\$27.32	20%	No increases for 2011
Goldendale (2011)	Klickitat	1500	500 \$25.50	\$7.11	\$32.61	20%	Rates 2% higher from 2010
Black Diamond (2010)	King	846	846 \$17.88	\$15.10	\$32.98		current rates
Covington WD (Summer)	King	14080	080 \$16.50	\$20.24	\$36.74	ı	Increase amounts to approx. 7.4%
Chelan	Chelan	1572	1572 \$37.10	\$0.00	\$37.10	%09	No increases for 2011
Carnation	King	843	843 \$17.69	\$20.08	\$37.77	20%	No increases for 2011
Black Diamond 15%	King	846	846 \$23.43	\$15.10	\$38.53	1	\$5.55 increase to base rate, 0% for consumption
Snoqualmie	King	4052	052 \$24.70	\$14.34	\$39.04	30 - 35%	Doubtful rates will increase
Fife (2011)	Pierce	1631	631 \$20.08	\$20.24	\$40.32	%09	Rates 20% higher from 2010
Eatonville	Pierce	1039	030 \$30.80	\$14.38	\$45.18	1	No increases for 2011
Leavenworth	Chelan	1200	200 \$47.00	\$0.00	\$47.00	20 - 25%	\$2 increase to base from 2010

\* Total price includes base meter charge and 800 CF of usage

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WATER         WATER         WATER Consumption         859         Water Consumption         859         Water Consumption         859         L00         CU FT OF WATER (100 CU FT = 748 GAL)         100         CU FT OF WATER (100 CU FT = 748 GAL)         100         CU FT OF WATER (100 CU FT = 748 GAL)         100         8.59         R.59         PIRST TIER         600 \$10.92         R.59         PIRST TIER         600 \$10.92         R.59         PIRST TIER         600 \$10.92         R.59         PIRST TIER         8.59         PIRST TIER         600 \$10.92         R.59         PIRST TIER         8.59         PIRST TIER         8.50         PIRST TIER         8.59         PIRST TIER         8.50         PIRST TIER         8.50         PIRST TIER         8.50         PIRST TIER         PIRST TIER         8	OLD RATES		NEW RATES			
859       Water Consumption       859         100       CU FT OF WATER (100 CU FT = 748 GAL)       100         8.59       TOTAL CUBIC FEET OF WATER USED       8.59         600 \$10.92       FIRST TIER       600 \$10.92         259 \$5.41       SECOND TIER       259 \$5.41         0 \$0.00       THIRD TIER       0 \$0.00         \$16.33       TOTAL OF THREE TIERS       \$16.33         \$17.88       New Base Water Rate 1st unit       \$23.4.3         \$34.21       WATER BILL DUE       \$39.76	WATER		WATER			
100 CU FT OF WATER (100 CU FT = 748 GAL) 100 8.59 TOTAL CUBIC FEET OF WATER USED 8.59 600 \$10.92 FIRST TIER 600 \$10.92 259 \$5.41 SECOND TIER 259 \$5.41 0 \$0.00 THIRD TIER 0 \$0.00 \$16.33 TOTAL OF THREE TIERS \$16.33 \$17.88 New Base Water Rate 1st unit \$23.43 Increase \$\$5.55\$	Water Consumption	859	Water Consumption	859		
8.59 TOTAL CUBIC FEET OF WATER USED 8.59 600 \$10.92 259 \$5.41 0 \$0.00	CU FT OF WATER (100 CU FT = 748 GAL)	100	CU FT OF WATER (100 CU FT = $748 \text{ GAL}$ )	100	7	
600 \$10.92  259 \$5.41  0 \$0.00  THIRD TIER  0 \$0.00  \$16.33  \$17.88  New Base Water Rate 1st unit \$23.43  Increase \$\$5.55  \$5.55  \$5.55	TOTAL CUBIC FEET OF WATER USED	8.59	TOTAL CUBIC FEET OF WATER USED	8.59		
259 \$5.41       SECOND TIER       259 \$5.41         0 \$0.00       THIRD TIER       0 \$0.00         \$16.33       TOTAL OF THREE TIERS       \$16.33         \$17.88       New Base Water Rate 1st unit       \$23.43         \$34.21       WATER BILL DUE       \$39.76	FIRST TIER	600 \$10.92	FIRST TIER			
0 \$0.00  \$16.33  TOTAL OF THREE TIERS \$16.33  \$17.88  New Base Water Rate 1st unit \$23.43  Increase \$  \$39.76  \$5.55	SECOND TIER		SECOND TIER			
\$16.33 TOTAL OF THREE TIERS \$16.33 Increase \$ 17.88 New Base Water Rate 1st unit \$23.43 Increase \$ \$ \$34.21 WATER BILL DUE \$39.76 \$5.55	THIRD TIER		THIRD TIER	0 \$0.00		12
\$17.88 New Base Water Rate 1st unit \$23.43 Increase \$	TOTAL OF THREE TIERS	\$16.33	TOTAL OF THREE TIERS	\$16.33		
\$34.21 WATER BILL DUE \$39.76	Base Water rate 1st Unit	\$17.88	New Base Water Rate 1st unit	\$23.43		Increase %
	WATER BILL DUE	\$34.21	WATER BILL DUE	\$39.76		16%

## **Sewer Residential**

OLD RATES		NEW RATES	
METRO SEWER		METRO SEWER	Increase \$ Increase %
METRO BASE RATE	\$31.90	METRO BASE RATE \$36.10	
METRO SOOS BALANCE DUE	\$ 31.90	METRO BALANCE DUE \$	36.10 \$4.20 13%
CITY SEWER and SOOS CREEK SEWER		CITY SEWER and SOOS CREEK SEWER	
Base City Sewer Rate	\$ 15.29	Base City Sewer Rate \$	19.16
SOOS BASE RATE	\$3.87	SOOS BASE RATE	\$0.00
CITY /SOOS SEWER BILL DUE	\$ 19.16	CITY /SOOS SEWER BILL DUE \$	19.16 \$0.00 0%
<b>₽</b> 4			
TOTAL SEWER CHARGE	\$ 51.06	TOTAL SEWER CHARGE \$	55.26 \$4.20 8%

## Water Commercial

OLD RATES		NEW RATES		
WATER		WATER		
WATER CONSUMPTION	3800	WATER CONSUMPTION 3800		
CU FT OF WATER (100 CU FT = 750 GAL)	100	CU FT OF WATER (100 CU FT = 750 GAL) 100	1	
TOTAL CUBIC FEET OF WATER USED	38.00	TOTAL CUBIC FEET OF WATER USED 38.00	0	
FIRST TIER	600 \$10.92	FIRST TIER 600 \$10.92	92	
SECOND TIER	600 \$12.54	SECOND TIER 600 \$12.54	54	
THIRD TIER	2600 \$62.40	THIRD TIER 2600 \$62.40	40	
TOTAL OF THREE TIERS	\$85.86	TOTAL OF THREE TIERS \$85	\$85.86	
Base Water Rate 1st Unit	\$42.55	Base Water Rate 1st Unit \$55	\$55.76	
Additional Units	\$44.85	Additional Units \$44	\$44.85 Inc. \$	Inc. \$ Inc.%
WATER BILL DUE	\$173.26	WATER BILL DUE \$18	\$186.47 \$13.21	1 8%

## **Sewer Commercial**

OLD RATES		NEW RATES		
METRO		METRO		Inc. \$ Inc.%
METRO BASE RATE	\$31.90	METRO BASE RATE	\$36.10	\$4.20 13%
Water Consumption	3800	Water Consumption	3800	
Units	4	Units 4		
Metro Min. Consumption	750	Metro Min. Consumption 7	750	
	3050	c c	3050	
CU FT OF WATER (100 CU FT = 750 GAL)	100	CU FT OF WATER (100 CU FT = 750 GAL) 1	100	
	30.5	E	30.5	
Metro (ERU over 750) Rate	\$4.27	Metro/City (ERU over 750) Rate	\$5.36	\$1.09 26%
	\$130.24	· ·	\$163.48	
METRO SOOS BALANCE DUE	\$162.14	METRO BALANCE DUE	\$199.58	\$37.45 23%
CITY SEWER		CITY SEWER		
Base City Sewer Rate	\$15.29	Base City Sewer Rate \$	\$19.16	
SOOS BASE RATE	\$3.87	SOOS BASE RATE \$	\$0.00	
Total of City/Soos	\$ 19.16	Total of City/Soos	\$ 19.16	
Additional units	\$ 30.00	Additional units	\$ 30.00	
CITY SEWER BILL DUE	\$49.16	CITY SEWER BILL DUE	\$49.16	\$0.00
CITY/METRO/ SOOS BALANCE DUE	\$211.30	METRO/CITY BALANCE DUE \$	\$248.74	\$37.45 18%

#### City of Black Diamond, Wa All Water, Wastewater & Stormwater Utility Account Analysis Shut off and Past Due Accounts

Туре	Jan-Nov 2009	Jan-Nov 2010	Change	% Inc/(Dec)
Total Water Shut Offs for eleven months	111	114	3	2.70%
Total Past due Utility Dollar for all Utilities	25,514	27,590	2,076	8%
Total past due % to Rev	2%	2%	0	0
	Nov-09	Nov-10	Change	% Inc/(Dec)
Shut off notices sent our compared to last year	14	12	(2.00)	(0.14)

The total past due Utility amount over 30 days for December 2010 are approximately 2.0% of Utility Fund Revenue the same percentage as in 2009. This is a very reasonable percentage.

Noted in 2010 there were some accounts that were over 30 days, that were shut off, on ageing schedule and owned by a Bank or Trust (Probably a foreclosure). Didn't notice any in 2009.

## City of Black Diamond Water User Rates Study

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#### BACKGROUND & PURPOSE

PacWest Engineering has been retained by the City to complete a water rate study and recommend updated rates for adoption by the City Council. The City is currently operating under a development moratorium which is anticipated to be lifted in late 2008. Significant growth is anticipated to occur within the City following the removal of the moratorium. The City desires to adopt updated water rates to ensure that the City's water rates adequately cover existing and projected costs associated with operating a water utility and providing adequate water service to its customers.

The City's water rates are comprised of two components: 1) <u>User rates</u> based on monthly meter rates as well as charges based on actual water consumption; and 2) <u>Connection charges</u> (also known as capital facility charges) which fund system improvements required as a result of new growth. This report analyzes the City's Water User Rates. An analysis of the City's Water Connection Charges is covered in a separate report.

#### ANALYSIS METHODOLOGY

Water rates have been analyzed for a three year period from 2009 to 2011. Since there are many assumptions incorporated into these rates based on projections of new development, it is recommended that a rate study be conducted in the future for years beyond this planning period.

A water billing consumption history for the period of June 2006 through May 2007 was utilized in developing user rate revenue assumptions. It is assumed that this time period is representative of the City of Black Diamond's water use and does not include lower than average or higher than average use due to irregular weather patterns or use consumptions.



An annual population growth rate of 2.85% has been utilized for growth projections within the existing developed City for the period following the removal of the moratoium. Additionally, the addition of new customers has been projected based on conversations with Yarrow Bay due to the fact that significant development is anticipated to occur within the City of Black Diamond during the period of analysis covered by this Water Rate Study.

Growth projections for new development are based on conversations with Yarrow Bay regarding potential build rates for development that is anticipated to occur within the City of Black Diamond. A two-year delay in projected growth has been included to provide for a more realistic assumption in projected revenues. Projections for growth have assumed a water consumption rate of 230 gallons per day per single family residence, as this is the established amount calculated for one ERU (equivalent residential unit) in the agreements between developers and the City of Black Diamond. It is assumed that connections to the system will be made in one calendar year and user rates will be charged for the new ERU's in the following year. No credit for partial years has been assumed.

PROJECTED NEW ERU	CONNE	CTIONS			
(User rates assumed to begin b	llings in	followin	g year)		
ERU Type	2008	2009	2010	2011	
ERU's (with connection charge credit) 0 0 0					
ERU's (without connection charge credit) 0 33 34 35					
TOTAL NEW ERU'S	0	33	34	35	

#### WATER FUNDS STRUCTURE & RESERVE RECOMMENDATIONS

The City of Black Diamond currently operates with three water-related funds, as follows: Fund 401 – Water Fund; Fund 402 – Water Supply & Facility Fund; and Fund 404 – Water Reserve Fund.

It is recommended that the City restructure their water funds into the following three funds: Operating Fund; Capital Fund; and Developer Contribution Fund. The Operating and Capital funds should maintain a reserve within the fund rather than as a separate fund.

Operating Fund: The Operating Fund shall be funded by monies collected for Water User Rates and shall fund the City's Water Operations and Maintenance Program. The State requires that the City maintain a minimum reserve equivalent to 1/8 of its annual operating budget which is the equivalent of 1.5 months reserve. It is recommended that the City maintain an operating reserve that is equivalent to three months. The City currently has sufficient cash on hand to meet this reserve recommendation. This reserve helps balance cash flows due to lower revenues during winter months.

Capital Fund: The Capital fund shall be funded primarily by Water Connection Charges and shall fund expenditures related to the City's Water Capital Improvements Program. Additional funding sources such as grants and loans may supplement connection charges. Also, transfers from the Operating fund should occur to support those capital projects deemed to benefit the existing rate base.



The State requires an Emergency reserve that is equivalent to the City's most vulnerable water system facility component. The City of Black Diamond has an insurance policy which covers the transmission main crossing the Green River (the most vulnerable component of the system), which is sufficient to meet the emergency reserve requirement. In addition to the emergency reserve, the Capital fund should also maintain a reserve based on any outstanding debt service. It is recommended that a capital reserve in the amount of 50% of the annual debt service requirements be maintained in the capital fund.

Developer Contribution Fund: The City currently maintains a developer contribution fund (Fund 402 – Water Supply & Facility Fund). It is recommended that this fund be utilized to receive developer contributions for capital projects, but that the contributed funds be transferred to the capital fund as needed in support of the capital project for which the funds were contributed.

#### CURRENT RATES

The City's current rates are a flat structure rate and do not promote conservation by the customers. The City of Black Diamond's current user rates are as shown below:

CURRENT RATES						
Meter Size	Meter Rate	Meter Rate per Additional Unit	Commodity Charge per 100 CF			
5/8" or 3/4"	\$15.55	\$13.00	\$1.58			
1"	\$19.65	\$13.00	\$1.58			
1 ½"	\$21.20	\$13.00	\$1.58			
2"	\$37.00	\$13.00	\$1.58			
3"	\$44.88	\$13.00	\$1.58			
4"	\$84.30	\$13.00	\$1.58			

#### **BUDGET REQUIREMENTS**

The following are the projected budget requirements for a three year period. They have been developed based on the City's draft 2009 budget, which includes forecasts for 2010 and 2011. It should be noted that there are significant increases in the projected Operations and Maintenance budget over this time period. A portion of these increases is due to an additional staff person that is projected to be assigned half-time to the water system starting in 2011.

The City of Black Diamond is estimated to have approximately \$1,000,000 in reserve funds between the three existing water funds at the beginning of 2009. It is recommended that the City assign \$81,000 of the existing reserves as the three-month Operations and Maintenance reserve. Unless specified otherwise in the description of the alternatives, the remaining balance of the existing reserve funds are recommended to be placed in the Capital fund to augment the City's water connection charges in paying off debt and funding



capital projects. The revenue generated by these water user rates is intended to fund system operational costs only.

BUDGET REQUIREMENTS							
	2009	2010	2011				
Operations, Maintenance, & Administration	\$324,000	\$344,000	\$404,000				
Project costs / Transfer to Capital Fund (improve existing deficiencies)	\$0*	\$0*	\$0*				
O&M Reserve	\$0 **	\$5,000	\$15,000				
Debt Service	\$243,000	\$241,000	\$239,000				
Yarrow Bay PWD Reimbursement	-\$36,000***	-\$38,000***	-\$40,000***				
TOTAL – O&M FUND REQ.	\$567,000	\$590,000	\$658,000				

<sup>\*</sup> Proposed project improvements have been included in the City's Water System Plan (draft). Costs have not been included in the water rate budget requirements as it is recommended that these projects improvements be delayed and be completed as funds are available.

#### **USER RATES ANALYSIS**

The Municipal Water Law was passed by the Washington State Legislature in 2003 and included language that all municipal water suppliers must use water more efficiently in exchange for water right certainty and flexibility to help them meet future demands. The City of Black Diamond is required to develop and monitor a Water Use Efficiency (WUE) program. One component of the City's Water Use Efficiency Program is to evaluate rate structures that promote water savings.

Several alternative water rates were evaluated for the City of Black Diamond. Details regarding each of the alternatives considered, as well as a summary of projected revenue for each alternative are listed on the following pages:



<sup>\*\*</sup> The initial O&M reserve balance of \$81,000 recommended to be funded by existing reserve funds and preserved. Amounts shown reflect the necessary annual increase.

<sup>\*\*\*</sup> The reimbursement for Public Works Director salary expenses is included for informational purposes only. This credit has not been included in the water user rate establishment as it is a temporary credit that will soon expire. It is recommended that these funds be utilized to fund capital projects to address existing deficiencies.

Alternative "A" – Debt Service (Fixed Rates & Commodity Rates increase at same percent – Constant increase over 3 years):

Alternative "A" evaluated a 27% increase in rates for each of the three years. The increase was applied to all components of the user rate calculations (meter rate, meter rate per additional unit, and commodity charges). Alternative "A" meets the City's Operation and Maintenance budget needs and also addresses debt service requirements. It is a "rate predictable" alternative. Alternative "A" does not encourage conservation by the customers.

ALTERNATIVE "A" - 2009						
Meter Size	Meter Rate	Meter Rate per Additional Unit	Commodity Charge per 100 CF			
5/8" or 3/4"	\$19.75	\$16.51	\$2.01			
1"	\$24.96	\$16.51	\$2.01			
1 ½"	\$26.92	\$16.51	\$2.01			
2"	\$46.99	\$16.51	\$2.01			
3"	\$57.00	\$16.51	\$2.01			
4"	\$107.06	\$16.51	\$2.01			

ALTERNATIVI	E "A" - ANNUAL	% INCREASES
Year	% Increase (Meter Rates)	% Increase (Commodity Charge)
2008 to 2009	27%	27%
2009 to 2010	27%	27%
2010 to 2011	27%	27%

T.P. Zandelburger and St.	REVENUE A	AND A SHARE THE PROPERTY OF TH	CONTRACTOR STATE OF THE SAME O	RATES WERE
	2009	2010	2011	2009 - 2011
Anticipated Revenue	\$354,000	\$366,000	\$379,000	\$1,099,000

ANTICIPATED REVENUE ANALYSIS – ALTERNATIVE "A"					
	2009	2010	2011	2009 - 2011	
Anticipated	\$450,000	\$590,000	\$775,000	\$1,815,000	
Revenue					
Budget	\$567,000	\$590,000	\$658,000	\$1,815,000	
Requirements					
Difference	-\$117,000	\$0	\$117,000	\$0	



Alternative "B" – Conservation Rates + Debt Service (Fixed Rates & Commodity Rates increase at same percent – Constant increase over three years):

Alternative "B" evaluated a tiered commodity rate system to encourage conservation efforts. Base meter rates and rates for additional units increased at the same percentage (23%) as the first tier for commodity charges (0-600 CF). Meter rates and commodity charge rates continue to increase at this same rate for the subsequent two years. Subsequent tiers increase at a 15% increase per tier in order to generate sufficient revenue to fund current debt service payments. It is assumed that existing reserve funds would be utilize to fund debt service costs initially and these monies would be repaid as rate revenues were received.

	ALTERNATIVE "B" - 2009 RATES						
Meter Size	Meter Rate	Meter Rate per Additional Unit	Commodity Charge per 100 CF (0-600 CF)	Commodity Charge per 100 CF (601 – 1,200 CF)	Commodity Charge per 100 CF (1,200+ CF)		
5/8" or 3/4"	\$19.13	\$15.99	\$1.94	\$2.23	\$2.57		
1"	\$24.17	\$15.99	\$1.94	\$2.23	\$2.57		
1 ½"	\$26.08	\$15.99	\$1.94	\$2.23	\$2.57		
2"	\$45.51	\$15.99	\$1.94	\$2.23	\$2.57		
3"	\$55.20	\$15.99	\$1.94	\$2.23	\$2.57		
4"	\$103.69	\$15.99	\$1.94	\$2.23	\$2.57		

ALTERNATIVE "B" – ANNUAL % INCREASES					
Year	% Increase (Meter Rates)	% Increase (Commodity Charge – Tier 1)			
2008 to 2009	23%	23%			
2009 to 2010	23%	23%			
2010 to 2011	23%	23%			

Year	% Increase (Tier 1 to Tier 2)	% Increase (Tier 2 to Tier 3)
2009	15%	15%
2010	15%	15%
2011	15%	15%

ANTICIPATED REVENUE ANALYSIS - ALTERNATIVE "B"					
	2009	2010	2011	2009 - 2011	
Anticipated	\$467,000	\$594,000	\$754,000	\$1,815,000	
Revenue					
Budget	\$567,000	\$590,000	\$658,000	\$1,815,000	
Requirements					
Difference	-\$100,000	\$4,000	\$96,000	\$0	



Alternative "C" – Conservation Rates + Debt Service (Fixed Rates & Commodity Rates increase at same percent – Constant Increase over three years – Debt service partially subsidized by existing fund balance):

Alternative "C" is similar in structure to Alternative "B", with the exception that \$243,000 of the debt service is assumed to be funded by the existing fund balance over the three year period. This results in an annual increase of 15% in order to generate sufficient funds. Any additional monies, such as revenues for growth beyond that which is assumed, or the funding of the Public Works Director could also be used to help fund the debt service.

Meter Size	Meter Rate	Meter Rate per Additional Unit	Commodity Charge per 100 CF (0-600 CF)	Commodity Charge per 100 CF (601 – 1,200 CF)	Commodity Charge per 100 CF (1,200+ CF)
5/8" or 3/4"	\$17.88	\$14.95	\$1.82	\$2.09	\$2.40
1"	\$22.60	\$14.95	\$1.82	\$2.09	\$2.40
1 ½"	\$24.38	\$14.95	\$1.82	\$2.09	\$2.40
2"	\$42.55	\$14.95	\$1.82	\$2.09	\$2.40
3"	\$51.61	\$14.95	\$1.82	\$2.09	\$2.40
4"	\$96.95	\$14.95	\$1.82	\$2.09	\$2.40

ALTE	RNATIVE "C" - AN	INUAL % INCREASES
Year	% Increase (Meter Rates)	% Increase (Commodity Charge – Tier 1)
2008 to 2009	15%	15%
2009 to 2010	15%	15%
2010 to 2011	15%	15%

ALTERNATIVE "C" - COMMODITY CHARGE % INCREAS  Year % Increase % Increase (Tier 1 to Tier 2) (Tier 2 to Tier 3					
2009	15%	15%			
2010	15%	15%			
2011	15%	15%			

ANTICIPATED REVENUE ANALYSIS – ALTERNATIVE "C"					
	2009	2010	2011	2009 - 2011	
Anticipated Revenue	\$437,000	\$519,000	\$616,000	\$1,572,000	
Budget Requirements	\$486,000	\$509,000	\$577,000	\$1,572,000	
Difference	-\$49,000	\$10,000	\$39,000	\$0	



Comparison of Alternatives:

	ANTICIPATED	REVENUE - F	RATE ALTERN	ATIVES
	2009	2010	2011	2009-2011
"A"	\$450,000	\$590,000	\$775,000	\$1,815,000
"B"	\$467,000	\$594,000	\$754,000	\$1,815,000
"C"	\$437,000	\$519,000	\$616,000	\$1,572,000

	COM	PARISON OF	ALTERNA	TIVES	
Alternative	Meet O&M Budget Needs	Meet Exist. Deficiency Budget Needs	Max of 10% Increase +/-	Funds Debt Service	Encourage Conservation
"A"	Yes	No	No	Yes	No
"B"	Yes	No	No	Yes	Yes
"C"	Yes	No	No	Yes	Yes

#### USER RATE RECOMMENDATIONS

It is recommended that the City of Black Diamond adopt updated water user rates as outlined in Alternative "C" above. Alternative "C" represents a 15% annual increase across the board (meter rates, meter rates per additional units, and commodity charges).

Alternative "C" will provide sufficient revenue from user rates to support the City's project Operations and Maintenance budget needs, as well as to pay off debt. This alternative also promotes conservation with a 15% increase between tiers on the commodity charges.

Alternative "C" does not address funding of projects to address existing system deficiencies. However, none of the alternatives considered generate sufficient revenue. Revenues collected in excess of budget expenses can be dedicated to capital projects and may allow for an opportunity to begin early design or construction of some projects. The City has not raised their rates in quite some time and a larger increase would be required in order to fully fund all system needs. However, due to the financial effects on customers, it is recommended that the City push back some of these improvement projects to later years or utilize reserve funds and adopt these lower rates and continue to adjust the rates as necessary in order to eventually have the water user rates be in line with the budgetary needs.

The revenue assumptions included in this study are conservative in that they assume only residential users with a single meter. In reality, there is a mix of user types which will result in increased revenues due to higher meter rates for larger meter sizes, as well s the additional revenues associated with meter rates for additional units. These conservative assumptions help to offset any reductions in anticipated revenues due to a reduction in water use. A tiered water rate system which encourages conservation could result in a decrease of water use typically in the range of two to five percent.



	RECOMM	ENDED WATE	ER USER RAT	ES - YEAR 20	09
Meter Size	Meter Rate	Meter Rate per Additional Unit	Commodity Charge per 100 CF (0-600 CF)	Commodity Charge per 100 CF (601 – 1,200 CF)	Commodity Charge per 100 CF (1,200+ CF)
5/8" or 3/4"	\$17.88	\$14.95	\$1.82	\$2.09	\$2.40
1"	\$22.60	\$14.95	\$1.82	\$2.09	\$2.40
1 1/2"	\$24.38	\$14.95	\$1.82	\$2.09	\$2.40
2"	\$42.55	\$14.95	\$1.82	\$2.09	\$2.40
3"	\$51.61	\$14.95	\$1.82	\$2.09	\$2.40
4"	\$96.95	\$14.95	\$1.82	\$2.09	\$2.40

#### **BUDGET ANALYSIS**

The water user rates that have been recommended for the City of Black Diamond are adequate to meet anticipated budget expenses as summarized in the following table. It should be noted that the revenue predictions are a conservative estimate and assume that all future growth will be single family residential growth. Any multi-family or commercial growth will result in additional revenue generated. It is recommended that the rates be reevaluated in the future should actual growth vary greatly from these assumptions.

BUDGET EXPENSES VS REVENUE						
Alternative	2009	2010	2011	2009-2011		
Operations, Maintenance, & Administration Expenses	\$324,000	\$344,000	\$404,000	\$1,072,000		
O&M Reserve funded by Rates*	\$0	\$5,000	\$15,000	\$20,000		
Debt Service	\$243,000	\$241,000	\$239,000	\$723,000		
Subtotal Expenses	\$567,000	\$590,000	\$658,000	\$1,815,000		
Anticipated Revenue	\$437,000	\$519,000	\$616,000	\$1,572,000		
Debt Service Revenue funded by Existing Fund Balance	\$130,000	\$71,000	\$42,000	\$243,000		
Revenue less Expenses	\$0	\$0	\$0	\$0		

\*Initial balance of \$81,000 recommended to be funded by existing reserve funds and preserved. The amounts shown reflect the necessary annual increase.



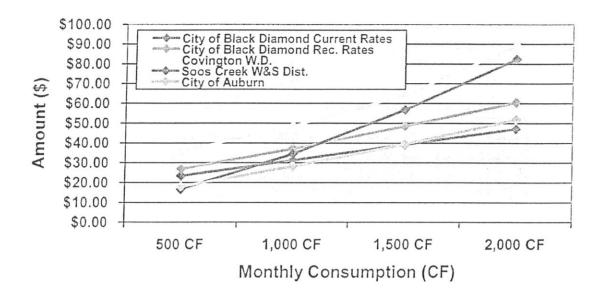
It is recommended that the City dedicate any excess funds that may be collected from water user rates towards capital project expenses that address existing system deficiencies and are not typically funded by connection charges. Additionally, it is recommended that the temporary Yarrow Bay Reimbursement of the Public Works Director salary be dedicated towards capital project expenses as well. Should a lower amount of revenue be collected than anticipated, these excess funding will also be available to fund Operations and Maintenance expenses if necessary. These funds are able to cover any fluctuations in rate collections.

#### JURISDICTIONAL COMPARISON OF USER RATES

The water user rates that have been recommended for the City of Black Diamond are consistent with rates that have been adopted by nearby jurisdictions of similar size. The City of Black Diamond is in the middle of the range for low consumption users for both the current user rates and the recommended user rates. With the current rates, the City of Black Diamond is at the bottom of the range for high users. With the recommended rates, the City will be in the middle of the range for high users, while still significantly below Covington Water District and Soos Creek Water and Sewer District. The following table provides a comparison of monthly water user rates between a typical single family residential user for various levels of consumption.

JURISD	ICTIONAL C	OMPARISO	N (SFR USE	R)	
	City of Black Diamond (Current Rates)	City of Black Diamond (Rec. Rates)	Covington Water (Summer Rates)	Soos Creek (Summer Rates)	City of Auburn
<i>,</i>	dopted / Re	commende	d Rates		
Meter Base Rate	\$15.55	\$17.88	\$25.00	\$8.85	\$9.08
Consump. Rate for 500 CF	\$1.58	\$1.82	\$2.15	\$1.58	\$1.80
Consump. Rate for 1,000 CF	\$1.58	\$2.09	\$3.15	\$3.56	\$2.21
Consump. Rate for 1,500 CF	\$1.58	\$2.40	\$3.15	\$4.46	\$2.21
Consump. Rate for 2,000 CF	\$1.58	\$2.40	\$5.45	\$5.10	\$2.50
	Typica	Monthly B	I		
500 CF	\$23.45	\$26.98	\$35.75	\$16.75	\$18.08
1,000 CF	\$31.35	\$37.16	\$48.50	\$34.55	\$28.31
1,500 CF	\$39.25	\$48.54	\$64.25	\$56.85	\$39.36
2,000 CF	\$47.15	\$60.54	\$89.20	\$82.35	\$51.86





#### City of Black Diamond Storm Drainage User Rates Study

Background & Purpose	
Analysis Methodology	
Storm Drainage Funds Structure & Reserve Recommendations	
Budget Requirements	
User Rate Recommendations	
Jurisdictional Comparison of User rates	. 4

#### BACKGROUND & PURPOSE

The City of Black Diamond is operating under a National Pollution Discharge Elimination System (NPDES) Phase II Municipal Stormwater Permit. As part of meeting the permit requirements, the City is pursuing the establishment and adoption of a storm drainage utility. This user rate study has been prepared to determine the appropriate storm drainage user rates to be imposed on customers.

The City is currently operating under a development moratorium which is anticipated to be lifted in late 2008. Significant growth is anticipated to occur within the City following the removal of the moratorium. The City desires to adopt storm drainage user rates to ensure that collected revenue adequately covers existing and projected costs associated with operating a storm utility and providing adequate service to its customers.

The City's storm rates are comprised of two components: 1) <u>User rates</u> based on monthly storm rates as well as charges based on impervious surface areas; and 2) <u>Connection charges</u> (also known as capital facility charges) which fund system improvements required as a result of new growth. This report analyzes the City's Storm Drainage User Rates. An analysis of the City's Storm Drainage Connection Charges is covered in a separate report.

#### ANALYSIS METHODOLOGY

Storm drainage user rates have been analyzed for a three year period from 2009 to 2011. Since there are many assumptions incorporated into these rates based on projections of new development, it is recommended that a rate study be conducted in the future for years beyond this planning period.

An annual population growth rate of 2.85% has been utilized for growth projections within the existing developed City for the period following the removal of the moratorium. Additionally, the addition of new customers has been projected based on conversations with Yarrow Bay due to the fact that significant development is anticipated to occur within the City of Black Diamond during the period of analysis covered by this Storm Rate Study.

Growth projections for new development are based on conversations with Yarrow Bay regarding potential build rates for development that is anticipated to occur within the City of



Black Diamond. A two-year delay in projected growth has been applied to Yarrow Bay projections to provide for a more realistic assumption in projected revenues.

It should be noted that the customer basis for the stormwater utility is different than the customers for either the water or sewer utility billings. The stormwater utility will be imposed on all developed properties within the City of Black Diamond, regardless of the purveyor for sewer and/or water service. The inclusion of storm drainage utility customers in the Lake Sawyer area is the most important distinction between the customers for the various utility billings.

Storm drainage utility needs have been analyzed on a per Equivalent Residential Unit (ERU) basis. 2,500 square feet has been established as one equivalent residential unit. All single-family residences are equal to one ERU, duplexes are equal to two ERU's, and triplexes are equal to three ERU's. The number of ERUs for all other developed properties were determined by field measuring the area of impervious ground cover and dividing by 2,500 square feet per ERU. The number of ERU's for each developed property has been rounded up to the nearest half of an ERU. Each developed property has been assumed to contain a minimum of one ERU. The storm drainage utility rates are not imposed on undeveloped parcels nor public roadway right-of-ways.

It is assumed that connections to the system will be made in one calendar year and user rates will be charged for the new ERU's in the following year. No credit for partial years has been assumed.

(Us	OJECTED ERU er rates assum following year	ed to begin bi	lling
2008	2009	2010	2011
2345.5	2412.5	2481.5	2552.5

STORM DRAINAGE FUNDS STRUCTURE & RESERVE RECOMMENDATIONS It is recommended that the City of Black Diamond establish two storm-related funds, as follows: Fund #1 – Storm Operating Fund; and Fund #2 – Storm Capital Fund. The Operating and Capital funds should maintain a reserve within the fund rather than as a separate fund.

Operating Fund: The Operating Fund shall be funded by monies collected for Storm Drainage User Rates and shall fund the City's Storm Operations and Maintenance Program. It is recommended that the City maintain an operating reserve that is equivalent to three months. It is recommended that this reserve be built up over the first three years that the fund is established. This reserve helps balance cash flows.

Capital Fund: The Capital fund shall be funded primarily by Storm Drainage Connection Charges and shall fund expenditures related to the City's Storm Drainage Capital Improvements Program. Additional funding sources such as grants and loans may supplement connection charges. Also, transfers from the



Operating fund should occur to support those capital projects deemed to benefit the existing rate base. It is recommended that the City maintain a capital reserve based on any outstanding debt service. It is recommended that at a minimum a capital reserve in the amount of 50% of the annual debt service requirements be maintained in the capital fund.

#### **BUDGET REQUIREMENTS**

The following are the projected budget requirements for a three year period. They have been developed based on the City's preliminary 2009 budget, which also includes forecasts for 2010 and 2011.

BUDGET REQUIREMENTS						
	2009	2010	2011			
Operations, Maintenance, & Administration	\$222,000	\$237,000	\$290,000			
Sewer Debt Repayment	\$20,000	\$20,000	\$20,000			
O&M Reserve *	\$23,000	\$25,000	\$25,000			
Project costs / Transfer to Capital Fund ** Phase II Implementation	\$100,000	\$100,000	\$100,000			
Yarrow Bay PWD Reimbursement ***	-\$36,000	-\$38,000	-\$40,000			
TOTAL - O&M FUND REQ.	\$365,000	\$382,000	\$435,000			

<sup>\*</sup> The O&M reserve balance is recommended to be \$73,000 over the three year period. It is recommended that this be built up over the three year period.

#### USER RATE RECOMMENDATIONS

The table below outlines the recommended stormwater user rate for the next three years. It is recommended that the City of Black Diamond adopt a three-year rate. At the end of the three year period, it is recommended that the City evaluate and revise the rate as necessary. The proposed rate increase for 2010 is 4.6% and 4.4% for 2011.

The rate has been established at a level that will support an annual budget for project costs to address existing system deficiencies. This will allow for the collection of monies early after the storm rates are established. These monies can be used to start design of capital improvement projects or the City may elect to direct these monies to early repayment of debt to the sewer fund.

RECOMM	ENDED STORM L	JSER RATES
2009	2010	2011
\$13.00	\$13.60	\$14.20



<sup>\*\*</sup> Proposed project improvements will be included in the City's Storm Comprehensive Plan currently being developed.

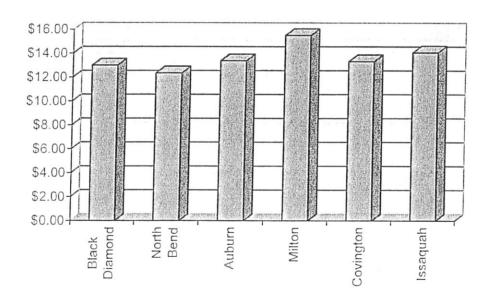
<sup>\*\*\*</sup> The reimbursement for Public Works Director salary expenses is included for informational purposes only. This credit has not been included in the storm user rate establishment as it is a temporary credit that will soon expire. It is recommended that these funds be utilized to retire the sewer loan early or to fund capital projects to address existing system deficiencies.

BUDGET EXPENSES VS REVENUE (STORM USER RATES)						
	2009	2010	2011	2009 - 2011		
Revenue	\$366,000	\$394,000	\$423,000	\$1,183,000		
Expenses	\$365,000	\$382,000	\$435,000	\$1,182,000		
Difference	\$1,000	\$12,000	-\$12,000	\$1,000		

#### JURISDICTIONAL COMPARISON OF USER RATES

The storm user rates that have been recommended for the City of Black Diamond are consistent with rates that have been adopted by nearby jurisdictions of similar size. The City of Black Diamond recommended rates are towards the middle of the various rates for the jurisdictions included in the comparison. The following table provides a comparison of monthly storm user rates for a single family residential user.

JURISDICTIONAL COMPARISON (SFR USER)							
City of Black Diamond (Rec. Rates)	City of North Bend	City of Auburn	City of Milton	City of Covington	City of Issaquah	Average (not. Incl. Black Diamond)	
\$13.00	\$12.36	\$13.38	\$15.50	\$13.33	\$14.08	\$13.73	





### City of Black Diamond Proposed Rate Increases

Single Family Customer (500 CF water consumption)

		Water		Storm Drainage		Total	
2008	Current Rate	\$	23.45	\$	-	\$	23.45
	Proposed Rate	\$	26.98	\$	13.00	\$	39.98
	\$ Increase	\$	3.53	\$	13.00	\$	16.53
2009	% Increase		15.1%		N/A		70.5%
	Proposed Rate	\$	31.03	\$	13.60	\$	44.63
	\$ Increase	\$	4.05	\$	0.60	\$	4.65
2010	% Increase		15.0%		4.6%	1 1/2 A 1 1/2 A 1 1/2 M	11.6%
Service of the servic	Proposed Rate	\$	35.68	\$	14.20	\$	49.88
	\$ Increase	\$	4.65	\$	0.60	\$	5.25
2011	% Increase		15.0%		4.4%		11.8%