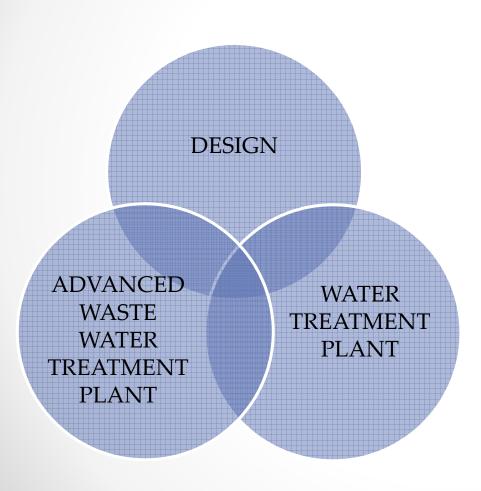
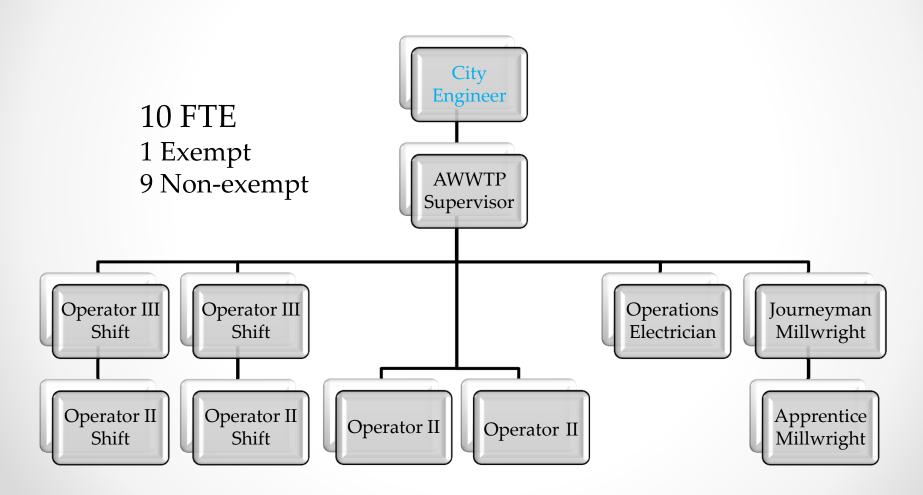
ENGINEERING BUDGET OVERVIEW



- THREE AREAS; DESIGN, AWWTP and WTP
- OPERATING AND CAPITAL BUDGET FOR EACH
- DESIGN OPERATING BUDGET
- AWWTP OPERATING BUDGET.
- WTP OPERATING BUDGET
- AWWTP AND WTP CAPITAL BUDGET.
- DESIGN CAPITAL BUDGET.

ADVANCED WASTE WATER TREATMENT PLANT TEAM



ADVANCED WASTE WATER TREATMENT PLANT FUNCTION

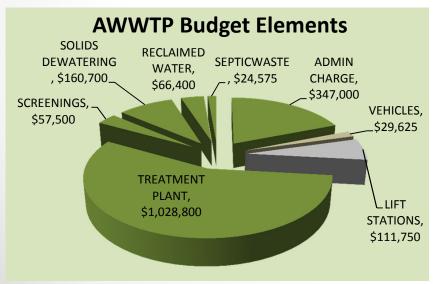
- Treat raw wastewater from collection system and trucked-in septic waste to create safe product for disposal to landfill and water receiving body.
- Maintain (9) lift stations at low points around City.
- Produce and distribute reclaimed water for irrigation and other uses.
- 24/7/365 days per year operation.

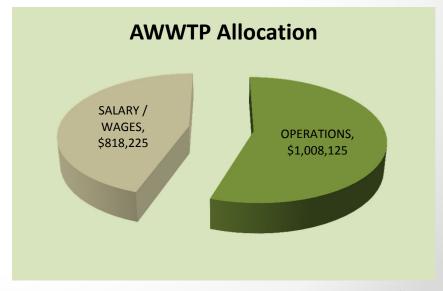
•	Treatment	Capacity:		27 Ml / Day
	- 1 1	-	-	1 1 / -

- Peak day volume treated:
 17 Ml / Day
- Raw wastewater and septic waste in: 4,540 Ml/yr
- Treated effluent out (irrigation): 670 Ml / yr
- Treated effluent out (waste): 3,860 Ml / yr
- Treated sludge out: 818,561 Kg / yr

AWWTP BUDGET \$1,826,350

	2012	2011	VARIANCE
ADMINISTRATION CHARGE	\$347,000	\$329,300	\$17,700
VEHICLES	\$29,625	\$27,744	\$1,881
LIFT STATIONS	\$111,750	\$105,700	\$6,050
TREATMENT PLANT	\$1,028,800	1,002,000	\$26,800
SCREENINGS (HAULED BY CONTRACTOR)	\$57,500	\$60,500	(\$3,000)
SOLIDS DEWATERING	\$160,700	\$158,600	\$2,100
RECLAIMED WATER	\$66,400	\$-	\$66,400
SEPTIC WASTE HANDLING	\$24,575	\$28,950	(\$4,375)
TOTALS	\$1,826,350	\$1,712,794	\$113,556





AWWTP OPERATING BUDGET HIGHLIGHTS

- Administration charge has increased +17,700
- Plant vehicle cost decreased, transfer in from PW results in net increase
 +1,881
- Wages reflect incremental increase in all items
- Wages have been re-allocated to reflect actual effort anticipated at each operation location.
- Treatment plant management expense was previously charged to capital upgrade project incumbent retired and expense now charged to Operating within Treatment Plant item.
- Power costs expected to increase for all items (significant for plant and lift stations) +\$24,900
- New screenings and sludge hauling contract -\$3,000
- Solids dewatering process changed +\$2,100
- Reclaimed water (treated effluent) operation now tracked separately to facilitate charging structure +\$66,400
- Septage handling optimised -\$4,375
- Budget relies on estimates of operating costs for untested new plant processes.
- NET BUDGET INCREASE FROM 2011 TO 2012 IS \$113,556





ENGINEERING AWWTP OPERATING BUDGET DETAILED REVIEW

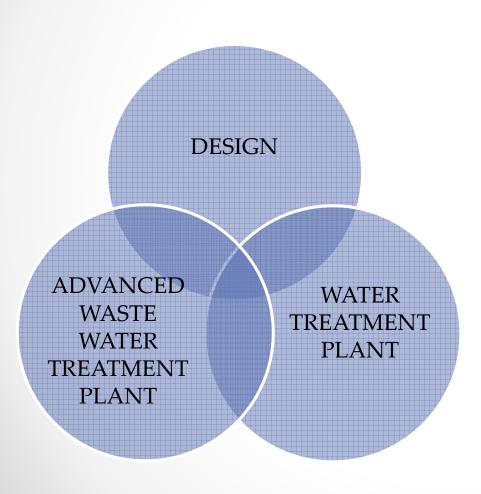
Department:		SEWE	R UTILITY - EXPENDITURES	F	PAGE: 49.2
Account_	Proj	Task	Description	2012 Budget	2011 Budget
-	0558	ADMINI	STRATION CHARGE		
	0558-01	General	Revenue Fund	347,000	329,300
•	0560	VEHICL	ES		
	0560-01	#41 Utilit	ty Truck	5,500	5,500
	0560-01	#94 WC	Supervisor	-	5,500
	0560-01	Waste V	Vater Supervisor	5,500	1,375
	0560-01	Cub Cac	det	3,500	3,500
	0560-01	#38 De	livery Vehicle	5,500	5,500
	0560-01	P/W Sha	ared Vehicles	9,625	6,369
				29,625	27,744

n_120000	0553	LIFT STATIONS - SOEC		
	0553-01	Operator Wages	7,550	7,900
	0553-02	Parts & Equipment	3,000	3,000
	0553-03	Technical Assistance-Elec,Welder	1,500	1,500
	0553-04	Electricity	6,600	6,000
	0553-05 Diesel Fuel			700
	0553-06 Water			1,000
	0553-07	Grounds Maintenance	1,000 1,000	1,000
	0553-08	Radio License	100	100
			.00	
	0553	LIFT STATIONS - Lee Ave		
	0553-11	Operator Wages - Lee Ave	11,000	7,900
	0553-12	Parts & Equipment	3,000	3,000
	0553-13	Technical Assistance-Elec,Welder	1,500	1,500
	0553-14	Electricity	6,600	6,000
	0553-15	Natural Gas	700	700
	0553-16	Water	1,000	1,000
	0553-17	Building Maintenance	1,000	1,000
	0553-18	Radio License	100	100
	0553	LIFT STATIONS - Other		
	0553-21	Operator Wages - Other Stations	27,800	29,100
	0553-22	Parts & Equipment	3,000	3,000
	0553-23	Technical Assistance-Elec,Welder	2,000	2,000
	0553-24	Electricity	4,500	4,100
	0553-25	Chemicals	25,000	22,000
	0553-26	Water	1,500	1,500
	0553-27	Building Maintenance	1,000	1,000
	0553-28	Radio License	600	600
			111,750	105,700

Department:		SEWER UTILITY - EXPENDITURES			PAGE: 49.3
					2011
Account	Proj	Task	Description	Budget	Budget
-					
-0000-120000	0554	SEW	AGE TREATMENT PLANT & DISPOSAL		
	0557-01	Wate	r Quality Supervisor	99,750	26,800
	0554-01	Buildi	ng Maintenance	10,000	12,000
	0554-02	Contir	ngencies		30,000
	0554-03	Grour	nds Maintenance	6,000	10,000
	0554-04	Lab S	upplies & Control Equipment	28,000	28,500
	0554-05	Chlori	ne & Sulphur Dioxide	4,000	25,000
	0554-06	Proce	ss Chemicals	5,000	5,000
	0554-07	Petro	eum Products	4,000	4,000
	0554-08	Parts	& Equipment	53,000	34,000
	0554-09	Tech	nical Assistance-Elec/Boiler/Gas	14,000	14,000
	0554-10	Opera	ator Wages	505,100	531,600
	0554-11	Overti	me - 11 Stats & Callouts	25,500	25,000
	0554-12	Opera	ator Standby	29,000	28,000
	0554-13	Electr	icity	175,000	160,100
	0554-14	Natura	al Gas	30,000	23,300
	0554-15	Small	Tools	4,000	5,000
	0554-16	Water	r	4,100	4,100
	0554-17	Softwa	are Support	11,600	11,600
	0554-18	Provi	ncial Permits	5,000	5,000
	0554-19	Cove	rall Rental, etc	5,000	5,000
	0554-20	Scum	Removal	2,000	2,000
	0554-21	Office	Supplies	-	5,000
	0554-22	Safety	y Equipment	7,000	7,000
	0554-23	Safety	/ Meetings		
	0554-24	Comn	nunications	1,750	
				1,028,800	1,002,000

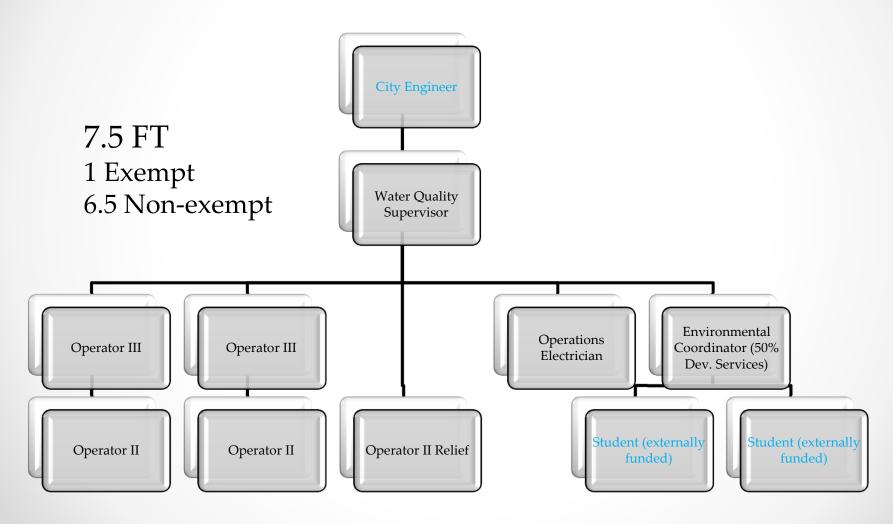
-0000-120000	0555	SCREENINGS HAULED BY CONTRACTOR		
	0555-01	2 Loads/wk	7,500	7,500
	0555-02	Hauling Dewatered Sludge	50,000	53,000
			57,500	60,500
.0000-120000	0556	SOLIDS DEWATERING		
	0556-01	Operator Wages	92,700	103,600
	0556-02	Parts & Equipment	4,000	4,000
	0556-03	Polymer	60,000	47,000
	0556-04	Technical Assistance	4,000	4,000
	0000 04	Teermoat Assistance	160,700	158,600
•	0556	RECLAIMED WATER		
	0556-05	Operator Wages	9,900	-
	0556-06	Parts & Equipment	7,500	-
	0556-07	Electricity	25,000	-
	0556-08	Lab Supplies	1,000	-
	0556-09	Chlorine & Sulphur Dioxide	18,000	-
	0556-10	Technical Assistance	5,000	-
			66,400	
	0553	SEPTIC WASTE FACILITY		
	0553-40	Operator Wages	9,925	10,400
	0553-41	Electricity & Natural Gas	4,400	4,000
	0553-42	Scum, Screening & Hauling	1,000	1,000
	0553-43	Lab Supplies	500	500
	0553-44	Parts & Equipment	5,000	3,000
	0553-45	Building & Grounds Maintenance	750	750
	0553-46	Equipment Replacement		5,000
	0553-47	Treatment Plan Costs	3,000	3,300
	0553-48	Contingency		1,000
			24,575	28,950

ENGINEERING BUDGET OVERVIEW



- THREE AREAS; DESIGN, AWWTP and WTP
- OPERATING AND CAPITAL BUDGET FOR EACH
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- WTP OPERATING BUDGET.
- AWWTP AND WTP CAPITAL BUDGET.
- DESIGN CAPITAL BUDGET.

WATER TREATMENT PLANT TEAM



WATER TREATMENT PLANT FUNCTION

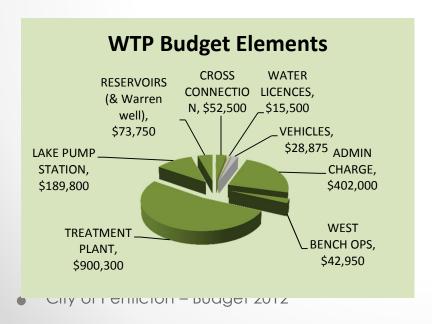
- Supply Penticton with an adequate supply of water that meets the Guidelines for Canadian Drinking Water Quality.
- Maintain reservoirs with sufficient volumes to meet peak drinking water and fireflow demands.
- Develop and promote water conservation.
- Promote and monitor the cross connection control programme.
- 24/7/365 days per year operation.

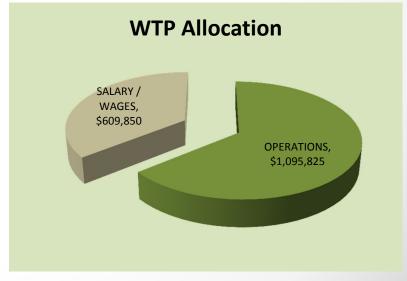
•	Treatment Capacity:	88 Ml/Day
	D. 1 1 1 ((. 1	10 N/1 / D

- Peak day volume treated: 40 MI / Day
- Raw water in: Lake source 5,128 Ml / yr
- Raw water in: Creek source 1,763 Ml / yr
- Treated water out: 6,665 Ml / yr

WTP OPERATING BUDGET \$1,705,675

	2012	2011	VARIANCE
CROSS CONNECTION	\$52,500	\$94,000	(\$41,500)
WATER LICENCES	\$15,500	\$15,500	\$0
VEHICLES	\$28,875	\$28,369	\$506
ADMINISTRATION CHARGE	\$402,000	\$383,700	\$18,300
WEST BENCH	\$42,950	\$46,700	(\$3,750)
WATER TREATMENT PLANT	\$900,300	\$941,200	(\$40,900)
PUMP STATION	\$189,800	\$170,360	\$19,440
RESERVOIRS AND WARREN AVE WELL	\$73,750	\$70.350	\$3,400
TOTALS	\$1,705,675	\$1,750,179	(\$44,504)





WTP OPERATING BUDGET HIGHLIGHTS

Cross-connection costs reduced	with	transfer	of staff	person
to Development Services			-\$41,5	500

- Administration charge has increased +18,300
- Plant vehicle cost decreased, transfer in from PW results in net increase +\$506
- West Bench reservoir cleaning completed 2011 -\$3,000
- Wages reflect incremental increase in all items
- Wages have been re-allocated to reflect actual effort anticipated at each operation location.
- Treatment plant:

Relief operator eliminated	-\$35,100
Creekflow calibration added	+\$3,000
Beach coliform monitoring task added	+\$4,000
Cellphone communication charged added	+\$2,000

- Power costs expected to increase for all items (significant for plant and pump station) +\$24,900
- NET BUDGET DECREASE FROM 2011 TO 2012 IS \$44,504





ENGINEERING WTP OPERATING BUDGET DETAILED REVIEW

Department:		WATER UT	ILITY - EXPENDITURES	F	PAGE: 52.2
·				2012	2011
Account	Proj	Task	Description	Budget	Budget
-					
		0000	O CONNECTION CONCERNATION PROCESSA		
	0577.00		S CONNECTION/CONSERVATION PROGRAM	0.000	F 000
	0577-20		Connection Program	3,000	5,000
	0577-21		Connection Program - Wages	19,000	36,000
	0577-22	Cross	Connection Program-Newsletter	00.000	3,500
				22,000	44,500
	0577-25	Conse	rvation Program	8,000	10,000
	0577-26		rvation Program - Wages	19,000	36,000
	0577-28		rvation Program-Newsletter	3,500	3,500
	0577-30		rvation Program - Regional	2,222	-,
				30,500	49,500
			•		
	579	\\/ A T E	R LICENCE FEE		
				15 500	15 500
	0579-01	Annua	Assessment	15,500	15,500
	0583	VEHIC	LES		
	0583-01	# 100 0	Cross Connection Program	2,750	5,500
	0583-01		ater Plant Vehicle	5,500	5,500
	0583-01	Water	Plant Supervisor - Vh Allowance	5,500	5,500
	0583-01		perations	5,500	5,500
	0583-01	•	lity Foreman	5,500	5,500
		_			
			an - Allocation to other Depts		
	0583-01	Roads		(1,100)	-1,100
	0583-01	Sewer		(2,200)	-2,200
	0583-01	P/W S	hared Vehicles	7,425	4,169
				28,875	28,369

•	0588	ADMINISTRATION CHARGE		
	0588-02	PIB Lease/Taxes	1,000	
	0588-01	General Revenue Fund	401,000	383,700
			402,000	383,700

Department:		WATER UTILITY - EXPENDITURES			PAGE: 52.3	
				2012	2011	
Account_	Proj	Task	Description	Budget	Budget	
-0000	0592	RECOV	/ERABLE - West Bench Irrigation			
	0592-01	Pump S	Station	14,000	15,000	
	0592-02	Distribu	ition Sampling	5,450	5,000	
	0592-03	Reserv	oir Cleaning		3,000	
	0592-04	Chlorine	e	1,000	1,200	
	0592-05	Technic	cal Assistance	3,000	3,000	
	0592-06	Building	g Maintenance	1,000	1,000	
	0592-07	Valve N	Maintenance	2,500	2,500	
	0592-08	Hydran	t Maintenance	8,000	8,000	
	0592-09	Work O	Orders	5,000	5,000	
	0592-10	Call Ou	ts	3,000	3,000	
			_	42,950	46,700	

000	0590	TREATMENT PLANT		
		Water Treatment Plant Supervisor	99,700	98,700
	0590-01	Building Maintenance	5,000	5,000
	0590-02	Contingencies		5,000
	0590-03	Grounds Maintenance	6,000	6,000
	0590-04	Lab Supplies & Control Equipment	7,000	10,000
	0590-05	Chemicals	160,000	160,000
	0590-06	Petroleum Products	4,000	4,000
	0590-07	Parts & Equipment	25,000	25,000
	0590-08	Technical Assistance-Elec,Welder	10,000	15,000
	0590-09	Operator Wages	375,900	411,000
	0590-10	Overtime - 11 Stats & Callouts	15,000	15,000
	0590-11	Operator Standby	25,000	25,000
	0590-12	Electricity	66,000	60,000
	0590-13	Natural Gas	22,000	22,000
	0590-14	Telephone (line Charges)	2,500	2,500
	0590-15	Water	500	500
	0590-16	Sewer Charges	500	500
	0590-17	Coverall Rental	1,200	1,500
	0590-18	Waste Removal	1,000	1,000
	0590-19	Safety Equipment	2,000	2,000
	0590-20	Sewer Use Charges - Solids	24,000	25,000
	0590-21	Software Updates/Support	11,000	11,000
	0590-22	Water Testing	13,000	13,000
	0590-23	Overtime & Call-outs	10,000	10,000
	0590-24			
	0590-25	Centrifuge sludge hauling & tipping fees	1,000	7,500
	0590-26	Small Tools Equipment	4,000	5,000
	0590-27	Calibrate Creekflow stations	3,000	
	0590-28	Beach coliform Monitoring	4,000	
	0590-29	Communications	2,000	
			900,300	941,200

F	0591	PUMPING STATIONS		
		Okanagan Lake Intake Station		
	0591-01	Operator Wages	13,000	6,860
	0591-02	Parts & Equipment	6,000	8,000
	0591-03	Technical Assistance	2,500	2,500
	0591-04	Electricity	165,000	150,000
	0591-05	Fuel	1,500	1,500
	0591-06	Building Maintenance	1,000	1,000
	0591-07	Communications	800	500
	0591-08			
			189,800	170,360

• City of Penticton – Budget 2012

Department: WATER UTILITY		VATER UTILITY - EXPE	NDITURES	PAGE: 52.4	
Account	Proj T	ask	Description	2012 Budget	2011 Budget
0000 100000	0589	RESERVOIRS - Dunc	on Avo		
	0589-11	Operator Wages	anave	2,200	4,600
	0589-11	Parts & Equipment		500	1,000
	0589-12	Technical Assistance		1,500	1,000
	0589-14	Electricity		5,500	5,000
	0589-15	Fuel		300	300
	0589-16	Building Maintenance		1,000	1,000
	0589-17	Communications		500	500
	0000 17	Communications	-	11,500	13,400
		Ridgedale Ave Reser	voir _	11,000	10,100
	0589-21	Operator Wages		8,650	9,100
	0589-22	Parts & Equipment		2,000	2,000
	0589-23	Technical Assistance		2,000	2,000
	0589-24	Electricity		18,000	15,000
	0589-25	Fuel		2,000	2,000
	0589-26	Building Maintenance		1,000	1,000
	0589-27	Communications		500	500
			-	34,150	31,600
		Smaller Reservoirs &	PRV Station		
	0589-31	Operator Wages		12,500	9,100
	0589-32	Parts & Equipment		5,000	5,000
	0589-33	Technical Assistance		2,000	3,000
	0589-34	Electricity		2,200	2,000
	0589-35	Fuel		1,000	1,000
	0589-36	Building Maintenance		1,000	1,000
	0589-37	Communications		500	500
			_	24,200	21,600
		Warren Ave Well			
	0589-41	Operator Wages		450	500
	0589-42	Parts & Equipment		500	500
	0589-43	Technical Assistance		500	500
	0589-44	Electricity		1,200	1,000
	0589-45	Fuel			
	0589-46	Building Maintenance		1,000	1,000
	0589-47	Communications	_	250	250
			0 (=00)	3,900	3,750
Penticton	Budget 20	712	Sub-total - (589) _	73,750	70,350

Engineering Fees and Charges Changes

Description	2011 Fee	Proposed 2012 Fee	Type of Change	Fee Calculation	Notes
Reclaimed treated effluent for irrigation		Two part fee; Monthly fixed charge based upon meter size ranging from \$8.63/month (up to 3/4") to \$2,126/month (6") PLUS variable consumption charge \$0.22/100 cubic feet	New Fee	Monthly fee is based upon 50% of treated water fee. Variable consumption fee is calculated to reflect power, chemical and equipment depreciation costs.	 New fee:- Reflects value to consumers of a reliable irrigation water product. Is priced to be an attractive alternative to treated potable water. Reflects additional costs to consumers associated with use of treated effluent.
Treated water rates: Monthly fixed treated water meter rates based on meter size.		Addition of monthly fixed charge for metered large water services based on meter sizes 8", 10" and 12".	New fee	Based on graphical extrapolation of existing smaller meter monthly charges.	New fee is in response to anticipated need for larger diameter services than are currently included in the fees and charges bylaw.
Treated water rates: Monthly non-metered treated water rates based on service size.		Addition of monthly fixed charge for unmetered large water services based on services sized 8", 10" and 12".	New Fee	Based on graphical extrapolation of existing smaller service size monthly charges.	New fee is in response to anticipated need for larger diameter services than are currently included in the fees and charges bylaw.

[•] City of Penticton – Budget 2012