tione same	ocality to AUMBER FOR WEST	R_ SINGTH (H)	SINSTH (km)	Connection count Customer count	Customer density	Customer density (severity rating)	elatarical_ECS 1	fistorical_ELS 2	alet_ILS ILS	in progress tumments	fears since last	tts Fears since last severity rating	ELS ELS Schedule eaks	t ticheduled leaf no.4/km	ticheduled leuk no.4/km (severit) sitinal	teactive leaks teactive to na.q/km	ok tractive leak na.s/km (sevenity stine)	nottes installed	tiottos cudamer counage	notics customer coverage [coverity rating]	ing Asset Age Sverage a jurywity ating)	ige ti nan-plactic sipec	on non-plastic pipes (severity rating)	relatity
Javon Ave P.K. Zone Wootnobe Res. The Avenue Reed Extraordist R. P. The Avenue Reed	916 128 94 BASN 111 254.6 252 78.7	\$8091.97 \$307.35	50.1 3.3	\$199 11048.85 170 365.5	230.57 133.50	1	13/28 15/26 13/18		13/28 15/26 13/28		9	-	188 14	3.75 4.23	4	615 8.28 39 11.79 168 9.76	5	0	0.00% 0.00% 0.00%	3	\$2.69 \$ 62.77 \$	805 685	5 4	4.70 4.45
Montage Borania PB PMA Salarine RE P. Zone	1181 185 174 12	2180.75 2180.75	24.1 2.4	3462 N000.3 553 1188.95	523.39 660.70	5	16/17 18/30		16/17 18/30			-	345 32	12.36 12.40	3	346 34.47 90 34.87	1	329 131	3.56% 23.69%	4	28.77 4 65.86 5	575 225	2	4.10
MI SEAL LA MOREOGRACI	254 92 976 2546	9423.97 26030.86	9.4 N.0	127 701.05 615 1365.25 1367 1368.25	260.26 149.16 129.48	1	13/18 13/18 18/30		13/18 13/18 18/20		7 5	-	42 119	4.35 4.37	1	28 6.66 555 33.74 200 7.68	4	206 0	2.00% 32.46% 2.00%	1	52.76 S 55.71 S 42.42 S	76%	4	415
M. Washing Res. MIKZOF Res.	116 103.5 120 98	429077 03 431028 24	436.1 439.0	27113 78782.95 32758 72579.7	187.28 166.80	4	18/29 18/27	20/21	18/29 25/21		- :	- :	1227	2.88		4061 9.68 4398 32.03	3	2631 4968	7.09% 14.72%	-	71.92 S	825 795	4	4.05
Edes Powell / Humphries Rd F.K. Zone Harkston Res.	205 122 242 77.2	12371.27 274286.87	139.7 13.4 236.1	13717 27811.55 626 1861.6 23688 68779.2	108.66 177.67	1 4	19/17 13/18 13/18	23/21	35/21 13/28 22/28		7 2	4 2	23 28 2009	2.54 2.68	2 4	90 7.27 1790 6.58	4	0 H	0.00% 0.00%	5 4	57.22 S 56.93 S 66.10 S	85% 65%	5 4	195 190
Macketic Hill Epway Rec. NOTING HIS Rec. Senhuntly F.K.	977 285.6 117 196.2 557 72	55838 1136929-41 85036-76	65.8 1136.9 85.0	3063 6585.45 95686 225724.9 7284 15660.6	180.95 180.95	4	13/18 18/29 16/17	20/21	17/18 18/29 24/25	Mpe length from	5 Mail 7 6	8	289 289 210	2.08 2.17 2.47	1	800 6.08 8000 7.66 866 33.19	4 4 5	2295 8300 605	25.73% 2.67% 3.56%	* 4	66.10 S 56.18 S 68.37 S	92% 79% 82%	5 4 5	1.90
Noting Hill Reservoir PMA Stomana Rec (Bootler) The Basin No 1 Rec.	1068 68 128 274.2	84515.85841 878.77 22208	03 22.3	2991 6582.45 168 3182 927 1991.05	286.35 862.52 89.35	5 2	18/29 16/17 17/28		18/29 16/17 13/18	Mpe length from	1 Maid 6 8 1 Maid 7	4	2 64	2.28 2.88	3	228 6.86 7 7.92 182 8.20	4 4 5	402 40 644	27.43% 27.43% 68.47%	3 2	55.71 5 31.24 4 48.12 5	85% 67% 82%	3 5	1.85 1.80
Seises F.R. Srerama CR & Flinders ST PR Zone C Georges Rd P.R.	\$15 51 1060 208 MACONSPILD 1088 286	265679.69 3406.32 586.79	265.7 3.4 1.0	22758 48918.95 217 866.35 127 273.05	186.18 136.90 276.71	4 1 5	13/18 18/29 14/23	22/21	22/28 18/28 14/25		2 6 30	2 3 5	17 0	5.48 4.99 0.00	3	26 7.63 3 8.04	4 2	111 118 0	0.09% 52.07% 0.00%	4 2 5	65.15 5 65.15 5	68% 50% 60%	1 1	175
Sironia Res. Siendhan William Rös P.R. Zone Gillam North Reservoir PMA	187 185 108 92 1180 115	877582.81 8725.28 60006	9.77.6 9.2 60.0	25097 52958.55 307 662.05 5075 22951.25	142.95 67.86 181.75	2 4	18/30 18/29 18/30		18/20 18/29 18/20	Mpe length from	5 6	3	794 28 185	2.12 2.88 2.25	1	2679 6.57 70 7.25 667 7.79	4	2055 0 15	8.19% 0.00% 0.80%	5 5	61.12 5 52.08 5 35.69 4	72% 68% 75%	4 4	2.75 2.70 2.70
Oras Rec. Mt. View Rec. Mt. View Reservoir PMA.	160 180 115 152.4 1167 187	94199.03 92800.85 68221.3266	96.5 91.8 1 48.0	6217 1896-35 5259 11936-85 8165 6N6.25	141.46 128.17 157.17	1 1 4	13/18 15/26 15/26	20/21 20/21	13/18 20/21 20/21	Mpe length from	7 4 1 man 4	1 1	25.2 25.2 98	3.79 1.66 2.30	2	506 5.78 598 6.50 296 6.65	1	1 0 2517	0.02% 0.00% 80.03%	5 1	27.67 4 42.96 5 42.17 5	76% 77% 88%	4 4 5	3.70 3.70
Abridina Rec. Sparry North E/T Servick High Level Rec.	198 186.9 1006 839 225 188.8	7811.78 60036.62	189.7 7.8 60.0	11198 24064.95 279 814.85 2728 5854.45	137.60 106.81 146.82	1 1	18/30 18/29 13/18		18/20 18/20 17/28			-	27 78	3.46 3.46	4 2	60 7.68 227 5.67	-	292 1	2.00% 77.04% 0.06%	1 4	35.66 4 62.22 5 63.75 5	68% 66%	4	165 160
tandecong Res. Montroce Boronia F/B Mocrabion Res.	101 92 883 214.6 113 62.9	756632.66 116682.38 177266.09	726.6 126.4 177.8	51290 114578.5 4215 9062.25 14676 81129.1	159.88 77.88 175.55	4 2 4	13/18 16/17 13/18	23/24	28/26 26/27 22/28		1 8 2	4 2	387 687	2.43 2.12 2.47		536 6.10 531 6.07 1010 5.00	1	3558 806 525	5.75N 18.07%	4	63.56 S 63.50 S 66.27 S	75% 72%	4	160 160
Mornington Rec. Zone MT 5333 H/L Solens/Millode XSE'S P. R. Zone	243 73.5 235 129.6 433 226	94990.94 69868.90 12968.87	95.0 69.9 12.0	9125 19608.75 8800 8170 887 1242.05	206.58 136.99 105.68	1 1	16/17 18/30 17/18	22/28	22/28 18/30 17/28		5	2 3 4	57 589 29	0.60 2.13 2.42	-	604 6.36 388 5.52 36 3.00	4	2963 288 3	21.51N 5.08N 0.51N		68.03 S 66.79 S 68.86 S	60% 78%	4	1.60 1.60
Senfern RD F.K. Sadersone Rad	1673 178 1672 180	22908.90 68.088	22.9 68.5	1384 2975.6 1382 7271.3	129.88 149.96	1	17/18 18/19		13/18 18/29	Mpe length from	7 1 (10) 6		75 192	3.33 2.72	1	89 3.88 893 6.85	4	277 2805	22.01N 82.54N	4	35.80 4 46.79 5	775 885 3000	4	155
Marinde Dr Booder Limited P.A. Sone	MEAN PANEAGAM 1168 150 1683 98	908.55 908.03	10	79 263.85 216 203.4	230.07 130.22	1	13/18		17/28		12		2	0.00		2 2.47 17 5.58	1	0	0.00% 0.00%	5	31.35 4 34.12 5	45% 72%	4	155
Gris ST Booder Sid Morbulk Rd PRS	618 100 BLGANYE 1071 823	12522.95 805.88	12.5 0.8	894 1922.1 66 98.8	158.48 132.80	4	13/18 24/25		17/18 24/25		7 0	4	3	0.00 6.25		D 0.00 D 0.00		0	0.00% 0.00%	5	58.25 S 58.07 S	96% 200%	-	150
omers by's Boocter yable talk	435 27 435 27 1000 763	12852.02 22872.13	13.9 22.0	622 1337.3 1294 2782.1	104.05 104.05 136.62	1	18/30 13/28 13/28		18/30 13/28		1	1	10	2.57 1.55	1	62 4.62 98 4.66		206 0	33.12% 0.00%	1	52.53 S 31.53 4	60% 62%	4	150 150 150 150 150 150 145 145 145 145 145 145
Nourtain five P.E. Wringh RD Basin	1008 146 258 142.6	1292.67 37869.96	1.1	1041 2788 15 41 88.13 1884 2888.1	134.87 68.11 75.78	2	13/18 13/18		17/18 17/18 17/18		7	-	1 7	0.77 1.98	1 2	90 5.00 9 6.97 198 5.32		0 2	68.43N 0.00N 0.15N	1	42.45 S	45 75	i	145
eromana del. P.K. 2008 M. Martha Rei. Iomerset / Glenida / Panarama tv / Norfolk Cr F.K.	241 58 695 68 1067 123	29877.18 29877.18 17218.6	28.9 27.2	2/256 38.05.4 2176 2189.4 880 2892	156.70 117.86 109.88 167.76		18/30 18/30 18/20	22/21	23/28 18/30 18/28		- 1	i	1329 10 88	2.98 1.11 1.90	1	1816 8.58 159 5.51 100 5.90		264 265	22.89% 16.71% 21.30%	1	58.96 S 51.98 S 68.53 S	66% 66% 76%	4	145
MC Martin P.K. 2006 Sparry Res.	1014 48 1007 111 127 282.1	1315.53 53303	13 613	460 1676 65 128.75 3289 7272.35	147.76 106.28 133.66	-	16/17 16/17 18/29		16/17 16/17 18/29	has length from	- I	- :	2 116	1.52 1.52	-	2 1.52 2 1.52 455 7.12	Ħ	1 2171	22.78% 1.56% 66.01%	÷	41.82 S 54.13 S 44.45 S	975 975	3 4	1.40 1.40
tosecure GR Basin P.R. Zone socigowie Sr. – Elizabeth DR PR contervide Booster	665 128 668 110 1010 180	124090.87 8662.87 2953.82	136.2 87 3.0	9326 28377.9 1190 2429.5 516 3329.4	155.15 290.45 275.58	5 5	16/17 18/30 18/30		16/17 18/30 18/30		8 5 5	3 3	362 48 18	2.08 4.96 4.40	3 5	361 2.72 28 2.66 9 3.05	2 2 2	4 3 2	0.00% 0.27% 0.39%	4	31.24 4 31.80 8 31.45 8	32% 15% 12%	1 1	115
Oud RE P. K. MT View Receivair Resona PMA. Selety Beach L/L Tank Dromana Basin P.K. Zona	1023 180 1183 180 875 62	201687.71 250.68 114097.52	205.6 6-0 116.2	264 2042.1 894 2042.1 8947 28272.55	151.00 177.00 167.88	4	18/29 15/26 18/20	20/21	18/29 20/21 18/30		4	3 3	280 0 289	0.00 2.53	1	772 3.76 0 0.00 655 3.98	2 5 2	0 0 26	0.00% 0.00% 0.29%	5	32.56 4 52.82 5 35.99 4	60% 300% 42%	5 1	1.15 1.15
ately Beach Tank H/L Zone stadford Rd P.K.Zone Winona RD MI View Tank	629 135 132 120 433 177	9947.1 2342.44 58830.79	53 23 59.8	120 1333 140 301 2724 1856.6	134.05 138.95 87.90	1 1 2	18/30 16/17 13/18		18/30 16/17 13/18		*	- 4	18 0 77	0.00 1.29	2 1 2	7 2.99 208 3.48 9 1.70	2 2	150 9 5	26.19% 4.43% 0.18%	1	45.10 5 48.39 5 44.43 5	285 585 695	2 1 1	140 115 115 115 115 110 110 110 110 115 115
the Basis Hyl. Rec. Jameson ST P.R. Zone Socradin P.R. Zone	196 883 1186 120 616 62	\$180.7 1203.84 18508.67	5.2 12.2 15.5	224 681.6 8152 6776.8 664 1886.6	92.96 555.48 89.31	3 5 2	13/18		13/18	New Assets	7 20 7	3	2 2	2.12 0.16 1.32	1 2	9 1.76 27 2.25 129 8.10	2	0	0.00% 0.00% 0.00%	5	35.80 4 32.80 2 27.83 8	25% 27%	4 3	3.15 3.15
omers / Flinders P.L. Serwick South PMA Seven Meadaws / Toorsdin	258 87 1178 92 26% 87.6	12212.1 2728.08022 47999.42	13.3 2.7 68.0	669 1995.35 294 617.1 2988 8595.7	114.07 158.12 179.28	4 4	18/29 18/29 13/18		18/29 18/29 17/28		6	-	20 7 24	2.57 0.50	3	72 5.89 0 0.00 187 8.90	1	548 0 1	83.67% 0.00% 0.03%	1 5 4	28.00 3 36.62 4	75% 65% 65%	4 4 1	2.15 2.15 2.15
spinanting In/L Coldwell RD Tank School Way Bootter	277 83.8 493 149 818 191	11819.81 9651.48 1487.41	11.3 9.7 1.5	529 1258.85 578 1235.85 72 152.65	102.87 127.66 102.68	1 1	18/29 15/26 22/28	20/21	18/29 20/21 22/28		6 6 2	3 2	12 18	1.06 1.97 2.02	2 2	40 3.53 22 2.28 4 2.68	2 2 2	1 0	0.19% 0.17% 0.00%	4 5	41.43 \$ 44.70 \$ 41.41 \$	35% 36% 5%	2 2 1	110 110
ean RI / Marguarita Ave Repeat Highway FR Zone Ion Historian	622 121 188 117 824 68	13657.32 48150.02	10.3 17.7 68.3	571 1227.65 864 1814.6 2541 5663.15	130.10 102.77 118.66	1 1	16/17 16/17 18/30		16/17 16/17 18/30			- 1	15 05	0.29 0.85 0.96	1	85 1.40 43 1.57 267 5.55	2	178 871 758	22 30% 61 36% 25 63%	1	44.54 5 46.82 5 48.05 5	58% 62% 62%	1 1	8.10 8.10
Wooralia Drive P.R.Zone Seales dr P.R. Zone Sarfield Bootzer Zone	MOUNT BUZA 185 185 MOUNT MAKTHA 1663 79 1187 125	289.78 1669.29 2968.78	15 23	20 43 201 217.15 18 38.7	148.45 147.79 18.15	1 1	24/25 26/27		34/25 16/37		12 0 8	1	2	0.00 1.35 0.00	2	267 5.55 1 3.45 7 4.76 2 0.66	1	69 0	68.32% 68.32%	5 2 5	37.82 4 45.85 5 58.75 5	97% 92% 200%	1	105
Mt Martha H/L Rec (Harvet Dr Tank) Notting Hill Sandringham Rec Sub Zone Sankheach RD Booder	32 150 MADRIAGHAM 1004 104.2 KUKTMA 103.3 83	15075.57 6051.41 1677.48	15.1 44 17	826 1775.9 214 881.1 86 284.9	117.79 82.54 130.22	2	18/29 24/25 26/25		18/29 24/25 24/25		6	1	32 4 0	0.66 1.00 0.00	-	99 3.25 28 4.00 9 5.07	2	99 0 2	11.99% 4.00% 2.11%	4 4 4	41.08 S 48.16 S 51.87 S	55% 97% 92%	5 6	1.05 1.00
Caldwell RD P.R. Zone McGeszie RD Tank Suamby MJ P.R.	632 114 JPPER BEACCOCKE 1024 276 BIACONSPILIO 1087 177	2375.01 8996.23 1039.28	2.4 9.0 1.0	98 212.85 223 723.95 27 98.05	110.22 89.62 79.58	2 2	15/26 24/25 26/25	20/21	30/21 34/25 36/25		6 0		2 18 0	0.84 2.00 0.00		9 3.76 24 2.67 8 7.70	2 2	0 0	0.00% 0.00% 0.00%	5 5	48.67 S 48.87 S 36.79 4	47% 52% 98%	1 1	1.00
the Basis No. 2 Rec. Medien Port Industrial Zone Notice	94 BASN 186 274.2 236 85 245 221.5	20626 98629.17	34.6 94.6 81.0	1071 2932.45 1989 12874.35 1478 8296.85	93.50 136.07 96.00	3 3 2	24/25 18/29 16/17		24/25 18/29 16/17	Ape length from	1 mair 0	1	56 253	2.27 1.62	2	184 7.47 892 8.55	2	4 26	0.87% 0.27%	4	31.94 4 36.65 4	55% 42%	1	100
Sartield Souther, Rup Willoume RD Bootler	1625 321.5 468 61.8 822 68	17191-45 31482-96 65132-79	17.4 21.5 60.1	796 1711.4 1709 RNG.ES 2009 ROM.ES	19.46 139.66 130.00	1	16/17 18/29 18/29		16/17 18/29 18/29		- :	1	25 22 64	0.64 0.98	-	78 4.20 112 8.56 188 2.12	2 2	0 0	0.00% 0.00% 2.28%	5	21.52 E 24.89 E 61.96 S	975 975	2 5 2	2.95 2.95 2.99
Sugher don KD Tank Montaning KD Tank	1609 184 8068AVE 1606 77.3	13548.79 2887.09	13.5 2.8	271 582.45 255 568.25	48.00 189.90	1 4	16/17 24/25		16/17 26/25		8 0		0	0.00		15 1.11 0 0.00		0 0	0.00% 0.00% 76.36%	3	60.21 S 50.99 S	60%	4	2.95 2.95
Actions ST P.R. Zone Maller Place P.R. Zone STREY Tark	260 100.3 1600 103 448 90 207 56.75	901.36 4467.34	63 44 99.1	17 36.35 119 253.85 8159 675.85	27.40 40.55 57.58 98.36	2 2	28/20 28/25 18/29		18/30 28/30 26/25 18/29		5	- 1	0 12	2.25		272 4.46 2 2.32 28 5.17	1	20	2.00% 74.79%	1	53.22 5 55.40 5	705	-	2.95 2.95
Separation care Booder Consecute (II)	286 111.2 287 271.2	2796.22 79046.63	27 78.0	42 144.05 4121 8864.45	52.65 118.58	1	18/30		18/20		12 5	- 1	304	0.79 1.83	1	6 2.19 162 2.08	2	3	0.00% 0.07%	4	22.45 B	52% 32%	2	2.90 2.90
Great I/1 Great Great Great	63WVLIE 1063 130	7668.72 2781.57	27 28	187 603.05 180 887	52.48 189.08	3	13/18 13/14		13/18 18/16		7	- 1	0	0.65		28 1.45 8 8.28	2	0	0.00% 0.00%	3	32.91 4 21.79 8	25 25	1	2.85 2.85
Borokani N/S Assista Biduly RD Tank	DECREPAN 1061 120 179 131.5	2676.8 9413.13	27 94	129 277.85 561 1206.15	108.75 128.11	1	16/25		18/25 18/20	Security settled for	30 5	3	1 12	0.37 1.85	1	9 3.37 16 1.70	1	128	95.33N 0.18N	1	36.70 4 31.60 4	62% 62%	1	2.85
Years Warren Morth H/L Rec.	246 110 226 178.8	27291.66 3060.41	27.8	596 1281.4 129 277.85	66.57 80.62	1	18/29 18/29		18/29 18/29		1		4	0.85 1.85	1	118 4.10 8 2.40	2	0	0.00% 0.00%	5	37.91 4 35.94 4	25	i	2.80 2.75
Selgrows S/T Second Red	8058AVE 412 854.5 485 90	2888.55 178978.5	179.0	110 258 160% 2551.4	67.31 136.30 91.55	4	34/35 18/30		24/25 18/20	Sand Martin	0 3		2 122	0.12 1.82	1	6 2.08 18 4.68 416 2.12 0.00	2	90 17	75 00% 0.12%	4	66.42 S 22.59 B	16%	i	2.75
ang Lang york RD PR Zone York RD PR Zone	1693 64.8 417 60 227 188.5	40528.6 8106.72 99808 ***	81 81	1886 2975.6 688 1188.45 5466 1175.4	66.82 127.42 117.82	1	13/18 18/30 21/22		13/18 18/20 21/22	-,	- i	-	1 181	0.08 0.12 1.80		132 2.76 18 2.25 285 2.88 25 2.88 49 2.49	1	0 91 1052	0.00% 18.84% 18.82%	1	28.26 8 36.26 4 27.31	82% 82%	1 2 2	2.75 2.75 2.75
ortan North H/L ongwory sorie Warren F.E.	1009 167 1007 101.5 577 90	6279.64 18758.97	6.3 19.8 187.8	218 726.7 1228 2628.45 9821 2103.45	115.72 188.11 152.90	1	17/18 16/17 18/20		17/18 16/17 18/20	tion leavests from	7 8		3 13	0.80		25 2.98 69 3.48	2	62 9	18.34% 0.76%	4	21.79 8 22.65 8	385 285	2 2	2.70
Officer P.R. Zone abstracy Rd / Sugarcad Hill Rd P.R. tox Road PRS	445 120 1004 253 1016 110	26805.88 15088.28 12655.9*	86.3 15.1 11.7	6059 8726.85 588 1366.2 500 1076	188.46 81.79 92.21	2 2	18/29 18/29		18/29 18/29	New Access	20 6 6	1	9 15 16	0.19 0.99 1.82	1 1	355 8.35 37 2.45 46 3.00	2 2	1 0 0	0.02% 0.00% 0.00%	3	35.77 2 38.73 4 25.77 4	22% 22%	2 2	2.75 2.75 2.75 2.70 2.70 2.70 2.70 2.70 2.70 2.45 2.45
searc Rd Tank Same Warner Myk Res. Std Coart Rd Booster	1017 172 228 106.7 88WCX 1078 166.7	993536 90830.66 393.74	6.9 90.9	108 318.2 0641 9979.15	64.45 109.81 108.90	1	16/17 18/30		16/17 18/30		1 1	4	0 79 0	0.00		11 2.21 263 2.89 1 2.54	2 2	7 0	0.48% 0.15% 0.00%	4	27.68 B 27.86 B	63 63 63	1 1	2.65 2.65 2.60
Luca Valle RD Semeraphi Dr Lumenchia DR PR	1090 298 235 90 1076 107	867.42 112065	112.1	9 29.85 8125 19.25.75 342 85°.7	22.81 155.50 81.05	4 2	18/30		19/30 16/17	Newly added for Mpe length from Mpe length from	00.300 12 1.0040 5		9	0.00 0.41 0.95		0.00 269 2.40			0.00% 0.00%	1	32.40 4 18.96 2 34.04 4	2% 27%	į	2.60 2.60 2.60
taliam North Rec. Nelsec ST Sank Janobe PDE P.R. Zone	208 129.8 438 141.6 200MANA 675 88	21329 53294 genter	189.8 6 21.3 6.6	75 261.25 281 1575.85 119 298.85	0.85 73.89 64.79	2 2	15/26 18/29 26/25	19/20, 20/21 20/21	28/26 28/26 28/25 28/25	recently also	1 0		617 53	2.22 2.48		78 8.66 78 8.66	2	49 254	92.00% 36.63%	i	39.12 4 51.02 5	275 25	1	240 240 240 240 240 235 235 235
Servick South F.R. Service Cox F.R. How RD BOOCE	580 180 SKANBOURNS 1060 110 1301 50	2079.43 304.62	108.9 2.1 0.3	7054 15166.1 61 135.65 8 17.2	139.26 65.14 56.66	2 2	18/29		18/29	Simula added to	6 12 96 10 17	1	53 0 0	0.68 0.00 0.00	i	11 2.88 257 3.28 1 0.48 0.00		0 0	0.01% 0.00% 0.00%	3	27.18 8 28.67 8 28.10	32% 12% 12%	1 1	2.55 2.55 2.55
Note fall Guilly PRV Thompson KD P.K. Zone Suchas an RD PK	0368LO 526 310 680 90 8ACONDISO 1775	1611.17 83098.12	14 813	368 3612 6651 1639233	255.56 171.82 60 ***	1	24/25 18/29 28 ⁷⁹⁴		34/25 18/29 34/29	tipe leasts *	0 1		- 4	1.42 0.77		2 1.40 348 1.75 30 1	H	0	0.00% 0.00%	1	21.06 B 21.86 B	17% 11%	Ħ	2.55 2.55 2.50
ogarty KD Blocker Sole Scharck	1188 155 1188 150 1083 150 062 176	4724.05 8766.9	4.7 8.8 21.2	214 860.1 90 289.49	97.40 22.12 52.11	1 2	24/25 18/29 18/29		24/25 18/29 18/29	J		1	i	0.85		34 7.20 11 1.25		0	0.00% 0.00%	5	23.65 B 61.69 S	20% 15%	1	2.50 2.50
vanhae ST Bootser Sowelle Views Soot St Tank	ORRENTO 825 68 179 129	8606.8 16628.1	6.6 16.4	255 548.25 950 202.3 215 401.97	136.67	1	24/25 18/29 26/75		24/25 18/29 26/29	parastic re-	0 6	1	1	0.68		17 3.85 49 2.98 20 4	1	233 158 169	90.37% 96.37% 16.63% 68.77%	1	49.84 S 22.50 B	52% 16%	i	2.45 2.45
Gillan F.R. Sorth Upwey H.S. Bootter Control on the William	538 90 1064 860	274861.06 528.57	236.9 63	24696 7E395.4 25 32.25	197.94 34.73	4	15/26 18/29	20/21	24/25 18/29	Service Co.	0 6		292	0.62 1.08	1 2	1286 8.41 2 2.15	2	25	0.07% 80.00%	4	22.01 B 22.19 4	20% 20%	1	2.60
Varibourne Tank Machine Close P.R.	1018 R74 1018 R74 1000	293645.26 2687.25	290.6 3.7	22982 68431.3 130 322.3	170.00 87.38	4 2	15/26 18/29	20/21	35/21 18/29	LW Month, Pg	1	1	369	0.58		997 2.05 9 2.41	2 2	10 0	0.04N 0.00N	4	16.22 2 27.08 8	16% 9%	1	2.40 2.40
eighland DR Booctar Ong RD Tank	MARIANAM 1028 150 BRWICK 1167 275	2877.0 3897.1 1292.36	11	119 298.85 31 20.95	N.49 N.49 54.90	2 2					12 11 12	1	2	0.50		3 0.77 2 1.95		0	0.00% 0.00% 0.00%	1	14.71 2 14.71 2	2% 2%	1	2.85 2.85
Steril KD Booster Wido Lane Booster	100 25 100 150 150 150 150 150 150 150 150 15	77708.75 3806 883.67	24	75 263.4 28 60.85	67.81 68.42		14/25 18/20		14/25 18/30	May Access May length from	7 1 Mar 20 5	1	1 0	0.00 0.42 0.00		0 0.00 0 0.00			0.00% 0.00%	1	9.74 1 18.57 2 38.92 4	2% 12% 2%		2.85 2.85 2.80
Environ district PK Environ Rd Scheme (118.0% ERL) Env Morrington H, E.P.R.Zone	1019 115 MEAKOWICEK 1070 167 198 227	12152.41 12152.81	1.3 131.7	# 17.3 # 17.3 #278 17786.95	175.18 13.62 166.17	1	13/30	22/28	23/28		12 2	5 2	0 174	0.18 0.00 1.48	1	1 0.79 285 1.98		0 4112	0.03% 0.00% 48.70%	5	35.13 2 18.93 2 26.07 8	8% 8% 17%	i	2.25 2.20 2.20
brystorough 10h P.R. long RD Boother (motivable Tank	1069 63 BRWCX 1166 200 448 125	62956.87 593.42 93236.29	62.0 0.6 93.3	3869 12618.85 12 25.8 2856 6386.4	208.66 63.68 67.25	1 2	13/22		21/22 13/28		12 7	2 5 4	0 12	0.86 0.00 0.13	1	0 0.00 361 1.78	1 1	2 0 1	0.03% 0.00% 0.03%	4 5 4	9.15 1 14.54 2 15.21 2	2% 2% 82%	1 1 2	2.20 2.20 2.20
Stenham East Booster Zone Stenham/Officer P.R. Zone Nak DR Booster	1204 125 MARKANAM 1265 75 1293 180	893.42328 20729.48 812.70923	0.9 20.7 0.8	294 683.5 1256 2790.4 32 68.8	709.88 130.27 87.62	5 2 2	24/25		24/25	terwiy added for terwiy added for	985.394 2 0 985.394 30	1 5	1 0	0.00 0.05 0.00	1	1 1.12 55 2.65 1 1.20	2	0 0	0.00% 0.00% 0.00%	5 5 5	2.00 S 8.65 S 9.50 S	2% 72% 2%	1 4 1	2.15 2.15 2.15
Marcedare (Bittern Na2 P/L) Marchan Tank Heart RJ Na 2 PR	6716 87 248 121.5 1065 160	\$3652.17 736344.0281 \$184.99	\$1.7 \$ 236.1 5.5	1406 8044.4 18834 42579.1 297 423.55	58.66 171.86 82.68	2 4 2	16/17 16/17 16/17	23/24 23/24	23/36 23/36 36/37	Hipe length from	1 1 8	1 1	32 173 2	0.62 0.79 0.89		99 1.40 500 2.18 6 1.17	1	11 10 102	0.78% 0.05% 50.78%	4 2	28.55 4 18.21 2 28.87 8	22% 2% 8%	1 1	2.15 2.15 2.10 2.10 2.05 2.05 2.05 2.00 1.80
isudiora ed Bootzer Clyde North P.K. Officer High Level	1015 204 1170 90 5A4356AA 1160 125	285247 182248-01 18238-7	2.4 182.2 18.7	36 73.5 27736 59632.6 2979 6006.85	91.07 927.30 941.79	1	16/17 22/28 24/25		16/17 23/28 26/25		2 0	4 2 1	0 24 1	0.00 0.18 0.09		502 2.18 6 1.17 2 0.85 183 0.98 45 2.40		29 6 2	85.29% 0.03% 0.07%	1	81.91 4 6.18 1 6.95 2	2% 2% 16%	1 1 1	2.05 2.05 2.05
Novemb Rd Tank Conecution Bookter Skenham Hyb	1066 68.5 FORTSEA 1003 68 FARESSHAM 446 128.4	29349.47 1722 252895.62	28.3 1.7 252.5	425 913.75 85 192.75 9338 4467.2	37.31 106.13 25.61	1	18/20 24/25 24/25		18/30 24/25 24/25	Ape length from	5 1 (64) 0	1	1 0 21	0.00 00.00 80.0		26 0.92 2 1.16 61 0.24		0 56 2	0.00% 65.88% 0.07%	5 2 4	28.99 2 27.12 8 28.76 2	22% 2% 12%	1 1	2.00 1.80 1.50
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This tool is developed by Salman Tario		
(Scheduled Water Maintenance Engineer) and		
Charles Swain (Water Maintenance Manager).		
Please reach out at salman tarin@sew.com.au		
Table 1: Individual factors Ratings*		
	Severity rating	
Factors	(5=extremely high; 1= minor)	Severity rating definition
Years since last ELS	5	If ELS survey was conducted 10 or more years ago
	4	If ELS survey was conducted between 7 and 9 years ago
	3	If ELS survey was conducted between 4 and 6 years ago
	2	If ELS survey was conducted between 2 and 3 years ago
	1	If ELS survey was conducted 1 year or less ago
Scheduled leak no.s/km	5	If greater than 4 leaks per KM found through ELS
	4	If greater than 3 but less than or equal to 4 leaks per KM found through ELS
	3	If greater than 2 but less than or equal to 3 leaks per KM found through ELS
	2	If greater than 1 less than or equal to 2 leaks per KM found through ELS
	1	If less than 1 leaks per KM found through ELS
Reactive leak no.s/km	5	If greater than 8 leaks per KM found through ELS
	4	If greater than 6 but less than or equal to 8 leaks per KM found through ELS
	3	If greater than 4 but less than or equal to 6 leaks per KM found through ELS
	2	If greater than 2 but less than or equal to 4 leaks per KM found through ELS
	1	If less than 2 leaks per KM found through ELS
Sotto customer coverage	5	If 0% coverage.
	4	If coverage greater than 0% but less than or equal to 25%
	3	If coverage greater than 25% but less than or equal to 50%
	2	If coverage greater than 50% but less than or equal to 75%
	1	If greater than 75% coverage.
Average age	5	If avg pipe age greater than 40
	4	If avg pipe age greater than 30 but less than or equal to 40
	3	If avg pipe age greater than 20 but less than or equal to 30
	2	If avg pipe age greater than 10 but less than or equal to 20
	1	If avg pipe age less than 10
% non-plastic pipes	5	If % non-plastic pipes greater than 80%
	4	If % non-plastic pipes greater than 60% but less than or equal to 80%
	3	If % non-plastic pipes greater than 40% but less than or equal to 60%
1	2	If % non-plastic pipes greater than 20% but less than or equal to 40%
[1	If % non-plastic pipes less than 20%
Customer density	5	If customer density greater than 200
I	4	If customer density greater than 150 but less than or equal to 200

3 Endotreme density greater thes 100 but less than or equal to 150
2 I sustained entailing teach than 50 but less than or equal to 150
2 I sustained entailing seater than 50 but less than or equal to 150
4 Entings are introduced to provide easy interspretability and clear severity thresholds for each factor, and cared out the effects of high value bits and outliers

Table 2: Individual factor contribution		
Priority	Factors	Weightage
> Priority is directly proportional to years since	Years since last ELS	15%
	Leak no.s/km (scheduled)	15%
	Leak no.s/km (reactive)	15%
	Sotto customer coverage	10%
	Average age	20%
	% non-plastic pipes	10%
	Customer density	15%
		100%

Table 3: Factors definition		
	Definition	
Years since last ELS	Years since last leak detection survey	was carried out to detect leaks within a zone.
Leak no.s/km (scheduled)	Leaks found per KM in a zone through	n leak detection surveys.
Leak no.s/km (reactive)	Leaks detected per KM in a zone thro	ugh reactive approaches.
Sotto customer coverage	Sottos installed relative to the total o	ustomer count in a zone.
Average age	Average age is taken as the age of ea	ch pipe divided by total number of pipes in a zone.
% non-plastic pipes	Total length of non-plastic pipes in a :	rone divided by total pipe length
Customer density	Total customers per KM in a zone.	

Sones Name	Table 4: Zones removed		
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Darroute No (RTP) Optic L RW (RTW) Optic	Cardinia Reservoir Sub Zone	not found in GT viewer	
Syste L. RW (ETP) And Source and Sea HV, RW host Source and Sirvivere Surbourne South VL RW host Source and Sirvivere Academic South VL RW host Source and Sirvivere Academic South VL RW (ETP) And Source South VL RW (ETP) And Source South VL RW (ETP) And Source RW (ETP) And Sou	Chirnside RW	not found in GT viewer	
Synth Euron (EEF) Early Ea	Chirnside RW (ETP)	not found in GT viewer	
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The state of the s			

Table 5: Zones never surveyed for leak detection	
	Years since last ELS
Bayview Rd Scheme (118.0m LWL)	ELS started 12 years ago. For these
Cameron ST P.R. Zone	
Carpenters Lane Booster	
Coolart Rd PR	
Cranbourne South H/L	
Earlston Circ P.R.	
Highland DR Booster	
King RD Booster	
King RD Tank	
Officer Low Level	
Officer P.R. Zone	
Old Coach Rd Booster	
Waterside Dr Booster	
Wooralla Drive P.R.Zone	
Aura Vale RD	
Barker RD Booster	
Gembrook Tower	
Hove RD Booster	
Pakenham East Booster Zone	
Peak DR Booster	