

The Study on Water Resources Management of The Hashemite Kingdom of Jordan
Final Report/Supporting Report Part-A "Master Plan"

Water and Adjacent Areas Wastewater Project																							
		Hydrolic Analysis (M m³/yr)																					
Item	Allocation	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Water Produced		0.0	0.0	0.0	0.0	2.0	2.1	2.2	2.3	2.5	2.4	2.5	2.5	2.6	2.7	2.8	2.9	2.9	2.8	2.1	2.2		
Municipal Water	1.00	0.9	0.8	1.0	1.0	1.0	2.1	2.1	2.1	2.3	2.4	2.5	2.5	2.6	1.7	1.8	2.0	2.0	2.0	3.1	3.2		
Physical Losses (%)	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		
Physical Losses	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5		
Administrative/Managerial Losses (%)	0.21	0.15	0.16	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
Administrative/Managerial Losses	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2		
Quantity Delivered	0.0	0.0	0.0	0.0	0.0	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.7	2.6	2.7		
Quantity Whose Bills are Collected	0.0	0.0	0.0	0.0	0.0	1.3	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.5	2.6		
Industrial Water	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Physical Losses (%)	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		
Physical Losses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Administrative/Managerial Losses (%)	0.21	0.18	0.16	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
Administrative/Managerial Losses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Quantity Delivered	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Quantity Whose Bills are Collected	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Financial Analysis (M JD at 2000 Prices)																							
Item	Percent	Amount	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Costs																							
Local Components	19%	3.6	0.9	1.2	1.2	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		
Foreign Components	19%	14.4	0.8	4.8	4.8	4.8	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		
Duty & Taxes	1%	0.0	0.0	0.8	1.0	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		
Total Capital Costs	18.0	0.0	6.6	8.0	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		
Amortization Costs	0.0	0.0	6.6	12.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0		
O & M Costs	0.0	0.0	8.0	8.0	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		
Total Costs	0.0	0.0	6.6	8.0	8.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Revenues																							
Municipal Usage Qty (M m³)	0.0	0.0	8.0	8.0	1.3	1.5	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.3	2.4	2.5	2.6	2.6	2.6		
Municipal Tariff (JD/m³)	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347	1347		
Municipal Revenues (M JD)	0.0	0.0	8.0	8.0	1.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4		
Industrial Usage Qty (M m³)	0.0	0.0	8.0	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		
Industrial Tariff (JD/m³)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800		
Industrial Revenues (M JD)	0.0	0.0	8.0	8.0	1.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4		
Total Revenue (M JD)	0.0	0.0	8.0	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		
Net Cash Flow (M JD)	0.0	0.0	-6.6	-4.0	-4.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2		
Discounting (DR=10%)	0.00089	0.02645	0.75131	0.48301	1.0192	1.50447	0.51318	0.46651	0.43410	1.38554	1.38549	0.31843	0.28846	0.26333	0.21939	1.21763	1.19784	0.17986	0.16851	0.14864	0.13513		
Total Qty Delivered (m³)	0.0	0.0	8.0	8.0	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7		
EIRR	1%																						
NPV (JD)	-5.6	0.0	-5.6	4.5	4.1	1.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1		
PV of Total Costs (JD)	14.7	0.0	5.8	4.5	4.1	1.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0		
PV of Total Qty Delivered (m³)	11.2	0.0	0.6	8.0	8.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4		
Unit Water Price (JD/m³)	1,112																						

Item Stage II		Hydrologic Analysis (M^3/yr)																								
Item	Allocated	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030		
Water Produced		1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0		
Municipal Water	1.00	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0		
Physical Losses (%)		1.24	0.25	1.22	0.21	0.21	0.28	0.19	0.18	1.17	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		
Physical Losses		1.0	0.0	1.1	1.0	0.0	0.8	1.0	1.1	1.1	1.0	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	
Administrative/Managerial Losses (%)		1.21	0.19	1.16	0.14	0.12	0.18	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Administrative/Managerial Losses	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.5	1.4	0.4	0.3	1.5	0.4	0.4	1.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Quantity Delivered		1.0	0.0	0.8	1.0	0.0	0.8	1.0	4.8	5.1	5.4	5.6	5.8	6.0	6.1	6.3	6.5	6.6	6.8	7.0	7.1	7.4				
Quantity Where Bills are Collected	1.0	0.0	0.8	1.0	0.0	0.8	1.0	4.4	4.7	5.0	5.1	5.4	5.6	5.8	5.9	6.1	6.2	6.4	6.6	6.7	7.0					
Industrial Water	0.00	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.8	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	0.0	
Physical Losses (%)		1.24	0.25	1.22	0.21	0.21	0.28	0.19	0.18	1.17	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	
Physical Losses		1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.8	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	0.0	
Administrative/Managerial Losses (%)		1.21	0.19	1.16	0.14	0.12	0.18	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Administrative/Managerial Losses	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.8	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	0.0	0.8	
Quantity Delivered		1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.8	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	0.0	
Quantity Where Bills are Collected	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.8	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	0.0		
Financial Analysis (\$D at 2000 Prices)																										
Item	Percent	Amount	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
Costs																										
Total Components	29%	9.6	1.0	0.4	1.6	1.0	2.0	2.8	1.6	0.1	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0		
Local Components	29%	3.4	1.0	1.6	6.4	1.0	0.8	4.4	0.1	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0			
Foreign Components	29%	35.4	1.0	0.2	0.8	1.0	0.0	0.8	1.0	0.1	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0		
Duty & Taxes	2%	0.3	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.1	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0		
Total Capital Costs	-48.3	1.0	2.0	8.8	18.0	10.0	10.8	1.0	0.1	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0			
Capitalization Costs	1.0	2.0	10.8	26.0	30.0	40.8	45.0	48.1	48.8	48.0	48.0	48.8	48.0	48.0	48.8	48.0	48.0	48.8	48.0	48.0	48.8	48.0	48.0	48.0		
D & M Costs	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.5	1.5	0.5	0.5	1.5	0.5	0.5	1.5	0.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	
Total Costs	1.0	2.0	8.8	18.0	10.0	10.8	1.0	0.5	1.5	0.5	0.5	1.5	0.5	0.5	1.5	0.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	
Revenues																										
Municipal Usage Qty (M m³)		1.0	0.0	0.8	1.0	0.0	0.8	1.0	4.4	4.7	5.0	5.3	5.4	5.6	5.8	5.9	6.1	6.3	6.4	6.6	6.7	6.9	7.0			
Municipal Tariif (JD/m³)		0.147	1.147	1.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147		
Municipal Revenue (M JD)		1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.7	0.7	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	
Industrial Usage Qty (M m³)		1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.8	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	0.0	
Industrial Tariif (JD/m³)		1.001	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008		
Industrial Revenue (M JD)		1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.8	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	0.0	
Total Revenues (M JD)		1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.7	0.7	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	
Net Cash Flow (M JD)		1.0	-2.0	-8.8	-18.0	-10.0	-10.8	1.0	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
Discounting (D=6%)		0.9909	0.9945	0.75131	0.68301	0.62092	0.55647	0.51316	0.46921	0.43418	0.38554	0.35049	0.31863	0.28888	0.26333	0.23189	0.21784	0.19786	0.18051	0.14964	0.13813					
Total Qty Delivered (m³)		1.0	0.0	0.8	1.0	0.0	0.8	1.0	4.7	5.1	5.4	5.6	5.8	6.0	6.1	6.3	6.4	6.6	6.7	6.9	7.1	7.4				
Economic Analysis (\$D at 2000 Prices)																										
Item	Percent	Amount	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
Costs																										
Total Components	29%	9.6	1.0	0.4	1.6	1.0	2.0	2.8	1.6	0.1	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0		
Local Components	29%	3.4	1.0	1.6	6.4	1.0	0.8	4.4	0.1	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0			
Foreign Components	29%	35.4	1.0	0.2	0.8	1.0	0.0	0.8	1.0	0.1	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0		
Duty & Taxes	2%	0.3	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.1	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0		
Total Capital Costs	-48.3	1.0	2.0	8.8	18.0	10.0	10.8	1.0	0.1	1.1	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0			
Capitalization Costs	1.0	2.0	10.8	26.0	30.0	40.8	45.0	48.1	48.8	48.0	48.0	48.8	48.0	48.0	48.8	48.0	48.0	48.8	48.0	48.0	48.8	48.0	48.0			
D & M Costs	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.5	1.5	0.5	0.5	1.5	0.5	0.5	1.5	0.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	
Total Costs	1.0	2.0	8.8	18.0	10.0	10.8	1.0	0.5	1.5	0.5	0.5	1.5	0.5	0.5	1.5	0.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	
Revenues																										
Municipal Usage Qty (m³)		1.0	0.0	0.8	1.0	0.0	0.8	1.0	4.4	4.7	5.0	5.3	5.4													

Sales & Revenue System		Hydrology Analysis (M³/yr)																							
Item	Allocation	2010	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020			
Water Produced		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			
Municipal Water	1.00	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			
Physical Losses (%)		0.24	0.13	0.22	0.21	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15			
Physical Losses		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Administrative/Microbial Losses (%)		0.21	0.19	0.18	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05			
Administrative/Microbial Losses		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Quantity Delivered		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			
Quantity When Bills are Collected		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			
Total Water	0.00	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			
Physical Losses (%)		0.24	0.13	0.22	0.21	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15			
Physical Losses		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Administrative/Microbial Losses (%)		0.21	0.19	0.18	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05			
Administrative/Microbial Losses		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Quantity Delivered		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			
Quantity When Bills are Collected		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			
Financial Analysis (M JD at 2000 Prices)		Item	Percent	Amount	2010	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Costs																									
Local Components	28%	2.8	8.0	0.0	0.4	0.6	0.6	0.4	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			
Foreign Components	18%	1.8	8.0	0.0	0.4	0.6	0.6	0.4	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			
Duty & Taxes	8%	0.8	8.0	0.0	0.3	0.6	0.6	0.3	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			
Total Capital Costs	10%	1.0	8.0	0.0	0.2	0.6	0.6	0.3	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			
Operational Costs		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			
O & M Costs		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			
Total Costs		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			
Revenues																									
Municipal Usage Qty (M³/d)		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			
Municipal Tariff (JD/m³)		0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147			
Municipal Revenue (M JD)		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			
Industrial Usage Qty (M³/d)		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			
Industrial Tariff (JD/m³)		1.081	1.000	1.080	1.000	1.080	1.000	1.080	1.000	1.080	1.000	1.080	1.000	1.080	1.000	1.080	1.000	1.080	1.000	1.080	1.000	1.080			
Industrial Revenue (M JD)		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			
Total Revenues (M JD)		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			
Net Cash Flow (M JD)		8.0	0.0	0.0	-2.8	-1.0	-3.8	-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			
Decreasing (DR%)		0.9399	0.8345	0.7513	0.6203	0.5494	0.5116	0.4665	0.4240	0.3854	0.35049	0.3180	0.3096	0.26333	0.23979	0.21763	0.19784	0.17996	0.16051	0.14964	0.13551	0.12588			
Total Qty Delivered (m³)		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			
EBIT	ANNUAL																								
NPV (JD)	-5.1	8.0	0.0	-1.5	-2.0	-1.8	-1.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
PV of Total Costs (JD)	7.1	8.0	0.0	1.5	2.0	1.8	1.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
PV of Total Qty Delivered (m³)	5.4	8.0	0.0	0.8	0.0	0.8	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4			
Unit Water Price (JD/m³)	1.34	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			
Economic Analysis (JD at 2000 Prices)		Item	Percent	Amount	2010	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Costs																									
Local Components	28%	2.8	8.0	0.0	0.4	0.6	0.6	0.4	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			
Foreign Components	18%	1.8	8.0	0.0	0.4	0.6	0.6	0.4	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			
Duty & Taxes	8%	0.8	8.0	0.0	0.3	0.6	0.6	0.3	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			
Total Capital Costs	10%	1.0	8.0	0.0	0.2	0.6	0.6	0.3	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			
Operational Costs		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			
O & M Costs		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			
Total Costs		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			
Revenues																									
Municipal Usage Qty (m³/d)		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			
Municipal Tariff (JD/m³)		0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168			
Municipal Revenue (JD)		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			
Industrial Usage Qty (m³/d)		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			
Industrial Tariff (JD/m³)		2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740	2.740			
Industrial Revenue (JD)		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			
Total Benefit (JD)		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			
Net Cash Flow (JD)		8.0	0.0	-2.8	-1.0	-3.8	-1.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
Decreasing (DR%)		0.9399	0.8345	0.7513	0.6203	0.5494	0.5116	0.4665	0.4240	0.3854	0.35049	0.3180	0.3096	0.26333	0.23979	0.21763	0.19784	0.17996	0.16051	0.14964	0.13551	0.12588			
Total Qty Delivered (m³)		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			
EBIT	ANNUAL																								
NPV (JD)	-5.1	8.0	0.0	-1.5	-2.0</																				

Community Infrastructure Waterworks Project		Item	Allocated	Hydraulic Analysis (M m³/yr)																						
Year	Allocation			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028		
Water Produced		1.0	0.0	1.0	0.8	1.0	1.8	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
Municipal Water	1.00	1.0	0.0	1.0	0.8	1.0	1.8	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
Physical Loss (%)		1.24	0.23	0.22	0.21	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		
Physical Loss		1.0	0.0	1.0	0.8	1.0	0.2	1.2	0.2	1.2	0.2	1.2	0.2	1.2	0.2	1.2	0.2	1.2	0.2	1.2	0.2	1.2	0.2	1.2	0.2	
Administrative/Managerial Loss (%)		1.21	0.29	0.16	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
Administrative/Managerial Losses		1.0	0.0	1.0	0.8	1.0	0.1	1.1	0.1	1.1	0.1	1.1	0.1	1.1	0.1	1.1	0.1	1.1	0.1	1.1	0.1	1.1	0.1	1.1	0.1	
Quantity Delivered		1.0	0.0	1.0	0.8	1.0	0.9	1.5	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
Quantity Whose Bills are Collected		1.0	0.0	1.0	0.8	1.0	0.7	1.7	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
Industrial Water	1.00	1.0	0.0	1.0	0.8	1.0	0.8	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	
Physical Loss (%)		1.24	0.23	0.22	0.21	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		
Physical Loss		1.0	0.0	1.0	0.8	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	
Administrative/Managerial Loss (%)		1.21	0.29	0.16	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
Administrative/Managerial Losses		1.0	0.0	1.0	0.8	1.0	0.9	1.5	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
Quantity Delivered		1.0	0.0	1.0	0.8	1.0	0.7	1.7	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
Quantity Whose Bills are Collected		1.0	0.0	1.0	0.8	1.0	0.9	1.5	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
Financial Analysis (JD at 2000 Prices)		Item	Percent	Amount	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
Capital																										
Local Components	39%	20	1.0	0.4	1.6	0.6	1.4	0.8	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	
Foreign Components	39%	20	1.0	1.6	2.4	1.6	0.8	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	
Duty & Taxes	3%	0.0	1.0	0.0	1.0	0.8	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	
Total Capital Costs	100	1.0	20	1.0	3.1	2.0	0.8	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	
Operational Costs																										
O & M Costs																										
Total Costs																										
Revenue																										
Municipal Usage Qty (M m³)		1.0	0.0	1.0	0.8	1.0	0.7	1.7	0.9	1.6	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
Municipal Total Cost (JD/m³)		0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147		
Municipal Revenue (M JD)		1.0	0.0	1.0	0.8	1.0	0.7	1.7	0.9	1.6	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
Industrial Usage Qty (M m³)		1.0	0.0	1.0	0.8	1.0	0.7	1.7	0.9	1.6	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
Industrial Total Cost (JD/m³)		1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001		
Industrial Revenue (M JD)		1.0	0.0	1.0	0.8	1.0	0.7	1.7	0.9	1.6	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
Total Revenue (M JD)		1.0	0.0	1.0	0.8	1.0	0.7	1.7	0.9	1.6	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
Net Cash Flow (M JD)		-7.6	1.0	-1.3	-1.5	-2.1	-4.5	0.8	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	1.0	
Discounting (D/R=10%)		0.9399	0.88165	0.82785	0.77931	0.73288	0.68531	0.64351	0.60411	0.56735	0.53323	0.50121	0.46988	0.44012	0.41418	0.38883	0.36519	0.34281	0.32189	0.3024	0.28388	0.26488	0.25000	0.23515		
Total Qty Delivered4 (m³)		1.0	0.0	1.0	0.8	1.0	0.7	1.7	0.9	1.6	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
EBITDA		ABIV01																								
NPV (JD)		-5.6	1.0	-1.7	-2.3	-4.2	0.1	1.1	0.1	1.1	0.1	1.1	0.1	1.1	0.1	1.1	0.1	1.1	0.1	1.1	0.1	1.1	0.1	1.1	0.1	
PV of Total Costs (JD)		7.8	1.0	1.7	1.3	2.1	1.2	0.1	1.1	0.9	1.0	0.8	1.0	0.8	1.0	0.8	1.0	0.8	1.0	0.8	1.0	0.8	1.0	0.8	1.0	
PV of Total Qty Delivered (m³)		5.9	1.0	0.0	1.0	0.8	1.0	0.5	1.4	0.4	1.4	0.4	1.4	0.4	1.4	0.4	1.4	0.4	1.4	0.4	1.4	0.4	1.4	0.4	1.4	
User Water Price (JD/m³)		1,220																								

The Study on Water Resources Management of The Hashemite Kingdom of Jordan
Final Report/Supporting Report Part-A "Master Plan"

Jordan Valley Sanitation - North Branch		Hydraulic Analysis (M^3/day)																					
Year	Allocation	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Water Produced		0.0	0.0	0.8	0.8	0.8	0.8	0.0	0.0	5.8	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1		
Municipal Water	1.00	0.0	0.0	0.8	0.8	0.8	0.8	0.0	0.0	3.8	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1		
Physical Losses (%)	0.24	0.21	0.22	0.21	0.22	0.20	0.19	0.18	0.17	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		
Physical Losses	0.0	0.0	0.8	0.8	0.8	0.8	0.8	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		
Administrative/Managerial Losses (%)	0.21	0.19	0.18	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
Administrative/Managerial Losses	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Quality Delivered	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.0	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.5		
Quality Whose Bills are Collected	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.0	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5		
Industrial Water	0.00	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8		
Physical Losses (%)	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		
Physical Losses	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8		
Administrative/Managerial Losses (%)	0.21	0.19	0.18	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
Administrative/Managerial Losses	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8		
Quality Delivered	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8		
Quality Whose Bills are Collected	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8		
Financial Analysis (M JD at 2000 Prices)																							
Item	Percent	Amount	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Costs																							
Local Components	20%	€0	0.0	0.0	0.8	0.8	0.8	0.8	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		
Foreign Components	80%	€0	0.0	0.0	0.8	0.8	0.8	0.8	0.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
Duty & Taxes	0%	€0	0.0	0.0	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8		
Total Capital Costs	38.0	€0	0.0	0.0	0.8	0.8	0.8	0.8	0.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
Construction Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	15.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0		
O&M Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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 Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Revenues																							
Municipal Usage Qtr (M m³)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5		
Municipal Tariff (JD/m³)	0.347	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147		
Municipal Revenues (M JD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Industrial Usage Qtr (M m³)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Industrial Tariff (JD/m³)	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
Industrial Revenues (M JD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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 Revenues (M JD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Cash Flow (JD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.0	-10.0	-10.0	-5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Decreasing (D=10%)	1.9089	€82645	0.75131	0.68301	0.62092	0.56447	0.51316	0.46651	0.42410	0.38554	0.35944	0.31863	0.29666	0.26133	0.23339	0.20793	0.18784	0.17956	0.16851	0.14864	0.13513		
Total Qty Whose Bills are Collected4 (M m³)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5		
EIRR	-2%																						
NPV (M JD)	-17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.6	-4.4	-4.0	-2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PV of Total Costs (M JD)	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	6.4	6.0	2.8	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
PV of Total Qty Delivered (M m³)	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1		
Unit Water Price (JD/m³)	1,236																						
Economic Analysis (JD at 2000 Prices)																							
Item	Percent	Amount	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Costs																							
Local Components	20%	€0	0.0	0.0	0.8	0.8	0.8	0.8	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		
Foreign Components	80%	€0	0.0	0.0	0.8	0.8	0.8	0.8	0.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
Duty & Taxes	0%	€0	0.0	0.0	0.8	0.8	0.8	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		
Total Capital Costs	38.0	€0	0.0	0.0	0.8	0.8	0.8	0.8	0.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
Construction Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	15.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0		
O&M Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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 Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Revenues																							
Municipal Usage Qtr (M m³)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5		
Municipal Tariff (JD/m³)	0.348	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148		
Municipal Revenues (M JD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Industrial Usage Qtr (M m³)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Industrial Tariff (JD/m³)	1.008	1.000	1.000	1.000	1.000																		