

8. WRITING OFF OF 2021/22 NON-TECHNICAL WATER AND ELECTRICITY LOSSES

5/17/1

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Deputy Director : Engineering Services

15 August 2022

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1. Executive Summary

National Treasury issued guidelines (MFMA Circular No. 70, December 2013) on how to deal with non-revenue water and electricity. Annexure B of Circular No. 70 provides guidance on the accounting treatment of non-technical losses and mentions that a council resolution is required to write off the losses. The purpose with this report is to obtain Council's approval for writing off the water and electricity losses for 2021/22.

2. Service Delivery and Budget Implementation Plan - IGNITE

Directorate Finance
Department Financial Services

3. Compliance with Strategic Priorities

Provision of democratic, accountable and ethical governance
Provision and maintenance of municipal services

4. Delegated Authority

None

5. Legal Requirements

Local Government: Municipal Finance Management Act, Act 56 of 2003

6. Background/Discussion/Evaluation/Conclusion**Background**

National Treasury issued guidelines (MFMA Circular No. 70, December 2013) on how to deal with non-revenue water and electricity. Annexure B of the Circular provides guidance on the accounting treatment of non-technical losses and mentions that a council resolution is required to write off the losses.

Discussion

Losses occur in every water and electricity distribution system. Losses are divided into technical losses and non-technical losses. Technical losses are authorised, unmetered uses, or unavoidable internal system losses, whereas

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non-technical losses are unauthorised, unmetered uses and avoidable system losses.

In the case of electricity:

- Technical losses are losses caused by the physical properties of the components of the power system. The most obvious example is the power lost in the distribution lines and transformers due to unavoidable internal electrical resistance,
- Non-technical losses are losses caused by illegal connections, inaccurate meters, incorrect meter readings, incorrect billing, etc.

In the case of water:

- Technical losses are losses caused by unmetered, authorised water uses such as fire fighting, cleaning of reservoirs, and flushing of pipelines;
- Non-technical losses are losses caused by leaks, pipe bursts, illegal connections, inaccurate meters, incorrect meter readings, incorrect billing, etc.

Evaluation

Electricity (refer to Annexure A for details)

The Municipality purchased 256 910 791 kWh of energy from Eskom during the period under review (1 July 2021 to 30 June 2022) at a total cost of R275 415 255.62. The unit cost of electricity is therefore R1.0720268 per kWh. A further 137 703 units were supplied by SSEG's, for a total bulk supply of 257 048 494 units.

During the same period, the Municipality sold 238 545 597 kWh of energy to its customers. This equated to a total loss of 18 502 897 kWh (7.2%). The National Treasury norm for electricity losses is between 7% and 10%. It is estimated that the technical electrical losses for the entire Overstrand system is 5.0%.

The non-technical losses are therefore 2.2%, or 5 650 472.5 kWh. At a unit cost of R1.0720268 / kWh this equates to an amount of R6 057 458.01.

Water (refer to Annexure B for details)

The Municipality produced 7 354 597 kl of potable water during the period under review (1 July 2021 to 30 June 2022).

During the same period, the Municipality sold 5 586 420 kl of potable water to its customers. This equated to a total loss of 1 768 177 kl. The technical water losses were calculated to be 144 768 kl (1.97%).

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The non-technical losses are therefore 22.07% or 1 623 409 kl, and this equates to an amount of R 2 871 712.64. The National Treasury norm for water losses is between 15% and 30%.

7. Financial Implications

None (disclosed in the notes to the Annual Financial Statements)

8. Staff Implications

None

9. Comments from other Departments, Divisions and Administrations

None

10. Annexures

Annexure A: Details of Electricity Losses

Annexure B: Details of Water Losses

RECOMMENDATION TO THE COUNCIL:

1. that the non-technical electricity losses to the value of R6 057 458.01 for the 2021/22 financial year be written off; and
2. that the non-technical water losses to the value of R2 871 712.64 for the 2021/22 financial year be written off.

RESPONSIBLE OFFICIAL :

BA KING

TARGET DATE FOR IMPLEMENTATION :

1 SEPTEMBER 2022

Annexure A 116

JUL21 - JUN22

KLEINMOND	HIGH/LOW SEASON	OFF PEAK RATE	OFF PEAK UNITS	OFF PEAK TOTAL	PEAK RATE	PEAK UNITS	PEAK TOTAL	STANDARD RATE	STANDARD UNITS	STANDARD TOTAL	TOTAL UNITS	ADMIN CHARGES	TOTAL
JULY	HIGH	0,7293	850 270	620 101,91	4,4327	406 353	1 801 240,94	1,3427	964 143	1 294 554,81	2 220 766	729 132,00	4 445 029,66
AUGUST	HIGH	0,7293	877 295	639 811,24	4,4327	369 635	1 638 481,06	1,3427	861 788	1 157 122,75	2 108 718	686 867,65	4 122 282,71
SEPTEMBER	LOW	0,6311	786 598	496 422,00	1,4458	368 418	532 658,74	0,9951	821 895	817 867,71	1 976 911	669 816,68	2 516 765,14
OCTOBER	LOW	0,6311	800 908	505 453,04	1,4458	341 795	494 167,21	0,9951	745 193	741 541,55	1 987 896	660 960,05	2 402 121,85
NOVEMBER	LOW	0,6311	724 213	457 050,82	1,4458	332 403	480 588,26	0,9951	744 935	741 284,82	1 801 551	667 641,53	2 346 565,43
DECEMBER	LOW	0,6311	948 133	598 366,74	1,4458	373 455	539 941,24	0,9951	864 880	890 544,09	2 206 468	690 575,54	2 709 427,60
JANUARY	LOW	0,6311	938 413	592 232,44	1,4458	342 163	494 699,27	0,9951	798 663	794 749,55	2 079 239	655 874,13	2 537 555,39
FEBRUARY	LOW	0,6311	738 180	465 865,40	1,4458	295 938	427 867,16	0,9951	721 563	718 027,34	1 755 681	560 233,84	2 261 993,74
MARCH	LOW	0,6311	809 630	510 957,49	1,4458	356 000	514 704,80	0,9951	800 758	796 834,29	1 966 388	661 427,00	2 483 923,58
APRIL	LOW	0,6311	905 238	571 295,70	1,4458	287 000	414 944,60	0,9951	712 885	709 391,86	1 905 123	756 852,40	2 452 484,57
MAY	LOW	0,6311	831 565	524 800,67	1,4458	323 850	468 222,33	0,9951	799 093	795 177,44	1 954 508	694 268,71	2 482 469,16
JUNE	HIGH	0,7293	758 140	562 911,50	4,4327	327 680	1 452 907,14	1,3427	785 225	1 654 321,61	1 871 045	701 066,26	3 760 806,51
			9 968 583	6 535 268,96		4 124 690	9 260 022,75		9 641 021	10 501 417,82	23 734 294	8 224 715,80	34 521 425,34

ERMANUS / HAWSTO	HIGH / LOW SEASON	OFF PEAK RATE	OFF PEAK UNITS	OFF PEAK TOTAL	PEAK RATE	PEAK UNITS	PEAK TOTAL	STANDARD RATE	STANDARD UNITS	STANDARD TOTAL	TOTAL UNITS	ADMIN CHARGES	TOTAL
JULY - Herm (WBS)	HIGH	0,7062	3 512 613	2 480 607,30	4,2927	1 457 877	6 258 228,60	1,3005	3 615 439	4 701 878,42	8 585 929	1 985 071,84	15 425 786,16
JULY - Herm (MS)	HIGH	0,7293	1 752 593	1 278 166,07	4,4327	754 967	3 346 542,22	1,3427	1 951 660	2 620 493,88	4 459 220	1 581 984,77	8 827 186,95
JULY - Haws	HIGH	0,7293	315 077	229 785,66	4,4327	144 517	640 600,51	1,3427	347 059	465 996,12	806 653	332 709,61	1 669 091,89
AUGUST - Herm (WBS)	HIGH	0,7062	3 754 884	2 651 699,08	4,2927	1 401 528	6 016 339,25	1,3005	3 407 802	4 431 846,50	8 564 214	1 979 203,23	15 079 088,06
AUGUST - Herm (MS)	HIGH	0,7293	1 823 542	1 329 909,18	4,4327	688 524	3 052 020,33	1,3427	1 776 945	2 388 589,45	4 291 011	1 554 024,61	8 324 543,58
AUGUST - Haws	HIGH	0,7293	328 263	239 402,21	4,4327	128 871	571 246,48	1,3427	303 730	407 818,27	760 864	325 456,12	1 543 923,08
SEPTEMBER - Herm (WBS)	LOW	0,6113	3 368 987	2 059 461,75	1,4002	1 378 077	1 929 583,42	0,9635	3 278 414	3 158 751,89	8 025 478	1 916 072,89	9 063 869,93
SEPTEMBER - Herm (MS)	LOW	0,6311	1 569 963	990 803,65	1,4458	701 181	1 013 767,49	0,9951	1 617 604	1 609 677,74	3 888 748	1 470 744,79	5 084 993,67
SEPTEMBER - Haws	LOW	0,6311	308 137	194 465,26	1,4458	134 526	194 497,89	0,9951	308 584	307 071,94	751 247	317 348,93	1 013 383,82
OCTOBER - Herm (WBS)	LOW	0,6113	3 409 767	2 084 390,57	1,4002	1 253 107	1 754 600,42	0,9635	3 101 962	2 988 740,39	7 764 836	1 896 041,68	8 723 773,06
OCTOBER - Herm (MS)	LOW	0,6311	1 543 918	974 366,65	1,4458	613 647	887 210,83	0,9951	1 463 163	1 455 993,50	3 620 728	1 516 909,76	4 834 480,74
OCTOBER - Haws	LOW	0,6311	311 358	196 498,03	1,4458	126 142	182 376,10	0,9951	287 029	285 622,56	724 528	309 411,42	973 908,12
NOVEMBER - Herm (WBS)	LOW	0,6113	3 098 224	1 893 944,33	1,4002	1 246 120	1 744 817,22	0,9635	3 114 224	3 000 554,82	7 458 568	1 852 879,04	8 492 195,42
NOVEMBER - Herm (MS)	LOW	0,6311	1 366 262	862 247,95	1,4458	594 643	859 734,85	0,9951	1 450 375	1 443 268,16	3 411 280	1 466 385,18	4 631 636,14
NOVEMBER - Haws	LOW	0,6311	274 821	173 439,53	1,4458	117 420	169 785,84	0,9951	276 368	275 003,85	668 599	312 653,96	930 863,17
DECEMBER - Herm (WBS)	LOW	0,6113	3 652 767	2 232 936,47	1,4002	1 303 234	1 824 788,25	0,9635	3 236 136	3 118 018,96	8 192 139	1 918 631,92	9 094 375,60
DECEMBER - Herm (MS)	LOW	0,6311	1 857 852	1 172 490,40	1,4458	745 559	1 077 929,20	0,9951	1 800 161	1 791 340,21	4 403 532	1 604 415,74	5 446 175,55
DECEMBER - Haws	LOW	0,6311	333 948	210 754,58	1,4458	123 016	177 856,53	0,9951	299 984	298 514,08	756 948	312 617,23	999 742,42
JANUARY - Herm (WBS)	LOW	0,6113	3 738 077	2 285 086,47	1,4002	1 296 838	1 815 832,57	0,9635	3 171 939	3 056 163,23	8 206 854	1 916 773,81	9 073 856,07
JANUARY - Herm (MS)	LOW	0,6311	1 843 520	1 163 445,47	1,4458	680 127	983 327,62	0,9951	1 629 131	1 621 148,26	4 152 778	1 522 773,19	5 290 694,54
JANUARY - Haws	LOW	0,6311	345 955	218 332,20	1,4458	117 598	170 023,19	0,9951	284 703	283 307,96	748 256	303 615,75	975 279,09
FEBRUARY - Herm (WBS)	LOW	0,6113	3 140 534	1 919 808,43	1,4002	1 241 630	1 738 530,33	0,9635	2 903 512	2 797 533,81	7 285 676	1 826 886,68	8 282 759,25
FEBRUARY - Herm (MS)	LOW	0,6311	1 426 061	899 987,10	1,4458	618 052	893 579,58	0,9951	1 418 177	1 411 227,93	3 462 290	1 395 920,96	4 600 715,57
FEBRUARY - Haws	LOW	0,6311	279 684	176 508,57	1,4458	105 471	152 489,97	0,9951	266 845	265 537,46	652 000	309 136,41	903 672,41
MARCH - Herm (WBS)	LOW	0,6113	3 369 723	2 059 911,67	1,4002	1 265 987	1 772 635,00	0,9635	3 254 839	3 136 037,38	7 890 549	1 912 404,84	8 880 988,88
MARCH - Herm (MS)	LOW	0,6311	1 599 028	1 009 146,57	1,4458	668 227	966 122,60	0,9951	1 690 203	1 681 921,01	3 957 458	1 520 301,68	5 177 491,85
MARCH - Haws	LOW	0,6311	306 461	193 407,54	1,4458	127 149	183 832,02	0,9951	295 827	294 377,45	729 437	312 028,77	983 645,78
APRIL - Herm (WBS)	LOW	0,6113	3 628 104	2 217 859,98	1,4002	1 093 191	1 530 686,04	0,9635	2 717 020	2 617 848,77	7 438 315	1 849 196,43	8 215 591,21
APRIL - Herm (MS)	LOW	0,6311	1 847 618	1 166 031,72	1,4458	605 197	874 993,82	0,9951	1 459 230	1 452 079,77	3 912 045	1 542 108,02	5 035 213,34
APRIL - Haws	LOW	0,6311	333 805	210 664,34	1,4458	103 105	149 089,21	0,9951	261 228	259 947,98	698 138	322 185,83	941 867,36
MAY - Herm (WBS)	LOW	0,6113	3 454 262	2 111 590,36	1,4002	1 312 050	1 837 132,41	0,9635	2 985 653	2 876 676,67	7 751 965	1 886 200,18	8 711 599,62
MAY - Herm (MS)	LOW	0,6311	1 697 871	1 071 526,39	1,4458	709 279	1 025 475,58	0,9951	1 557 998	1 550 363,81	3 965 148	1 552 195,35	5 199 561,13
MAY - Haws	LOW	0,6311	316 321	199 630,18	1,4458	117 428	169 777,40	0,9951	300 506	299 033,52	734 255	326 146,28	994 587,39
JUNE - Herm (WBS)	HIGH	0,7062	3 148 697	2 224 316,02	4,2927	1 114 681	4 784 991,13	1,3005	2 746 903	3 572 347,35	7 011 281	1 831 222,66	12 412 877,16
JUNE - Herm (MS)	HIGH	0,7293	1 571 522	1 146 110,99	4,4327	582 863	2 627 983,82	1,3427	1 566 182	2 102 912,57	3 730 567	1 568 862,30	7 445 869,69
JUNE - Haws	HIGH	0,7293	287 291	209 521,33	4,4327	124 173	550 421,66	1,3427	276 354	371 060,52	687 818	323 657,93	1 454 661,43
			64 918 510	41 738 254,00		24 806 002	53 928 809,17		60 424 881	64 398 706,18	150 149 393	44 874 179,80	204 939 949,15

STANFORD	HIGH / LOW SEASON	OFF PEAK RATE	OFF PEAK UNITS	OFF PEAK TOTAL	PEAK RATE	PEAK UNITS	PEAK TOTAL	STANDARD RATE	STANDARD UNITS	STANDARD TOTAL	TOTAL UNITS	ADMIN CHARGES	TOTAL
JULY	HIGH	0,7293	273 135	199 197,36	4,4327	127 576	565 506,14	1,3427	311 551	418 319,53	712 262	274 579,01	1 457 602,03
AUGUST	HIGH	0,7293	293 932	214 364,61	4,4327	121 656	539 264,55	1,3427	291 872	391 896,53	707 460	271 684,43	1 417 190,12
SEPTEMBER	LOW	0,6311	261 856	165 256,69	1,4458	119 694	173 053,59	0,9951	274 368	273 023,60	655 917	260 497,65	871 831,52
OCTOBER	LOW	0,6311	266 269	168 042,37	1,4458	106 901	154 557,47	0,9951	252 792	251 553,32	625 962	260 293,28	834 446,43
NOVEMBER	LOW	0,6311	244 876	154 541,24	1,4458	105 340	152 300,57	0,9951	257 795	256 531,80	608 011	257 318,66	820 692,28
DECEMBER	LOW	0,6311	295 304	188 366,35	1,4458	110 862	160 284,28	0,9951	271 604	270 273,14	677 770	260 055,87	876 979,67
JANUARY	LOW	0,6311	311 308	196 468,48	1,4458	108 933	157 495,33	0,9951	266 421	265 155,34	686 702	254 153,12	873 270,24
FEBRUARY	LOW	0,6311	253 464	159 961,13	1,4458	103 325	149 387,29	0,9951	243 095	241 903,83	599 884	246 183,93	797 436,18
MARCH	LOW	0,6311	274 978	173 538,62	1,4458	107 797	155 852,90	0,9951	279 217	277 848,84	661 992	255 025,78	862 266,14
APRIL	LOW	0,6311	293 567	185 270,13	1,4458	96 456	139 456,06	0,9951	234 482	233 333,04	624 505	258 874,14	816 933,40
MAY	LOW	0,6311	275 849	174 088,30	1,4458	115 584	167 111,35	0,9951	253 530	252 287,70	644 963	264 024,62	857 517,91
JUNE	HIGH	0,7293	252 081	183 842,67	4,4327	104 588	463 807,23	1,3427	262 763	352 811,88	619 432	271 077,33	1 271 339,10
			3 296 618	2 160 935,95		1 328 712	2 977 876,77		3 199 530	3 484 938,56	7 824 860	3 133 747,80	11 757 499,08

GANSBAAI	HIGH / LOW SEASON	OFF PEAK RATE	OFF PEAK UNITS	OFF PEAK TOTAL	PEAK RATE
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2021/2022 MONTHLY TOTALS		112 451 496		72 910 528,13		42 185 025		92 593 315,79		102 274 270		109 911 411,70		256 910 791		76 801 076,19		352 216 331,81	
	HIGH / LOW SEASON	OFF PEAK RATE	OFF PEAK PEAK UNITS	OFF PEAK TOTAL	PEAK RATE	PEAK UNITS	PEAK TOTAL	STANDARD RATE	STANDARD UNITS	STANDARD TOTAL	TOTAL UNITS	ADMIN CHARGES	TOTAL	2020/2021	% INCREASE	R\VALUE OF UNITS			
JULY	HIGH	0,7052	3 512 613	2 480 607,30	4,2927	1 457 877	6 258 228,60	1,3005	3 615 439	4 701 878,42									
	HIGH	0,7293	6 092 084	4 442 956,86	4,4327	2 546 490	11 287 826,22	1,3427	6 312 764	8 476 148,22									
	HIGH			0,00			0,00												
	TOTAL:	0,7209	9 604 697	6 923 564,16	4,3817	4 004 367	17 546 054,82	1,3273	9 928 203	13 178 026,64	23 537 267	6 704 519,04	44 352 164,66	35 081 123,31	26,43%	37 647 645,63			
AUGUST	HIGH	0,7052	3 754 884	2 651 699,08	4,2927	1 401 528	6 016 339,25	1,3005	3 407 802	4 431 846,50									
	HIGH	0,7293	6 356 276	4 635 631,36	4,4327	2 351 401	10 423 055,21	1,3427	5 791 905	7 776 790,84									
	TOTAL:	0,7207	10 111 159	7 287 330,44	4,3804	3 752 929	16 439 394,46	1,3271	9 199 707	12 208 637,34	23 063 795	6 557 588,28	42 492 950,52	34 653 813,81	22,62%	35 635 362,24			
SEPTEMBER	LOW	0,6113	3 366 987	2 059 461,75	1,4002	1 378 077	1 929 583,42	0,9635	3 278 414	3 158 751,89									
	LOW	0,6311	5 670 030	3 578 355,93	1,4458	2 367 222	3 422 529,57	0,9951	5 481 173	5 454 315,25									
	TOTAL:	0,6237	9 036 017	5 637 817,69	1,4290	3 745 299	5 352 112,98	0,9833	8 759 587	8 613 067,14	21 543 903	6 334 859,08	25 937 856,89	21 663 837,79	19,73%	19 602 997,81			
OCTOBER	LOW	0,6113	3 039 767	2 084 390,57	1,4002	1 253 107	1 754 600,42	0,9635	3 101 962	2 988 740,39									
	LOW	0,6311	5 670 258	3 578 500,45	1,4458	2 137 464	3 090 345,45	0,9951	5 066 526	5 041 700,02									
	TOTAL:	0,6237	9 080 026	5 662 891,02	1,4289	3 390 571	4 844 945,87	0,9831	8 168 488	8 030 440,41	20 639 085	6 342 191,50	24 980 468,80	22 124 464,81	12,46%	18 538 277,30			
NOVEMBER	LOW	0,6113	3 098 224	1 893 944,33	1,4002	1 246 120	1 744 817,22	0,9635	3 114 224	3 000 554,82									
	LOW	0,6311	5 117 143	3 229 426,95	1,4458	2 094 057	3 027 587,61	0,9951	5 078 229	5 053 345,68									
	TOTAL:	0,6236	8 215 367	5 123 373,28	1,4288	3 340 177	4 772 404,83	0,9831	8 192 453	8 053 900,50	19 747 997	6 222 459,11	24 172 137,72	20 784 102,79	16,30%	17 949 678,62			
DECEMBER	LOW	0,6113	3 652 767	2 232 936,47	1,4002	1 303 234	1 824 788,25	0,9635	3 236 138	3 118 018,96									
	LOW	0,6311	6 592 690	4 160 646,66	1,4458	2 424 362	3 505 142,58	0,9951	5 826 146	5 797 597,88									
	TOTAL:	0,6240	10 245 457	6 393 583,13	1,4299	3 727 596	5 329 930,83	0,9838	9 062 284	8 915 616,85	23 035 337	6 575 169,46	27 214 300,26	22 690 371,13	19,94%	20 638 130,80			
JANUARY	LOW	0,6113	3 738 077	2 285 086,47	1,4002	1 296 938	1 815 832,57	0,9635	3 171 939	3 056 163,23									
	LOW	0,6311	6 548 774	4 133 562,37	1,4456	2 240 433	3 239 218,03	0,9951	5 370 077	5 343 763,62									
	TOTAL:	0,6239	10 287 851	6 418 648,84	1,4291	3 537 271	5 055 050,60	0,9834	8 542 016	8 399 926,85	22 367 138	6 348 034,45	26 221 660,74	21 616 479,03	21,30%	19 873 626,28			
FEBRUARY	LOW	0,6113	3 140 534	1 919 808,43	1,4002	1 241 630	1 738 530,33	0,9635	2 803 512	2 797 533,81									
	LOW	0,6311	5 252 182	3 314 652,06	1,4458	2 061 550	2 980 588,99	0,9951	4 824 124	4 800 485,79									
	TOTAL:	0,6237	8 392 716	5 234 460,49	1,4287	3 303 180	4 719 119,32	0,9832	7 627 636	7 598 019,60	19 423 532	6 037 034,62	23 588 634,03	19 834 779,96	18,93%	17 551 598,41			
MARCH	LOW	0,6113	3 389 723	2 059 911,67	1,4002	1 265 987	1 772 635,00	0,9635	3 254 839	3 136 037,38									
	LOW	0,6311	5 626 435	3 550 843,13	1,4456	2 244 880	3 245 647,50	0,9951	5 597 471	5 570 043,39									
	TOTAL:	0,6241	10 212 538	6 373 296,27	1,4296	3 081 131	4 404 849,69	0,9838	7 607 399	7 484 254,96	21 369 335	6 470 197,64	25 805 315,71	21 686 545,08	19,10%	19 335 118,07			
APRIL	LOW	0,6113	3 628 104	2 217 859,98	1,4002	1 093 191	1 530 686,04	0,9635	2 717 020	2 617 848,77									
	LOW	0,6311	6 584 434	4 155 436,30	1,4458	1 987 940	2 874 163,65	0,9951	4 890 369	4 866 406,19									
	TOTAL:	0,6241	10 212 538	6 373 296,27	1,4296	3 081 131	4 404 849,69	0,9838	7 607 399	7 484 254,96	20 901 058	6 344 952,93	24 607 353,85	21 511 228,09	14,39%	18 262 400,92			
MAY	LOW	0,6113	3 454 252	2 111 590,36	1,4002	1 312 050	1 837 132,41	0,9635	2 985 653	2 876 676,67									
	LOW	0,6311	6 075 324	3 834 136,98	1,4458	2 296 452	3 320 210,30	0,9951	5 253 558	5 227 815,57									
	TOTAL:	0,6239	9 529 576	5 945 727,34	1,4292	3 608 502	5 157 342,71	0,9836	8 239 211	8 104 492,23	21 377 299	6 466 204,37	25 673 766,65	22 593 115,86	13,64%	19 207 562,28			
JUNE	HIGH	0,7052	3 149 697	2 224 316,02	4,2927	1 114 881	4 784 991,13	1,3005	2 748 903	3 572 347,35									
	HIGH	0,7293	5 587 227	4 074 764,65	4,4327	2 068 454	9 168 836,05	1,3427	5 248 083	7 046 681,04									
	TOTAL:	0,7210	8 736 924	6 299 080,67	4,3837	3 183 135	13 953 827,17	1,3282	7 994 986	10 618 948,40	19 915 045	6 397 865,74	37 269 721,98	33 969 178,06	9,72%	30 871 856,24			
TOTAL		0,6484	112 451 496	72 910 528,13	2,1949	42 185 025	92 593 315,79	1,0747	102 274 270	109 911 411,70	256 910 791	76 801 076,19	352 216 331,81	298 189 039,72	18,12%	275 415 255,62			

1.07202681

		WATER CONSUMPTION vs BULK - YTD AVERAGE AS AT 30 JUNE 2022												
Administration	Suburb	Jul 2021	Aug 2021	Sep 2021	Oct 2021	Nov 2021	Dec 2021	Jan 2022	Feb 2022	Mar 2022	Apr 2022	May 2022	Jun 2022	TOTAL
		K€	K€	K€	K€	K€	K€	K€	K€	K€	K€	K€	K€	K€
KLEINMOND	Kleinmond	33,434	28,523	34,151	39,106	32,036	35,635	58,220	54,161	44,946	42,651	38,485	30,316	471,664
	Overhills	1,389	2,098	1,537	1,651	2,921	534	3,114	2,070	1,636	1,956	1,863	1,535	22,304
	Proteaorp	1,481	125	75	4,932	1,683	1,272	2,549	1,501	2,748	1,602	1,394	1,877	21,239
	Uitbreiding 6	928	193	1,429	1,795	1,203	1,143	1,473	1,160	1,280	919	1,125	1,233	13,881
	Subtotal	37,232	30,939	37,192	47,484	37,843	38,584	65,356	58,892	50,610	47,128	42,867	34,961	529,088
	Bulk Water	64,845	63,418	53,975	67,172	60,939	74,754	81,660	71,540	75,772	68,739	67,448	59,900	810,162
	Water Losses	27,613	32,479	16,783	19,688	23,096	36,170	16,304	12,648	25,162	21,611	24,581	24,939	281,074
	% Water Losses	43	51	31	26	38	48	20	18	33	31	36	42	35
BUFFELSRVIER	Betsysbaai	10,578	10,005	15,194	18,461	14,547	15,687	23,968	25,267	22,038	23,100	19,488	13,163	211,496
	Pringlebaai	7,016	(218)	8,832	17,804	9,271	8,834	14,028	14,761	12,167	12,360	709	302	105,666
	Hangklip Kleinhoeves	732	85	695	1,907	494	736	1,143	1,176	773	597	13,431	11,256	33,025
	Rociels	1,827	(219)	1,083	4,941	922	1,354	3,106	3,444	3,749	3,466	2,954	1,735	28,362
	Subtotal	20,163	9,653	25,804	42,913	25,234	26,611	42,246	44,648	38,727	39,623	36,582	26,456	378,549
	Bulk Water	55,710	60,548	62,320	71,350	55,073	70,340	74,787	66,508	68,387	57,845	50,585	43,773	737,227
	Water Losses	35,557	50,895	36,516	28,437	29,839	43,729	32,542	21,861	29,660	18,322	14,003	17,317	358,678
	% Water Losses	64	84	59	40	54	62	44	33	43	32	28	40	49
GREATER HERMANUS	De Bos	28	0	24	18	0	0	15	21	17	0	0	0	123
	Eastcliff	21,050	3,668	33,149	26,602	23,718	23,032	39,626	36,416	29,984	27,957	24,063	20,444	309,709
	Fisherhaven	4,792	4,063	6,392	7,537	5,833	6,413	12,314	5,529	8,952	6,900	4,776	6,649	80,150
	Group Development	389	380	237	7,581	5,091	4,271	6,632	6,342	5,335	6,176	3,799	2,493	48,726
	Hermanus Heights	3,586	29	8,193	5,590	4,144	5,046	6,804	6,543	6,367	5,200	5,383	3,789	60,474
	Hawston	20,623	22,009	28,222	28,750	22,534	28,344	29,797	27,736	22,670	21,762	18,995	19,128	290,570
	Industria	4,066	2,196	3,382	3,138	2,910	3,606	3,805	2,579	3,292	3,481	2,874	2,852	38,281
	Kleinrivier	18	24	19	135	104	179	325	123	258	91	219	8	1,501
	Mount Pleasant	10,203	14,636	10,815	12,052	11,727	11,956	16,376	10,498	10,045	12,588	12,054	9,389	142,319
	Moosig	5,593	9	7,483	5,570	5,849	5,022	10,218	8,921	6,254	7,521	10	9,867	72,317
	Northcliff	9,781	12,300	12,379	13,797	12,146	12,891	16,039	15,537	12,805	13,472	16,202	10,665	168,014
	Onrus	26,648	7,024	27,247	26,257	40,745	32,710	58,162	51,296	41,577	34,780	32,368	31,015	409,799
	Sandbaai	25,345	28,832	27,516	30,006	24,104	42,201	34,933	43,655	44,584	35,175	42,976	27,505	405,832
	Voelklip	18,196	1,217	34,230	26,135	20,680	21,482	48,810	32,690	22,879	22,755	32,200	17,037	298,311
	Vermont	19,198	15,410	9,260	23,490	21,165	30,560	29,867	34,301	30,193	24,342	18,132	14,738	270,456
	Westcliff	25,275	19,760	14,693	21,862	22,623	25,853	22,985	25,658	26,075	24,066	22,590	19,454	270,894
	Zweihlle	24,305	369	48,202	36,897	25,209	40,909	33,202	17,301	26,055	29,390	32,829	28,380	343,048
	Benguella Cove	0	0	0	0	0	0	0	0	0	0	0	0	0
	Caledon Distrik	7,874	3,479	3,105	1,959	3,164	14,840	15,070	27,551	12,759	10,855	8,365	7,393	116,414
	Subtotal	226,970	136,405	274,548	277,376	251,746	309,315	384,580	352,667	310,099	286,511	277,935	230,786	3,317,938
	Bulk Water	294,150	301,100	307,380	326,040	324,550	403,960	427,130	368,894	381,040	330,180	314,600	292,210	4,071,234
	Water Losses	67,180	165,695	32,832	48,664	72,804	94,645	42,550	16,227	70,941	43,669	36,665	61,424	753,296
	% Water Losses	23	55	11	15	22	23	10	4	19	13	12	21	19
STANFORD	Stanford North	0	0	0	0	0	0	0	0	0	0	0	0	0
	Stanford South	0	0	0	0	0	0	0	0	0	0	0	0	0
	Stanford	13,694	33,406	18,071	15,146	17,050	19,624	20,620	29,186	24,294	22,826	21,994	18,652	254,563
	Subtotal	13,694	33,406	18,071	15,146	17,050	19,624	20,620	29,186	24,294	22,826	21,994	18,652	254,563
	Bulk Water	20,061	21,003	20,095	22,163	18,679	21,402	27,757	25,789	25,737	22,676	25,642	20,584	271,598
	Water Losses	6,367	(12,403)	2,024	7,017	1,629	1,778	7,137	(3,397)	1,443	(150)	3,648	1,942	17,035
	% Water Losses	32	(59)	10	32	9	9	26	(13)	6	(1)	14	9	6
GANSBAAI	Blompark	3,775	6,847	5,531	5,846	5,568	5,667	6,886	6,339	6,098	6,830	6,446	5,705	71,139
	De Kelders	8,801	14,145	11,418	12,664	10,750	16,400	20,217	10,922	14,821	14,821	13,551	13,863	162,373
	Franskraal	8,930	12,996	7,397	10,657	11,106	10,495	20,303	17,172	15,133	14,609	14,464	9,579	152,841
	Gansbaai	21,562	33,253	24,083	29,937	21,529	27,045	27,577	30,085	27,283	28,871	43,517	31,163	345,905
	GB Industrie Park	1,146	2,161	1,086	1,456	1,288	1,207	927	1,141	1,191	1,303	1,196	1,184	15,286
	Kleinbaai	5,185	4,644	4,412	5,517	5,364	6,209	15,030	4,145	8,348	7,672	7,450	6,286	80,262
	Masakhane	2,325	2,713	3,014	3,425	2,513	2,854	3,354	4,387	3,609	5,082	4,012	2,723	40,011
	Bredasdorp Distrik	1,318	64	88	1,117	390	303	498	425	220	294	236	185	5,136
	Caledon Distrik	9,439	9,345	9,611	13,352	4,239	7,766	9,504	14,782	11,210	5,293	9,346	5,714	109,611
	Subtotal	62,480	85,968	66,640	83,971	62,747	77,946	104,096	89,408	87,913	84,775	100,218	76,402	982,564
	Bulk Water	96,328	98,009	95,350	94,448	110,025	123,845	122,439	123,961	118,556	109,588	105,742	93,120	1,291,411
	Water Losses	33,848	12,041	28,710	10,477	47,278	45,899	18,343	34,553	30,643	24,813	5,524	16,718	308,847
	% Water Losses	35	12	30	11	43	37	15	28	26	23	5	18	24
	Metered	466	487	519	775	573	505	835	770	873	856	538	556	7,753
	Bulk Water	922	749	902	1015	1076	1194	1627	1458	1360	1272	1152	907	13,836
	Water Losses	456	262	383	240	505	689	792	688	487	416	614	351	5,883
	% Water Losses	49	35	42	24	47	58	49	47	36	33	53	39	43
	Metered	196	156	234	273	269	244	330	203	205	225	367	256	2,958
	Bulk Water	367	410	479	541	502	426	401	351	400	497	498	385	5,257
	Water Losses	171	254	245	268	233	182	71	148	195	272	131	129	2,289
	% Water Losses	47	62	51	50	46	43	18	42	49	55	28	34	44
	Metered	6,239	8,488	6,455	9,994	7,322	7,901	15,758	13,170	10,438	9,776	10,810	6,656	113,007
	Bulk Water	10,767	10,815	11,911	10,579	11,327	16,927	17,900	13,815	12,683	15,271	12,764	9,313	154,072
	Water Losses	4,528	2,327	5,456	585	4,005	9,026	2,142	646	2,245	5,495	1,954	2,657	41,065
	% Water Losses	42	22	46	6	35	53	12	5	18	36	15	29	27
	TOTAL	367,430	304,502	429,463										

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Overstrand Municipality Water Distribution Losses 2021/2022 per Distribution Area

Water Scheme	Bulk Water per Town and Scheme	Water Metered (excl Grey & Raw water)	Total Losses per Town	Operational (technical) Losses	Water Metered plus Operational (technical) Losses	Non-Technical Water Losses	Cost per Kℓ Purified	Cost of Non-Tech Water Losses	Cost of Tech Water Losses	Cost of Gen Water Losses
	Kℓ	Kℓ	Kℓ	Kl	Kℓ	Kℓ	R	R	R	R
Water: Kleinmond	810,162	529,088	281,074	9,747	538,835	271,327	R 0.90	R 244,736.95	R 8,791.79	R 253,528.75
Water: Buffelsrivier	737,227	378,549	358,678	56,611	435,160	302,067	R 1.52	R 459,443.91	R 86,105.33	R 545,549.24
Water: Hermanus: Conventional WTW	2,661,999	2,169,452	492,547	49,071	2,218,523	443,476	R 0.35	R 155,216.52	R 17,174.85	R 172,391.37
Biofiltration WTW	814,310	663,639	150,671	15,011	678,650	135,660	R 0.50	R 68,236.93	R 7,550.53	R 75,787.46
Gateway Well Field	594,925	484,847	110,078	10,967	495,814	99,111	R 5.17	R 512,702.89	R 56,732.29	R 569,435.18
Greater Hermanus Total	4,071,234	3,317,938	753,296	75,049	3,392,987	678,247		R 736,156.34	R 81,457.67	R 817,614.01
Water: Stanford	271,598	254,563	17,035	731	255,294	16,304	R 0.49	R 8,054.18	R 361.11	R 8,415.29
Water: Franskraal	1,020,711	820,191	200,520	2,073	822,264	198,447	R 6.52	R 1,294,072.89	R 13,518.03	R 1,307,590.92
De Keiders	270,700	162,373	108,327	550	162,923	107,777	R 0.36	R 39,230.83	R 200.20	R 39,431.03
Greater Gansbaai Total	1,291,411	982,564	308,847	2,623	985,187	306,224		R 1,333,303.72	R 13,718.23	R 1,347,021.95
Water: Baardskeedersbos	13,636	7,753	5,883	0	7,753	5,883	R 6.39	R 37,586.49	R 0.00	R 37,586.49
Water: Buffeljagsbaai	5,257	2,958	2,299	0	2,958	2,299	R 0.00	R 0.00	R 0.00	R 0.00
Water: Pearly Beach	154,072	113,007	41,065	7	113,014	41,058	R 1.28	R 52,431.07	R 8.94	R 52,440.01
Overstrand Totals	7,354,597	5,586,420	1,768,177	144,768	5,731,188	1,623,409		R 2,871,712.64	R 190,443.09	R 3,062,155.73
Total / General water losses	%	Kl	R							
	24.04%	1,768,177	3,062,155.73							
Operational / Technical Losses	1.97%	144,768	190,443.09							
Nett / Non-technical water losses	22.07%	1,623,409	2,871,712.64							

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Overstrand Water Scheme	Bulk Water Demand 2021/22 (kl)	Operational Water Losses (kilolitres)								Total Operational Losses
		Fire Fighting	Reservoir Cleaning	Flushing after Pipe Bursts	Contractors Metered Stand Pipes	Meter Inaccuracy	Meter Replacement			
Kleinmond	810,162	216	2,300	5,550	126	1,525	31			9,747
Buffelsrivier	737,227	56	0	56,100	0	447	9			56,611
Hermanus Conventional W	2,661,999	546	4,250	490	0	43,520	265			49,071
Hermanus Biofiltration WT	814,310	167	1,300	150	0	13,313	81			15,011
Hermanus Gateway Well F	594,925	122	950	110	0	9,726	59			10,967
Hermanus Total	4,071,234	835	6,500	750	0	66,558	406			75,049
Stanford	271,598	381	0	350	0	0	0			731
Gansbaai Franskraal	1,020,711	322	0	514	1,238	0	0			2,073
Gansbaai De Kelders	270,700	85	0	136	328	0	0			550
Gansbaai Total	1,291,411	407	0	650	1,566	0	0			2,623
Baardskeerdersbos	13,636	0	0	0	0	0	0			0
Buffeljagsbaai	5,257	0	0	0	0	0	0			0
Pearly Beach	154,072	7	0	0	0	0	0			7
Overstrand Totals	7,354,597	1,901	8,800	63,400	1,692	68,530	446			144,768