AGENDA OF THE MAYORAL COMMITTEE MEETING:

29 NOVEMBER 2017

7. WRITING OFF OF NON-TECHNICAL WATER AND ELECTRICITY LOSSES

5/17/2 S Müller

(028) 313 8019

Hermanus Administration

4 October 2017

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.

2. Service Delivery and Budget Implementation Plan - IGNITE

Directorate Finance Department Revenue

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

In the case of electricity:

- technical losses are 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 caused by illegal connections, inaccurate meters, incorrect meter readings, incorrect billing, etc.

In the case of water:

- technical losses are caused by unmetered, authorised water uses such as fire fighting, cleaning of reservoirs, flushing of pipelines and losses associated with the water treatment process (i.e. backwashing of filters),
- non-technical losses are 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 245 751 617 kWh of energy from Eskom during the period under review (1 July 2016 to 30 June 2017) at a total cost of R168 826 514. The unit cost of electricity is therefore R0.6870 per kWh.

During the same period, the Municipality sold 227 638 533 kWh of energy to its customers. This equated to a total loss of 18 113 084 kWh (7.37%). The National Treasury norm for electricity losses is between 7% and 10%.

The technical losses were calculated for the different supply areas as follows:

Gansbaai 4.9%

Kleinmond 3.8% to 4.1% Hermanus and Hawston 6.6% to 9.6%

Based on the calculations above, it is estimated that the technical electrical losses for the entire system is 5.0%.

The non-technical losses are therefore 2.37% or 5 825 503 kWh. At a unit cost of R0.687/kWh this equates to an amount of R4 002 006.

Water (refer to Annexure B for details)

The Municipality produced 7 556 272 kl of potable water during the period under review (1 July 2016 to 30 June 2017).

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During the same period, the Municipality sold 5 947 239 kl of potable water to its customers. This equated to a total loss of 1 609 033 kl (21.29%). The National Treasury norm for water losses is between 15% and 30%.

The technical water losses were calculated to be 164 841 kl (2.18%).

The non-technical losses are therefore 19.1% or 1 444 192 kl and this equates to an amount of R2 210 719.

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 Electrical Losses
Annexure B: Details of Water Losses

RECOMMENDATION TO THE COUNCIL:

- 1. that the non-technical electricity losses to the value of R4 002 006 for the 2016/17 financial year be written off; and
- 2. that the non-technical water losses to the value of R2 210 719 for the 2016/17 financial year be written off.

RESPONSIBLE OFFICIAL: BA KING

TARGET DATE FOR IMPLEMENTATION: 30 NOVEMBER 2017

Electricity: Value of kWh Units purchased from ESKOM July 2016 to June 2017

	Kleinmond <u>R</u>	Hawston R	<u>Hermanus</u> <u>R</u>	Stanford <u>R</u>	<u>Gansbaai</u> <u>R</u>	Total R
July	361 568.81	136 929.56	364 851.68	3 468 141.16	5 1 132 716.88	4 464 208.09
•	692 878.89				1 866 651.82	
	920 297.81				2 489 029.56	
August	388 147.53					
	706 572.24				1 872 356.11	7 017 011.78
	976 450.65				2 548 865.81	9 455 481.41
September	534 499.55	169 708.96				
	981 385.08	285 908.62			893 795.35	
	1 028 964.25	272 129.30			1 361 661.87	5 589 296.39
October	294 863.92	115 444.29				3 258 108.33
	318 254.90	132 292.75			1 022 967.55	
	475 611.84	186 276.35	2 841 304.19	ı	1 319 321.98	4 822 514.36
November	298 815.05	115 988.45				3 325 051.25
	283 764.56	118 609.99			880 230.55	3 045 134.18
	476 667.51	187 934.44	2 905 693.18		1 286 612.64	4 856 907.77
December	316 567.49	106 673.22	1 668 176.73	365 175.51	811 493.96	3 268 086.91
	401 269.81	147 381.80	2 190 963.66		1 142 905.31	3 882 520.58
	555 682.34	189 866.78	3 020 601.07		1 420 804.28	5 186 954.47
January	295 411.77	107 461.78	1 707 764.28	384 602.29		3 289 286.93
	348 531.63	137 551.11	2 065 617.75		1 050 057.70	3 601 758.19
	508 779.50	186 008.46	2 981 103.96		1 356 962.45	5 032 854.37
February	270 379.62	103 151.88	1 617 158.03	376 864.45	748 380.04	3 115 934.02
	285 145.07	117 799.55	1 739 742.38		890 355.94	3 033 042.94
	451 478.01	171 304.59	2 743 121.28		1 250 806.11	4 616 709.99
March	306 663.83	119 909.15	1 766 730.26	338 266.09	898 654.07	3 430 223.40
	312 948.23	127 277.96	1 858 929.56		1 021 634.94	3 320 790.69
	504 035.01	191 882.90	2 973 830.57		1 478 957.04	5 148 705.52
April	254 377.72	98 855.80	1 417 818.23	195 080.11	706 051.09	2 672 182.95
	388 391.04	152 472.27	2 221 631.29	78 920.29	1 202 337.52	4 043 752.41
	438 519.84	165 797.70	2 505 336.44	107 471.25	1 221 773.53	4 438 898.76
May	326 659.29	131 804.97	1 841 909.12	106 212.07	934 306.50	3 340 891.95
	301 924.64	125 618.45	1 819 334.37	104 531.47	1 019 933.15	3 371 342.08
	505 321.75	199 062.49	2 964 162.61	172 139.35	1 494 996.53	5 335 682.73
June	361 883.27	146 562.66	2 151 533.72	261 201.88	1 134 947.04	4 056 128.57
	720 081.82	273 847.03	4 119 376.33	132 222.26	1 962 626.93	7 208 154.37
	1 023 836.10	416 311.54		<u>221 84</u> 0.16		9 805 037.61
Value of kWh	17 616 630.37	6 649 535.05	94 220 824.44	4 905 539.26	45 433 984.81	168 826 513.93
kWh purchased	24 475 150.60	9 293 849.22	137 637 730.75	7 906 082.07	66 438 804.69	245 751 617.33
Unit Cost R/kWh	0.7198	0.7155	0.6846	0.6205	0.6838	0.6870
kWh lost in Distri	ibution 1 July 2	016 to 30 June	e 2017			18 113 084.33
Less: 5 % Non	ı-kevenue Tech	nical losses (2	245 751 617.33 k	(Wh x 5 %)	<u>.</u>	12 287 580.87
Non-Technical Lo	osses to be writ	ten off at cost	t price (MFMA C	ircular No 70)		5 825 503.46
Nett Electricity Dis	tribution Loss 20	16/17 (Jul 201	6 - Jun 2017)	1	2.37%	

4 002 005.98

Administration Suburb July 2016 Aug 20	Suburb	July 2016	Aug 2016	Sept 2016	Oct 2016	Nov 2016	Dec 2016	Jan 2017	Feb 2017	Mar 2017	Apr 2017	May 2017	June 2017	1014
KLEINMOND	Bettysbaai	C	c kw	KWh	kWh	kw kw	KWh	kWh	kWh	KWh	kWh	кWh	kWh	Υ _ν
	Proteadorp	0 0	o c	o c	.	o (0 0	0 (0	0	0	0	0	0
	Root-els	0	0	o c	, c	> 0	> 0	- (0 (0 1	0	0	0	0
Metered	Kleinmond	927 470	830 465	881 965	851 788	758 350	768 466	1 128 023	002.000	0	0	0	0	0
Subtotal		927 470	830 465	881 965	851 788	758 350	768 466	1 120 023	022 700	019 140	830 399	846 398	805 134	10 270 313
Streetlights		33 885	33 885	33 885	33 885	33 885	33.885	33 R85	32 00E	819 146 33 085	830 399	846 398	805 134	10 270 313
PREPAID	•	942 367	899 549	878 277	889 269	865 003	999 815	912 225	823 602	53 GB 55	93 865	33 685	33 885	406 620
Total Sales		1 903 722	1 763 899	1 794 127	1 774 942	1 657 238	1 802 166	2 074 133	1 680 196	1 754 753	1 774 394	1 703 032	4 709 083	10 893 522
ESKOM	,	2 012 782	2 004 624	3 187 200	1 859 435	1 779 713	2 215 299	1 987 481	1 712 630	1 903 823	1931315	1 000 140	1 090 407	21 570 455
Electricity Losses		109 060	240 725	1 393 074	84 494	122 475	413 134	-86 652	32 434	149 070	156 921	100 149	1980 697	204 475 [5]
A Electricity Losses		2%	12%	44%	5%	7%	19%	.4%	%2	88	96	8%	***************************************	11 09
HAWSTON	Hawston	167 508	152 729	157 248	154 086	141 601	141 625	169 560	135 168	141 230	144 105	139 211	138 080	1 700 154
Metered	Caledon Distrik	11 977	11 926	10 402	9 290	10 311	9 398	16 102	3 194	8966	11 128	11 474	136 060	1 782 151
Subtotal		179 485	164 655	167 650	163 376	151 912	151 023	185 662	138 362	151 198	155 233	150 685	147 000	124 198
Streetlights		15 366	15 366	15 366	15 366	15 366	15 366	15 366	15 366	15 366	15 366	15.366	15 366	184 303
FREFAID	•	517 431	490 878	480 375	484 687	476 642	520 234	485 427	450 290	493 297	490 491	502 166	503 380	E 90E 200
otal Sales		712 282	620 899	663 391	663 429	643 920	686 623	686 455	604 018	659 861	661 090	648 217	448 089	2 000 300
ESKOM	r	783 071	788 394	1 006 417	747 207	716 423	780 832	751 191	674 294	748 423	747 084	768 510	782 000	7 966 037
Electricity Losses		70 790	117 494	343 026	83 779	72 504	94 209	64 735	70 276	88 562	85 994	100 293	116 140	1 207 013
% Electricity Losses		%6	15%	34%	11%	10%	12%	%6	10%	12%	12%	13%	(PI OII	1 307 613
GREATER	De Bos	7 655	6 248	6 183	5 776	6 029	6 535	8 235	6 516	6 469	6.868	6 434	2177	14.1%
HERMANUS	Eastcliff	978 930	944 948	932 494	850 038	890 836	871 619	1 029 383	919 723	897.279	907 893	055 773	940.024	290 6/
Metered	Group Development	26 951	25 837	28 403	21 978	25 743	24 097	27 582	34 734	24 133	26.309	28 047	24 540	210 27 27
	Hermanus Heights	161 553	116 616	111 040	121 126	94 914	110 240	116 260	93 176	105 180	102 146	112.851	90.405	1 225 507
	Lndustria	450 444	411 095	484 863	452 699	466 704	482 079	564 964	408 666	486 408	470 433	465 264	499 274	5 642 803
	Kleinrivier	4 452	4 256	3 817	5 056	6 233	5 403	6 012	5 517	2 728	3 298	3 814	3 720	54 304
	Meerenbosch	0 ;	0	0	0	0	0	0	0	0	0	761	278	1 039
	Mount Pleasant	44 402	59 278	45 592	39 854	43 224	36 182	43 342	31 491	35 226	31 901	37 682	35 973	484 147
	Sandhaai	1 162 703	1 151 043	1146 275	1 110 013	1 179 547	1 190 418	1 341 344	1 182 700	1 166 654	1198524	1 166 999	1 065 887	14 062 109
	Voelklip	800 908	674 612	67.5 200	717 362	585 379	563 831	718 283	543 406	536 714	546 163	600 123	640 186	7 289 262
	Westcliff	3 540 989	3 633 857	3 602 187	3 471 824	2 470 061	250.00	851 450	507 516	578 779	648 982	904 969	543 778	7 830 811
	Zwelihle	225 190	239 012	258 399	240 975	409 836	264 815	300 754	3 303 665	3 259 923	3 329 678	3 221 948	3 258 447	41 329 086
Subtotal		8 042 700	7 914 488	7 900 958	7 623 192	7 732 502	7 722 643	900 / 30	412 002	230 105	269 463	283 658	272 492	3 279 915
Streetlights		108 151	108 151	108 151	108 151	108 151	108 151	108 151	1 322 324	7 329 598	7 541 658	7 580 960	7 290 666	92 735 879
PREPAID		2 934 933	2 886 715	2 833 334	2 819 818	2 802 861	3 060 471	2831636	101 001	101 801	108 151	108 151	108 151	1 297 812
Total Sales	•	11 085 784	10 909 354	10 842 443	10 551 161	10 643 604	10 801 24K	11 472 007	20 027 039	012 262 2	2 879 991	2 903 295	3 065 577	34 538 679
ESKOM		12 165 115	11 772 489	11 168 459	11 313 165	11 052 502	12 211 010	11 884 044	10 258 314	10 329 959	10 529 800	10 592 406	10 464 394	128 572 370
Electricity Losses	1	1 079 331	863 136	326 017	762 005	408 898	1 319 744	410 170	203 24E	1 002 202	11 196 499	11 305 389	11 570 802	137 637 731
% Electricity Losses		%6	7%	3%	7%	4%	811	38	25.3 E0.3	AU1	669 999	712 983	1 106 408	9 065 361
TOTAL for HERMANUS / KLEINMOND	KLEINMOND								9/6	10.6	9%	22	201	6.6%
Consumption		9 149 655	8 909 608	8 950 573	8 638 356	8 642 854	8 642 132	9 847 785	8 483 395	8 299 942	8 527 290	8 578 043	8 242 808	104 010 501
Streetlights		157 402	157 402	157 402	157 402	157 402	157 402	157 402	157 402	157 402	157 402	157 402	157.402	1 888 824
Tree Selec	1	4 394 731	4 277 142	4 191 986	4 193 773	4 144 505	4 580 520	4 229 288	3 901 732	4 287 229	4 280 592	4 317 210	4 528 800	51 327 507
TOTAL SAIRS		13 701 788	13 344 152	13 299 961	12 989 531	12 944 761	13 380 054	14 234 475	12 542 529	12 744 573	12 965 284	13 052 655	12 929 100	158 128 8K2
Flectricity Losses	1	14 960 969	14 565 507	15 362 077	13 919 808	13 548 638	15 207 141	14 622 738	12 968 504	14 068 901	13 874 898	13 974 047	14 333 501	171 406 731
% Flectricity Losses		1 239 101	1 2 2 1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 062 116	930 277	603 877	1 827 088	388 263	425 975	1 324 328	909 614	921 392	1 404 401	13 277 869
		2	2	44 CT	0.78	4.5%	12.0%	2.7%	3.3%	9.4%	6.6%	299	88 6	7.7%
STANFORD	Stanford North	65 352	72 255	63 234	61 151	60 611	55 859	67.351	62 942	56.834	60 933	70 = 07	600	
Metered	Stanford South	186 078	199 870	166 191	175 413	188 477	164 484	200 537	197.556	187 874	107 000	976 79	662 69	759 747
Subtotal		251 430	272 125	229 425	236 564	249 088	220 343	267 888	260 498	244 708	250 432	260 200	195 358	2 246 799
PREPAID	. !	391 587	372 802	362 713	367 374	359 164	393 863	361 308	344 286	365 690	258 792	24.3 501	220 607	3 006 546
Total Sales		643 017	644 927	592 138	603 938	608 252	614 206	629 196	604 784	610 398	618 215	612 979	370 922	4 419 082
Electricity, I arrest	I	660 593	687 445	655 900	631 210	651 187	655 376	690 241	676 354	607 082	673 082	645 972	671 640	7 00% 082
M. Flectricity Losses		9/6/1	44.51/	63.762	27 272	42 935	41 171	61 045	71 570	-3 316	54 867	32 993	28 061	480 454
decinally arrange		96	070	10%	4%	7%	%9	%6	31%	89	8%	5%	4%	6.1%

₩		522	700	356	970	887	700	787	200	308	250	371	1211	832	043	805	761		Q	757	70.4	1214	1/0/1	315	012		7 288	824	121.00	533 00	517 33	94 33	20°-1-0	
KWh		102 222	133 007	1821356	1 711 970	13 311 897	900 700 607	1 214 480	56.024	1 843 308	224 050	21 615 371	42 668 211	19 415 832	62 084 043	66 438 805	4 354 761	66%		734 747 34	107 + 10 CF	450 CZ	1/0 600 60	/4 344 88/	6.5%		150 587 288		75 162 421.00	0 227 638 533 00			7.37%	
June 2017 KWh		6 453	13 878	104 230	108 979	1 261 199	48 281	80.678	8 810	127.853	17 838	2 162 710	3 940 918	1 672 149	5 613 067	5 673 431	60 364	95		4 205 K75	2 051 071	4 254 444	2 200 pee	88 42F	1.4%		12 448 473	157 402	6 579 870.90	19 185 745.90		1 492 826	7.22%	150 587 288
May 2017 kWh	į	8 810	38 612	163 639	180 576	1 068 340	56.810	124 547	5 858	266 700	18 575	2 001 163	3 933 630	1 596 532	5 530 162	5 901 451	371 289	≥9 √17		4 184 018	1 959 123	K 142 141	2 E 4 7 4 3 3	404 283	6.2%	200	16 762 061	157 402	6 276 332.40	19 195 795.40	20 521 470.40	1 325 675	6.46%	138 138 815
Apr 2017 kWh	,	6 422	7 905	122 182	122 836	1 306 518	49 703	86 458	7 672	139 055	17 318	1 103 882	2 969 951	1 683 334	4 653 285	5 676 624	1 023 339	800		3 229 383	2 042 117	F 271 KOO	6 2/0 704	1078 206	17.0%	CE 7 79E	11 / 20 0/ 3	204 /01	6 322 708.60	18 236 783.60	20 224 604.24	1 987 821	9.83%	125 376 754
Mar 2017 KWh	Š	101 /	2 990	147 499	128 836	995 272	60 102	94 299	5 918	126 323	14 489	1818043	3 405 872	1611335	5 017 207	5 841 755	824 549	14%		3 650 580	1977 025	5 627 605	6 448 837	821 233	12.7%	11 050 522	11 230 352	704 /01	6 264 253.60	18 372 177.60	20 517 738.35	2 145 561	10.46%	113 620 081
Feb 2017 KWh	204 000	-743 IOO	7 063	127 859	140 876	981 243	54 442	97 087	4 736	147 210	18 007	1 949 225	2 584 642	1 477 556	4 062 198	4 993 338	931 140	%57		2 845 140	1821841	4 666 981	5 669 691	1 002 710	17 7%	11 328 535	15 CO	20+ 1C1	5 723 572.90	17 209 509.90	18 638 195.10	1 428 685	7.67%	101 669 559
Jan 2017 KWh	050 255	200 000	4 401	221 249	248 975	1 058 003	52 508	136 534	3 031	243 399	19 917	1873234	4 819 466	1 639 897	6 459 363	5 606 756	-852 607	-15%		5 087 354	2 001 204	7 088 558	6 296 996	-791 562	-12.6%	14 935 139	157.400	137 405	6 230 492.50	21 323 033.50	20 919 734.00	-403 300	-1 93%	90 341 024
Dec 2016 <u>KWh</u>	8 204	200	1/08	161 420	122 195	984 514	54 905	98 644	3 912	124 373	18 362	1 751 406	3 336 008	1 829 093	5 165 101	5 956 861	791 760	13%		3 556 351	2 222 956	5 779 307	6 612 238	832 931	12.6%	12 198 483	157 402	201 /07	0 003 4/5.20	19 159 360.20	21 819 378.89	2 660 019	12.19%	75 405 885
Nov 2016 KWh	8 ካፈጽ	1 0	020	148 481	129 170	1 085 482	55 207	93 910	3 785	129 572	20 852	1 964 278	3 646 910	1 563 912	5 210 822	5 073 506	-137 316	-3%		3 895 998	1 923 076	5 819 074	5 724 693	-94 381	-1.6%	12 538 852	157 402	4 047 501 10	01.100 / 00 0	18 763 835.10	19 273 331.13	509 496	2.64%	63 207 402
Oct 2016 kWh	10 556	0 207	100	134 335	121 247	1 168 476	48 991	91 010	3 329	126 423	18 532	1 760 517	3 492 803	1570 284	5 063 087	5 491 468	428 381	%8		3 729 367	1 937 658	5 667 025	6 122 678	455 653	7.4%	12 367 723	157 402	6 131 430 50		18 656 555.50	20 042 486.04	1 385 931	6.91%	50 668 550
Sept 2016 KWh	10 814	11 340	200 11	175 232	131 480	1172 096	53 263	105 840	3 314	128 168	21 459	1 773 617	3 586 652	1 565 074	5 151 726	5 307 792	156 066	3%		3 816 077	1 927 787	5 743 864	5 963 692	219 828	3.7%	12 766 650	157 402	6 119 772 40	0.112 77 7.10	19 043 824.40	21 325 769.32	2 281 945	10.70%	38 300 827
Aug 2016 KWh	2 8 8 7 7	8 033	10000	C88 7CI	138 537	1 106 485	48 604	909 26	2 415	144 135	20 382	1 788 483	3 517 431	1 593 238	5 110 669	5 421 325	310 657	%9		3 789 556	1 966 040	5 755 596	6 108 770	353 174	38 88	12 699 164	157 402	6 243 182 00	40 000 = 40 00	19 099 748.00	20 674 277.00	1 574 529	7 62%	25 534 177
<u>July 2016</u> <u>kWh</u>	10 189	8 821	1000	100 040	138 263	1 124 259	49 470	110 067	3 285	140 097	18 319	1668 813	3 433 928	1 613 431	5 047 359	5 494 498	44/139	%8		3 685 358	2 005 018	5 690 376	6 155 091	464 715	7.6%	12 835 013	157 402	6 399 748 90	00 271 200 01	19 392 163.90	21 116 060.47	1 723 897	8.16%	12 835 013
Suburb	Birkenhead	Blomnark	N - V - I de	De Neigers	Franskraai	Gansbaai	68 Industrie Park	Kleinbaai	Masakhane	Pearly Beach	Bredasdorp Distrik	Caledon Distrik		•		•			NFORD		•								•		•		3000	y 2013
Administration	GANSBAAI	Metered					-0				a	0.44.41	Subrordi	FREFALD	oral Sales	ESKOM	Electricity Losses	The Electricity Losses	TOTAL for GANSBAAI / STANFORD	Consumption	PREPAID	Total Sales	ESKOM	Electricity Losses	% Electricity Losses	Total Metered	Total Streetlights	Total Prepaid	Total Communition	nondimento miori	ESKOM	Electricity Losses	% Electricity Losses	Streetlights adjusted welf 1 Jan 2012
												1					3		5						•		-		-			•	K M	Street

DEPARTMENT	Bulk Water per Scheme Total K&	Bulk Water per Town Kl	Losses per Town Kl	Town Loss as % of Scheme Loss %	Water Metered plus Operational Losses K&	Non- Technical Water Losses Ke	Cost per Ke Purified R	Cost o	Cost of Water Losses R
Water Treatment : Kleinmond : Buffelsrivier :Kleinmond / Buff.River Total	1 573 880	752 588 821 292	203 625 455 126 658 751	30.9% 69.1% 100.0 %	561632 394 482 956 114	190 956 426 810 617 766	R 0.66 R 0.96	2 2 2 7 16 16	126 031.11 409 737.39 535 768.49
Water Treatment : Hermanus (De Bos)	4 111 346	4 111 346	317 045	7.7%	3 885 878	225 468	R 0.26	α,	58 621.68
Water Treatment : Stanford	304 177	304 177	76 937	25.3%	234 007	70 170	R 0.03	~	2 105.10
Water Treatment : Franskraal : Pearly Beach : De Kelders : Baardskeerdersbos : Buffeljagsbaai	1 566 869	981 433 132 537 435 920 13 052 3 927	366 388 21 928 162 737 5 047 200 556 300	65.9% 3.9% 29.3% 0.9% 0.0%	631 848 111 615 280 646 8 236 3 736 1 036 081	349 585 1 20 922 1 155 274 1 4 816 1 191 1 530 788	R 4.68 R 1.04 R 0.47 R 5.71	R R R R R R R R R R R R R R R R R R R	1636 058.39 21 759.2 72 978.84 27 496.76 -
Total	7 556 272	7 556 272	1 609 033		6 112 080 Kl	1 444 192		R 2 35	354 788.53

Franskraal Bulk =	981 433 =	œ	0.69	0.69 of Franskraal/De Kelde
De Kelders Bulk =	435 920 =	œ	0.31	0.31 of Franskraal/De Kelde
Total Franskraal/De Kelders 1 417 353 Gansbaai (Franskraal/De Kelders) losses divided in same ratio	1 417 353 losses divided in same ratio	œ	1.00	

R 144 069.28 R 2 210 719.25

164 841

21.29% 2.18% 19.11%

1 609 033

2 354 788.53

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