WESTERN CAPE WATER SUPPLY SYSTEM

Reconciliation Planning Tool

Introduction

Explanation of how to use this tool

Explanation of terms used in this tool

Legends

Etc

Low Growth 1.015 Intermediat 1.025 High Growth 1.04

CURRENT SYSTEM YIELD (Million cubic metres)

	Year	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Existing System Yield		**64.96**	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96	64.96

WATER REQUIREMENT SCENARIOS (Million cubic metres)

		Year	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Future water requirements	Low Scenario		41.184	41.395	41.184	41.951	42.512	43.331	43.574	43.842	43.599	43.148	41.935	41.424	41.424	40.970	40.515	40.061	39.606	39.742	39.338	38.913	38.535	38.156	37.748	37.339	36.871	36.535	36.212	35.830	35.433	35.072																
	Sage Scenario		86.102	86.102	86.102	86.388	86.388	86.588	86.588	86.588	4.424	4.424	4.424	4.424	4.424	4.424	4.424	4.424	110.276	111.386	113.493	116.402	117.111	118.402	120.120	121.609	123.176	124.891	125.389	125.187	126.889	124.283	124.283																
	Intermediate Scenario		44.922	44.922	44.922	45.409	45.109	47.458	48.189	49.125	50.145	51.165	51.165	51.165	51.165	51.165	51.165	51.165	59.493	60.016	61.210	62.688	63.924	65.505	64.623	66.383	66.615	67.774	67.518	67.606	67.830	67.727	67.671																
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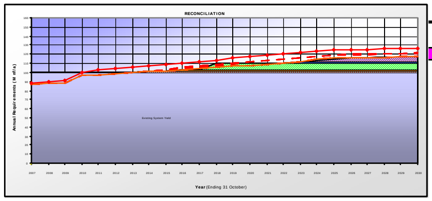
INTERVENTION PROGRAMMES			Reconnaissance (years)			Pre-feasibility (years)			Feasibility (years)				Construction/Implementation (years)							
			max time			max time			max time		concurrent	concurrent	max time		concurrent	concurrent				
Select / de-select	Scheme	Ref No	Lag time (budget delay)	TOR / Appoint Consultant	Recon-naissance	Lag time (budget delay)	TOR / Appoint Consultant	Pre-feasibility	Lag time (budget delay)/ Pilot study	TOR / Appoint Consultant	Feasibility Study/ EIA	DWAF Reserve determination	Lag time (budget delay)	TOR / Appoint Consultant	DWAF licensing process (Reserve)	DEA&DP approval process	Design / tender prepar. & award	Construct /Implement/ Council Bylaw	Warm up /First filling	
Selected	WC/DM- WATER USE REDUCTION: Water metering at "deemed to use households"		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5
Selected	WC/DM- WATER USE REDUCTION: Annual Water Audit		0	0	0	0	0	0	0.3	0.2	0.5	0	0	0	0	0	0	0	0	1
Selected	WC/DM- WATER USE REDUCTION: Comprehensive and effective metering, reading, billing and debt control		0	0	0	0	0	0	0.3	0.2	0.5	0			0	0			0	4
Selected	WC/DM- WATER USE REDUCTION: Enhancement to the current water use education programme		0	0	0	0	0	0	0.3	0.2	0.5	0			0	0			0	1
Selected	WC/DM- WATER USE REDUCTION: Structured response in respect of defaults in water payment or excessive use		0	0	0	0	0	0	0.3	0.2	0.5	0			0	0			0	1
	WC/DM- WATER USE REDUCTION: Support to private and public bodies to maintain water use installations		0	0	0	0	0	0	0.3	0.2	0.5	0			0	0			0	1
	WC/DM- WATER USE REDUCTION: Amendment to the current consumer tariff structure		0	0	0	0	0	0	0.3	0.2	0.5	0			0	0			0	1
	WC/DM- WATER USE REDUCTION: Use of " pour flush" or other water efficient type sanitation systems in place of free flush systems		0	0	0	0	0	0	0.3	0.2	0.5	0			0	0			0	1
	WC/DM- WATER USE REDUCTION: Attend to water wastage at public facilities		0	0	0	0	0	0	0.3	0.2	0.5	0			0	0			0	2
Selected	WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Installation of area meters		0	0	0	0	0	0	0.3	0.2	0.5	0	0.4	0.4	0	0	0.4	3.8	0	4
Selected	WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Pressure reduction		0	0	0	0	0	0	0.3	0.2	0.5	0	0.4	0.4	0	0	0.4	5.8	0	7
Selected	WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Apply a management information system (MIS)		0	0	0	0	0	0	0.3	0.2	0.5	0	0.4	0.4	0	0			0	3
	WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Water infrastructure asset management		0	0	0	0	0	0	0.3	0.2	0.5	0			0	0			0	2
	WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Improve the monitoring of the quality of construction of water use installations		0	0	0	0	0	0	0.3	0.2	0.5	0							0	3
	WC/DM- WATER LOSS AT WTWs AND UPSTREAM: Recovery of process water at the remaining 7 WTWs		0	0	0	0	0	0	0.3	0.2	0.5	0							0	4
	WC/DM- WATER LOSS AT WTWs AND UPSTREAM: Reduction in abstraction losses		0	0	0	0	0	0	0.6	0.4	1	0	0.2	0.3	0.3	0.4	0.5	1.3	0	3
Selected	WASTEWATER RETURN FLOW- Return flow from Upper and Middle Buffalo and Upper Kubusi to enhance the yields of dams		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	WASTEWATER RETURN FLOW- Mdantsane East & Reeston: Return Flow to contribute to the EWR		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	WASTEWATER RE-USE- Mdantsane East & Reeston: Domestic		0	0	0	0	0	0	0.3	0.2	0.5	0	0.2	0.3	0.2	0.2	0.5	1.6	0	1
Selected	WASTEWATER RE-USE- Mdantsane East & Reeston: IDZ/Industrial		0	0	0	0	0	0	0.3	0.2	0.5	0	0.2	0.3	0.2	0.2	0.5	1.6	0	1
	WASTEWATER RETURN FLOW- Mdantsane West/Potsdam: Return Flow to contribute to the EWR		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Selected	WASTEWATER RE-USE- Mdantsane West/Potsdam: Domestic																		0	1
	WASTEWATER RE-USE- Mdantsane West/Potsdam: IDZ/Industrial																			
	WASTEWATER RE-USE- Mdantsane West/Potsdam: Irrigation																		0	1
	WASTEWATER RETURN FLOW- Central (From Reeston): Return Flow to contribute to the EWR		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selected	WASTEWATER RE-USE- Central (From Reeston): Domestic		0	0	0	0	0	0	0.3	0.2	0.5	0	0.2	0.3	0.2	0.2	0.5	1.6	0	1
Selected	WASTEWATER RE-USE- West Bank: IDZ/Industrial		0	0	0	0	0	0	0.3	0.2	0.5	0	0.2	0.3	0.2	0.2	0.5	1.6	0	1
	WASTEWATER RE-USE- West Bank: Domestic		0	0	0	0	0	0	0.3	0.2	0.5	0	0.2	0.3	0.2	0.2	0.5	1.6	0	1
	WASTEWATER RE-USE- East Bank: IDZ/Industrial		0	0	0	0	0	0	0.3	0.2	0.5	0	0.2	0.3	0.2	0.2	0.5	1.6	0	1
Selected	WASTEWATER RE-USE- East Bank: Domestic		0	0	0	0	0	0	0.3	0.2	0.5	0	0.2	0.3	0.2	0.2	0.5	1.6	0	1
	WASTEWATER RE-USE- Quinera (Gonubie): Irrigation		0	0	0	0	0	0	0.3	0.2	0.5	0	0.2	0.3	0.2	0.2	0.5	1.6	0	1
Selected	WASTEWATER RE-USE- Quinera (Gonubie): Domestic		0	0	0	0	0	0	0.3	0.2	0.5	0	0.2	0.3	0.2	0.2	0.5	1.6	0	1
	SUPPLY FROM WRIGGLESWADE - Protection of the Yellowwoods River		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Selected	AUGMENTATION OF WATER SUPPLIES - Nahoon River: A dam at Stone Island Farm		0.1	0.1	0.3	0.15	0.15	0.7	0.15	0.225	1.05	0.075	0.1	0.2	0.1	0.1	0.4	1.1	0	5
	AUGMENTATION OF WATER SUPPLIES - Keiskamma River: Transfer of water from Sandile and Binfield Park Dams					0.15	0.15	0.7	0.1	0.15	0.7	0.05	0.1	0.2	0.1	0.1	0.4	1.1	0	1
	AUGMENTATION OF WATER SUPPLIES - Gqunube River: A dam at Grootheok/Waterfall		0.2	0.2	0.6	0.15	0.15	0.7	0.1	0.15	0.7	0.05	0.2	0.4	0.2	0.2	0.8	2.2	0	1
	AUGMENTATION OF WATER SUPPLIES - Gqunube River: A dam at Umhalla's Kop		0.2	0.2	0.6	0.15	0.15	0.7	0.1	0.15	0.7	0.05	0.2	0.4	0.2	0.2	0.8	2.2	0	1
	AUGMENTATION OF WATER SUPPLIES - Kwelera River: A dam at Wesselshoek		0.2	0.2	0.6	0.15	0.15	0.7	0.1	0.15	0.7	0.05	0.2	0.4	0.2	0.2	0.8	2.2	0	1
	AUGMENTATION OF WATER SUPPLIES - Kubusi River: A dam on the farm Matola		0.2	0.2	0.6	0.3	0.3	1.4	0.2	0.3	1.4	0.1	0.25	0.5	0.25	0.25	1	2.75	0	1
	AUGMENTATION OF WATER SUPPLIES - Keiskamma River: A dam at Ravenswood Farm		0.2	0.2	0.6	0.3	0.3	1.4	0.2	0.3	1.4	0.1	0.25	0.5	0.25	0.25	1	2.75	0	1
	AUGMENTATION OF WATER SUPPLIES - Keiskamma River: A dam at Thornwood Farm		0.2	0.2	0.6	0.3	0.3	1.4	0.2	0.3	1.4	0.1	0.25	0.5	0.25	0.25	1	2.75	0	1
	AUGMENTATION OF WATER SUPPLIES - Great Kei River: A dam at nGqutu		0.4	0.4	1.2	0.45	0.45	2.1	0.3	0.45	2.1	0.15	0.35	0.7	0.35	0.35	1.4	3.85	0	1
	AUGMENTATION OF WATER SUPPLIES - Keiskamma River: A dam at the confluence of the Keiskamma and Tyume Rivers		0.2	0.2	0.6	0.3	0.3	1.4	0.2	0.3	1.4	0.1	0.25	0.5	0.25	0.25	1	2.75	0	1
	AUGMENTATION OF WATER SUPPLIES - Thorn River: A weir at Blackpool (Clachan)		0.2	0.2	0.6	0.3	0.3	1.4	0.2	0.3	1.4	0.1	0.25	0.5	0.25	0.25	1	2.75	0	1
	AUGMENTATION OF WATER SUPPLIES - Buffalo River: A dam at Fairways Farm		0.1	0.1	0.3	0.15	0.15	0.7	0.15	0.225	1.05	0.075	0.1	0.2	0.1	0.1	0.4	1.1	0	1
	AUGMENTATION OF WATER SUPPLIES - Toise River: A weir at North Slope		0.2	0.2	0.6	0.3	0.3	1.4	0.2	0.3	1.4	0.1	0.25	0.5	0.25	0.25	1	2.75	0	1
	AUGMENTATION OF WATER SUPPLIES - Thomas River: A weir at Allandale		0.2	0.2	0.6	0.3	0.3	1.4	0.2	0.3	1.4	0.1	0.25	0.5	0.25	0.25	1	2.75	0	1
	AUGMENTATION OF WATER SUPPLIES - Thomas and Thorn River: A weir at Blackpool (Clachan) as well as a weir at Stonehence																		0	1
	DESALINATION Domestic		1	0.1	0.3	0.1	0.3	0.3	0.1	0.3	0.6	0.1	0.2	0.5	0.5	0.5	1	1	0	0
	DESALINATION Industrial		1	0.1	0.3	0.1	0.3	0.3	0.1	0.3	0.6	0.1	0.2	0.5	0.5	0.5	1	1	0	0
	DESALINATION Irrigation		1	0.1	0.3	0.1	0.3	0.3	0.1	0.3	0.6	0.1	0.2	0.5	0.5	0.5	1	1	0	0
	GROUNDWATER		0.2	0.1	0.2	0.1	0.2	0.5	0.2	0.2	0.3	0.1	0.2	0.5	0.2	0.2	0.5	0.5	0	0

WATER REQUIREMENT SELECTION	
Low Scenario	
High Scenario	
Intermediate Scenario	selected for financial calculations

FUNCTIONS	
	NET PRESENT VALUE
	R 229
	OF SELECTION (in millions)
SAVE TO STUDY SHEET	
	0



100%
75%
50%
25%
0%

INTERVENTION SELECTION

KEY
Selected for input to graph
Start year is earlier than current year

100% WDM Confidence Index

Order	Intervention		Year of First Water or Saving	Yield	Total Lead Time	Study Start Date	Time to full yield / saving	Study Status Completed	Capital Cost (R million)	Operating Cost	Annual Operating Cost	Yield (million m³/a) / Saving	URV	Socio Economic Impact	Environmental Impact	Health Risk	Creates Additional Storage	Facilitates diversification (climate change)	Mutually Exclusive	WCWSS can utilise yield (Scheme specific) DROUGHT	Enhances WCWSS operation	Improves system risk Profile	Implementation can be phased	Phased Scheme	Mutually Exclusive	Time to utilise yield (bigger Scheme)	Supply or WDM Initiative	Sub Type	Responsible Authority	Unique Number	Planning Time	Implementation Time	SPARE	SPARE	SPARE	URV refinement	Rating or Rank
													100%	0%	0%	0%	0%	0%																			
	WASTEWATER RETURN FLOW- Return flow from Upper and Middle Buffalo and Upper Kubusi to enhance the yields of dams		2005	4.5	0	2005	0	0	0.5	0.1	0	4.5	0.6	L	L	L	N	Y	Y	0	Y	Y	Y	Y	0	0	S	0	BCM	0	0	0	0	0	0	0.6	0.89
	WC/DM- WATER USE REDUCTION: Water metering at "deemed to use households"		2007	5.25	5	2002	5	F	5	0	1.5	5.25	1.2381	H	H	L	N	N	N	N	N	Y	Y	N	0	0	WDM	0	BCM	0	5	0	0	0	0	1.2381	0.77
	WC/DM- WATER USE REDUCTION: Annual Water Audit		2010	0	1	2009	1	0	0	0	1.5	0	0.28571	H	H	L	N	N	N	N	N	Y	Y	N	0	0	WDM	0	BCM	0	0	1	0	0	0	0.28571	0.95
	WC/DM- WATER USE REDUCTION: Comprehensive and effective metering, reading, billing and debt control		2010	0	1	2009	4	0	0	0	2.5	0	0.47619	H	H	L	N	N	N	N	N	Y	Y	N	0	0	WDM	0	BCM	0	0	1	0	0	0	0.47619	0.91
	WC/DM- WATER USE REDUCTION: Enhancement to the current water use education programme		2011	0	1	2010	1	0	0	0	4	0	0.7619	H	H	L	N	N	N	N	N	Y	Y	N	0	0	WDM	0	BCM	0	0	1	0	0	0	0.7619	0.86
	WC/DM- WATER USE REDUCTION: Structured response in respect of defaults in water payment or excessive use		2011	0	1	2010	1	0	0	0	0	0	0	H	H	L	N	N	N	N	N	Y	Y	N	0	0	WDM	0	BCM	0	0	1	0	0	0		1.00
	WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Apply a management information system (MIS)		2012	0	4	2008	3	PF	1	0	0.5	0	0.21429	H	H	L	N	N	N	N	N	Y	Y	N	0	0	WDM	0	BCM	0	0.8	1	0	0	0	0.21429	0.96
	WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Installation of area meters		2013	1	3	2010	4	R	5	0	0	1	5	H	H	L	N	N	N	N	N	Y	Y	N	0	0	WDM	0	BCM	0	5	1	0	0	0	5	0.09
	WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Pressure reduction		2014	3.15	4	2010	7	R	8	0	0	3.15	2.53968	H	H	L	N	N	N	N	N	Y	Y	N	0	0	WDM	0	BCM	0	7	1	0	0	0	2.53968	0.54
	WASTEWATER RE-USE- Mdantsane East & Reeston: IDZ/Industrial		2014	1.8	3.8	2010.2	1	0	5	0.5	0	1.8	5.5	L	L	L	N	Y	Y	0	Y	Y	Y	Y	0	0	S	0	BCM	0	1	2.8	0	0	0	5.5	0.00
	WASTEWATER RE-USE- Mdantsane West/Potsdam: Domestic		2016	1	4	2012	1	0	2	0.8	0	1	2.8	L	L	L	N	N	0	0	0	Y	N	0	0	0	S	GW	DWAF	43	#REF!	#REF!	0	0	0	2.8	0.49
	WASTEWATER RE-USE- Central (From Reeston): Domestic		2017	1	3.8	2013.2	1	0	2	0.8	0	1	2.8	L	L	L	N	Y	Y	0	Y	Y	Y	Y	0	0	S	0	BCM	0	1	2.8	0	0	0	2.8	0.49
	WASTEWATER RE-USE- East Bank: Domestic		2018	6.5	3.8	2014.2	1	0	2	0.8	0	6.5	2.8	L	L	L	N	Y	Y	0	Y	Y	Y	Y	0	0	S	0	BCM	0	1	2.8	0	0	0	2.8	0.49
	WASTEWATER RE-USE- West Bank: IDZ/Industrial		2023	1.8	3.8	2019.2	1	0	4	0.5	0	1.8	4.5	L	L	L	N	Y	Y	0	Y	Y	Y	Y	0	0	S	0	BCM	0	1	2.8	0	0	0	4.5	0.18
	WASTEWATER RE-USE- Quinera (Gonubie): Domestic		2023	0.7	3.8	2019.2	1	0	3	0.8	0	0.7	3.8	L	L	L	N	Y	Y	0	Y	Y	Y	Y	0	0	S	0	BCM	0	1	2.8	0	0	0	3.8	0.31
	AUGMENTATION OF WATER SUPPLIES - Nahoon River: A dam at Stone Island Farm		2024	5.3	4.825	2019.18	5	0	131.933	0	2.48573	5.3	2.76982	L	M	L	N	Y	0	0	0	Y	Y	0	0	0	S	0	0	0	2.925	1.9	0	0	0	2.76982	0.50
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Current Year 2003

Selectable Dates	Visibility Values
2003	1
2004	2
2005	3
2006	4
2007	5
2008	6
2009	7
2010	8
2011	9
2012	10
2013	11
2014	12
2015	13
2016	14
2017	15
2018	16
2019	17
2020	18
2021	19
2022	20
2023	21
2024	22
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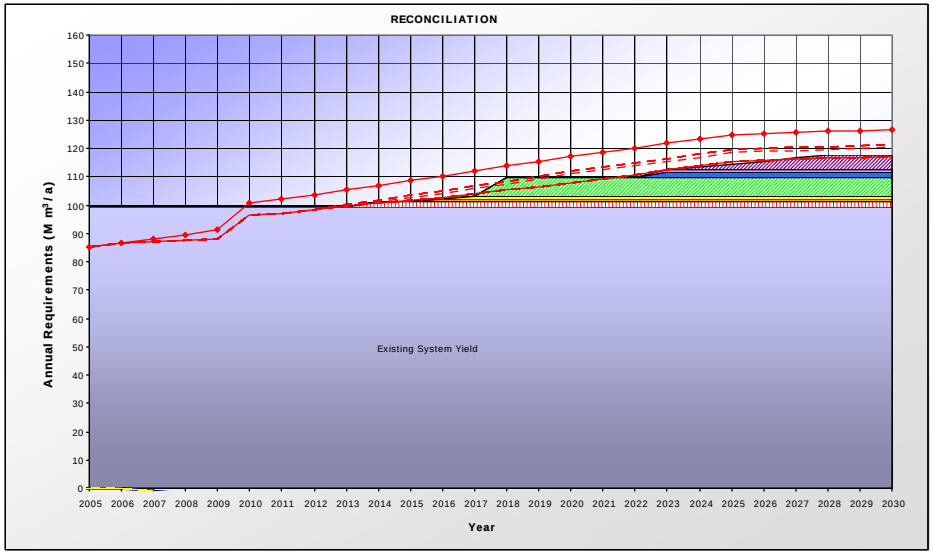
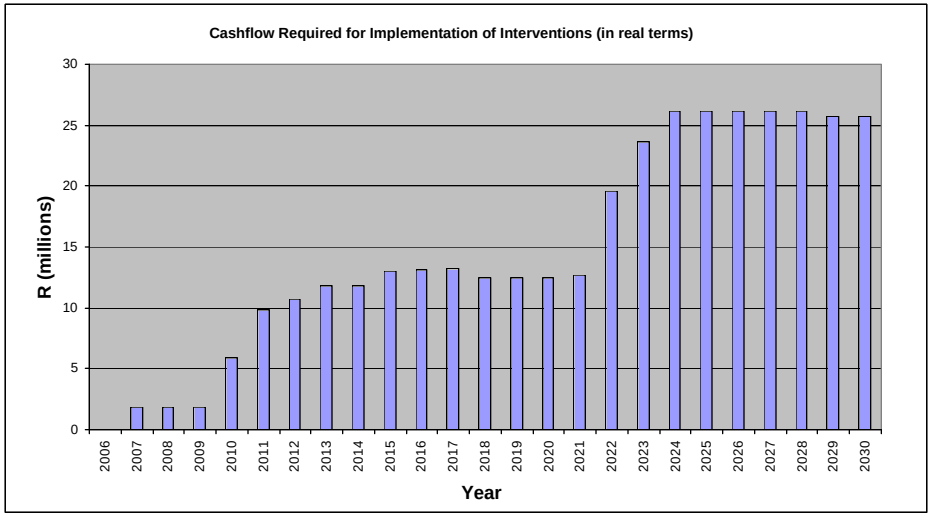
Scenario 1: Full WC/WDM interventions with the surface water asset creation

INTERVENTION SELECTION						
Intervention	Year of First Water or Saving	Yield	Total Lead Time	Study Start Date	Time to full yield / saving	Study Status Completed
WASTEWATER RETURN FLOW- Return flow from Upper and Middle Buffalo and Upper Kubusi to enhance the yields of dams	2005	5	0	2005	0	0
WC/DM- WATER USE REDUCTION: Water metering at "deemed to use households"	2007	5	5	2002	5	F
WC/DM- WATER USE REDUCTION: Annual Water Audit	2010	0	1	2009	1	0
WC/DM- WATER USE REDUCTION: Comprehensive and effective metering, reading, billing and debt control	2010	0	1	2009	4	0
WC/DM- WATER USE REDUCTION: Enhancement to the current water use education programme	2011	0	1	2010	1	0
WC/DM- WATER USE REDUCTION: Structured response in respect of defaults in water payment or excessive use	2011	0	1	2010	1	0
WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Apply a management information system (MIS)	2012	0	4	2008	3	PF
WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Installation of area meters	2013	1	3	2010	4	R
WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Pressure reduction	2014	3	4	2010	7	R
WASTEWATER RE-USE- Mdantsane East & Reeston: IDZ/Industrial	2014	2	4	2010	1	0
WASTEWATER RE-USE- Mdantsane West/Potsdam: Domestic	2016	1	4	2012	1	0
WASTEWATER RE-USE- Central (From Reeston): Domestic	2017	1	4	2013	1	0
WASTEWATER RE-USE- East Bank: Domestic	2018	6.5	3.8	2014.2	1	0
WASTEWATER RE-USE- West Bank	2023	1.8	3.8	2019.2	1	0
WASTEWATER RE-USE- Quinera (Gonubie): Domestic	2023	1	4	2019	1	0
AUGMENTATION OF WATER SUPPLIES - Nahoon River: A dam at Stone Island Farm	2024	5	5	2019	5	0
	2017					
	2018					
	2019					
	2026					
	2021					
	2019					
	2020					

Scenario 1: Full WC/WDM interventions with the surface water asset creation





Net Present Cost of all Interventions Selected =	R 229 Million

Scenario 7: CCT WC/WDM budget strategy and programme implemented. Thereafter selection of interventions based on URV (both demand and supply interventions).

S1 **Study Start Date** W1 **First water Date**

	SUPPLY/ WDM	Authority	Status Complete	Study Date	INTERVENTION NAME	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	S	BCM	0		WASTEWATER RETURN FLOW- Return flow from Upper and Middle Buffalo and Upper Kubusi to enhance the yields of dams	S1				W1																				
1	WDM	BCM	F		WC/DM- WATER USE REDUCTION: Water metering at "deemed to use households"	S1				W1																				
0	WDM	BCM	0		WC/DM- WATER USE REDUCTION: Annual Water Audit																									
0	WDM	BCM	0		WC/DM- WATER USE REDUCTION: Comprehensive and effective metering, reading, billing and debt control																									
0	WDM	BCM	0		WC/DM- WATER USE REDUCTION: Enhancement to the current water use education programme																									
1	WDM	BCM	0		WC/DM- WATER USE REDUCTION: Structured response in respect of defaults in water payment or excessive use		S1				W1																			
0	WDM	BCM	PF		WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Apply a management information system (MIS)																									
0	WDM	BCM	R		WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Installation of area meters																									
0	WDM	BCM	R		WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Pressure reduction																									
1	S	BCM	0		WASTEWATER RE-USE- Mdantsane East & Reeston: IDZ/Industrial		S1				W1																			
0	S	DWAF	0		WASTEWATER RE-USE- Mdantsane West/Potsdam: Domestic																									
0	S	BCM	0		WASTEWATER RE-USE- Central (From Reeston): Domestic																									
0	S	BCM	0		WASTEWATER RE-USE- East Bank: Domestic																									
0	S	BCM	0		WASTEWATER RE-USE- West Bank: IDZ/Industrial																									
0	S	BCM	0		WASTEWATER RE-USE- Quinera (Gonubie): Domestic																									
0	S	0	0		AUGMENTATION OF WATER SUPPLIES - Nahoon River: A dam at Stone Island Farm																									
1											S1					W1														
0																														
0																														
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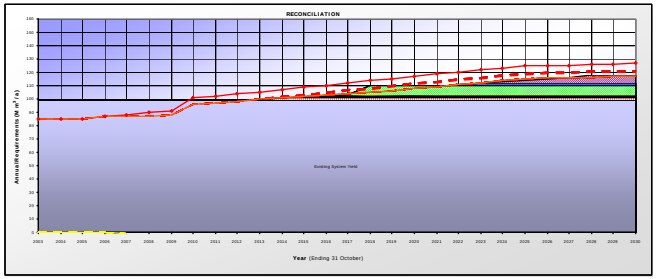
IMPLEMENTATION OF THE RESERVE REQUIREMENT FOR EXISTING SOURCES

Existing Sources	Required Reserve	Implementation Date	No of years to be phased in
Gubu	0.76	2060	2
Wingglewade	11.52	2060	2
Rooikrantz	2.14	2060	2
Laing	6.7	2060	2
Nahoon	5.51	2060	2
Bridle Drift	-0.22	2060	2

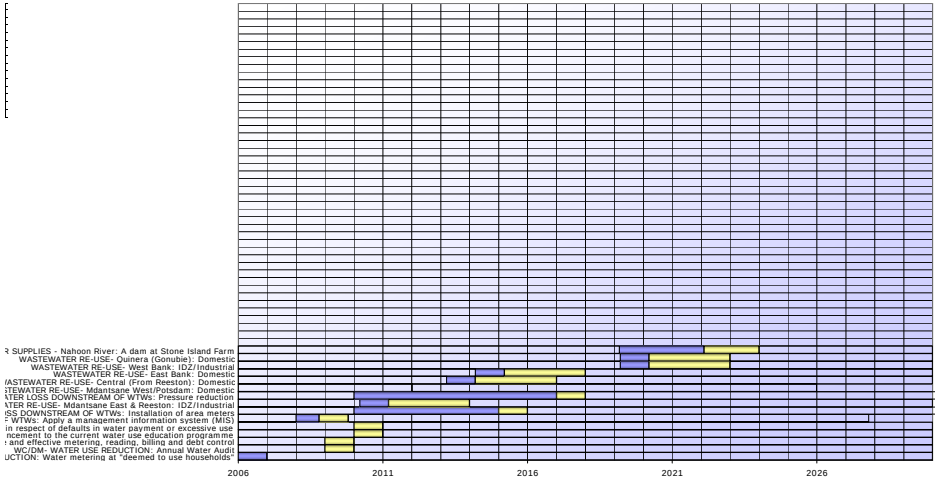
2
10

Source	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Gubu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wingglewade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rooikrantz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nahoon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bridle Drift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

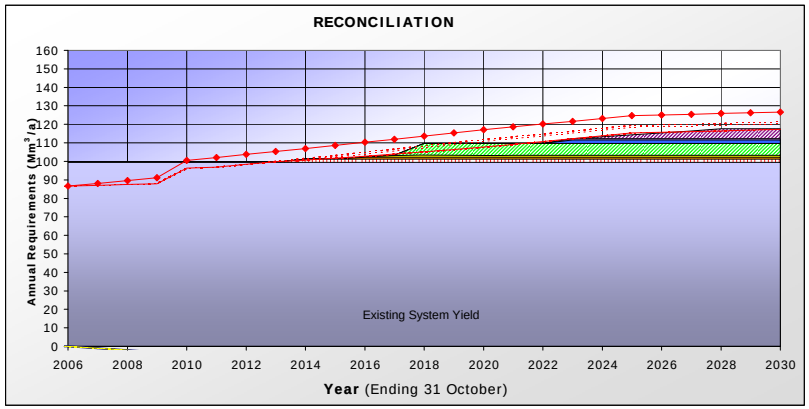


	1	2	3	4	5	6	7	8
1	100	100	100	100	100	100	100	100
2	10	50	66.66667	75	80	83.33333	85.71429	87.5
3	10	10	33.33333	50	60	66.66667	71.42857	75
4	10	10	33.33	25	40	50	57.14286	62.5
5	10	10	0	10	20	33.33333	42.85714	50
6	10	10	10	10	10	16.66667	28.57143	37.5
7	10	10	10	10	10	10	14.28571	25
8	10	10	10	10	10	10	10	12.5

INTERVENTION PROGRAMMES



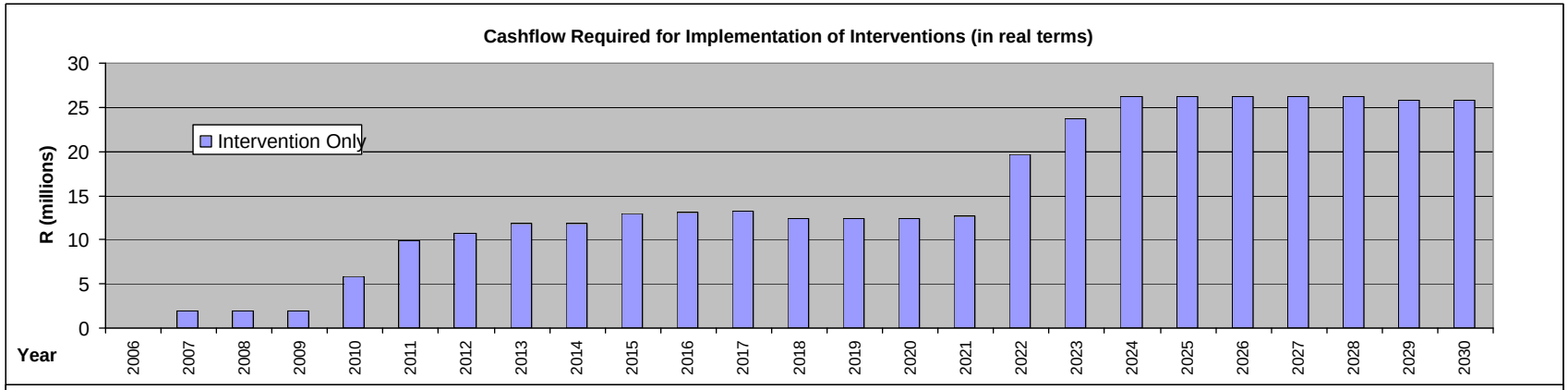
WATER BALANCE

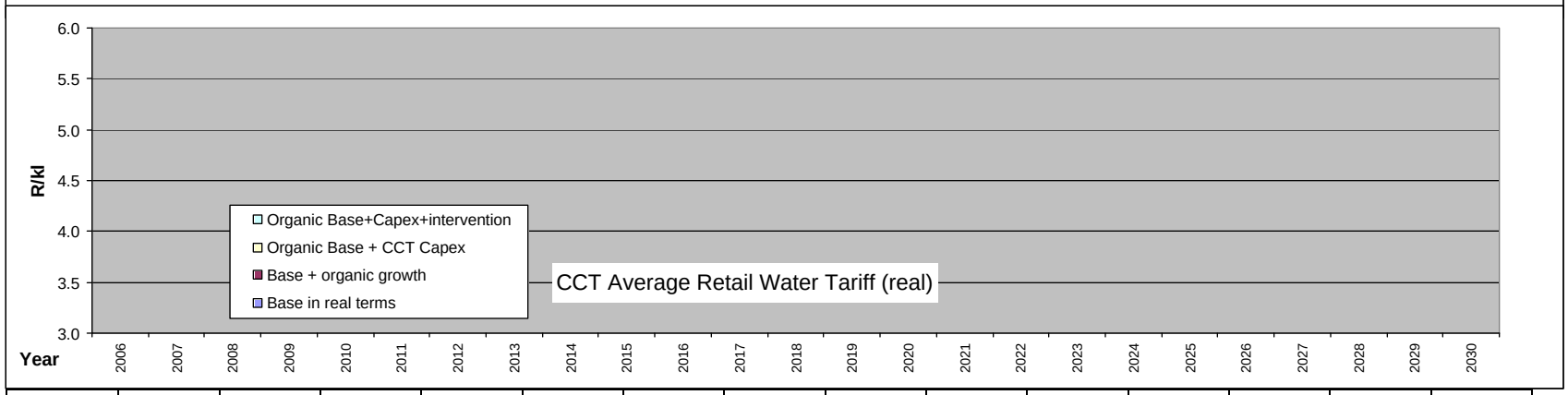


WATER BALANCE CALCULATIONS (Mm³)																									
Water Balance (Mm³)		**99**	**100**	**102**	**103**	**104**	**105**	**105**	**105**	**107**	**108**	**110**	**111**	**118**	**119**	**119**	**119**	**119**	**122**	**123**	**124**	**125**	**126**	**127**	**127**	**127**
System Yield (cumulative)		99.4	99.4	99.44	99.4	99.4	99.44	99.4	99.4	101	101	102	103	110	110	110	110	110	112	113	114	115	116	118	118	117.5
Annual Interventions	**Yield**	0	0	0	0	0	0	0	0	1.8	1.8	2.8	3.8	10.3	10.3	10.3	10.3	10.3	12.8	13.9	14.9	16	17	18.1	18.1	18.1
	Saving	86.6	89.1	91.69	94.3	105	107.4	109	111	113	115	118	120	122	124	127	128	130	131	133	134	134	135	135	136	136.1
Adjusted Requirements		0	-1.1	-2.1	-3.2	-4.2	-5.25	-5.3	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-9	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
Requirements (selected scenario)		86.6	88.1	89.59	91.1	101	102.1	104	105	107	109	110	112	114	115	117	119	120	122	123	125	125	125	126	126	126.7
Year		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030

-100		-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Limit date 2006





YEAR	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
% Real inc.	-8.82%	6.86%	4.81%	3.47%	2.83%	1.87%	2.44%	0.79%	0.58%	0.54%	0.64%	0.60%	1.65%	1.59%

Calculation Tables

INTERVENTION CALCULATION TABLE

	Intervention	First Water	Yield	Total Lead Time	Start Date	Time to yield / saving	MDM/S	Capital Cost	Operating Cost	Annual Operating	Authority	Planning	Implementation	Implementation
1	WASTEWATER RE-USE- Midland	2014	1.8	3.8	2010.2	1.5		5	0.5	0	BCM	1	2.8	
2	WASTEWATER RE-USE- Midland	2016	1	4	2012	1.5		2	0.8	0	GWAP	#REF!	#REF!	
3	WASTEWATER RE-USE- Midland	2018	0.5	3.8	2014.2	1.5		2	0.8	0	BCM	1	2.8	
4	WASTEWATER RE-USE- East B	2018	5.5	3.8	2014.2	1.5		2	0.8	0	BCM	1	2.8	
6	WASTEWATER RE-USE- West I	2023	1.8	3.8	2019.2	1.5		4	0.5	0	BCM	1	2.8	
5	WASTEWATER RE-USE- Quinen	2023	0.7	3.8	2019.2	1.5		3	0.8	0	BCM	1	2.8	
7	AUGMENTATION OF WATER SU	2024	5.3	4.825	2019.175	5.5		131.933		0	2.6957	0	2.925	1.9
8														
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20														
21														
22														
23														
24														

	Intervention	First Water	Yield	Total Lead Time	Start Date	Time to yield / saving	MDM/S	Capital Cost	Operating Cost	Annual Operating	Authority	Planning	Implementation	Implementation
1	WC/DM- WATER USE REDUCTI	2007	5.25	5	2002	5	MDM	5	0	1.5	BCM	5	0	
2	WC/DM- WATER USE REDUCTI	2010	0	1	2009	1	MDM	0	0	1.5	BCM	0	1	
3	WC/DM- WATER USE REDUCTI	2010	0	1	2009	4	MDM	0	0	2.5	BCM	0	1	
4	WC/DM- WATER USE REDUCTI	2011	0	1	2010	1	MDM	0	0	0	BCM	0	1	
5	WC/DM- WATER USE REDUCTI	2011	0	1	2010	1	MDM	0	0	0	BCM	0	1	
6	WC/DM- WATER LOSS DOWNR	2012	0	4	2008	3	MDM	1	0	0.5	BCM	0.8	1	
8	WC/DM- WATER LOSS DOWNR	2013	1	3	2010	4	MDM	5	0	0	BCM	5	1	
9	WC/DM- WATER LOSS DOWNR	2014	3.15	4	2010	7	MDM	8	0	0	BCM	7	1	
10														
11														
12														
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BAR GRAPH CALCULATION TABLE

	Name	Start Date	Planning	Implementation	Graph End Date	Columns
1	WASTEWATE	2010.2	1	2.8	16	
2	WASTEWATE	2012	#REF!	#REF!	18	
3	WASTEWATE	2014.2	1	2.8	20	
4	WASTEWATE	2014.2	1	2.8	19	
6	WASTEWATE	2019.2	1	2.8	7	
5	WASTEWATE	2019.2	1	2.8	7	
7	AUGMENTAT	2019.175	2.925	1.9	6	
8		0	0	0	2030	
9		0	0	1	2030	
10		0	0	0	2030	
11		0	0	0	2030	
12		0	0	0	2030	
13		0	0	0	2030	
14		0	0	0	2030	
15		0	0	0	2030	
16		0	0	0	2030	
17		0	0	0	2030	
18		0	0	0	2030	
19		0	0	0	2030	
20		0	0	0	2030	
21		0	0	0	2030	
22		0	0	0	2030	
23		0	0	0	2030	
24		0	0	0	2030	
25		0	0	0	2030	
26		0	0	0	2030	
27		0	0	0	2030	
28		0	0	0	2030	
29		0	0	0	2030	
30		0	0	0	2030	
31		0	0	0	2030	
32		0	0	0	2030	
33		0	0	0	2030	
34		0	0	0	2030	
1	WC/DM- WA	2002	5	0	23	
2	WC/DM- WA	2009	0	1	20	
3	WC/DM- WA	2009	0	1	20	
4	WC/DM- WA	2010	0	1	19	
5	WC/DM- WA	2010	0	1	19	
6	WC/DM- WA	2008	0.8	1	18	
8	WC/DM- WA	2010	5	1	17	
9	WC/DM- WA	2010	7	1	16	
10	WASTEWATE	2012	#REF!	#REF!	14	
11	WASTEWATE	2010.2	1	2.8	13	
12	WASTEWATE	2014.2	1	2.8	12	
13	WASTEWATE	2018.2	1	2.8	7	
14	WASTEWATE	2018.2	1	2.8	7	
15	AUGMENTAT	2019.175	2.925	1.9	6	
16		0	0	0	2030	
17		0	0	0	2030	
18		0	0	0	2030	
19		0	0	0	2030	
20		0	0	0	2030	
21		0	0	0	2030	
22		0	0	0	2030	
23		0	0	0	2030	
24		0	0	0	2030	
25		0	0	0	2030	
26		0	0	0	2030	
27		0	0	0	2030	
28		0	0	0	2030	
29		0	0	0	2030	
30		0	0	0	2030	
31		0	0	0	2030	
32		0	0	0	2030	
33		0	0	0	2030	
34		0	0	0	2030	
1	WC/DM- WA	2002	5	0	23	
2	WC/DM- WA	2009	0	1	20	
3	WC/DM- WA	2009	0	1	20	
4	WC/DM- WA	2010	0	1	19	
5	WC/DM- WA	2010	0	1	19	
6	WC/DM- WA	2008	0.8	1	18	
8	WC/DM- WA	2010	5	1	17	
9	WC/DM- WA	2010	7	1	16	
10	WASTEWATE	2012	#REF!	#REF!	14	
11	WASTEWATE	2010.2	1	2.8	13	
12	WASTEWATE	2014.2	1	2.8	12	
13	WASTEWATE	2018.2	1	2.8	7	
14	WASTEWATE	2018.2	1	2.8	7	
15	AUGMENTAT	2019.175	2.925	1.9	6	
16		0	0	0	2030	
17		0	0	0	2030	
18		0	0	0	2030	
19		0	0	0	2030	
20		0	0	0	2030	
21		0	0	0	2030	
22		0	0	0	2030	
23		0	0	0	2030	
24		0	0	0	2030	
25		0	0	0	2030	
26		0	0	0	2030	
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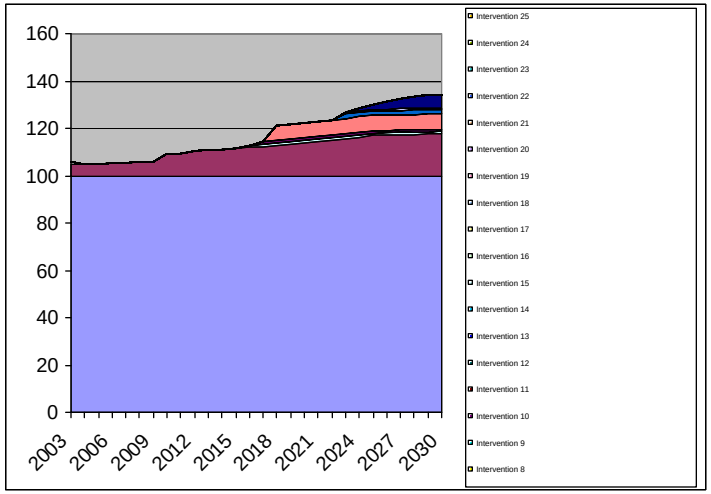
28		0	0	0	2030	
29		0	0	0	2030	
30		0	0	0	2030	
31		0	0	0	2030	
32		0	0	0	2030	
33		0	0	0	2030	
34		0	0	0	2030	

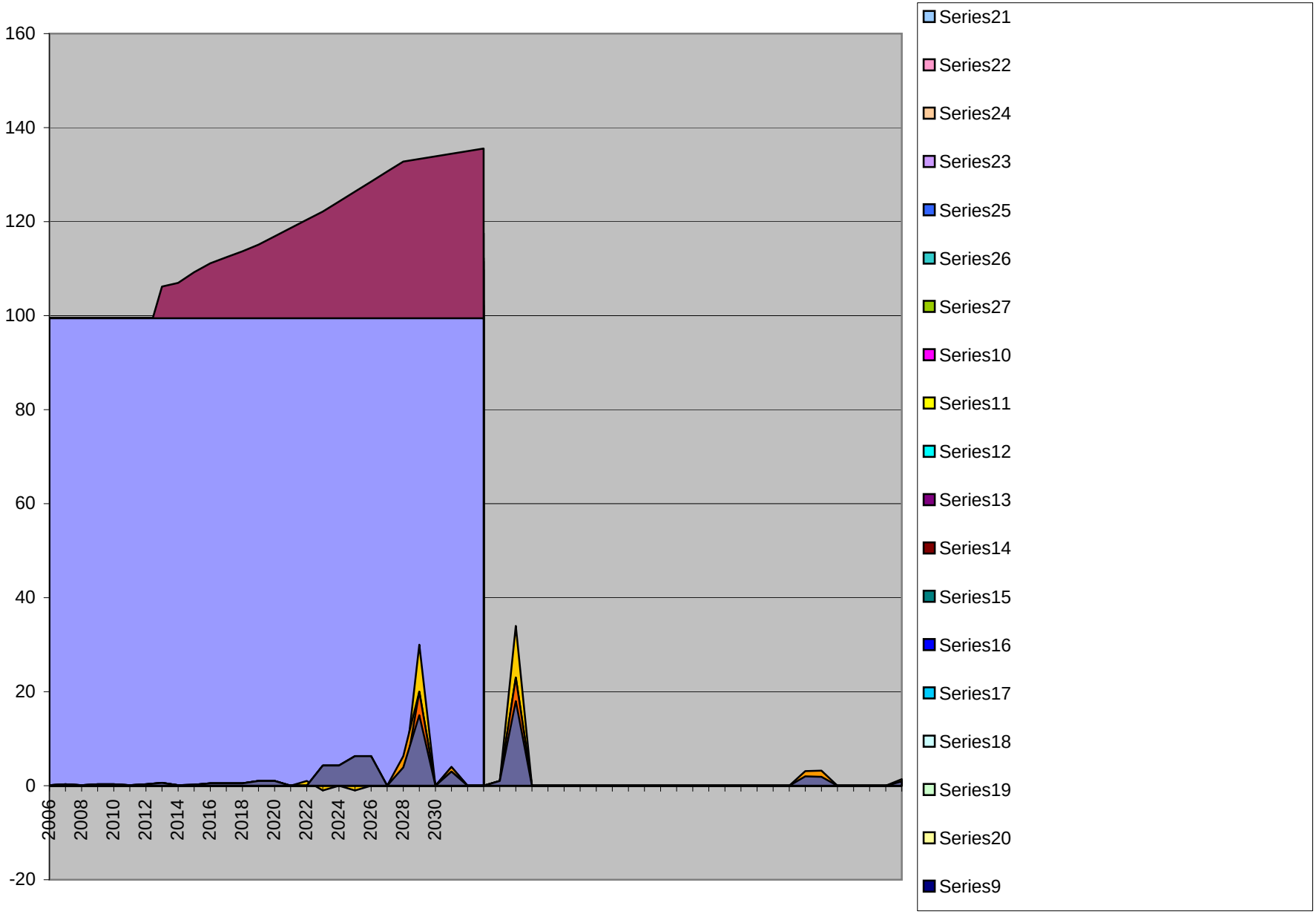
2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057
0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FIRST ENTRY TABLE

WASTEWATER RE-USE- Midland	2014	1.8	3.8	2010.2	1.5		5	0.5	0	BCM	1	2.8		
WASTEWATER RE-USE- Midland	2016	1	4	2012	1.5		2	0.8	0	GWAP	#REF!	#REF!		
WASTEWATER RE-USE- Midland	2018	0.5	3.8	2014.2	1.5		2	0.8	0	BCM	1	2.8		
WASTEWATER RE-USE- East B	2018	5.5	3.8	2014.2	1.5		2	0.8	0	BCM	1	2.8		
WASTEWATER RE-USE- West I	2023	1.8	3.8	2019.2	1.5		4	0.5	0	BCM	1	2.8		
WASTEWATER RE-USE- Quinen	2023	0.7	3.8	2019.2	1.5		3	0.8	0	BCM	1	2.8		
AUGMENTATION OF WATER SU	2024	5.3	4.825	2019.175	5.5		131.933		0	2.6957	0	2.925	1.9	
WC/DM- WATER USE REDUCTI	2007	5.25	5	2002	5	MDM	5	0	1.5	BCM	5	0		
WC/DM- WATER USE REDUCTI	2010	0	1	2009	1	MDM	0	0	1.5	BCM	0	1		
WC/DM- WATER USE REDUCTI	2010	0	1	2009	4	MDM	0	0	2.5	BCM	0	1		
WC/DM- WATER USE REDUCTI	2011	0	1	2010	1	MDM	0	0	0	BCM	0	1		
WC/DM- WATER USE REDUCTI	2011	0	1	2010	1	MDM	0	0	0	BCM	0	1		
WC/DM- WATER LOSS DOWNR	2012	0	4	2008	3	MDM	1	0	0.5	BCM	0.8	1		
WC/DM- WATER LOSS DOWNR	2013	1	3	2010	4	MDM	5	0	0	BCM	5	1		
WC/DM- WATER LOSS DOWNR	2014	3.15	4	2010	7	MDM	8	0	0	BCM	7	1		

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Existing System Yield	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44
40% Return Flows	5.40	5.40	5.40	6.00	6.18	6.36	6.54	9.88	10.11	10.75	11.30	11.66	12.03	12.43	12.93	13.44	13.94	14.44	15.05	15.66	16.26	16.87	17.48	17.64	17.79	17.95	18.11	18.27
WASTEWATER RE-USE- Mdantsane East & Reesto	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
WASTEWATER RE-USE- Mdantsane West/Potsdam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
WASTEWATER RE-USE- Central (From Reeston): D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
WASTEWATER RE-USE- East Bank: Domestic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
WASTEWATER RE-USE- West Bank: IDZ/Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
WASTEWATER RE-USE- Quinera (Gonubie): Domes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.06	2.12	3.18	4.24	5.3	5.3	5.3
AUGMENTATION OF WATER SUPPLIES - Nahoon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intervention 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Series25
Series26
Series27
Series10
Series11
Series12
Series13
Series14
Series15
Series16
Series17
Series18
Series19
Series20
Series9

WATER REQUIRMENT DATA - FOR WATER BALANCE CHA

	X-AXIS	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1																													
2	High Scenario	85.103	85.103	85.103	86.598	88.093	89.588	91.106	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####
3																													
4																													
5																													
6																													
7																													
																								17.5	129				

2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052

INTERVENTION DATA - FOR WATER BALANCE CHAR

	Intervention	First Wa	Yield	Delay	Start Da	Time to	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
	Existing System Yield					4.5	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44
1	WASTEWATER RE-USE- Mdantsane East & Reeston: IDZ/Industrial	2014	1.8	3.8	2010	1	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.2	101.2	101.2
2	WASTEWATER RE-USE- Mdantsane West/Potsdam: Domestic	2016	1	4	2012	1	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.2	101.2	102.2
3	WASTEWATER RE-USE- Central (From Reeston): Domestic	2017	1	3.8	2013	1	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.2	101.2	102.2
4	WASTEWATER RE-USE- East Bank: Domestic	2018	6.5	3.8	2014	1	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.2	101.2	102.2
5	WASTEWATER RE-USE- West Bank: IDZ/Industrial	2023	1.8	3.8	2019	1	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.2	101.2	102.2
6	WASTEWATER RE-USE- Quinera (Gonubie): Domestic	2023	0.7	3.8	2019	1	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.2	101.2	102.2
7	AUGMENTATION OF WATER SUPPLIES - Nahoon River: A dam at Stone	2024	5.3	4.825	2019	5	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.2	101.2	102.2
8	Intervention 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Intervention 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Intervention 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Intervention 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Intervention 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Intervention 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Intervention 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Intervention 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Intervention 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Intervention 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Intervention 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Intervention 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Intervention 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Intervention 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Intervention 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Intervention 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Intervention 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Intervention 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Intervention	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	Existing System Yield	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44
1	WASTEWATER RE-USE- Mdantsane East & Reeston: IDZ/Industrial	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2
2	WASTEWATER RE-USE- Mdantsane West/Potsdam: Domestic	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2
3	WASTEWATER RE-USE- Central (From Reeston): Domestic	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2
4	WASTEWATER RE-USE- East Bank: Domestic	103.2	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7
5	WASTEWATER RE-USE- West Bank: IDZ/Industrial	103.2	109.7	109.7	109.7	109.7	109.7	111.5	111.5	111.5	111.5	111.5	111.5	111.5	111.5
6	WASTEWATER RE-USE- Quinera (Gonubie): Domestic	103.2	109.7	109.7	109.7	109.7	109.7	112.2	112.2	112.2	112.2	112.2	112.2	112.2	112.2
7	AUGMENTATION OF WATER SUPPLIES - Nahoon River: A dam at Stone	103.2	109.7	109.7	109.7	109.7	109.7	112.2	113.3	114.4	115.4	116.5	117.5	117.5	117.5
8–25	Intervention 8 – Intervention 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Intervention	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052
	Existing System Yield	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	WASTEWATER RE-USE- Mdantsane East & Reeston: IDZ/Industrial	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
2	WASTEWATER RE-USE- Mdantsane West/Potsdam: Domestic	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
3	WASTEWATER RE-USE- Central (From Reeston): Domestic	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
4	WASTEWATER RE-USE- East Bank: Domestic	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
5	WASTEWATER RE-USE- West Bank: IDZ/Industrial	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
6	WASTEWATER RE-USE- Quinera (Gonubie): Domestic	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
7	AUGMENTATION OF WATER SUPPLIES - Nahoon River: A dam at Stone	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
8–25	Intervention 8 – Intervention 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WATER DEMAND MANAGEMENT DAT

Time to	Name	Yield	First Water	2003 … 2052 (>0)

Water Requirement 1

5	5 WC/DM- WATER	5.25	2007	0 0 0 0 -1.05 -2.1 -3.15 -4.2 -5.25 -5.25 …
1	0 WC/DM- WATER	0	2010	0 0 0 0 -1.05 -2.1 -3.15 -4.2 -5.25 -5.25 …
	[illegible]			[illegible]

Water Requirement 2

High Scenario

[illegible]

Water Requirement 3

[illegible]

Water Requirement 4

[illegible]

Water Requirement S

Intermediate Scenario

Peter

INTERVENTION DATA NOTES

SELECTION DATA NOTES
Transfer WDM program, to be implemented in 2007 or as required by strategy Focus on non revenue demand (approx 40% of UAW) Ongoing budget required for sustaining intervention

WATER REQUIREMENT DATA NOTES

0	INTERVENTION DATA -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	Intervention	First Wat	Yield	Delay	Start Dat	Time to Y	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052
0	Blank Row	0																																																					
0	Existing System Yield	0	0	0	0	4.5	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	WASTEWATER RE-USE	2014	1.8	3.8	2010.2	1	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.24	101.24	101.24	101.24	101.24	101.24	101.24	101.24	101.24	101.24	101.24	101.24	101.24	101.24	101.24	101.24	101.24	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
2	WASTEWATER RE-USE	2016	1	4	2012	1	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.24	101.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
3	WASTEWATER RE-USE	2017	1	3.8	2013.2	1	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.24	101.24	102.24	103.24	103.24	103.24	103.24	103.24	103.24	103.24	103.24	103.24	103.24	103.24	103.24	103.24	103.24	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
4	WASTEWATER RE-USE	2018	6.5	3.8	2014.2	1	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.24	101.24	102.24	103.24	109.74	109.74	109.74	109.74	109.74	109.74	109.74	109.74	109.74	109.74	109.74	109.74	109.74	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
5	WASTEWATER RE-USE	2023	1.8	3.8	2019.2	1	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.24	101.24	102.24	103.24	109.74	109.74	109.74	109.74	109.74	111.54	111.54	111.54	111.54	111.54	111.54	111.54	111.54	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
6	WASTEWATER RE-USE	2023	0.7	3.8	2019.2	1	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.24	101.24	102.24	103.24	109.74	109.74	109.74	109.74	109.74	112.24	112.24	112.24	112.24	112.24	112.24	112.24	112.24	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
7	AUGMENTATION OF WA	2024	5.3	4.825	2019.18	5	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	99.44	101.24	101.24	102.24	103.24	109.74	109.74	109.74	109.74	109.74	112.24	113.3	114.36	115.42	116.48	117.54	117.54	117.54	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
8	Intervention 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Intervention 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Intervention 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Intervention 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Intervention 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Intervention 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Intervention 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Intervention 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Intervention 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Intervention 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Intervention 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Intervention 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Intervention 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Intervention 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Intervention 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Intervention 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Intervention 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Intervention 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1	WASTEWATER RE-USE- Mdantsane East & Reeston: IDZ/Industrial	0	0	0	0	0	0	0	0	0	0	0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
2	WASTEWATER RE-USE- Mdantsane West/Potsdam: Domestic	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	WASTEWATER RE-USE- Central (From Reeston): Domestic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	WASTEWATER RE-USE- East Bank: Domestic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
5	WASTEWATER RE-USE- West Bank: IDZ/Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
6	WASTEWATER RE-USE- Quinera (Gonubie): Domestic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
7	AUGMENTATION OF WATER SUPPLIES - Nahoon River: A dam at Stone I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.06	2.12	3.18	4.24	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
8	Intervention 8	-99.44	-99.44	-99.44	-99.44	-99.44	-99.44	-99.44	-99.44	-99.44	-99.44	-99.44	-101.24	-101.24	-102.24	-103.24	-109.74	-109.74	-109.74	-109.74	-109.74	-112.24	-113.3	-114.36	-115.42	-116.48	-117.54	-117.54	-117.54	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1
9	Intervention 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Intervention 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Intervention 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Intervention 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Intervention 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Intervention 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Intervention 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Intervention 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Intervention 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Intervention 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Intervention 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Intervention 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Intervention 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Intervention 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Intervention 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Intervention 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Intervention 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

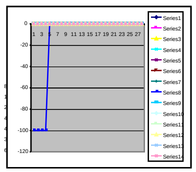
Intermediate Scenario		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	5	5	WC/DM-	5.25	2007	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25
2	0	1	0	WC/DM-	0	2010	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25
3	0	4	0	WC/DM-	0	2010	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25
4	0	1	0	WC/DM-	0	2011	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25
5	0	1	0	WC/DM-	0	2011	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25
6	0	3	0.8	WC/DM-	0	2012	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25
7	0	4	5	WC/DM-	1	2013	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-5.75	-6	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25	-6.25
8	0	7	7	WC/DM-	3.15	2014	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
9	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
10	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
11	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
12	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
13	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
14	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
15	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
16	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
17	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
18	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
19	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
20	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
21	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
22	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
23	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
24	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
25	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
26	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
27	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
28	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
29	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
30	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
31	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
32	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
33	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
34	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
35	0	0	0	WR3 Ro	0	0	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4

0	Existing System Yield	-99.44	-99.44	-99.44	-99.44	-100.49	-101.54	-102.59	-103.64	-104.69	-104.69	-104.94	-105.64	-106.34	-107.04	-107.49	-107.94	-108.39	-108.84	-108.84	-108.84	-108.84	-108.84	-108.84	-108.84	-108.84	-108.84	-108.84	-108.84	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
1	WASTEWATER RE-USE- Mdantsane East & Reeston: IDZ/Industrial	-99.44	-99.44	-99.44	-99.44	-100.49	-101.54	-102.59	-103.64	-104.69	-104.69	-104.94	-107.44	-108.14	-108.84	-109.29	-109.74	-110.19	-110.64	-110.64	-110.64	-110.64	-110.64	-110.64	-110.64	-110.64	-110.64	-110.64	-110.64	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2	-11.2
2	WASTEWATER RE-USE- Mdantsane West/Potsdam: Domestic	-99.44	-99.44	-99.44	-99.44	-100.49	-101.54	-102.59	-103.64	-104.69	-104.69	-104.94	-107.44	-108.14	-109.84	-110.29	-110.74	-111.19	-111.64	-111.64	-111.64	-111.64	-111.64	-111.64	-111.64	-111.64	-111.64	-111.64	-111.64	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2
3	WASTEWATER RE-USE- Central (From Reeston): Domestic	-99.44	-99.44	-99.44	-99.44	-100.49	-101.54	-102.59	-103.64	-104.69	-104.69	-104.94	-107.44	-108.14	-109.84	-111.29	-111.74	-112.19	-112.64	-112.64	-112.64	-112.64	-112.64	-112.64	-112.64	-112.64	-112.64	-112.64	-112.64	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2
4	WASTEWATER RE-USE- East Bank: Domestic	-99.44	-99.44	-99.44	-99.44	-100.49	-101.54	-102.59	-103.64	-104.69	-104.69	-104.94	-107.44	-108.14	-109.84	-111.29	-118.24	-118.69	-119.14	-119.14	-119.14	-119.14	-119.14	-119.14	-119.14	-119.14	-119.14	-119.14	-119.14	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7
5	WASTEWATER RE-USE- West Bank: IDZ/Industrial	-99.44	-99.44	-99.44	-99.44	-100.49	-101.54	-102.59	-103.64	-104.69	-104.69	-104.94	-107.44	-108.14	-109.84	-111.29	-118.24	-118.69	-119.14	-119.14	-119.14	-120.94	-120.94	-120.94	-120.94	-120.94	-120.94	-120.94	-120.94	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5
6	WASTEWATER RE-USE- Quinera (Gonubie): Domestic	-99.44	-99.44	-99.44	-99.44	-100.49	-101.54	-102.59	-103.64	-104.69	-104.69	-104.94	-107.44	-108.14	-109.84	-111.29	-118.24	-118.69	-119.14	-119.14	-119.14	-121.64	-121.64	-121.64	-121.64	-121.64	-121.64	-121.64	-121.64	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2	-22.2
7	AUGMENTATION OF WATER SUPPLIES - Nahoon River: A dam at Stone I	-99.44	-99.44	-99.44	-99.44	-100.49	-101.54	-102.59	-103.64	-104.69	-104.69	-104.94	-107.44	-108.14	-109.84	-111.29	-118.24	-118.69	-119.14	-119.14	-119.14	-121.64	-122.7	-123.76	-124.82	-125.88	-126.94	-126.94	-126.94	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5
8	Intervention 8	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
9	Intervention 9	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
10	Intervention 10	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
11	Intervention 11	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
12	Intervention 12	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
13	Intervention 13	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
14	Intervention 14	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
15	Intervention 15	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
16	Intervention 16	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
17	Intervention 17	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
18	Intervention 18	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
19	Intervention 19	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
20	Intervention 20	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
21	Intervention 21	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
22	Intervention 22	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
23	Intervention 23	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
24	Intervention 24	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
25	Intervention 25	0	0	0	0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4

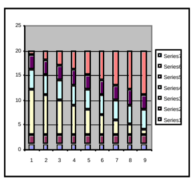
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
1 WASTEWATER RE-USE- Mdantsane East & Reeston: IDZ/Industrial							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 WASTEWATER RE-USE- Mdantsane West/Potsdam: Domestic							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 WASTEWATER RE-USE- Central (From Reeston): Domestic							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 WASTEWATER RE-USE- East Bank: Domestic							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 WASTEWATER RE-USE- West Bank: IDZ/Industrial							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 WASTEWATER RE-USE- Quinera (Gonubie): Domestic							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 AUGMENTATION OF WATER SUPPLIES - Nahoon River: A dam at Stone I							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Intervention 8							-99.44	-99.44	-99.44	-99.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Intervention 9							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Intervention 10							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Intervention 11							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 Intervention 12							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Intervention 13							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Intervention 14							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Intervention 15							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Intervention 16							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Intervention 17							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Intervention 18							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Intervention 19							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Intervention 20							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

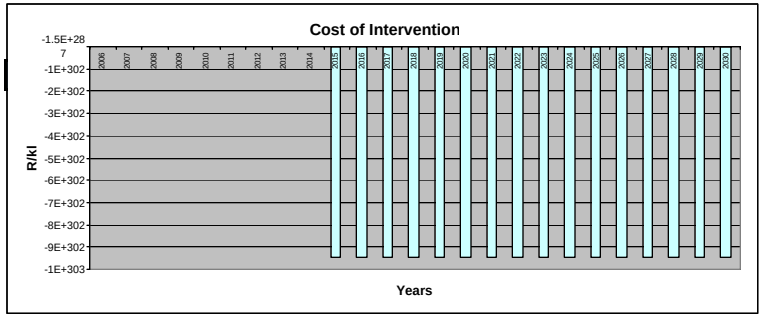
21	Intervention 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Intervention 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Intervention 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Intervention 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Intervention 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1	WC/DM- WATER USE REDUCTION: Water metering at "deemed to use hou	0	0	0	0	1.05	2.1	3.15	4.2	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25
2	WC/DM- WATER USE REDUCTION: Annual Water Audit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	WC/DM- WATER USE REDUCTION: Comprehensive and effective metering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	WC/DM- WATER USE REDUCTION: Enhancement to the current water use	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	WC/DM- WATER USE REDUCTION: Structured response in respect of defa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Apply a management i	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Installation of area met	0	0	0	0	0	0	0	0	0	0	0.25	0.5	0.75	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	WC/DM- WATER LOSS DOWNSTREAM OF WTWs: Pressure reduction	0	0	0	0	0	0	0	0	0	0	0	0.45	0.9	1.35	1.8	2.25	2.7	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
9	WR3 Row9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	WR3 Row10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	WR3 Row11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	WR3 Row12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	WR3 Row13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	WR3 Row14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	WR3 Row15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	WR3 Row16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	WR3 Row17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	WR3 Row18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	WR3 Row19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	WR3 Row20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	WR3 Row21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	WR3 Row22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	WR3 Row23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	WR3 Row24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	WR3 Row25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	WR3 Row26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	WR3 Row27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	WR3 Row28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	WR3 Row29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	WR3 Row30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	WR3 Row31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	WR3 Row32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	WR3 Row33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	WR3 Row34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	WR3 Row35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



G	L	8	8	8	8	8	8
F	M	1	1	1	1	1	1
E	L	2	2	2	2	2	2
D	M	9	8	7	6	5	4
C	H	4	4	4	4	4	4
B	H	3	3	3	3	3	3
A	L	1	2	3	4	5	6





		Intervention	YEAR	NPV		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
4	S	WASTEWATER RE-USE-Central (From Reeston): Domestic	2017	1.641196	1	0	0	0	0	0	0	0	0	0	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	0	0
				229.2809																																			

2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052
0	0	0	0	0	0	0	0	0	0	0	0	0

Interest Rate	6%	Discount Rate =	5.7%	4.1425	
Period	22		6%		4.68002
Inflation	0%				

								11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
				Time to implement	Year	NPV	Year			9																																												
		Intervention						2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052
1	1	WASTEWATER RE-USE- Mdantsane Ea	Capital Cost (Year 1)			3.47		0	0	0	0	0	0	2.5	0	0	2.755	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Loan Year				0	0	0	0	0	0	0	1	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	1		Interest and Redemption (1)				0	0	0	0	0	0	0	0.20223	0.20223	0	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0.22286	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Capital Cost (Year 2)			1.70		0	0	0	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Loan Year				0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	1		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0.20223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		TOTAL I&R (1+2)					0	0	0	0	0	0	0.20223	0.40446	0.20223	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.22286	0.22286	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Once off Operating cost			0.34		0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		FACTOR (for CAPEX)				0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1		TOTAL NPV			5.50		0	0	0	0	0	0	0.20223	0.90446	0.20223	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.22286	0.22286	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	10.25641563	NPV of Exp within loan period					0	0	0	0	0	0	0.20223	0.90446	0.20223	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.42509	0.22286	0.22286	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	###########################	Tariff (Cost of Water in R/kl)		2014	5.50		0	0	0	0	0	0	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	-9E+306	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	2	WASTEWATER RE-USE- Mdantsane We	Capital Cost (Year 1)			0.64		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		Loan Year				0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	2		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		Capital Cost (Year 2)			0.61		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		Loan Year				0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	2		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0.08089	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		Once off Operating cost			0.49		0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2		TOTAL NPV			1.73		0	0	0	0	0	0	0	0	0.08089	0.96178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	4.359259495	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0.08089	0.96178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	###########################	Tariff (Cost of Water in R/kl)		2016	1.73		0	0	0	0	0	0	0	0	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	-4E+303	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3	WASTEWATER RE-USE- Central (From	Capital Cost (Year 1)			0.61		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3		Loan Year				0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	3		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3		Capital Cost (Year 2)			0.57		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3		Loan Year				0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	3		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0.08089	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3		Once off Operating cost			0.46		0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3		TOTAL NPV			1.64		0	0	0	0	0	0	0	0	0	0.08089	0.96178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	4.359259495	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0.08089	0.96178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	###########################	Tariff (Cost of Water in R/kl)		2017	1.64		0	0	0	0	0	0	0	0	0	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	-9E+302	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	4	WASTEWATER RE-USE- East Bank: Do	Capital Cost (Year 1)			0.57		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4		Loan Year				0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	4		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4		Capital Cost (Year 2)			0.54		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	4		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0.08089	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4		Once off Operating cost			0.43		0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4		TOTAL NPV			1.55		0	0	0	0	0	0	0	0	0	0	0.08089	0.96178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	4.359259495	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0.08089	0.96178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	###########################	Tariff (Cost of Water in R/kl)		2018	1.55		0	0	0	0	0	0	0	0	0	0	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	-1E+116	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	5	WASTEWATER RE-USE- West Bank: ID	Capital Cost (Year 1)			0.87		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100
	5		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0	0	0	0	0	0	0	0	0	0
	5		Capital Cost (Year 2)			0.82		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100
	5		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0	0	0	0	0	0	0	0	0
	5		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16178	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.16178	0	0	0	0	0	0	0	0	0
	5		Once off Operating cost			0.21		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5		TOTAL NPV			1.90		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16178	0.82357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.16178	0	0	0	0	0	0	0	0	0
	5	7.618518991	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16178	0.82357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.16178	0	0	0	0	0	0	0	0	0
	5		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	###########################	Tariff (Cost of Water in R/kl)		2023	1.90		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	-1.4E+93	0	0	0	0	0	0	0	0	0
	5	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	6	WASTEWATER RE-USE- Quinera (Gonu	Capital Cost (Year 1)			0.65		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100
	6		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0	0	0	0	0	0	0	0	0	0
	6		Capital Cost (Year 2)			0.62		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100
	6		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0.12134	0	0	0	0	0	0	0	0	0
	6		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12134	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.12134	0	0	0	0	0	0	0	0	0
	6		Once off Operating cost			0.33		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6		TOTAL NPV			1.60		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12134	1.04268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.12134	0	0	0	0	0	0	0	0	0
	6	6.138889243	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12134	1.04268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.12134	0	0	0	0	0	0	0	0	0
	6		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	###########################	Tariff (Cost of Water in R/kl)		2023	1.60		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	3.7E+76	0	0	0	0	0	0	0	0	0
	6	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	7	AUGMENTATION OF WATER SUPPLIE	Capital Cost (Year 1)			27.17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.9666	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100
	7		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	0	0	0	0	0	0	0	0	0
	7		Capital Cost (Year 2)			25.71		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.9666	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100
	7		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	5.33619	0	0	0	0	0	0	0	0
	7		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.33619	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	10.6724	5.33619	0	0	0	0	0	0	0	0
	7		Once off Operating cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7		Annual Operating Cost			13.59		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573
	7		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	7		TOTAL NPV			66.47		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.33619	10.6724	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	7.82192	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573
	7	286.9925766	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.33619	10.6724	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	7.82192	0	0	0	0	0	0	0	0
	7		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	###########################	Tariff (Cost of Water in R/kl)		2024	66.47		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	1.2E+67	0	0	0	0	0	0	0	0
	7	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	8	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8		Once off Operating cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8		Volume					-99.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	###########################	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	9	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	9		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	-103169267430087000.00	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	10	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	-48022792769136500.00	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	11	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	-895714.31	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	12	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	-398095.25	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	13	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	-132698.42	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	14	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14	-2627100.37	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	15	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15	0.99	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	0.99	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	2.21	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	18		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18	0.99	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19	0.99	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	1.83	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21	0.99	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22	0.99	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23	0.99	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24	0.99	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25		Once off Operating cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	0.99	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		Intervention				Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052
1	1	WC/DM- WATER USE REDUCTION: Wa	Capital Cost (Year 1)		4.73		0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Loan Year			0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	1		Interest and Redemption (1)			0	0	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		TOTAL I&R (1+2)				0	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Once off Operating cost	5	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Annual Operating Cost		24.26		0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	1		FACTOR (for CAPEX)			0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1		TOTAL NPV		28.99		0	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	1	41.89814874	NPV of Exp within loan period				0	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	1.90446	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		Volume				0	1.05	2.1	3.15	4.2	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25
	1	0.40	Tariff (Cost of Water in R/kl)	2007	28.99		0	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.39903	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571	0.28571
	1	41.89814874	NPV of Inc. within loan period				0	0.41898	0.83796	1.25694	1.67593	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	2.09491	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	2	WC/DM- WATER USE REDUCTION: Anr	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	2		Once off Operating cost	1	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	2		Annual Operating Cost		20.23		0	0	0	0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5			
	2		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	2		TOTAL NPV		20.23		0	0	0	0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	64.5		
	2	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	2		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	2	0.40	Tariff (Cost of Water in R/kl)	2010	20.23		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.9178	R/kl	
	2	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
3	3	WC/DM- WATER USE REDUCTION: Cor	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3		Once off Operating cost	1	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3		Annual Operating Cost		33.72		0	0	0	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5			
	3		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3		TOTAL NPV		33.72		0	0	0	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	107.5		
	3	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	3		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3	58715693017.66	Tariff (Cost of Water in R/kl)	2010	33.72		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	3	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
4	4	WC/DM- WATER USE REDUCTION: Enf	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4		Once off Operating cost	1	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4		Annual Operating Cost		50.74		0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
	4		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4		TOTAL NPV		50.74		0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	168		
	4	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	4		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4	-133891.85	Tariff (Cost of Water in R/kl)	2011	50.74		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	4	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
5	5	WC/DM- WATER USE REDUCTION: Stru	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5		Once off Operating cost	1	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	5		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5	52018434284.25	Tariff (Cost of Water in R/kl)	2011	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	5	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
6	6	WC/DM- WATER LOSS DOWNSTREAM	Capital Cost (Year 1)		0.72		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	6		Loan Year			0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
	6		Interest and Redemption (1)			0	0	0	0	0	0	0	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	6		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	6		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	6		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	6		TOTAL I&R (1+2)				0	0	0	0	0	0	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	6		Once off Operating cost	3	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	6		Annual Operating Cost		5.96		0	0	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
	6		FACTOR (for CAPEX)			0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	6		TOTAL NPV		6.68		0	0	0	0	0	0	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	22.2796		
	6	12.77962975	NPV of Exp within loan period				0	0	0	0	0	0	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0.58089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.7796	NPV expenditure	
	6		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	6	#########################	Tariff (Cost of Water in R/kl)	2012	6.68		0	0	0	0	0	0	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	-9E+115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	6	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
7	7	WC/DM- WATER LOSS DOWNSTREAM	Capital Cost (Year 1)		3.39		0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	7		Loan Year			0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
	7		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	7		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	7		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	7		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	7		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	7		Once off Operating cost	4	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	7		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	7		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	7		TOTAL NPV		3.39		0	0	0	0	0	0	0	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.89815		
	7	8.898148739	NPV of Exp within loan period				0	0	0	0	0	0	0	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0.40446	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.89815	NPV expenditure	
	7		Volume				0	0	0	0	0	0	0	0.25	0.5	0.75	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	7	0.43	Tariff (Cost of Water in R/kl)	2013	3.39		0	0	0	0	0	0	0	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	7	8.898148739	NPV of Inc. within loan period				0	0	0	0	0	0	0	0.10851	0.21703	0.32554	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0.43406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.89815	NPV income	
8	8	WC/DM- WATER LOSS DOWNSTREAM	Capital Cost (Year 1)		5.13		0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	8		Loan Year			0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
	8		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	8		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	8		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	8		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	8		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	8		Once off Operating cost	7	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	8		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	8		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	8		TOTAL NPV		5.13		0	0	0	0	0	0	0	0	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.237		
	8	14.23703798	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.237	NPV expenditure	
	8		Volume				0	0	0	0	0	0	0	0	0.45	0.9	1.35	1.8	2.25	2.7	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15			
	8	0.24	Tariff (Cost of Water in R/kl)	2014	5.13		0	0	0	0	0	0	0	0	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0.23788	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	8	14.23703798	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0.10705	0.21409	0.32114	0.42818	0.53523	0.64227	0.74932	0.74932	0.74932	0.74932	0.74932	0.74932	0.74932	0.74932	0.74932	0.74932	0.74932	0.74932	0.74932	0.74932	0.74932	0.74932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.237	NPV income	
9	9	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	9		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	9		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	9		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	9		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	9		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	9		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	9		Once off Operating cost	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	9		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	9		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	9		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	9	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	9		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	9	-211612.09	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	9	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
10	10	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	10		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	10		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	10		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	10		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	10		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	10		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	10		Once off Operating cost	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	10		Annual Operating Cost		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	10		FACTOR (for CAPEX)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	10		TOTAL NPV		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	10	0	NPV of Exp within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	10		Volume				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	10	0.78	Tariff (Cost of Water in R/kl)	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	10	0	NPV of Inc. within loan period				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
11	11	0	Capital Cost (Year 1)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	11		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	11		Interest and Redemption (1)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	11		Capital Cost (Year 2)		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	11		Loan Year			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	11		Interest and Redemption (2)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	11		TOTAL I&R (1+2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	11		Once off Operating cost	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

	11		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	11		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	11		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	11	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	11		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	11	0.32	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	11	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
12	12	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	12		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	12		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	12		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	12		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	12		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	12		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	12		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	12		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	12		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	12		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	12	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	12		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	12	0.78	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	12	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
13	13	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	13		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	13		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	13		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	13		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	13		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	13		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	13		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	13		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	13		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	13		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	13	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	13		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	13	#########################	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	13	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
14	14	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	14		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	14		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	14		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	14		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	14		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	14		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	14		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	14		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	14		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	14		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	14	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	14		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	14	0.43	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	14	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
15	15	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	15		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	15		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	15		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	15		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	15		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	15		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	15		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	15		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	15		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	15		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	15	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	15		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	15	0.24	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	15	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
16	16	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	16		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	16		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	16		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	16		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	16		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	16		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	16		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	16		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	16		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	16		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	16	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	16		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	16	0.24	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	16	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
17	17	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	17		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	17		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	17		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	17		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	17		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	17		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	17		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	17		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	17		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	17		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	17	0.0000	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	17		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	17	2.84	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	17	0.0000	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
18	18	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	18		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	18		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	18		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	18		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	18		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	18		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	18		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	18		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	18		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	18		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	18	0.0000	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	18		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	18	0.58	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	18	0.0000	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
19	19	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	19		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	19		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	19		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	19		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	19		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	19		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	19		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	19		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	19		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	19		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	19	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	19		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	19	0.59	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	19	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
20	20	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	20		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	20		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	20		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	20		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	20		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	20		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	20		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	20		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

	20		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	20		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	20	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	20		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	20	2.36	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	20	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
21	21	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	21		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	21		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	21		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	21		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	21		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	21		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	21		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	21		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	21		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	21		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	21	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	21		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	21	1.18	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	21	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
22	22	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	22		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	22		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	22		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	22		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	22		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	22		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	22		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	22		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	22		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	22		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	22	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	22		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	22	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	22	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
23	23	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	23		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	23		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	23		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	23		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	23		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	23		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	23		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	23		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	23		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	23		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	23	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	23		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	23	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	23	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
24	24	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	24		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	24		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	24		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	24		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	24		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	24		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	24		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	24		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	24		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	24		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	24	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	24		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	24	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	24	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
25	25	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	25		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	25		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	25		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	25		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	25		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	25		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	25		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	25		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	25		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	25		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	25	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	25		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	25	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	25	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
26	26	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	26		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	26		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	26		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	26		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	26		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	26		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	26		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	26		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	26		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	26		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	26	0.00	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	26		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	26	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	26	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
27	27	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	27		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	27		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	27		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	27		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	27		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	27		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	27		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	27		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	27		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	27		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	27	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	27		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	27	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	27	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
28	28	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	28		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	28		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	28		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	28		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	28		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	28		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	28		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	28		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	28		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	28		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	28	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV expenditure	
	28		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	28	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	R/kl	0
	28	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NPV income	
	29	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	29		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	29		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	29		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	29		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	29		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	29		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	29		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	29		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	29		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

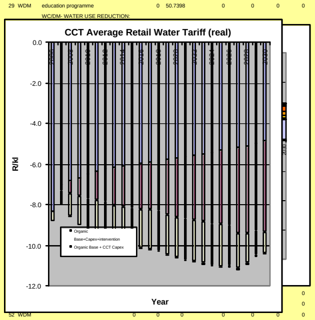
29		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	Capital Cost (Year 1)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		Interest and Redemption (1)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		Capital Cost (Year 2)			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		Loan Year				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		Interest and Redemption (2)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		TOTAL I&R (1+2)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		Once off Operating cost	0		-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		Annual Operating Cost			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		FACTOR (for CAPEX)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		TOTAL NPV			-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	NPV of Exp within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		Volume					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	1.33	Tariff (Cost of Water in R/kl)		0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	NPV of Inc. within loan period					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

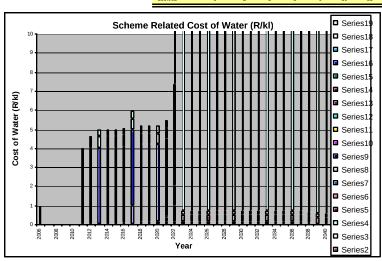
		WCWSS Requirement		0	-1.05	-2.1	-3.15	-4.2	-5.25	-5.25	-5.5	-6.2	-6.9	-7.6	-8.05	-8.5	-8.95	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4
growth	2%	Less Agric and ext		165.924	197.92144	202.4561	207.0941	211.9704	216.9602	222.1188	223.5145	225.4654	227.5333	229.7253	232.0488	234.5117	237.1224	239.8898	242.8232	245.9326	249.2285	252.7222	256.4256	260.3511	264.512	268.923	278.5
		Bulk Water Treated		-165.924	-198.97144	-204.556	-210.244	-216.17	-222.21	-227.369	-229.015	-231.665	-234.433	-237.325	-240.099	-243.012	-246.072	-249.29	-252.223	-255.333	-258.629	-262.122	-265.826	-269.751	-273.912	-278.323	-287.9
		Less Special Agreements		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	6%	Less Bulk Losses		-9.95544	-11.938286	-12.2734	-12.6146	-12.9702	-13.3326	-13.6421	-13.7409	-13.8999	-14.066	-14.2395	-14.4059	-14.5807	-14.7643	-14.9574	-15.1334	-15.32	-15.5177	-15.7273	-15.9495	-16.1851	-16.4347	-16.6994	-17.274
				-167.96856	-199.03315	-204.283	-209.629	-215.2	-220.878	-225.727	-227.274	-229.765	-232.367	-235.086	-237.693	-240.431	-243.308	-246.332	-249.09	-252.013	-255.111	-258.395	-261.876	-265.566	-269.477	-273.624	-282.626
	3.5%	External bulk water supplied		-5.8788996	-6.9661604	-7.1499	-7.33703	-7.53201	-7.73072	-7.90043	-7.95458	-8.04179	-8.13286	-8.228	-8.31925	-8.41509	-8.51578	-8.62163	-8.71814	-8.82044	-8.92888	-9.04382	-9.16566	-9.29481	-9.43171	-9.57682	-9.89191
		Bulk Water Supplied to CCT		-162.0896604	-192.06699	-197.133	-202.292	-207.668	-213.147	-217.826	-219.319	-221.724	-224.234	-226.858	-229.374	-232.016	-234.792	-237.711	-240.372	-243.192	-246.182	-249.351	-252.71	-256.271	-260.046	-264.047	-272.734
	12%	Less Reticulation Losses		-19.45075925	-23.048039	-23.6559	-24.2751	-24.9202	-25.5776	-26.1392	-26.3183	-26.6068	-26.9081	-27.2229	-27.5248	-27.8419	-28.1751	-28.5253	-28.8446	-29.1831	-29.5418	-29.9221	-30.3252	-30.7525	-31.2055	-31.6856	-32.7281
		Less saving related to non revenue UAW		0																							
		Total metered consumer sales		-142.6389012	-169.01895	-173.477	-178.017	-182.748	-187.569	-191.687	-193.001	-195.117	-197.326	-199.635	-201.849	-204.174	-206.617	-209.185	-211.527	-214.009	-216.64	-219.429	-222.385	-225.519	-228.84	-232.361	-240.006
Inflation	0%	CCT Reticulation Expenditure (2006 terms)		1188.347173	1188.3472	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.347	1188.35	1188.35	1188.35
		Add real growth in retail expenditure (incl BWP			54	110	168	228	275	324	374	403	429	455	484	514	567	621	659	697	736	776	816	858	966	1009	1053
		Add cost of selected interventions		0	2	2	2	6	10	11	12	12	13	13	13	12	12	12	13	20	24	26	26	26	26	26	26
		Add AFF Capex Budget		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
		Add EFF Capex Budget		25.12	71.08	147.30	202.30	238.22	281.67	306.40	314.19	321.47	328.76	336.29	343.83	351.36	358.90	366.43	373.96	381.50	389.03	396.57	404.10	386.52	348.10	279.41	231.94
		TOTAL CCT Retic Expenditure		1263.4623	1365.0622	1497.115	1610.134	1710.327	1805.067	1879.245	1938.199	1974.831	2008.711	2043.268	2079.201	2115.752	2176.321	2238.482	2283.81	2336.524	2387.12	2436.946	2485.082	2508.915	2578.63	2553.03	2549.1
		Average cost of Water incl interventions	R/kl	-8.857768041	-8.0763853	-8.63005	-9.04482	-9.35894	-9.62347	-9.80371	-10.0424	-10.1213	-10.1796	-10.235	-10.3008	-10.3625	-10.5331	-10.7009	-10.7968	-10.9179	-11.0188	-11.1059	-11.1747	-11.1251	-11.2682	-10.9873	-10.621
					-8.82%	6.86%	4.81%	3.47%	2.83%	1.87%	2.44%	0.79%	0.58%	0.54%	0.64%	0.60%	1.65%	1.59%	0.90%	1.12%	0.92%	0.79%	0.62%	-0.44%	1.29%	-2.49%	-3.33%
		Average cost of Water excl real growth		-8.331157651	-7.0308515	-6.85017	-6.67546	-6.50265	-6.33551	-6.19941	-6.15721	-6.09044	-6.02224	-5.9526	-5.88731	-5.82027	-5.75144	-5.68083	-5.61794	-5.55279	-5.48535	-5.41564	-5.34365	-5.2694	-5.19291	-5.11423	-4.95132
		Average cost of Water incl real growth		-8.331157651	-7.348773	-7.48174	-7.61683	-7.7495	-7.80243	-7.88865	-8.09434	-8.15684	-8.19429	-8.23408	-8.28406	-8.33575	-8.49386	-8.65072	-8.73229	-8.80979	-8.88294	-8.95144	-9.01503	-9.0734	-9.41426	-9.45704	-9.33892
		Average cost of Water incl CCT CAPEX budget		-8.857768041	-8.0651176	-8.61907	-9.03412	-9.32663	-9.57066	-9.74796	-9.98133	-10.0607	-10.1137	-10.1691	-10.2352	-10.3015	-10.4729	-10.6414	-10.7366	-10.8261	-10.9095	-10.9866	-11.057	-11.009	-11.1539	-10.8747	-10.5136
		Average cost of Water incl interventions		-8.857768041	-8.0763853	-8.63005	-9.04482	-9.35894	-9.62347	-9.80371	-10.0424	-10.1213	-10.1796	-10.235	-10.3008	-10.3625	-10.5331	-10.7009	-10.7968	-10.9179	-11.0188	-11.1059	-11.1747	-11.1251	-11.2682	-10.9873	-10.621
		Average cost of Water excl real growth		-8.331157651	-7.0308515	-6.85017	-6.67546	-6.50265	-6.33551	-6.19941	-6.15721	-6.09044	-6.02224	-5.9526	-5.88731	-5.82027	-5.75144	-5.68083	-5.61794	-5.55279	-5.48535	-5.41564	-5.34365	-5.2694	-5.19291	-5.11423	-4.95132
		Average cost of Water incl real growth		0	-0.3179215	-0.63157	-0.94137	-1.24684	-1.46692	-1.68924	-1.93713	-2.0664	-2.17205	-2.28148	-2.39674	-2.51548	-2.74242	-2.96989	-3.11434	-3.257	-3.39758	-3.53581	-3.67138	-3.80401	-4.22135	-4.34281	-4.3876
		Average cost of Water incl CCT CAPEX budget		-0.52661039	-0.7163446	-1.13733	-1.41729	-1.57713	-1.76823	-1.8593	-1.88699	-1.90385	-1.91945	-1.93499	-1.95109	-1.96578	-1.979	-1.99072	-2.0043	-2.01626	-2.02656	-2.03514	-2.04196	-1.93563	-1.73962	-1.41765	-1.17471
		Average cost of Water incl interventions		0	-0.0112677	-0.01098	-0.0107	-0.03231	-0.0528	-0.05576	-0.06111	-0.06058	-0.0659	-0.06595	-0.06563	-0.06096	-0.06024	-0.0595	-0.06018	-0.09182	-0.10933	-0.11927	-0.11769	-0.11605	-0.11437	-0.11263	-0.10736

		WCWSS Requirement		-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	
growth	2%	Less Agric and ext		283.8	287.632	291.617	295.762	300.072	304.555	309.218	314.066	319.109	324.353	329.807	335.48	341.379	347.514	353.895	360.53	367.432	374.609	382.073	389.836	397.91	406.306	415.038	424.12
		Bulk Water Treated		-293.2	-297.032	-301.017	-305.162	-309.472	-313.955	-318.618	-323.466	-328.509	-333.753	-339.207	-344.88	-350.779	-356.914	-363.295	-369.93	-376.832	-384.009	-391.473	-399.236	-407.31	-415.706	-424.438	
		Less Special Agreements		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
	6%	Less Bulk Losses		-17.592	-17.8219	-18.061	-18.3097	-18.5683	-18.8373	-19.1171	-19.408	-19.7105	-20.0252	-20.3524	-20.6928	-21.0467	-21.4148	-21.7977	-22.1958	-22.6099	-23.0405	-23.4884	-23.9542	-24.4386	-24.9424	-25.4663	
				-287.608	-291.21	-294.956	-298.852	-302.904	-307.118	-311.501	-316.058	-320.798	-325.728	-330.855	-336.187	-341.732	-347.499	-353.497	-359.735	-366.222	-372.968	-379.985	-387.282	-394.871	-402.764	-410.972	
	3.5%	External bulk water supplied		-10.0663	-10.1924	-10.3235	-10.4598	-10.6016	-10.7491	-10.9025	-11.062	-11.2279	-11.4005	-11.5799	-11.7665	-11.9606	-12.1625	-12.3724	-12.5907	-12.8178	-13.0539	-13.2995	-13.5549	-13.8205	-14.0967	-14.384	
		Bulk Water Supplied to CCT		-277.542	-281.018	-284.633	-288.392	-292.302	-296.369	-300.598	-304.996	-309.57	-314.328	-319.275	-324.42	-329.772	-335.337	-341.125	-347.144	-353.404	-359.914	-366.685	-373.727	-381.051	-388.667	-396.588	
	12%	Less Reticulation Losses		-33.305	-33.7221	-34.1559	-34.6071	-35.0763	-35.5643	-36.0718	-36.5995	-37.1485	-37.7193	-38.313	-38.9304	-39.5726	-40.2404	-40.9349	-41.6573	-42.4085	-43.1897	-44.0022	-44.8473	-45.7261	-46.64	-47.5905	
		Less saving related to non revenue UAW																									
		Total metered consumer sales		-244.237	-247.296	-250.477	-253.785	-257.226	-260.805	-264.526	-268.397	-272.422	-276.608	-280.962	-285.49	-290.199	-295.096	-300.19	-305.487	-310.995	-316.725	-322.683	-328.88	-335.324	-342.027	-348.997	
Inflation	0%	CCT Reticulation Expenditure (2006 terms)		1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	1188.35	
		Add real growth in retail expenditure (incl BWP		1098	1144	1190	1238	1286	1336	1386	1438	1490	1544	1599	1654	1711	1769	1828	1889	1950	2013	2077	2142	0	0	0	
		Add cost of selected interventions		26	26	26	26	26	25	24	24	24	24	24	24	24	23	18	12	12	12	12	12	12	12	12	
		Add AFF Capex Budget		50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Add EFF Capex Budget		203.56	160.11	135.37	127.58	120.30	113.02	105.48	97.95	90.41	82.88	75.35	67.81	60.28	52.74	45.21	37.67	30.14	22.60	15.07	7.53	0.00	0.00	0.00	
		TOTAL CCT Retic Expenditure		2565.55	2517.83	2539.73	2579.51	2620.67	2662.27	2704.49	2748.07	2792.9	2838.85	2885.96	2934.17	2983.48	3033.66	3079.65	3127.11	3181.12	3236.35	3292.84	3350.62	1200.83	1200.83	1200.83	
		Average cost of Water incl interventions	R/kl	-10.5044	-10.1814	-10.1396	-10.1641	-10.1882	-10.2079	-10.2239	-10.2388	-10.2521	-10.2631	-10.2717	-10.2777	-10.2808	-10.2802	-10.259	-10.2365	-10.2288	-10.2182	-10.2046	-10.188	-3.58111	-3.51093	-3.44081	
				-1.10%	-3.07%	-0.41%	0.24%	0.24%	0.19%	0.16%	0.15%	0.13%	0.11%	0.08%	0.06%	0.03%	-0.01%	-0.21%	-0.22%	-0.07%	-0.10%	-0.13%	-0.16%	-64.85%	-1.96%	-2.00%	
		Average cost of Water excl real growth		-4.86556	-4.80537	-4.74434	-4.68249	-4.61985	-4.55647	-4.49236	-4.42758	-4.36216	-4.29614	-4.22957	-4.16248	-4.09494	-4.02698	-3.95866	-3.89001	-3.82111	-3.75199	-3.68271	-3.61332	-3.54387	-3.47443	-3.40503	
		Average cost of Water incl real growth		-9.36069	-9.42981	-9.49624	-9.55989	-9.62065	-9.67842	-9.7331	-9.78459	-9.83282	-9.87768	-9.91911	-9.95703	-9.99137	-10.0221	-10.0491	-10.0723	-10.0918	-10.1074	-10.1192	-10.1271	-3.54387	-3.47443	-3.40503	
		Average cost of Water incl CCT CAPEX budget		-10.3989	-10.0772	-10.0367	-10.0626	-10.0883	-10.1118	-10.1319	-10.1495	-10.1647	-10.1773	-10.1873	-10.1946	-10.1991	-10.2008	-10.1997	-10.1956	-10.1887	-10.1788	-10.1659	-10.15	-3.54387	-3.47443	-3.40503	
		Average cost of Water incl interventions		-10.5044	-10.1814	-10.1396	-10.1641	-10.1882	-10.2079	-10.2239	-10.2388	-10.2521	-10.2631	-10.2717	-10.2777	-10.2808	-10.2802	-10.259	-10.2365	-10.2288	-10.2182	-10.2046	-10.188	-3.58111	-3.51093	-3.44081	
		Average cost of Water excl real growth		-4.86556																							
		Average cost of Water incl real growth		-4.49514																							
		Average cost of Water incl CCT CAPEX budget		-1.03817																							
		Average cost of Water incl interventions		-0.1055																							

		Intervention	YEAR	NPV	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
0	S	Berg Water Project			172	177	182	187	193	198	204	209	193	171	150	128	106	106	106	106	106	106	106	106	106			
						5	10	15	21	26	32	37	21	-1	-23	-44	-66	-66	-66	-66	-66	-66	-66	-66	-66			
1	S	WASTEWATER RE-USE- Mdantsane East & Reeston: IDZ/Industrial	0	5.50059	0	0	0	0	0	0	0.202231	0.904461	0.202231	0.425089	0.425089	0.425089	0.425089	0.425089	0.425089	0.425089	0.425089	0.425089	0.425089	0.425089	0.425089	0.42509	0.42509	0.42509
2	S	WASTEWATER RE-USE- Mdantsane West/Potsdam: Domestic	0	1.73474	0	0	0	0	0	0	0	0	0.080892	0.961785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.16178	0.16178	0.16178
3	S	WASTEWATER RE-USE- Central (From Reeston): Domestic	0	1.6412	0	0	0	0	0	0	0	0	0	0.080892	0.961785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.16178	0.16178	0.16178
4	S	WASTEWATER RE-USE- East Bank: Domestic	0	1.55269	0	0	0	0	0	0	0	0	0	0	0.080892	0.961785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.161785	0.16178	0.16178	0.16178
5	S	WASTEWATER RE-USE- West Bank: IDZ/Industrial	0	1.90054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.161785	0.823569	0.323569	0.323569	0.323569	0.323569	0.32357	0.32357	0.32357
6	S	WASTEWATER RE-USE- Quinera (Gonubie): Domestic	0	1.60047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.121338	1.042677	0.242677	0.242677	0.242677	0.242677	0.24268	0.24268	0.24268
7	S	AUGMENTATION OF WATER SUPPLIES - Nahoon River: A dam at Stone Island Farm	0	66.4683	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.336187	10.67237	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581
8	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	WDM	WC/DM- WATER USE REDUCTION: W	0	28.9914	0	1.9044613	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.904461	1.90446	1.90446	1.5
27	WDM	WC/DM- WATER USE REDUCTION: Annual Water Audit	0	20.2291	0	0	0	0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
28	WDM	WC/DM- WATER USE REDUCTION: Comprehensive and effective metering, reading, billing and debt control	0	33.7152	0	0	0	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
29	WDM	WC/DM- WATER USE REDUCTION: Enhancement to the current water use education programme	0	50.7398	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		WC/DM- WATER USE REDUCTION:							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0.580892	0.580892	0.580892	0.580892	0.580892	0.580892	0.580892	0.580892	0.580892	0.580892	0.580892	0.580892	0.580892	0.580892	0.580892	0.58089	0.58089	0.58089
									0	0	0	0.404461	0.404461	0.404461	0.404461	0.404461	0.404461	0.404461	0.404461	0.404461	0.404461	0.404461	0.404461	0.404461	0.404461	0.40446	0.40446	0.40446
									0	0	0	0	0.647138	0.647138	0.647138	0.647138	0.647138	0.647138	0.647138	0.647138	0.647138	0.647138	0.647138	0.647138	0.647138	0.64714	0.64714	0.64714
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				218.852	0	7	12	17	27	36	42	49	33	12	-9	-31	-53	-53	-53	-53	-46	-42	-40	-40	-40	26	26	26
				216.951	0	2	2	2	6	10	11	12	12	13	13	13	12	12	12	13	20	24	26	26	26	26	26	26

		Intervention	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052
0	S	Berg Water Project																							
1	S	WASTEWATER RE-USE- Mdantsane East & Reeston: IDZ/Industrial	0.42509	0.42509	0.42509	0.42509	0.42509	0.22286	0.22286	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	S	WASTEWATER RE-USE- Mdantsane West/Potsdam: Domestic	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	S	WASTEWATER RE-USE- Central (From Reeston): Domestic	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	S	WASTEWATER RE-USE- East Bank: Domestic	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.16178	0.08089	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	S	WASTEWATER RE-USE- West Bank: IDZ/Industrial	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.32357	0.16178	0	0	0	0	0	0	0	0	0
6	S	WASTEWATER RE-USE- Quinera (Gonubie): Domestic	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.24268	0.12134	0	0	0	0	0	0	0	0	0
7	S	AUGMENTATION OF WATER SUPPLIES - Nahoon River: A dam at Stone Island Farm	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	13.1581	7.82192	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573	2.48573
8	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	WDM	WC/DM- WATER USE REDUCTION: W	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
27	WDM	WC/DM- WATER USE REDUCTION: Annual Water Audit	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
28	WDM	WC/DM- WATER USE REDUCTION: Comprehensive and effective metering, reading, billing and debt control	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
29	WDM	WC/DM- WATER USE REDUCTION: Enhancement to the current water use education programme	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		WC/DM- WATER USE REDUCTION:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0.58089	0.58089	0.58089	0.58089	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
			0.40446	0.40446	0.40446	0.40446	0.40446	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0.64714	0.64714	0.64714	0.64714	0.64714	0.64714	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	WDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			26	26	26	26	26	25	24	24	24	24	24	24	24	23	18	12	12	12	12	12	12	12	12
			26	26	26	26	26	25	24	24	24	24	24	24	24	23	18	12	12	12	12	12	12	12	12





RECONCILIATION SESSIONS

Save	Recall	Run	Name of Run	Generated By	Notes
		1	Recon Session 1	jules	
		2	RS1	j1	
		3	RS3	j2	
		4	RS4	j3	
		5	RS5	j4	
		6	RS6	j5	
		7	RS7	j6	
		8	RS8	j7	
		9	RS9	j8	
		10	RS10	j9	

Session 1

Name: Recon Session 1 **Generated By:** jules

Selected	Order	First Water	Water Requirements
1	1	2006	
1	2	2015	
1	3	2006	
1	4	2006	
1	5	2006	
0			

Session 2

Name: RS1 **Generated By:** j1

Selected	Order	First Water	Water Requirements
1	1	2006	
1	2	2015	
1	3	2006	
1	4	2006	
1	5	2006	
0			

Session 3

Name: RS3 **Generated By:** j2

Selected	Order	First Water	Water Requirements
1	1	2006	
1	2	2015	
1	3	2006	
1	4	2006	
1	5	2006	
0			

Session 4

Name: RS4 **Generated By:** j3

Selected	Order	First Water	Water Requirements
1	1	2006	
1	2	2015	
1	3	2006	
1	4	2006	
1	5	2006	
0			

Session 5

Name: RS5 **Generated By:** j4

Selected	Order	First Water	Water Requirements
1	1	2006	
1	2	2015	
1	3	2006	
1	4	2006	
1	5	2006	
0			

Session 6

Name: RS6 **Generated By:** j5

Selected	Order	First Water	Water Requirements
1	1	2006	
1	2	2015	
1	3	2006	
1	4	2006	
1	5	2006	
0			

Session 7

Name: RS7 **Generated By:** j6

Selected	Order	First Water	Water Requirements
1	1	2006	
1	2	2015	
1	3	2006	
1	4	2006	
1	5	2006	
0			

Session 8

Name: RS8 **Generated By:** j7

Selected	Order	First Water	Water Requirements
1	1	2006	
1	2	2015	
1	3	2006	
1	4	2006	
1	5	2006	
0			

Session 9

Name: RS9 **Generated By:** j8

Selected	Order	First Water	Water Requirements
1	1	2006	
1	2	2015	
1	3	2006	
1	4	2006	
1	5	2006	
0			

Session 10

Name: RS10 **Generated By:** j9

Selected	Order	First Water	Water Requirements
1	1	2006	
1	2	2015	
1	3	2006	
1	4	2006	
1	5	2006	
0			

Session 11

Name: **Generated By:**

Selected	Order	First Water	Water Requirements
1	1	2006	
1	2	2015	
1	3	2006	
1	4	2006	
1	5	2006	
0			

Session 12

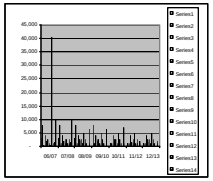
Name: **Generated By:**

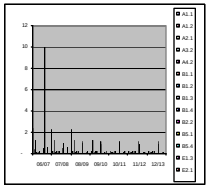
Selected	Order	First Water	Water Requirements
1	1	2006	
1	2	2015	
1	3	2006	
1	4	2006	
1	5	2006	
0			

Table 1 -2: Summary cost of main projects indicating potential savings in Ml/day

Objective numbe		Programme	Budget x R 1000 & expected savir																				
			05/06	Mm3/a	06/07	Mm3/a	07/08	Mm3/a	08/09	Mm3/a	09/10	Mm3/a	10/11	Mm3/a	11/12	Mm3/a	12/13	Mm3/a	Total		Mm3/a	Saving Period beginning	Saving Period End	Time to savings
Objective A1	A1.1	Pressure reduction	2,000	1.6	3,000	2.4	2,900	2.3	2,900	2.3	50	0.0	50	0.0	50	0.0	50	0.0	9,000	C	7.1	2006	2008	3
	A1.2	Establishment of leak detection task teams	1,400	0.4	1,400	0.4	1,000	0.3	1,000	0.3	1,000	0.3	1,000	0.3	1,000	0.3	1,000	0.3	7,400	O	2.0	2006	2012	7
Objective A2	A2.1	Comprehensive water supply management projects in previously disadvantaged areas	5,900	0.9	8,000	1.3	8,020	1.3	8,000	1.3	8,000	1.3	1,000	0.2	1,000	0.2	1,000	0.2	35,020	O	5.5	2006	2009	4
Objective A3	A3.2	Preventative maintenance	300	-	700	-	1,150	-	1,150	-	1,150	-	1,150	-	1,150	-	1,150	-	7,600	O	-			
Objective A4	A4.2	Meter management /replacement programme	1,000	0.0	4,200	0.1	4,050	0.1	4,000	0.1	4,000	0.1	4,050	0.1	4,000	0.1	4,000	0.1	28,300	C	0.8	2006	2012	7
Objective B1	B1.1	Consumer awareness campaign	1,410	0.1	2,010	0.2	2,410	0.2	2,610	0.2	2,710	0.2	2,710	0.2	2,710	0.2	2,710	0.2	17,870	O	1.4	2006	2012	7
	B1.2	Consumer education campaign	-	-	2,040	0.3	2,040	0.3	1,790	0.2	1,790	0.2	1,590	0.2	1,590	0.2	1,590	0.2	12,430	O	1.5	2006	2012	7
	B1.3	School education	1,150	0.1	2,300	0.2	2,300	0.2	2,300	0.2	2,300	0.2	2,300	0.2	2,300	0.2	2,300	0.2	16,100	O	1.4	2006	2012	7
	B1.4	Special events	745	-	845	-	895	-	945	-	995	-	1,045	-	1,095	-	1,145	-	6,965	O	-			
Objective B2	B2.2	enforcement of by-laws	780	-	705	-	705	-	860	-	715	-	715	-	715	-	715	-	5,130	O	-			
Objective B5	B5.1	Implement a plumbing retro –fit programme	-	-	500	0.1	2,300	0.5	5,000	1.1	5,000	1.1	5,050	1.1	5,000	1.1	5,000	1.1	27,850	O	6.3	2006	2012	7
	B5.4	Implement an on-going support programme for large consumers	-	-	520	0.5	1,070	1.0	1,070	1.0	870	0.8	870	0.8	870	0.8	870	0.8	6,140	O	6.0	2006	2012	7
Objective E1	E1.3	Recycling of water from wastage plants to parks & industry	25,000	9.0	40,772	10.0	2,575	-	2,575	-	2,575	-	2,575	-	2,575	-	2,575	-	56,222	C	10.0	2006	2006	1
Objective E2	E2.1	Support working for water programme	-	-	950	-	950	-	950	-	950	-	950	-	950	-	950	-	6,650	O	-			
Objective C1	C1.1	Establish Distircti management areas	1,600	-	1,500	-	1,500	-	-	-	-	-	-	-	-	-	-	-	3,000	O	-			
Objective C2	C2.1	Management Information System	500	0.0	10,000	0.6	10,000	0.6	1,000	0.1	1,000	0.1	1,000	0.1	1,000	0.1	1,000	0.1	25,000	C	1.6	2006	2007	2
	C2.2	Upgrading the telemetry system, remo communications (cell)	-	-	-	-	200	0.0	6,400	0.3	6,530	0.3	6,730	0.3	2,030	0.1	2,030	0.1	23,920	C	1.0	2008	2012	5
Total			41,78	12.2	79,44	16.0	44,06	6.8	42,550	7.1	39,63	4.7	32,78	3.5	28,03	3.3	28,08	3.3	336,38		44.6			
Total, cumulative savings, Ml/day				12		28		35		42		47		50		54		57						

Note that A5.1 and A5.2 will not result in a significant reduction of demand, but can result in a significant increase in financial





	06/07	07/08	08/09	09/10	10/11	11/12	12/13			Saving Period beginning	Saving Period End	Time
Pressure reduction	2	2	2	0	0	0	0	A1.1	1	2006	2008	
Establishment of lea	0	0	0	0	0	0	0	A1.2	2	2006	2012	
Comprehensive wat	1	1	1	1	0	0	0	A2.1	3	2006	2009	
Preventative mainte	-	-	-	-	-	-	-	A3.2	4			
Meter management	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A4.2	5	2006	2012	
Consumer awarene	0.2	0.2	0.2	0.2	0.2	0.2	0.2	B1.1	6	2006	2012	
Consumer educatior	0.3	0.3	0.2	0.2	0.2	0.2	0.2	B1.2	7	2006	2012	
School education	0.2	0.2	0.2	0.2	0.2	0.2	0.2	B1.3	8	2006	2012	
Special events	-	-	-	-	-	-	-	B1.4	9			
enforcement of by-la	-	-	-	-	-	-	-	B2.2	10			
Implement a plumbir	0.1	0.5	1.1	1.1	1.1	1.1	1.1	B5.1	11	2006	2012	
Implement an on-goi	0.5	1.0	1.0	0.8	0.8	0.8	0.8	B5.4	12	2006	2012	
Recycling of water fr	10.0	-	-	-	-	-	-	E1.3	13	2006	2006	
Support working for	-	-	-	-	-	-	-	E2.1	14			
Establish Distircti ma	-	-	-	-	-	-	-	C1.1	15			
Management Inform	0.6	0.6	0.1	0.1	0.1	0.1	0.1	C2.1	16	2006	2007	
Upgrading the telem	-	0.0	0.3	0.3	0.3	0.1	0.1	C2.2	17	2008	2012	

	06/07	07/08	08/09	09/10	10/11	11/12	12/13			Saving Period beginning	Saving Period End	Time
Pressure reduction	3,000	2,900	2,900	50	50	50	50	A1.1	1			
Establishment of lea	1,400	1,000	1,000	1,000	1,000	1,000	1,000	A1.2	2			
Comprehensive wat	8,000	8,020	8,000	8,000	1,000	1,000	1,000	A2.1	3			
Preventative mainte	700	1,150	1,150	1,150	1,150	1,150	1,150	A3.2	4			
Meter management	4,200	4,050	4,000	4,000	4,050	4,000	4,000	A4.2	5			
Consumer awarene	2,010	2,410	2,610	2,710	2,710	2,710	2,710	B1.1	6			
Consumer educatior	2,040	2,040	1,790	1,790	1,590	1,590	1,590	B1.2	7			
School education	2,300	2,300	2,300	2,300	2,300	2,300	2,300	B1.3	8			
Special events	845	895	945	995	1,045	1,095	1,145	B1.4	9			
enforcement of by-la	705	705	860	715	715	715	715	B2.2	10			
Implement a plumbir	500	2,300	5,000	5,000	5,050	5,000	5,000	B5.1	11			
Implement an on-goi	520	1,070	1,070	870	870	870	870	B5.4	12			
Recycling of water fr	40,772	2,575	2,575	2,575	2,575	2,575	2,575	E1.3	13			
Support working for	950	950	950	950	950	950	950	E2.1	14			
Establish Distircti ma	1,500	1,500	-	-	-	-	-	C1.1	15			
Management Inform	10,000	10,000	1,000	1,000	1,000	1,000	1,000	C2.1	16			
Upgrading the telem	-	200	6,400	6,530	6,730	2,030	2,030	C2.2	17			

City of Cape Town: Future Budget Requirements

CCT WATER SERVICES: CURRENT AND FUTURE ESTIMATED OPERATING BUDGET					
Period	2008	2009 to 2012	2013 to 2021	2016 to 2021	Beyond 2030
Current Operating Budget for Water Services (in Rands millions)	R 1,199				
Growth in Operating Budget in real terms per annum		3.0%	3.0%	3.0%	2.0%

Incremental Growth in Operating Budget in real terms per annum (WSDP)		3.0%	3.0%	3.0%	2.0%
Growth in Operating Budget in real terms per annum (OVERHAUL)		3.0%	2.0%	2.0%	2.0%
Growth in Operating Budget in real terms per annum (AGM)		3.0%	3.0%	3.0%	2.0%

CCT WATER SERVICES CAPITAL BUDGET REQUIREMENT		
Date	Capital Budget (CFD)	Capital Budget (SPP)
2008	200	0
2009	200	0
2010	200	0
2011	200	0
2012	200	0
2013	200	0
2014	200	0
2015	200	0
2016	200	0
2017	200	0
2018	200	0
2019	200	0
2020	200	0
2021	200	0
2022	200	0
2023	200	0
2024	200	0
2025	200	0
2026	200	0
2027	200	0
2028	200	0
2029	200	0
2030	200	0

Input Data		
Interest Rate		11%
Period		30
Multiple		10

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Operating Budget	R 1,199	1,227,700,000	1,287,700,000	1,349,000,000	1,399,544,022	1447,018	1495,93	1524,85	1470,57	1417,02	1366,22	1738,24	1707,93	1620,47	1676,49	1910	1951,29	1990,22	2033,1	2075,9	2112,21	2154,15	2197,05	2241,29	2286,21	2331,94	2378,58	2426,15	2474,68	2524,17	2576,65	2628,14	2678,67	2732,24	2786,89	2842,63	2899,48	2957,47	3016,62	3076,95	3138,49	3201,26	3265,28	3330,59					
Incremental Growth in real terms		0.00	0.00	0.00	0.50	0.207	0.210	0.202	0.107	0.202	0.429	0.471	0.516	0.513	0.502	0.501	0.501	0.502	0.501	0.502	0.501	0.502	0.501	0.502	0.501	0.502	0.501	0.502	0.501	0.502	0.501	0.502	0.501	0.502	0.501	0.502	0.501	0.502	0.501	0.502	0.501	0.502	0.501	0.502	0.501	0.502
SPP Requirements		0	0	0		54	88		54	54	54	54	54	54	54	54	54	54	54	54	54				4																						
SPP Year 1	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12																									
SPP Year 2		R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12	R 29,12																									
SPP Year 3			R 29,12	R 29,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12																									
SPP Year 4				R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12	R 76,12																									
SPP Year 5					R 36,93	R 36,93	R 36,93	R 36,93	R 36,93	R 36,93	R 36,93	R 36,93	R 36,93	R 36,93	R 36,93	R 36,93	R 36,93	R 36,93	R 36,93	R 36,93	R 36,93																									
SPP Year 6						R 41,45	R 41,45	R 41,45	R 41,45	R 41,45	R 41,45	R 41,45	R 41,45	R 41,45	R 41,45	R 41,45	R 41,45	R 41,45	R 41,45	R 41,45	R 41,45																									
SPP Year 7							R 24,74	R 24,74	R 24,74	R 24,74	R 24,74	R 24,74	R 24,74	R 24,74	R 24,74	R 24,74	R 24,74	R 24,74	R 24,74	R 24,74	R 24,74																									
SPP Year 8								R 7,79	R 7,79	R 7,79	R 7,79	R 7,79	R 7,79	R 7,79	R 7,79	R 7,79	R 7,79	R 7,79	R 7,79	R 7,79	R 7,79																									
SPP Year 9									R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24																									
SPP Year 10										R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24																									
SPP Year 11											R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24																									
SPP Year 12												R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24																									
SPP Year 13													R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24																									
SPP Year 14														R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24																									
SPP Year 15															R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24																									
SPP Year 16																R 7,24	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24																									
SPP Year 17																	R 7,24	R 7,24	R 7,24	R 7,24	R 7,24																									
SPP Year 18																		R 7,24	R 7,24	R 7,24	R 7,24																									
SPP Year 19																			R 7,24	R 7,24	R 7,24																									
SPP Year 20																																															
SPP Year 21																																															
SPP Year 22																																															
SPP Year 23																																															
SPP Year 24																																															
SPP Year 25																																															
TOTAL SPP 10 year CAPEX Budget	R 29,12	R 72,93	R 147,93	R 238,22	R 238,22	R 261,67	R 306,60	R 314,19	R 321,43	R 328,76	R 336,18	R 343,69	R 351,29	R 358,98	R 366,43	R 373,96	R 381,56	R 389,22	R 396,97	R 404,79	R 396,51	R 348,19	R 276,43	R 233,94	R 183,31	R 160,11	R 133,37	R 127,56	R 125,39	R 113,63	R 109,16	R 97,43	R 90,41	R 82,68	R 79,26	R 67,83	R 60,19	R 52,74	R 48,23	R 37,67	R 30,13	R 22,84	R 18,07	R 7,543					
TOTAL																																															