

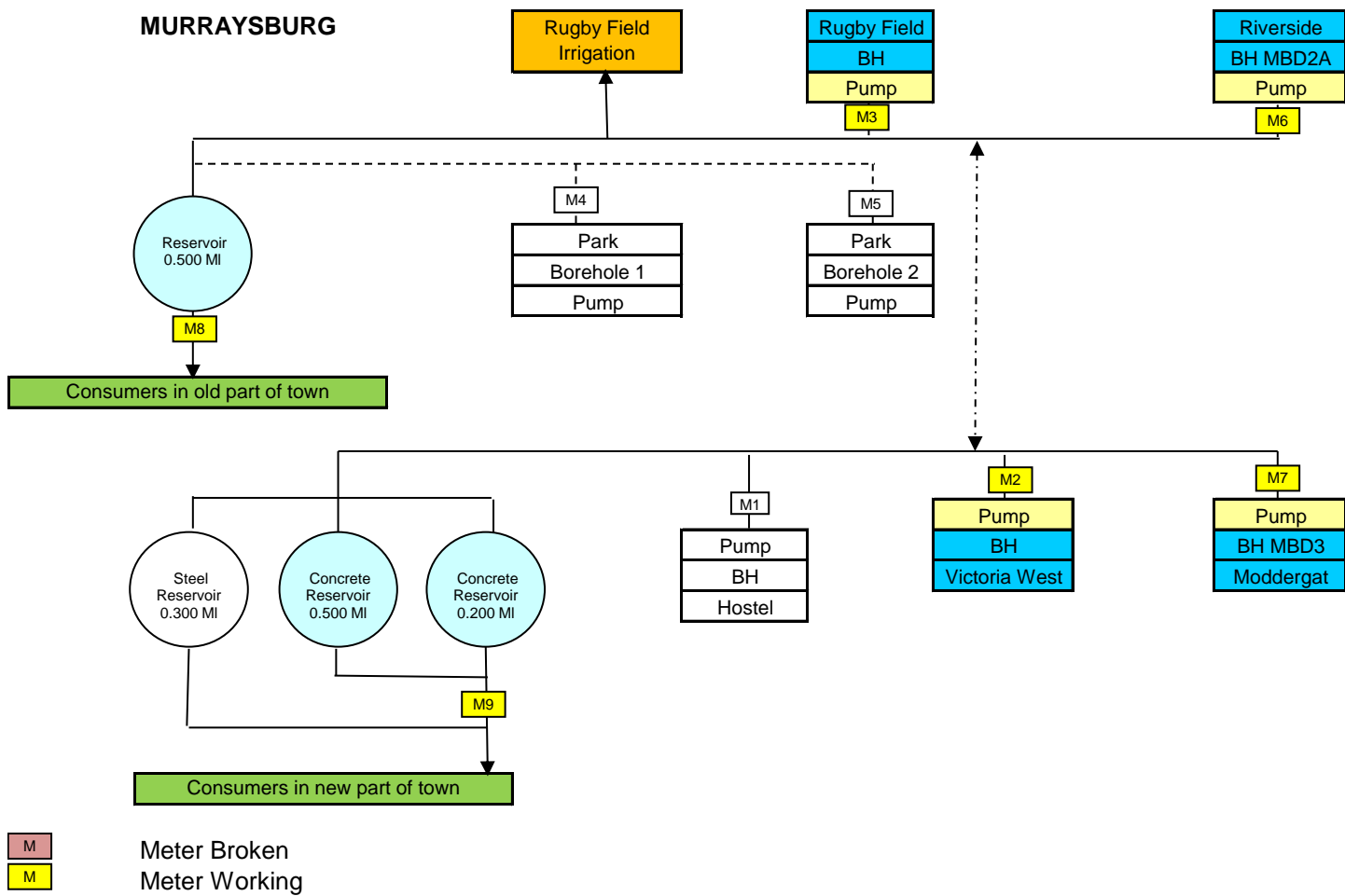
BEAUFORT WEST MUNICIPALITY																																																			
Murraysburg																																																			
Month	Year	BULK SURFACE WATER SUPPLY																TREATED WATER SUPPLY																																	
		A	B	C	D	E	X	AA	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U																											
		Raw Water Supply								Treated Water								Bulk Distribution Losses																																	
																		Total System Input Volume												Revenue Water (NRW)						Non Revenue Water (NRW)															
		Hotel	Victoria West	Rugby Field	Park 1	Park 2	Riverside	Moddergat	Total	Northern Reservoir Dorp (CM Area)	Southern Reservoir Tank (300 K)	Southern Reservoir Ou Dam (200 K)	Southern Reservoir Nnew Dam (500 K)	Total System Input Volume	Monthly Bulk Losses [m³]	Monthly Bulk Losses [%]	Annual Bulk Losses [m³]	Annual Bulk Losses [%]	Total System Input Volume	Billed Metered Consumption	Billed Un-metered Consumption	Monthly NRW [m³]	Monthly NRW [%]	Annual NRW [m³]	Annual NRW [%]	Unbilled Metered Consumption	Unbilled Un-metered Consumption	Illegal Connections	Apparent Losses Inaccurate Meters	Real Losses Leakage, Reservoirs overflow, etc.	Monthly Water Losses [m³]	Monthly Water Losses [m³]	Annual Water Losses [m³]	Annual Water Losses [m³]																	
																														Estimated Percentages (Variables)																					
																												3%						7%						5%						85%					

Year	BULK WATER SUPPLY										TREATED WATER SUPPLY																TOTALS									
	Raw Water Supply								Treated Water								Bulk Distribution Losses												TOTALS							
	Hotel	Victoria West	Rugby Field	Park 1	Park 2	Riverside	Moddergat	Total	Northern Reservoir/ Dam (OK)	Southern Reservoir/ Tank (200 K)	Southern Reservoir/ Ou Dam (200 K)	Southern Reservoir/ Nnew Dam (500 K)	Total System Input Volume	Monthly Bulk Losses [m³]	Monthly Bulk Losses [%]	Annual Bulk Losses [m³]	Annual Bulk Losses [%]	Total System Input Volume	Billed Metered Consumption	Billed Un-metered Consumption	Monthly NRW [m³]	Monthly NRW [%]	Annual NRW [m³]	Annual NRW [%]	Unbilled Metered Consumption	Unbilled Un-metered Consumption	Illegal Connections	Apparent Losses	Real Losses	Monthly Water Losses [m³]	Monthly Water Losses [m³]	Annual Water Losses [m³]	Annual Water Losses [m³]			
	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]			
2014/2015 (New Month)	37 550	11 563	70 800					180 383	48 290	47 284	30 188	38 188	176 874	4 808	2.56%	0	0	176 874	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2015/2016	40 775	113 717	113 361					255 253	97 640	50 383	51 882	51 882	251 797	6 458	2.56%	0	0	251 797	180 185	0			71 609	28.44%	0	504	2 133	4 977	3 555	60 440	71 165	28.2%				
2016/2017	51 509	105 507	98 586	21 045	14 132			255 522	96 717	48 384	50 329	50 329	244 259	6 243	2.56%	0	0	244 259	174 889	0	489	2 066	4 862	3 444	55 545	4 862	3 444	55 545	68 881	28.1%						
2017/2018	58 955	123 705	81 869					259 709	83 696	23 070	116 198	43 392	255 356	33 347	11.13%	0	0	255 356	189 973	0	533	2 248	5 240	3 743	63 623	5 240	3 743	63 623	74 851	28.1%						
2018/2019	46 582	120 688	57 497	16 310	37 621			281 498				253 348	253 348	28 140	10.00%	0	0	253 348	189 722	0	507	1 924	4 488	3 296	54 502	4 488	3 296	54 502	64 120	25.1%						
2019/2020	48 697	113 954	101 890	0	14 224			278 755				253 880	253 880	27 876	10.00%	0	0	253 880	179 339	0	502	2 161	5 043	3 602	61 233	5 043	3 602	61 233	72 039	26.7%						
2020/2021	52 237	136 633	131 774	0	14 069			325 073				257 512	257 512	37 411	10.00%	0	0	257 512	163 665	0	675	3 145	12 122	8 659	147 165	8 659	147 165	173 171	173 171	61.3%						
2021/2022	33 069	136 687	142 531	0	33 561			344 848				254 558	254 558	31 480	9.89%	0	0	254 558	179 491	0	573	3 226	7 527	5 376	91 395	5 376	7 527	107 523	37.5%							
2022/2023	50 831	106 600	101 499	0	81 175			325 375				244 990	244 990	31 480	9.89%	0	0	244 990	209 384	0	589	2 520	5 962	4 216	71 675	5 962	4 216	71 675	84 317	26.1%						
2023/2024	722	60 263	48 703	0	0	126 547	275 167	451 952				248 074	248 074	391 143	15.34%	0	0	391 143	25 691	0			365 452	93.43%	0	782	10 940	25 527	18 233	329 959	84 069	63.2%				

Water Balance Components			Water Balance Volumes												
Component	Units		2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024
Consumer Use	Number of connections					154	154	154	155	157	158	159	161	163	174
System Input Volume	Connection/day					331	474	460	491	488	444	565	487	491	640
Average Billed Metered Cons.	Connection/day					350	353	352	361	355	335	354	343	342	427
Non-Revenue Water	Connection/day					138	131	139	117	128	302	184	142	138	598

Water Balance Components		Percentage Change in Volumes in Connection/day, year on year												
Component	Units	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024
System Input Volume	% Change in Volume					43.17%	3.59%	6.74%	4.65%	2.58%	31.85%	14.74%	1.17%	30.47%
Average Billed Metered Cons.	% Change in Volume					0.88%	0.88%	-3.23%	-7.43%	-10.05%	6.93%	15.06%	-87.96%	
Non-Revenue Water	% Change in Volume					-3.13%	0.31%	-10.05%	6.93%	14.56%	-36.03%	-22.96%	322.34%	

Water Balance Components		Did volume in Connection/day Rise or Fall, year on year?												
Component	Units	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024
System Input Volume	Rise or Fall					Rise	Fall	Rise	Fall	Fall	Rise	Fall	Rise	Rise
Average Billed Metered Cons.	Rise or Fall					-	Fall	Rise	Fall	Fall	Rise	Rise	Rise	Fall
Non-Revenue Water	Rise or Fall					Fall	Rise	Fall	Rise	Rise	Rise	Fall	Fall	Fall



Legend	Losses	Description	Calculation (Meters)
A	Bulk Water Losses	Hostel BH (Not in use)	M1
B		Victoria West BH	M2
C		Rugby Field BH	M3
D		Park 1 BH (Not in use)	M4
E		Park 2 BH (Not in use)	M5
Z		Riverside BH	M6
AA		Modergat BH	M7
F		Total Raw Water	A + B + C + D + E + Z + AA
G		Treated Water North (500 KI)	M8
H		Treated Water South (200 KI)	M9
I		Treated Water South (300 KI)	-
J		Treated Water South (500 KI)	-
K		Total Treated Water	G + H
L		Monthly losses m ³	F - K
M		Monthly losses %	L / F
N	Distribution Losses	Annual losses m ³	L over 12 months
O		Annual losses %	M over 12 months
P		Total Treated Water	K
Q		Billed Metered Consumption	Billed Metered Consumption (Treasury)
R		Monthly losses m ³	K - Q
S	Total Losses	Monthly losses %	R / P
T		Annual losses m ³	R over 12 months
U		Annual losses %	S over 12 months
V		Monthly losses m ³	F - Q
W		Monthly losses %	V / F
X		Annual losses m ³	V over 12 months
Y		Annual losses %	W over 12 months

