

Results of the customer survey conducted in the fall of 2006 are presented.

Customer Survey Results

3.04% 0.84% 5.57% 48.65% 41.89% 2. How would you rate the service provided by the staff of your water utility?	592
3.04% 0.84% 5.57% 48.65% 41.89% 2. How would you rate the service provided by the staff of your water utility?	592
2. How would you rate the service provided by the staff of your water utility?	
Vary low Relew average Average Above Average V IE-b	
Very low Below average Average Above Average Very High	
2 1 157 262 156 5	578
0.35% 0.17% 27.16% 45.33% 26.99%	
3. Do you believe yourself to be informed on District and valley-wide water issues?	
Not informed at all Less informed than most Average knowledge Above average knowledge Very informed	
* *** ***	591
1.02% 5.41% 59.73% 21.32% 12.52%	
4. Do the BMID newsletters provide you with relevant information on water issues that you are facing?	
Not at all Marginal Information Adequate Information Good Information Very good Information	-04
	581
0.69% 3.79% 22.55% 53.70% 19.28%	
5. How frequently would you like a newsletter on water issues?	
Monthly Quarterly Bi-annually Annually	
20 257 221 93	591
3.38% 43.49% 37.39% 15.74%	
6. How would you rate the quality of water supplied by BMID?	
No Opinion Fair Good Very Good	
6 55 295 235	591
1.02% 9.31% 49.92% 39.76%	
7. Do you believe your water from BMID is safe to use for all household purposes?	
Not Safe Safe for some Safe for most Safe for all	
5 37 176 373	591
0.85% 6.26% 29.78% 63.11%	
8. Do you provide additional treatment of the water within your home to improve the quality? Please check the most appropri	riate box
below. No treatment Paper filter (Brita) Cartridge Filter Reverse Osmosis Bottled Water Service	
	606
38.61% 12.38% 21.78% 10.56% 16.67%	,,,,
9. If you provide additional treatment, how much do you spend per month to provide the additional treatment.	
Nothing Don't Know \$0 to \$10 \$10 to \$20 >> \$20	
· · · · · · · · · · · · · · · · · · ·	517
35.40% 8.32% 38.10% 13.35% 4.84%	
10. Do you drink tap water from the BMID?	
Never Sometimes Most of the time Always	
107 201 99 183 5	590
18.14% 34.07% 16.78% 31.02%	
11. Do you drink bottled water?	
11. Do you drink bottled water? Never Sometimes Most of the time Always	
Never Sometimes Most of the time Always	592



Water Notice? Yes	No	Do not understand			
465	79	46			590
78.81%	13.39%	7.80%			390
70.0170	13.3370	7.0070			
3. Is your utility or any part	of your water utility on a	Water Quality Adviso	ry?		
Yes	No	Don't Know			
65	338	183			586
11.09%	57.68%	31.23%			
4. In the last 5 years, have y vaterborne disease?	ou or anyone in your res	sidence, ever experien	nced gastro-intestinal dis	tress you feel was o	caused by a
Yes	No	Don't Know			
20	488	80			588
3.40%	82.99%	13.61%			
5. Your current water rate in pay for higher quality tap w		for a single family res	sidence. What additional	amount per month	are you will
s0	\$ 0 - \$ 5	\$ 5 - \$ 10	\$ 10 - \$15	> \$ 15	
291	161	108	8	4	572
50.87%	28.15%	18.88%	1.40%	0.70%	512
ater rates?					
Not concerned 94	Somewhat concerned 243	Concerned 184	Very concerned 64		585
Not concerned			•		585
Not concerned 94 16.07% 7. Do you practice conserva	243 41.54%	184 31.45%	64 10.94%	sweep and not hose	
Not concerned 94 16.07% 7. Do you practice conserva	243 41.54%	184 31.45%	64 10.94%	sweep and not hose Always	
Not concerned 94 16.07% 7. Do you practice conservativeway, etc?	243 41.54% ation practices such as h	184 31.45% have low flow shower	64 10.94% heads, low flush toilets,	-	e down you
Not concerned 94 16.07% 7. Do you practice conservativeway, etc? Never	243 41.54% ation practices such as the Occasionally	184 31.45% have low flow shower Sometimes	64 10.94% heads, low flush toilets,	Always	e down you
Not concerned 94 16.07% 7. Do you practice conservativeway, etc? Never 8 1.36%	243 41.54% ation practices such as h Occasionally 31 5.26%	184 31.45% have low flow shower Sometimes 87 14.77%	64 10.94% heads, low flush toilets, s Most of the time 322 54.67%	Always 141 23.94%	e down you
Not concerned 94 16.07% 7. Do you practice conservativeway, etc? Never 8 1.36%	243 41.54% ation practices such as h Occasionally 31 5.26%	184 31.45% have low flow shower Sometimes 87 14.77%	64 10.94% heads, low flush toilets, s Most of the time 322 54.67%	Always 141 23.94%	585 e down your 589
Not concerned 94 16.07% 7. Do you practice conservativeway, etc? Never 8 1.36% 8. Do you believe water met	243 41.54% ation practices such as h Occasionally 31 5.26%	184 31.45% have low flow shower Sometimes 87 14.77% e means of measuring	64 10.94% heads, low flush toilets, s Most of the time 322 54.67% and charging for water to	Always 141 23.94%	e down you
Not concerned 94 16.07% 7. Do you practice conservativeway, etc? Never 8 1.36% 8. Do you believe water met Strongly Disagree	243 41.54% ation practices such as h Occasionally 31 5.26% ters provide an equitable Disagree	184 31.45% have low flow shower Sometimes 87 14.77% e means of measuring Agree	64 10.94% heads, low flush toilets, s Most of the time 322 54.67% and charging for water to Strongly Agree	Always 141 23.94%	e down you
Not concerned 94 16.07% 7. Do you practice conservativeway, etc? Never 8 1.36% 8. Do you believe water met Strongly Disagree 59 10.30%	243 41.54% ation practices such as h Occasionally 31 5.26% ters provide an equitable Disagree 144 25.13%	184 31.45% have low flow shower Sometimes 87 14.77% e means of measuring Agree 307 53.58%	64 10.94% heads, low flush toilets, s Most of the time 322 54.67% and charging for water users of the strongly Agree 63 10.99%	Always 141 23.94% usage?	e down you
Not concerned 94 16.07% 7. Do you practice conservativeway, etc? Never 8 1.36% 8. Do you believe water met Strongly Disagree 59 10.30%	243 41.54% ation practices such as h Occasionally 31 5.26% ters provide an equitable Disagree 144 25.13%	184 31.45% have low flow shower Sometimes 87 14.77% e means of measuring Agree 307 53.58%	64 10.94% heads, low flush toilets, s Most of the time 322 54.67% and charging for water users of the strongly Agree 63 10.99%	Always 141 23.94% usage?	e down you
Not concerned 94 16.07% 7. Do you practice conservativeway, etc? Never 8 1.36% 8. Do you believe water met Strongly Disagree 59 10.30% 9. Do you believe people will Strongly Disagree	243 41.54% ation practices such as h Occasionally 31 5.26% ters provide an equitable Disagree 144 25.13% the use excessive amount Disagree	184 31.45% nave low flow shower Sometimes 87 14.77% e means of measuring Agree 307 53.58% ats of water should pay	64 10.94% heads, low flush toilets, sometime 322 54.67% and charging for water users of the strongly Agree 63 10.99% y additional money for the Strongly Agree	Always 141 23.94% usage?	e down you 589 573
Not concerned 94 16.07% 7. Do you practice conservativeway, etc? Never 8 1.36% 8. Do you believe water met Strongly Disagree 59 10.30% 9. Do you believe people with	243 41.54% ation practices such as h Occasionally 31 5.26% ters provide an equitable Disagree 144 25.13% the use excessive amount	184 31.45% nave low flow shower Sometimes 87 14.77% means of measuring Agree 307 53.58%	64 10.94% heads, low flush toilets, s Most of the time 322 54.67% and charging for water to Strongly Agree 63 10.99% y additional money for the	Always 141 23.94% usage?	e down you 589 573
Not concerned 94 16.07% 7. Do you practice conservativeway, etc? Never 8 1.36% 8. Do you believe water met Strongly Disagree 59 10.30% 9. Do you believe people will Strongly Disagree 9 1.54% 0. Do you prefer the current	243 41.54% ation practices such as hoccasionally 31 5.26% ters provide an equitable Disagree 144 25.13% the use excessive amount Disagree 38 6.51% terganizational structure	184 31.45% nave low flow shower Sometimes 87 14.77% means of measuring Agree 307 53.58% ats of water should pay Agree 338 57.88%	64 10.94% heads, low flush toilets, s Most of the time 322 54.67% and charging for water to Strongly Agree 63 10.99% y additional money for the Strongly Agree 199 34.08%	Always 141 23.94% usage?	589 573
Not concerned 94 16.07% 7. Do you practice conservativeway, etc? Never 8 1.36% 8. Do you believe water met Strongly Disagree 59 10.30% 9. Do you believe people will Strongly Disagree 9 1.54%	243 41.54% ation practices such as hoccasionally 31 5.26% ters provide an equitable Disagree 144 25.13% the use excessive amount Disagree 38 6.51% terganizational structure	184 31.45% nave low flow shower Sometimes 87 14.77% means of measuring Agree 307 53.58% ats of water should pay Agree 338 57.88%	64 10.94% heads, low flush toilets, s Most of the time 322 54.67% and charging for water to Strongly Agree 63 10.99% y additional money for the Strongly Agree 199 34.08%	Always 141 23.94% usage?	589 573
94 16.07% 17. Do you practice conserved friveway, etc? Never 8 1.36% 18. Do you believe water met Strongly Disagree 59 10.30% 19. Do you believe people with Strongly Disagree 9 1.54% 20. Do you prefer the current a larger organization similar or	243 41.54% ation practices such as h Occasionally 31 5.26% ters provide an equitable Disagree 144 25.13% the use excessive amoun Disagree 38 6.51% terganizational structure to that of Greater Vernor	184 31.45% nave low flow shower Sometimes 87 14.77% means of measuring Agree 307 53.58% ats of water should pay Agree 338 57.88%	64 10.94% heads, low flush toilets, sometime 322 54.67% and charging for water to Strongly Agree 63 10.99% y additional money for the Strongly Agree 199 34.08% ice or would you prefer a	Always 141 23.94% usage?	589 573



The worksheet provides an estimate of the revenue that is diverted on an annual basis from the public water supply towards alternative water supply sources or home treatment systems. For BMID, the revenue is conservatively estimated to be sufficient to fund a \$7.4 million dollar water treatment project.

Diverted Revenue - Worksheet

		Tap Water	В	ritta Filter	Cartridge	Reverse Osmosis	Во	ottled Water Service	С	onvenience Water
Percentage of Use		39.00%		12.50%	21.50%	10.50%		16.50%		
Single Family	4800	1872		600	1032	504		792		0
Multi-famiily	2600	1014		325	559	273		429		0
Total Connections	7400	2886		925	1591	777		1221		7400
Price Per Month	\$ 25.50	\$ -	\$	8.00	\$ 8.00	\$ 14.00	\$	15.00	\$	3.00
Total Revenue	\$ 2,264,400	\$ -	\$	88,800	\$ 152,736	\$ 130,536	\$	219,780	\$	58,800
SUM OF DIVERTED REVENU	E		\$	650,652						
Debt Servicing Capacity over	20 years	4.80%	,		\$ 8,247,849					
Debt Servicing Capacity over	20 years	5.00%	,		\$ 8,108,562					
Debt Servicing Capacity over	20 years	6.00%			\$ 7,462,927					

Convenience water - defined as bottled water purchase for each resident that is based on 2 purchases/mo of \$1.50 each Reverse Osmosis includes cartridge filter change twice per year and RO change once every four years



ADVANTAGES OF IMPROVEMENT DISTRICTS

1) Efficient:

- Improvement Districts (ID) have long been recognized by the Province of B.C. as one of the most efficient means in which to provide municipal services to the public.
- Some such as BMID have provided a long history of excellent service (85 years).

2) Self Sufficient and Self Sustaining:

- All costs are associated with the provision of service.
- Ratepayers pay 100% of the operational, maintenance, and renewal costs of the service provided.

3) Full Cost Service Provider:

- All costs relate directly to the service provided.
- ID's are accountable to their ratepayers for all costs.
- No external funds are available or directed from the province to IDs for normal operations or capital improvements.

4) Extremely Focused and High level of Service:

- IDs usually specialize in one service making what they do very cost effective and focused.
- Efficient, single service provider.
- Not distracted by a wide range of municipal issues
- Cost effective

5) High Level of Responsiveness:

- Locally based, close to their customers.
- Direct accessibility to all levels of management.
- Concerns are dealt with efficiently.
- Enhances communication and customer satisfaction.

6) Good Community Relationships:

- ID's are experts at understanding and dealing with community issues that affect their service.
- A part of the local community.

7) Sensitive to Customer Needs:

- Sensitive to specific customers needs (e.g. agricultural customers).
- Understand basic and complex issues related to specific customer needs.



8) Politically Aware:

- Trustees elected by landowners as a result of their interest, dedication, professional skills, and awareness of topical issues.
- ID Trustees have considerable political input and community involvement.
- Meetings, seminars, etc. well attended by Trustees who are usually focused on one issue.

9) Excellent Staff Relations:

- Staff relations excellent due to small size, little bureaucracy, good common interest.
- ID's typically develop dedicated, knowledgeable, and experienced employees.
- Usually low staff turnover.



WATER USE ESTIMATE by category

	2007			2006	yr end		2005		2004			2003		
BMID Water User Category	Sept. 30,	2007		ACTUAL			ACTUAL		ACTUAL			CONSUMPTIO	N	
	Units			Units					Units			Units		
Pickers Cabin	24			23					26			21		
Single Family Dwelling	4704			4505					4408			4268		
SF Dwelling with suite	159			158					122			125		
Duplex	79			73					92			93		
Triplex	2			2					3			3		
Fourplex	11			10					17			18		
Day Care Facility	0			0					1			1		
SF units (not metered, flat rate)	4979		ML/yr	4771		ML/yr	4741		4669		ML/yr	4529		ML/yr
ML/SF unit/Year		0.546	2718.53		0.600	2862.60				0.469	2189.76		0.650	2943.85
Water Use Category														
Townhouses	150	0.18	27.00	109										
Multi-Unit Apartment Building	1642	0.138	227.24	1521	0.138	210.50			1482	0.138	205.10	78784696	0.24	357.37
Motel, Hotel, and Lodging	168	0.089	14.91	168	0.089	14.91			168	0.089	14.91	6583632	0.18	29.86
MHP, Metered	76	0.446	33.89	76	0.446	33.89			76	0.446	33.89	17040000	1.02	77.29
Eating and Drinking Establishment	10	2.738	27.38	11	2.738	30.12			10	2.738	28.62	9360120	4.06	42.46
MF Building - Metered	171	0.417	71.28	138	0.417	57.53			128	0.417	53.43	19088256	0.68	86.58
Single Unit Bldg - Metered	83	1.110	92.16	79	1.110	87.72			70	1.110	77.32	24591864	1.60	111.55
Recreation Use - Metered	3	23.066	69.20	2	23.066	46.13			2	23.066	54.52	14175744	27.20	64.30
Carwash - Metered	2	9.833	19.67	2	9.833	19.67			2	9.833	19.67	7137240	16.19	32.37
School and Community Institutional	12	3.383	40.59	12	3.383	40.59			12	3.383	40.59	11794728	4.46	53.50
Processing Plant - Metered	4	1.481	5.93	4	1.481	5.93			4	1.481	5.93	2200120	2.49	9.98
Veterinary Clinic - Metered	1	0.727	0.73	1	0.727	0.73			1	0.727	0.73	256608	1.16	1.16
Medical Clinic - Metered	9	0.266	2.40	9	0.266	2.40			9	0.266	2.40	1236840	0.62	5.61
Auto Dealer - Metered	6	1.782	10.69	6	1.782	10.69			5	1.782	8.91	1236840	1.12	5.61
Multi-Unit Apartment Building - metered	112	0.085	9.47	171	0.085	14.46			112	0.085	9.47	2695736	0.11	12.23
Lodging Homes	0	0.077	0.00	0	0.077	0.00			1	0.077	0.06		0.1	0.07
MHP	142	0.180	25.56	142	0.180	25.56			142	0.180	25.56		1.00	142.00
Commercial Low Usage	106	0.469	49.71	118	0.469	55.34			105	0.469	49.20		0.65	68.19
Commercial Medium Usage	6	0.469	2.81	6	0.469	2.81			6	0.469	3.03		0.65	4.20
Commercial High Usage	3	0.469	1.41	3	0.469	1.41			4	0.469	1.88		0.65	2.60
Eating and Drinking Establishment	2	0.469	0.94	3	0.469	1.41			4	0.469	1.83		0.65	2.54
Garden Shops	3	0.469	1.41	2	0.469	0.94			2	0.469	1.15		0.65	1.60
Entertainment and Amusement	2	0.469	0.94	2	0.469	0.94			2	0.469	0.94		0.65	1.30
Industrial Light Warehouse	54	0.469	25.33	44	0.469	20.64			49	0.469	22.85		0.65	31.67
Industrial Eight Waterloase	5	0.469	2.35	5	0.469	2.35			5	0.469	2.35		0.65	3.25
Industrial Manufacturing	2	0.469	0.94	2	0.469	0.94			2	0.469	0.94		0.65	1.30
Industrial Mandiacturing Industrial Miscellaneous	26	0.469	12.19	26	0.469	12.19			26	0.469	12.19		0.65	16.90
Caretaker Suite	9	0.469	4.22	9	0.469	4.22			8	0.469	3.75		0.65	5.20
	3	0.469	1.41	3	0.469	1.41			3	0.469			0.65	1.95
Community Institutional - Schools				8							1.41			
Community Institutional	8 26	0.469	3.75 12.19	27	0.469	3.75			8 28	0.469	3.75		0.65	5.20
Standby Fire Supply Bulk / Miscellaneous	20 1	0.469 0.469	0.47	1	0.469 0.469	12.66 0.47			20	0.469 0.469	13.13 0.47		0.65 0.65	18.20 0.65
Bank / Whocomanoodo		0.100	0		0.100	0.11				0.100	0.11		0.00	0.00
ICI Units	300		798	304		722	300	0	297		700			1197
SF Units	4979		2719	4771		2863	4720	0	4669		2190			2944
MF Units	2547		571	2406		491	2293	0	2181		3385			4980
Subtotals	7826		3517	7481		4076	7314	3517	7147		2890			4141
Agricultural application rate	acres	0.48 m	n depth		0.52	m depth		0.49 m depth		0.48 r	n depth		0.58 m	depth
Irrigation Connections	860			860			860		860					
Grade A lands, full rights and using water	4110		7980	4107		8639	4101	8128	4116	7992	7992	ML	9657	9657
Grade C lands, full rights but not using water	1220			1218			1190		1162					
Grade D lands, no water rights	2025			2025			1689		1691					
Total Land within District (area of lots > 1.0 acre)	7355			7350			6980		6970					
	7300			7350			0960		0970					
Leakage			954			954		954			954			954
TOTAL ESTIMATED WATER USE (ML)			12450			13668		12599			11835			14751
TOTAL ACTUAL ANNUAL WATER USE (ML)			12500			13662		12664			11834	мі		14784
TOTAL ACTUAL ANNUAL WATER USE (ML)			12500			13002					11034	IWIL .		14764
AVERAGE YEAR (Normalized volume)	2007		13600	2006		13500	2005	13466	2004 a		13333		Iry year	13200



This spreadsheet provides a reference of overage charges for irrigation on commercial operations. It primarily affects golf courses and turf farms.

Vater allowed within		lo. of	- Work	Annual							
tax rate (m3)			allotment	Depth (m)	0.400	0.450	0.500	0	.550	0.600	
Proposed tax rate	\$	68.00		()	\$ 68.00	\$ 68.	00	\$ 68.00	\$ 68.00		\$ 68.
Prop. m3 rate	\$	0.20									
250		5	1250	0.309	0.091 \$141.76	0.141 \$182	23 0.191	\$222.70 0	.241 \$263.17	0.291	\$ 303.
275		5	1375	0.340	0.060 \$116.76				.210 \$238.17		\$278
300		5	1500	0.371	0.029 \$ 91.76				.179 \$213.17	0.229	\$ 253
325		5	1625	0.402	\$ 68.00				.148 \$188.17	0.198	
350		5	1750	0.432	\$ 68.00				.118 \$163.17	0.168	
375		5	1875	0.463	\$ 68.00				.087 \$138.17	0.137	
400		5	2000	0.494	\$ 68.00				.056 \$113.17	0.106	
Prop. m3 rate	\$	0.18									
250		5	1250	0.309	0.091 \$134.38	0.141 \$170	81 0.191	\$207.23 0	.241 \$243.65	0.291	\$280
275		5	1375	0.340	0.060 \$111.88	0.110 \$148	31 0.160	\$184.73 0	.210 \$221.15	0.260	\$ 257
300		5	1500	0.371	0.029 \$ 89.38	0.079 \$125	81 0.129	\$162.23 0	.179 \$198.65	0.229	\$ 23
325		5	1625	0.402	\$ 68.00	0.048 \$103	31 0.098	\$139.73 0	.148 \$176.15	0.198	\$212
350		5	1750	0.432	\$ 68.00	0.018 \$ 80	81 0.068	\$117.23 0	.118 \$153.65	0.168	\$190
375		5	1875	0.463	\$ 68.00	\$ 68.	0.037	\$ 94.73 0	.087 \$131.15	0.137	\$167
400		5	2000	0.494	\$ 68.00	\$ 68	0.006	\$ 72.23 0	.056 \$108.65	0.106	\$145
Prop. m3 rate	\$	0.16									
250		5	1250	0.309	0.091 \$127.01				.241 \$224.14	0.291	
275		5	1375	0.340	0.060 \$107.01				.210 \$204.14	0.260	
300		5	1500	0.371	0.029 \$ 87.01				.179 \$184.14	0.229	
325		5	1625	0.402	\$ 68.00				.148 \$164.14	0.198	
350		5	1750	0.432	\$ 68.00	0.018 \$ 79			.118 \$144.14	0.168	\$ 176
375		5	1875	0.463	\$ 68.00	\$ 68.	0.037	\$ 91.76 0	.087 \$124.14	0.137	\$150
400		5	2000	0.494	\$ 68.00	\$ 68.	0.006	\$ 71.76 0	.056 \$104.14	0.106	\$130
Prop. m3 rate	\$	0.15									
250		5	1250	0.309	0.091 \$123.32	0.141 \$153	67 0.191	\$184.03 0	.241 \$214.38	0.291	\$24
275		5	1375	0.340	0.060 \$104.57	0.110 \$134	92 0.160	\$165.28 0	.210 \$195.63	0.260	\$22
300		5	1500	0.371	0.029 \$ 85.82	0.079 \$116	17 0.129	\$146.53 0	.179 \$176.88	0.229	\$20
325		5	1625	0.402	\$ 68.00				.148 \$158.13	0.198	
350		5	1750	0.432	\$ 68.00				.118 \$139.38	0.168	
375		5	1875	0.463	\$ 68.00				.087 \$120.63	0.137	
400		5	2000	0.494	\$ 68.00				.056 \$101.88	0.106	
Prop. m3 rate	\$	0.14									
250	Ψ	5	1250	0.309	0.091 \$119.63	0.141 \$147	06 0101	\$ 176.29 0	.241 \$204.62	0.291	¢ 22
		5	1375								
275				0.340	0.060 \$102.13				.210 \$187.12	0.260	
300		5	1500	0.371	0.029 \$ 84.63				.179 \$169.62	0.229	
325		5	1625	0.402	\$ 68.00				.148 \$152.12	0.198	
350		5	1750	0.432	\$ 68.00				.118 \$134.62	0.168	
375		5	1875	0.463	\$ 68.00				.087 \$117.12	0.137	
400		5	2000	0.494	\$ 68.00	\$ 68.	0.006	\$ 71.29 0	.056 \$ 99.62	0.106	\$12
Prop. m3 rate	\$	0.12									
250		5	1250	0.309	0.091 \$112.26	0.141 \$136	54 0.191	\$ 160.82 0	.241 \$185.10	0.291	\$20
275		5	1375	0.340	0.060 \$ 97.26	0.110 \$121	54 0.160	\$145.82 0	.210 \$170.10	0.260	\$194
300		5	1500	0.371	0.029 \$ 82.26				.179 \$155.10	0.229	
325		5	1625	0.402	\$ 68.00				.148 \$140.10	0.198	
350		5	1750	0.432	\$ 68.00				.118 \$125.10	0.168	
375		5	1875	0.463	\$ 68.00				.087 \$110.10	0.137	
400		5	2000	0.494	\$ 68.00				.056 \$ 95.10	0.106	
Prop. m3 rate	\$	0.10									
250		5	1250	0.309	0.091 \$104.88	0.141 \$125	12 0.191	\$145.35 0	.241 \$165.59	0.291	\$18
275		5	1375	0.340	0.060 \$ 92.38				.210 \$153.09	0.260	
300		5	1500	0.371	0.029 \$ 79.88				.179 \$140.59	0.229	
325		5	1625	0.402	\$ 68.00				.148 \$128.09	0.198	
350		5	1750	0.432	\$ 68.00				.118 \$115.59	0.168	
375		5	1875	0.463	\$ 68.00				.087 \$103.09	0.137	
400		5	2000	0.494	\$ 68.00				.056 \$ 90.59	0.106	
Prop. m3 rate	\$	0.08									
250	*	5	1250	0.309	0.091 \$ 97.50	0.141 \$113	69 0.191	\$129.88 0	.241 \$146.07	0.291	\$ 16
275		5	1375	0.340	0.060 \$ 87.50				.210 \$136.07	0.260	
300		5	1500	0.340	0.029 \$ 77.50				.179 \$126.07	0.229	
		5	1625	0.402	\$ 68.00				.148 \$116.07	0.198	
325						U.U+U U OO.		w 22,00 U	O U I I U . U /	0.130	ΨΙΟ
325 350											
325 350 375		5 5	1750 1875	0.432 0.463	\$ 68.00 \$ 68.00	0.018 \$ 73	69 0.068	\$ 89.88 0	.118 \$106.07 .087 \$ 96.07	0.168 0.137	\$12

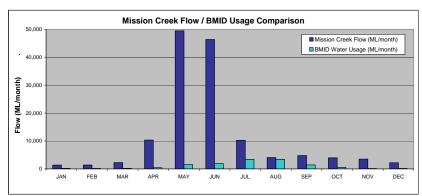


1050mm diameter Steel Pipe Purchase – Cost Comparison Sheet

		10	050 DI Pip	Δ		10)50 Steel Pi	nΔ									22-Oct-0
Section of Main	Length		Ol Supply &		I Install Cost	10	SUPPLY	oc.	COATING		SHIPPING	IN	STALLATION	٨	/ISCELL.		TOTAL
occion of main	(m)		hipping (\$)		(\$)		(\$/m)		(\$/m)		(\$/m)		STALLATION		MOOLLL.		TOTAL
	(,		11 3 (1)		(.,)		(+,		(++)		(++)						
Pipe Supply and Install																	
South Dam to Swainson/Tower	2235		1,531,273		975,950		581,672		284,292		63,139		1,087,700			\$	2,016,8
	399	\$	273,368	\$	174,230	\$	107,836	\$	50,753	\$	11,272	\$	194,180			\$	364,0
South Dam back to Valve Chamber	2516				1,098,653		679,989		320,035		71,077		1,224,453			\$	2,295,5
Valve Chamber to top of Canyon	2450	\$	1,678,577	\$	1,069,833	\$	662,151	\$	311,640	\$	69,213	\$	1,192,333			\$	2,235,3
Top of Canyon to Mission Creek	935	\$	640,600	\$	408,283	\$	252,698	\$	118,932	\$	26,414	\$	455,033			\$	853,0
ard Preparation																	
Buiilding Supply & Assembly (incl. insu	ulation, GST)													\$	176,000	\$	176,0
Electrical Service														\$	15,000	\$	15,0
Temporary Heat (propane)														\$	10,000	\$	10,0
Site Drainage pipe and installation														\$	2,000	\$	2,0
Gravel Subbase Preparation (pit run)														\$	54,000	\$	54,0
Equipment rental (Highmark)														\$	36,000	\$	36,0
Crush Gravel														\$	15,000	\$	15,0
Pavement in Works Yard														\$	20,000	\$	20,0
Lock Block for materials, installation (\$	\$3.206 + 2.00)())												\$	5,000	\$	5,0
staff time to set up yard	, : -,	,												\$	15,000	\$	15,0
GST included but recoverable		s	5 847 613	\$	3,726,950	\$	2,284,346	\$	1,085,652	\$	241,114	\$	4,153,700	\$	348,000	\$	8,112,8
	0.5		0,017,010			*	2/201/010	Ť				Ť	1,100,700	•		\$	
TOTAL	85	35		\$	9,574,563	<u> </u>			Supply Costs	Þ	2,525,460		Not	Di	DI Price ference	\$	9,574,5
) assets	\$	
															Benefit	\$	333,00 1,794,75
													'	vei	Denem	Ф	1,794,70
966 Loader Purchase											Funded	fro	om equipme	nt	reserve	\$	63,6
GEID Pipe Purchase		EN ¢	274 022	¢	240,167	¢	143.141	¢	69.960	¢	15.538	\$	267.667			\$	496,30
GLID FIPE FUICIIASE	ິນ	90 Þ	370,023	Ė		Þ	143,141	Φ	09,900			Ü				Ф	470,30
				\$	616,990					\$	158,678	\$	496,305				
Support Information	Price pe	r me	tre														
Ductile Iron - Supply Price	\$ 655.	00 tax	xes included	, sh	ipping extra	FC)B Vancouver										
Installation Cost (Ductile Iron)								talla	ation being 40% of	of to	ital DI total cost						
Installation Cost (Steel Pipe)					. , .		/m greater than		•								
Initial Price \$675/ton					ping extra, F		•	\$	82.38	\$	/ ft inc. taxes	inc	luded (13%)			\$	270.
Reduced Price \$650/ton					ping extra, F			\$			ft incl. taxes		, ,)		\$	260
	ų 550.		0,,,,		rg oa, i			*		Ψ,				'		*	_00
	\$ 127	20 tav	kes included														
Steel Pipe, Coating Price/m Shipping Price per load (DI)			kes included st ner metre		haul/unload		0.4	mo	tres per load	\$	1.500.00	coc	st/load	Hnl	oad cost		\$1



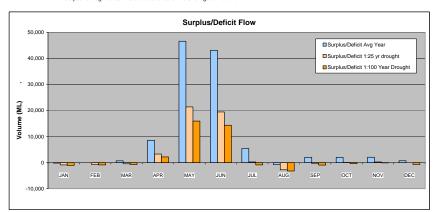
BMID Mission Creek Operations Plan



		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	TOTAL
	Mission Creek Flow (ML/month)	1,403	1,414	2,270	10,328	49,461	46,345	10,239	4,063	4,802	3,960	3,544	2,237	140,067
Average Year	BMID Water Usage (ML/month)	217	196	220	436	1,515	1,946	3,425	3,411	1,454	568	162	171	13,721
verag	Desired Fish Flow (ML/month)	1,339	1,210	1,339	1,296	1,339	1,296	1,339	1,339	1,296	1,339	1,296	1,339	15,768
⋖	Surplus / Deficit (ML/month)	-153	9	711	8,596	46,607	43,103	5,475	-687	2,052	2,053	2,086	727	110,578
	Mission Creek Flow (ML/month)	688	693	1,112	5,061	24,236	22,709	5,017	1,991	2,353	1,940	1,737	1,096	68,633
ght	BMID Water Usage (ML/month)	217	196	220	436	1,515	1,946	3,425	3,411	1,454	568	162	171	13,721
Drought	Desired Fish Flow (ML/month)	1,339	1,210	1,339	1,296	1,339	1,296	1,339	1,339	1,296	1,339	1,296	1,339	15,768
:25 Year	Natural Fish Flow (ML/month)	656	593	656	635	656	635	656	656	635	656	635	656	7,726
1:25	Surplus / Deficit (*) (ML/month)	-869	-713	-447	3,329	21,382	19,467	253	-2,759	-397	33	279	-414	39,144
	Surplus / Deficit (**) (ML/month)	-186	-96	236	3,990	22,065	20,128	936	-2,076	264	716	940	269	47,186
	Mission Creek Flow (ML/month)	533	537	863	3,925	18,795	17,611	3,891	1,544	1,825	1,505	1,347	850	53,226
Drought	BMID Water Usage (ML/month)	217	196	220	436	1,515	1,946	3,425	3,411	1,454	568	162	171	13,721
r Drou	Desired Fish Flow (ML/month)	1,339	1,210	1,339	1,296	1,339	1,296	1,339	1,339	1,296	1,339	1,296	1,339	15,768
0 Year	Natural Fish Flow (ML/month)	509	460	509	492	509	492	509	509	492	509	492	509	5,992
1:100	Surplus / Deficit (*) (ML/month)	-1,023	-868	-697	2,193	15,941	14,369	-873	-3,206	-925	-402	-111	-660	23,737
	Surplus / Deficit (**) (ML/month)	-193	-118	134	2,996	16,771	15,173	-43	-2,376	-122	428	692	170	33,513

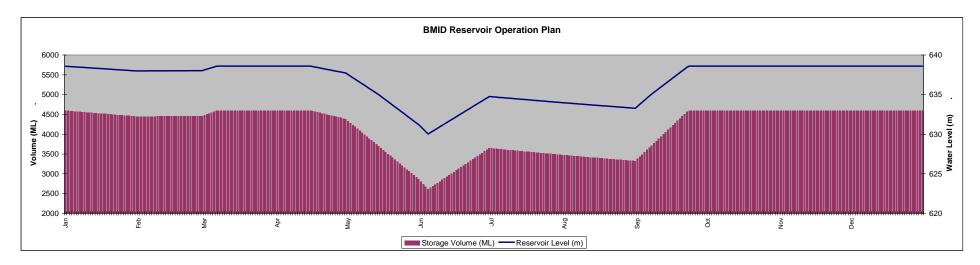
Surplus / Deficit (*) Surplus / Deficit (**)

Based on Desired Fish Flow 0.50 m3/s
Based on Natural Flow which is reduced in drought years to a percentage of the annual average flow.
1:25 year drought is estimated to be 49% of the average annual flow.
1:100 year drought is estimated to be 31% of the average annual flow.





BMID Black Mountain Reservoir Operations Plan



JANUARY TO MARCH	APRIL TO JUNE	JULY TO SEPTEMBER	OCTOBER TO DECEMBER
January Operations - Comments	April Operations - Comments	July Operations - Comments	October Operations - Comments
BMID Average daily demand 7.0 ML/day BMID Reservoir at 4600 ML (Full Pool) at beginning of the month BMID Reservoir emptying at 4.9 ML/day to obtain desired fish flown on Mission Creek BMID Reservoir volume at the end of the month at 4448 ML	BMID Average daily demand 14.5 ML/day BMID Reservoir at 4600 ML (Full Pool) at beginning of the month BMID Reservoir emptying at 14.5 ML/day after April 15th WTP not operating BMID Reservoir volume at the end of the month at 4383 ML	BMID Average daily demand 110.5 ML/day BMID Reservoir at 3641 ML at beginning of the month BMID Reservoir emptying at 5.5 ML/day to supplement WTP flow. WTP operating. BMID Reservoir volume at the end of the month at 3476 ML	BMID Average daily demand 18.3 ML/day BMID Reservoir at 4600 ML (Full Pool) at beginning of the month WTP not operating BMID Reservoir volume at the end of the month at 4600 ML
February Operations - Comments	May Operations - Comments	August Operations - Comments	November Operations - Comments
BMID Average daily demand 7.0 ML/day BMID Reservoir at 4448 ML at beginning of the month BMID Reservoir filling up at 0.32 ML/day using Mission Creek Surplus Flow. BMID Reservoir volume at the end of the month at 4457 ML	BMID Average daily demand 48.9 ML/day BMID Reservoir at 4333 ML at beginning of the month BMID Reservoir filling up at 48.9 ML/day. WTP not operating. Mission Creek poor quality water. BMID Reservoir volume at the end of the month at 2866 ML	BMID Average daily demand 110 ML/day BMID Reservoir at 3471 ML at beginning of the month BMID Reservoir emptying at 5.0 ML/day to supplement WTP flow. WTP operating. BMID Reservoir volume at the end of the month at 3321 ML	BMID Average daily demand 18.3 ML/day BMID Reservoir at 4600 ML (Full Pool) at beginning of the month WTP not operating BMID Reservoir volume at the end of the month at 4600 ML
March Operations - Comments	June Operations - Comments	September Operations - Comments	December Operations - Comments
BMID Average daily demand 7.1 ML/day BMID Reservoir at 4479 ML at beginning of the month BMID Reservoir filling up at 22.9 ML/day using Mission Creek Surplus Flow. Reservoir full on March 7th. BMID Reservoir volume at the end of the month at 4600 ML	BMID Average daily demand 65 ML/day BMID Reservoir at 2801 ML at beginning of the month BMID Reservoir emptying at 65 ML/day. WTP begins operation on June 4th. BMID Reservoir filling up at 40 ML/day from WTP. BMID Reservoir volume at the end of the month at 3647 ML	BMID Average daily demand 48.5 ML/day BMID Reservoir at 3378 ML at beginning of the month BMID Reservoir filling up at 56.5 ML/day using Mission Creek Surplus Flow. Reservoir full on September 23rd. BMID Reservoir volume at the end of the month at 4600 ML	BMID Average daily demand 18.3 ML/day BMID Reservoir at 4600 ML (Full Pool) at beginning of the month WTP not operating BMID Reservoir volume at the end of the month at 4600 ML