



PRESENTATION TO : KZN RECONCILIATION STRATEGY

MSUNDUZI WATER SERVICES AUTHORITY

FEBRUARY 2017



HISTORY



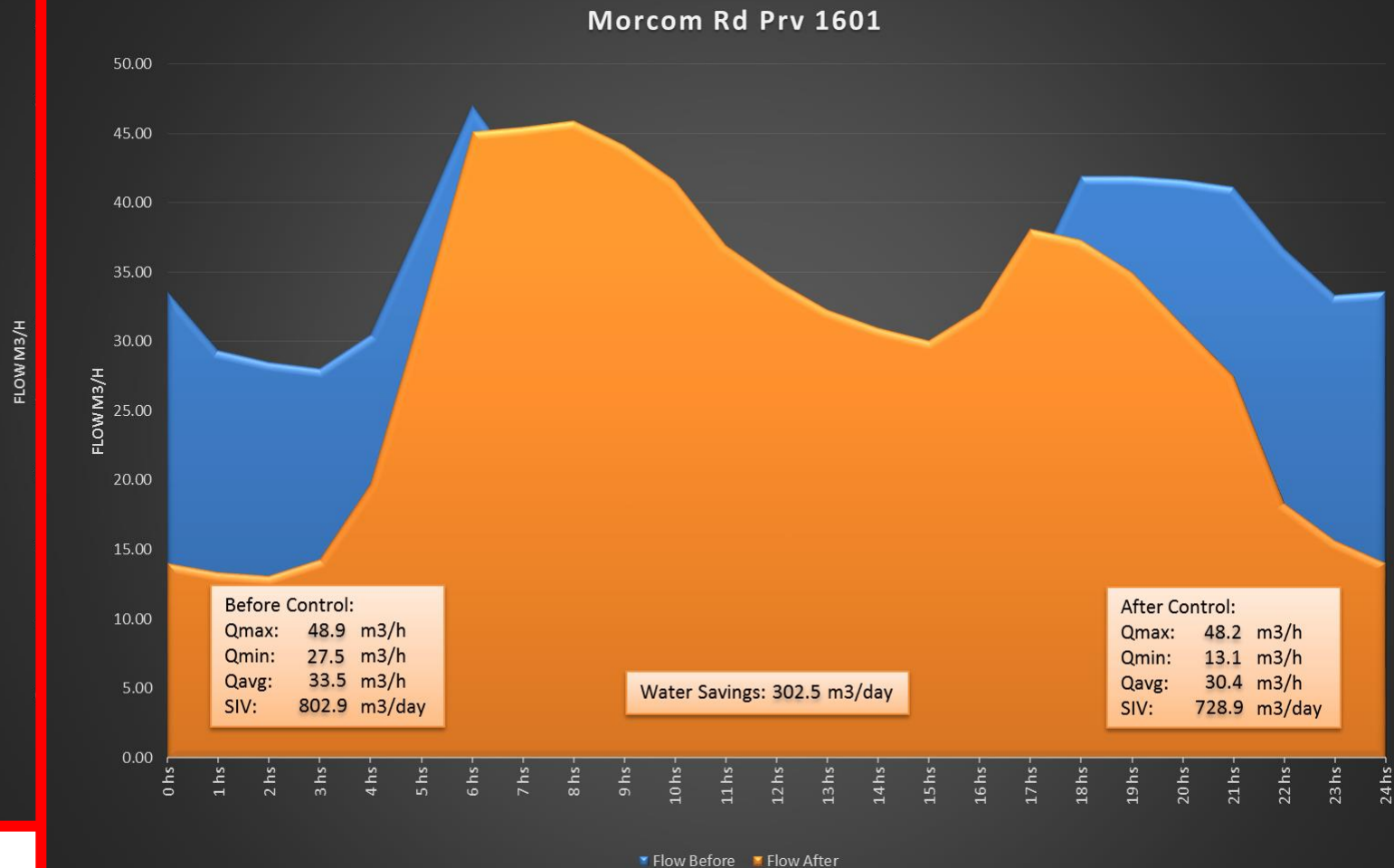
- 15 Dec 2015 – DWS sent a directive to restrict demand with immediate effect
- Operations were on skeleton staff allocation due to end of year shut down period
- NRW Consultant and Contractors were also on year end shut down
- Jan 2016 – Draft Drought Mitigation Plan drafted by PSP
- Feb 2016 – EXCO accepted Plan and “fast-tracking” of SCM processes to procure services and materials began.

HISTORY



- Mar 2016 – Implementation of Drought Mitigation Plan began sporadically with existing service providers
- Apr 2016 – **DWS instructed WSA's to reduce demand by 15%**
- Apr 2016 – Drought Mitigation Plan full implementation underway with all Contractors and materials procured

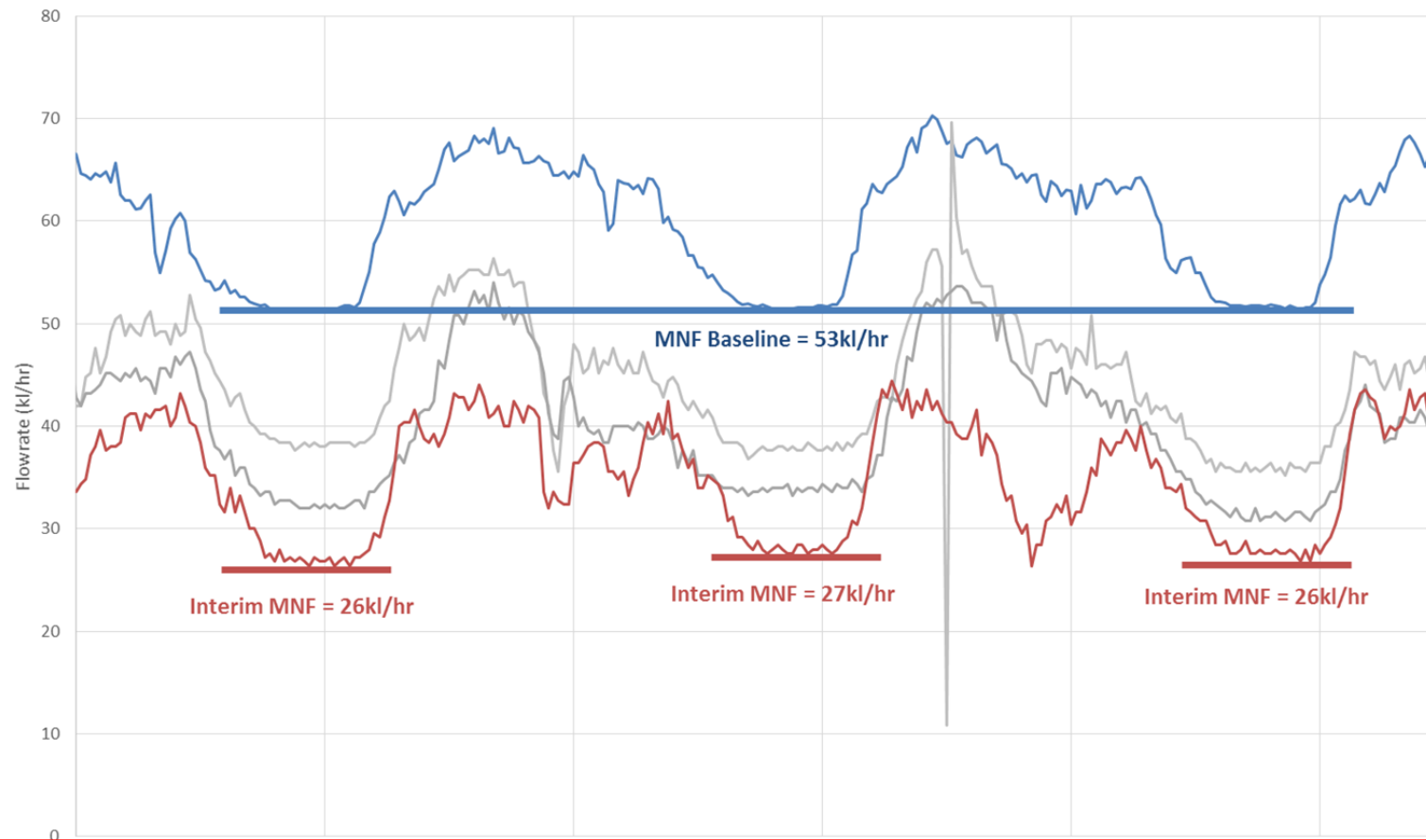
Pressure Management: PRV Savings on Selected PRVs



WATER SAVING DUE TO INTERNAL LEAK REPAIRS



Comparison of Baseline Flowrate and Final Profiles of Internal Leak Repairs within Haniville



DAM LEVELS



	Spring Grove Dam	Mearns Weir	Midmar Dam	Albert Falls Dam	Nagle Dam	Inanda Dam
Full Supply Capacity (Mcm)	139,50	5,10	235,00	289,00	23,20	242,00
Dam Percentage (%)						
08-Feb-16	81,52	108,32	47,11	37,59	83,05	80,29
19-Jul-16	59,10	35,81	45,01	27,97	65,45	68,62
20-Jul-16	59,10	38,64	45,01	27,92	65,21	68,42
21-Jul-16	58,77	38,92	45,01	27,88	64,87	68,33
22-Jul-16	58,21	39,19	45,01	27,83	64,81	68,23
23-Jul-16	57,64	40,05	45,12	27,73	64,93	68,13
24-Jul-16	57,59	41,16	45,12	27,68	64,98	68,09
16-Jan-17	52,93	103,64	58,01	26,57	64,87	62,39
17-Jan-17	52,87	103,12	58,19	26,52	65,91	62,34
18-Jan-17	53,15	102,08	58,25	26,43	66,79	62,29
19-Jan-17	53,49	100,53	58,38	26,33	67,49	62,11
20-Jan-17	53,55	98,38	58,50	26,19	67,84	62,06
21-Jan-17	53,77	100,00	58,62	26,14	68,26	62,02
22-Jan-17	54,05	106,24	58,68	26,52	68,73	61,88
23-Jan-17	54,05	105,72	58,74	25,95	69,32	61,69
24-Jan-17	54,05	104,16	58,80	25,90	69,56	61,60
25-Jan-17	54,28	102,60	58,86	25,86	70,22	61,51
26-Jan-17	54,28	100,53	58,92	25,76	70,81	61,51
27-Jan-17	54,67	100,53	58,92	25,67	71,95	61,42
28-Jan-17	54,84	98,79	58,92	25,57	72,79	61,28
29-Jan-17	55,17	97,99	58,92	25,48	73,58	61,14
30-Jan-17	55,23	95,15	58,92	25,43	74,19	61,10
31-Jan-17						

SAVINGS TO DATE



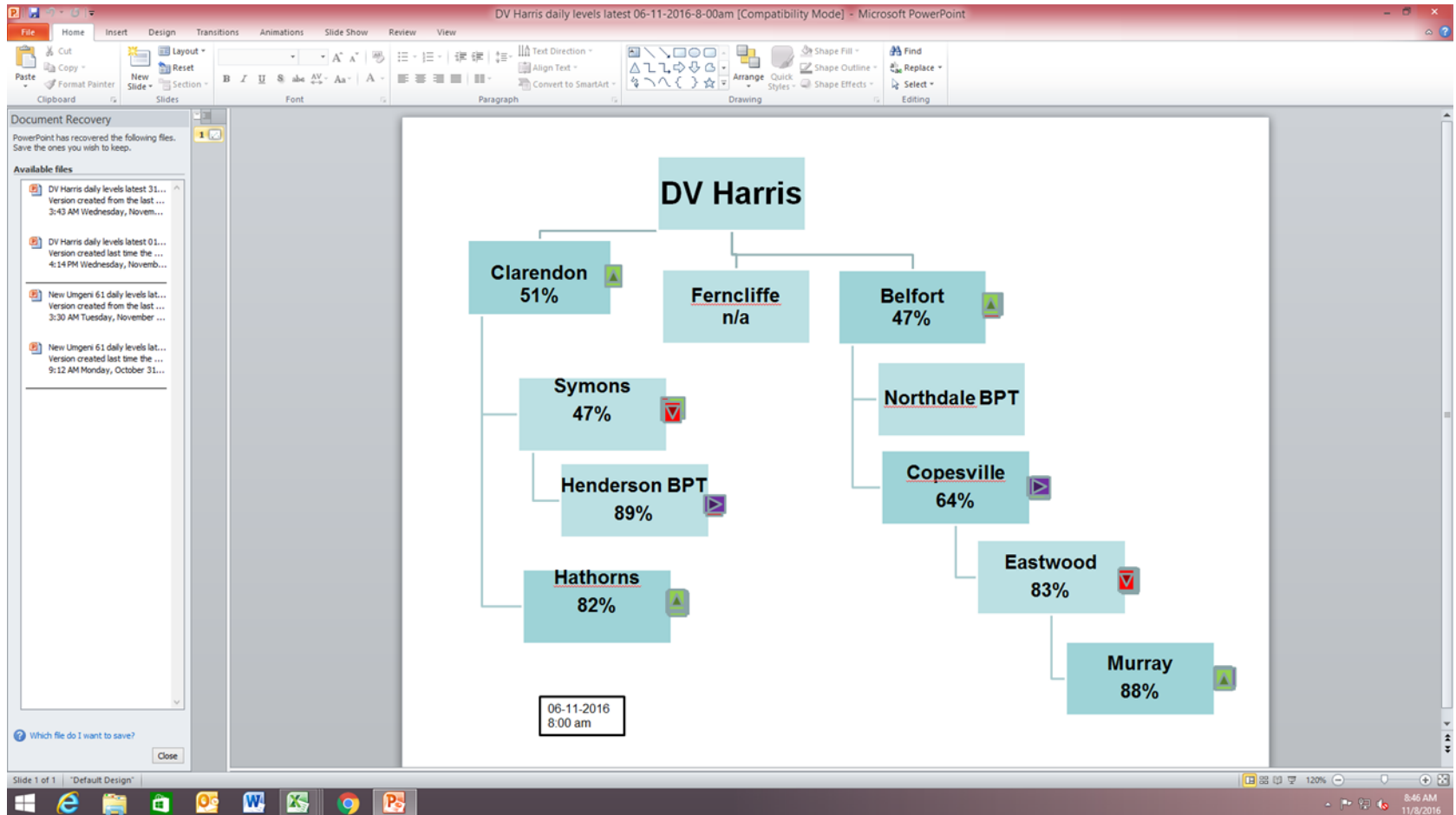
Water Treatment Plant		Midmar	DV Harris	Midmar + DV Harris	Point M	Upper Mgeni Total	% Savings
Historical Average (MI/d)		280,95	62,05	343,00	88,09	343,00	
5% Reduced Demand (MI/d)		266,90	58,95	325,85	83,69	325,85	
10% Reduced Demand (MI/d)		252,86	55,85	308,70	79,28	308,70	
15 % Reduced Demand (MI/d)		238,81	52,74	291,55	74,88	291,55	
24-Jan-17		247,37	110,09	357,46	85,62	357,46	-4,22%
25-Jan-17		250,18	109,85	360,03	78,60	360,03	-4,97%
26-Jan-17		249,22	111,50	360,72	85,10	360,72	-5,17%
27-Jan-17		139,12	98,01	237,13	57,53	237,13	30,87%
28-Jan-17		200,86	94,58	295,44	78,34	295,44	13,87%
29-Jan-17		204,40	93,11	297,51	73,02	297,51	13,26%
30-Jan-17		215,00	100,73	315,73	77,02	315,73	7,95%
31-Jan-17							
01-Feb-17							
02-Feb-17							
03-Feb-17							

SAVINGS TO DATE

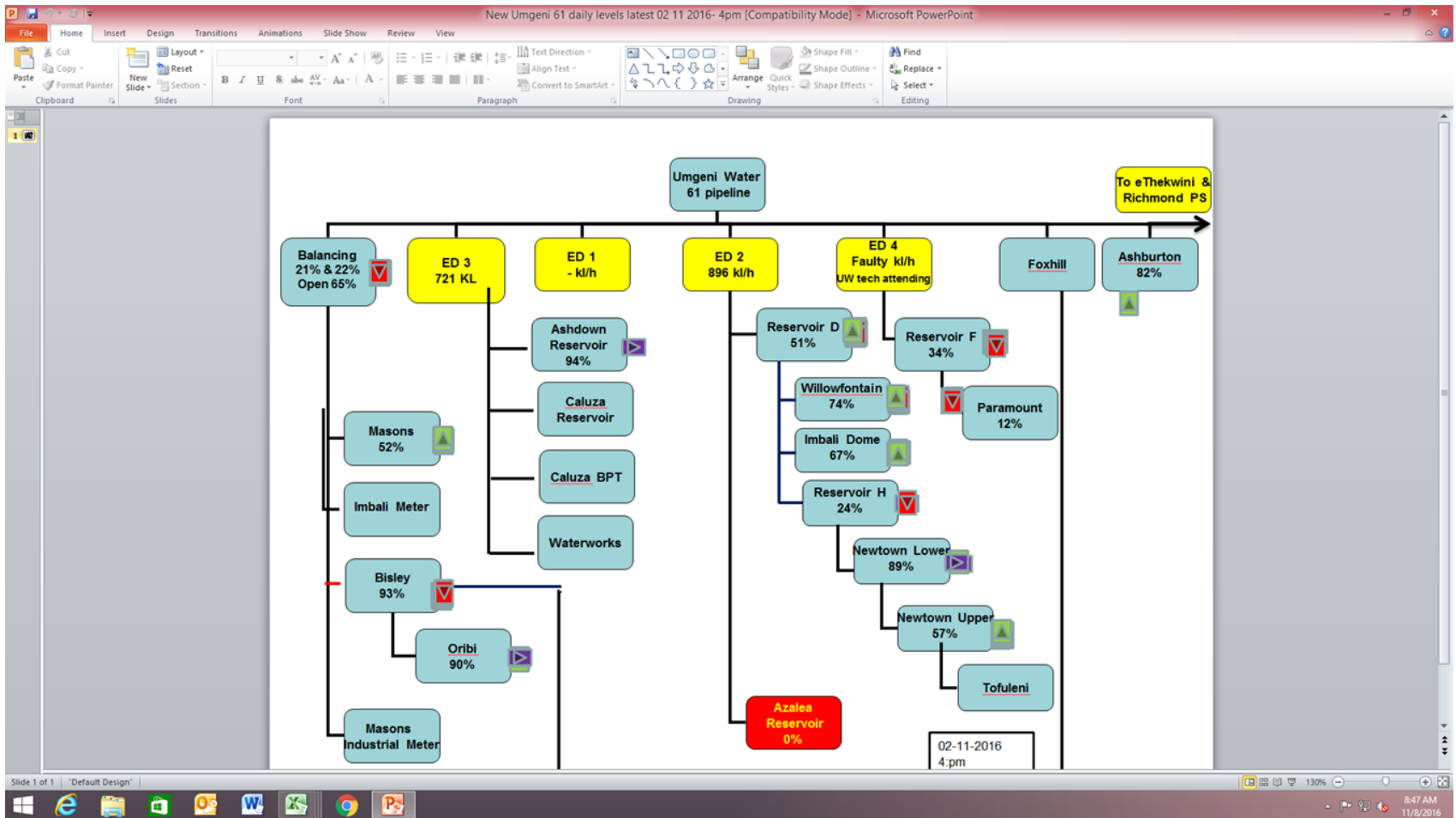


% Saving per Municipality					
Month	eThekwini	Msunduzi	UMDM	Ugu	Total
Jan-16	1,66%	0,98%	-0,93%	-11,33%	1,31%
Feb-16	-0,47%	-3,94%	-7,98%	-11,33%	-1,48%
Mar-16	3,14%	1,11%	7,74%	-6,82%	2,89%
Apr-16	4,59%	12,87%	5,45%	-3,02%	5,98%
May-16	7,27%	11,30%	2,42%	3,89%	7,73%
Jun-16	8,75%	22,51%	6,07%	18,21%	11,08%
Jul-16	8,69%	14,98%	9,46%	-2,34%	9,70%
Aug-16	7,76%	14,52%	9,54%	1,66%	8,95%
Sep-16	10,63%	14,43%	12,17%	10,81%	11,35%
Oct-16	10,71%	14,45%	10,71%	9,44%	11,33%
Nov-16	9,74%	12,84%	19,77%	18,89%	10,78%
Dec-16	8,47%	10,54%	16,36%	-7,21%	9,03%

TELEMETRY



TELEMETRY



Thank You

