

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

Wadi Shabka (Tariq-10 Basin) Hydraulic Analysis (m³/yr)		Year	Allocation	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Water Produced	Industrial Water			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Industrial Water	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Physical Losses (%)	0.24	0.25	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		
Physical Losses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Administrative/Managerial Losses (%)	0.21	0.19	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		
Administrative/Managerial Losses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Quantity Delivered	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Quantity Where Bills are Collected	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Impacted Water	1.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Physical Losses (%)	0.24	0.25	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		
Physical Losses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Administrative/Managerial Losses (%)	0.21	0.19	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		
Administrative/Managerial Losses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Quantity Delivered	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Quantity Where Bills are Collected	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Financial Analysis (JD at 2000 Prices)		Year	Period	Amount	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Costs																	
Local Components	5%	574,480	0	0	0	0	0	0	0	0	0	0	0	0	0	12,485	
Foreign Components	41%	392,534	0	0	0	0	0	0	0	0	0	0	0	0	0	65,207	
Days & Taxes	5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Capital Costs	367,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73,642	
Overhead Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
O & M Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45,305	
Total Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45,305	
Revenues																	
Industrial Usage Qty (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Industrial Theft (JD/m³)	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 Revenue (JD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Impacted Usage Qty (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Impacted Revenue (JD/m³)	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
Impacted Revenue (JD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Revenue (JD)	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	
Discounting (JD=0.9%)	0.33397	0.333166	0.32785	0.327753	0.327388	0.326533	0.326401	0.326425	0.326535	0.326521	0.326512	0.326511	0.326508	0.326506	0.326504	0.326503	
Total Qty Where Bills are Collected (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Economic Analysis (JD at 2000 Prices)																	
Costs		Period	Amount	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Local Components	5%	574,480	0	0	0	0	0	0	0	0	0	0	0	0	0	12,485	
Foreign Components	41%	392,534	0	0	0	0	0	0	0	0	0	0	0	0	0	65,207	
Days & Taxes	5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Capital Costs	367,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73,642	
Overhead Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
O & M Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45,305	
Total Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45,305	
Benefits																	
Industrial Usage Qty (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unit Benefit of Industrial Water (JD/m³)	2.748	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 Benefits (JD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Impacted Usage Qty (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Impacted Benefit (JD/m³)	0.3342	0.3342	0.3342	0.3342	0.3342	0.3342	0.3342	0.3342	0.3342	0.3342	0.3342	0.3342	0.3342	0.3342	0.3342	0.3342	
Impacted Benefit (JD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Benefits (JD)	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	
Discounting (JD=0.9%)	0.33398	0.33345	0.32731	0.32630	0.32692	0.32647	0.32618	0.32654	0.32651	0.32650	0.32650	0.32650	0.32650	0.32650	0.32650	0.32650	
Total Qty Delivered (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EIR																	
HPV (JD)	2425,811	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PV of Total Costs (JD)	684,228	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,052	
PV of Total Qty Delivered (JD)	2197,848	0	0	0	0	0	0	0	0	0	0	0	0	0	0	603,322	
Unit Water Price (Flask)²	31																

Water Statistics (Part II-38 Pages)		
Hydrologic Analysis (m³/yr)		
Item	Allocation	
Water Produced	0	
Industrial Water	0.00	
Physical Losses (%)	0.24	
Physical Loss	0.0	
Administrative/Managerial Losses (%)	0.21	
Administrative/Managerial Loss	0.0	
Quality Delivered	0.0	
Quality Water Bills are Collected	0.0	
Irrigation Water	1.00	
Physical Losses (%)	0.24	
Physical Loss	0.0	
Administrative/Managerial Losses (%)	0.21	
Administrative/Managerial Loss	0.0	
Quality Delivered	0.0	
Quality Water Bills are Collected	0.0	
Financial Analysis (JD at 2000 Prices)		
Item	Percent	Amount
Total		
Local Components	59%	574,486
Foreign Components	41%	382,574
Duty & Taxes	8%	0
Total Capital Costs	567,078	
Operational Costs	1%	0
D & M Costs	1%	0
Total Costs	567,078	
Revenue		
Industrial Usage Qty (m³)	0	0
Industrial Tariff (JD/m³)	1,000	1,000
Industrial Revenue (JD)	0	0
Irrigation Usage Qty (m³)	0	0
Irrigation Tariff (JD/m³)	0.025	0.025
Irrigation Revenue (JD)	0	0
Net Revenue (JD)	0	0
Net Cash Flow (JD)	0	0
Discounting (D/R=9%)	6,903.07	0.0816
Total Qty Whose Bills are Collected (m³)	0	0
Fees		
HPV (JD)	12%	371,338
PV of Total Costs (JD)	91,551	0
PV of Total Bills Collected (JD)	24,864,798	0
Unit Water Price (JD/m³)	27	
Economic Analysis (JD at 2000 Prices)		
Item	Percent	Amount
Total		
Local Components	59%	574,486
Foreign Components	41%	382,574
Duty & Taxes	8%	0
Total Capital Costs	567,078	
Operational Costs	1%	0
D & M Costs	1%	0
Total Costs	567,078	
Benefit		
Industrial Usage Qty (m³)	0	0
Unit Benefits of Industrial Water (JD/m³)	2,740	2,740
Industrial Bills (JD)	0	0
Irrigation Usage Qty (m³)	0	0
Unit Benefits of Irrigation Water (JD/m³)	0.142	0.142
Irrigation Benefits (JD)	0	0
Total Benefits (JD)	0	0
Net Cash Flow (JD)	0	0
Discounting (D/R=9%)	8,980.09	0.02645
Total Qty Delivered (m³)	0	0
Fees		
HPV (JD)	62%	2,455,111
PV of Total Costs (JD)	684,220	0
PV of Total Qty Delivered (JD)	21,077,640	0
Unit Water Price (JD/m³)	31	

Master, Metro, Ammanita (Tariq-10 Basin) ³																										
Hydrology Analysis (m³/yr)																										
Item	Allocation	2008	2009	2010	2011	2012	2013	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Industrial Water	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.21	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	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	0.0	0.0	0.0	0.0	
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	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	0.0	0.0	0.0	0.0	
Quality 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	0.0	0.0	0.0	0.0	
Quality Water 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	0.0	0.0	0.0	0.0	
Injection Water	1.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.22	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	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	0.0	0.0	0.0	0.0	
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	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	0.0	0.0	0.0	0.0	
Quality 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	0.0	0.0	0.0	0.0	
Quality Water 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	0.0	0.0	0.0	0.0	
Financial Analysis (JD at 2000 Prices)																										
Item	Period	Amount	2008	2009	2010	2011	2012	2013	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Cards																										
Total Components	98%	214,708	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	1%	22,332	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	0%	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	257,040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Capital Cards	0	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	0	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	
Reserves																										
Industrial Usage Qty (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	
Industrial Tariff (JD/m³)	1,000	1,000	3,068	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	1,000		
Industrial Revenue (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	
Injection Usage Qty (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	
Injection Tariff (JD/m³)	0.012	0.010	0.010	0.018	0.018	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010		
Injection Revenue (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	
Total Revenue (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	
Net Cash Flow (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	
Discounting (DR=10%)	3,0000	0.03645	0.75131	0.68311	0.62002	0.56847	0.51316	0.46651	0.42410	0.38554	0.35840	0.31863	0.30868	0.30633	0.29399	0.27627	0.25474	0.23466	0.21611	0.20219	0.18784	0.17964	0.16351	0.14564	0.13515	
Total Qty Delivered (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	
EIRR	36%																									
NPV (JD)	233,516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PV of Total Costs (JD)	144,277	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PV of Total Qty Delivered (m³)	323,489	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unit Water Price (Rials) ²	48																									

The Study on Water Resources Management in The Hashemite Kingdom of Jordan

Final Report/Supporting Report Part-A "Master Plan"

Master, Metu, Aduwya (Earth-S8 Flsm²)		Hydrolic Analysis (ml/yr)																					
Item	Attributes	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	54,374	566,208	583,245	601,360	630,493	676,725	714,957	753,180	791,423	825,279	858,135	881,991	906,848		
Industrial Water	0.80	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	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	0.21	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	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
Administration/Managerial Losses (%)	0.21	0.19	0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Administration/Managerial Losses	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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 Where Bills are Collected	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
Irrigation Water	1.80	0	0	0	0	0	0	0	549,274	568,268	583,285	600,286	639,482	676,725	714,957	753,180	791,423	825,279	859,135	881,991	906,848		
Physical Losses (%)	0.24	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	
Physical Losses	0.8	0	0	0	0	0	0	0	58,859	58,286	58,722	58,039	59,724	61,523	63,707	64,244	61,078	62,792	63,949	64,007	64,196		
Administration/Managerial Losses (%)	0.21	0.19	0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Administration/Managerial Losses	0.8	0	0	0	0	0	0	0	45,940	58,838	54,890	30,015	51,203	33,838	35,748	37,099	39,571	41,264	42,357	44,650	44,942	45,835	
Quality Delivered	0	0	0	0	0	0	0	0	450,404	470,000	485,542	510,221	542,719	575,216	607,714	641,821	672,709	701,497	733,185	759,043	787,533		
Quality Where Bills are Collected	0	0	0	0	0	0	0	0	486,462	488,364	484,346	480,208	518,784	541,380	571,966	613,552	613,186	668,223	687,388	714,379	785,503		
Financial 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
Cost																							
Local Components	90%	214,708	0	0	0	0	0	0	190,228	0	0	0	0	0	0	0	0	0	0	0	0	0	64,468
Foreign Components	10%	22,932	0	0	0	0	0	0	22,932	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Duty & Taxes	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			217,640	0	0	0	0	0	175,160	0	0	0	0	0	0	0	0	0	0	0	0	0	64,468
Construction Costs			0	0	0	0	0	0	175,160	173,168	173,180	173,160	173,160	173,180	173,160	173,180	173,160	173,180	173,180	173,180	173,160		
O & M Costs			0	0	0	0	0	0	0	8,714	9,314	9,714	9,314	9,714	9,314	9,714	9,314	9,714	9,314	9,714	9,314	9,714	
Total Costs			0	0	0	0	0	0	175,160	0	0	0	0	0	0	0	0	0	0	0	0	0	
Revenue																							
Industrial Usage Qty (m³)			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)			1,000	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 Revenue (JD)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Irrigation Usage Qty (m³)			0	0	0	0	0	0	0	486,462	488,364	484,346	480,208	518,784	541,380	571,966	613,552	613,186	668,223	687,388	714,379	785,503	
Irrigation Tariff (JD/m³)			0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	
Irrigation Revenue (JD)			0	0	0	0	0	0	0	15,446	16,254	17,288	15,446	16,254	17,288	15,446	16,254	17,288	21,725	22,297	24,859	25,008	
Total Revenue (JD)			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	-173,160	5,752	6,448	7,154	8,254	8,984	10,036	11,183	12,221	13,268	14,345	15,424	16,494		
Debitoring (JD-10%)			0.9000	0.9045	0.79131	0.6931	0.62692	0.56447	0.5136	84,651	0.4248	0.3654	0.3046	0.2439	0.1833	0.1239	0.0639	0.0164	0.0786	0.1651	0.3464	0.5313	
Total Qty Delivered (m³)			0	0	0	0	0	0	0	450,404	470,000	485,542	510,221	542,719	575,216	607,714	641,821	672,709	701,497	733,185	766,043		
RIBB			386																				
HPV (JD)			205,534	0	0	0	0	0	-48,858	25,200	24,005	22,803	21,600	21,204	20,765	20,006	19,581	18,932	17,716	16,333	15,975	15,124	
PV of Total Costs (JD)			144,271	0	0	0	0	0	88,858	4,533	4,130	3,745	3,465	3,095	2,814	2,205	1,714	1,322	1,243	1,182	1,144	10,008	
PV of Total Qty Delivered (m³)			1,937,489	0	0	0	0	0	318,117	193,337	188,094	178,039	173,307	165,028	161,000	155,351	146,401	135,315	124,118	117,104	110,347		
Unit Water Price (JD/m³)			48																				

Dead Sea East Coast (Tessell 10 Flows)		Hydrolic Analysis (m³/yr)																							
Item	Allocation	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020			
Water Produced	1,000	0	0	0	0	0	0	0	0	501,595	500,486	500,272	500,068	499,846	499,635	499,422	499,208	498,994	498,780	498,566	498,352	498,138			
Industrial Water	0.00	0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0			
Physical Losses (%)	0.24	0.23	0.22	0.21	0.21	0.20	0.19	0.18	0.17	8.16	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15			
Physical Losses		0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0	8.0		
Administrative/Managerial Losses (%)	0.21	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.07	8.06	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05		
Administrative/Managerial Losses		0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0	8.0		
Quality Delivered		0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0	8.0		
Quality Water Bills are Collected		0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0	8.0		
Irrigation Water	1,000	0	0	0	0	0	0	0	0	500,595	500,486	500,272	500,068	499,846	499,635	499,422	499,208	498,994	498,780	498,566	498,352	498,138	498,138		
Physical Losses (%)	0.24	0.23	0.22	0.21	0.21	0.20	0.19	0.18	0.17	8.16	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15		
Physical Losses		0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0	8.0		
Administrative/Managerial Losses (%)	0.21	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.07	8.06	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05		
Administrative/Managerial Losses		0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0	8.0		
Quantity Delivered		0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0	8.0		
Quality Water Bills are Collected		0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0	8.0		
Irrigation Water	1,000	0	0	0	0	0	0	0	0	300,783	300,674	300,565	300,456	300,347	300,238	300,129	300,020	299,911	299,802	299,693	299,584	299,475	299,366		
Physical Losses (%)	0.24	0.23	0.22	0.21	0.21	0.20	0.19	0.18	0.17	8.16	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15		
Physical Losses		0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0	8.0		
Administrative/Managerial Losses (%)	0.21	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.07	8.06	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05		
Administrative/Managerial Losses		0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0	8.0		
Quantity Delivered		0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0	8.0		
Quality Water Bills are Collected		0.8	0.8	0.8	0.8	0.8	0.0	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	8.0	8.0	8.0		
Financial Analysis (JD at 2000 Prices)																									
Item	Percent	Annuity	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		
Gross																									
Local Components	44%	230,594	0	0	0	0	0	0	0	161,593	160,486	160,272	160,068	159,846	159,635	159,422	159,208	158,994	158,780	158,566	158,352	158,138	157,920		
Foreign Components	56%	232,796	0	0	0	0	0	0	0	158,196	158,089	157,981	157,873	157,765	157,657	157,549	157,442	157,334	157,226	157,118	157,010	156,902	156,794		
Duty & Taxes	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		533,388	0	0	0	0	0	0	0	328,783	328,674	328,565	328,456	328,347	328,238	328,129	328,020	327,911	327,802	327,693	327,584	327,475	327,366		
Convertible Costs		0	0	0	0	0	0	0	0	328,783	328,674	328,565	328,456	328,347	328,238	328,129	328,020	327,911	327,802	327,693	327,584	327,475	327,366		
O & M Costs		0	0	0	0	0	0	0	0	21,719	21,719	21,719	21,719	21,719	21,719	21,719	21,719	21,719	21,719	21,719	21,719	21,719	21,719		
Total Costs		0	0	0	0	0	0	0	0	328,783	328,674	328,565	328,456	328,347	328,238	328,129	328,020	327,911	327,802	327,693	327,584	327,475	327,366		
Borrowings																									
Internal Usage (m³)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Internal Benefit (JD/m³)		1,006	1,010	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	
Internal Benefits		1,006	1,010	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	1,009	
Internal Usage (m³)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Irrigation Usage (m³)		0	0	0	0	0	0	0	0	395,852	395,842	395,832	395,822	395,812	395,802	395,792	395,782	395,772	395,762	395,752	395,742	395,732	395,722		
Irrigation Losses (JD/m³)		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
Irrigation Revenues (JD)		0	0	0	0	0	0	0	0	3,957	4,000	4,050	4,100	4,142	4,142	4,142	4,142	4,142	4,142	4,142	4,142	4,142	4,142	4,142	
Tint Revenues (JD)		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	-320,785	-317,685	-314,585	-311,485	-308,385	-305,285	-302,185	-298,085	-294,985	-291,885	-288,785	-285,685	-282,585	-279,485		
Discounting (JD=10%)		0.80908	0.81045	0.75121	0.68381	0.62592	0.56447	0.51316	0.46851	0.43410	0.40554	0.38049	0.35923	0.33904	0.32033	0.30308	0.28696	0.27332	0.26078	0.24831	0.23694	0.22567	0.21534	0.20511	
Net Total (JD)		240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	240,664	
Present Value of Total Costs (JD)		240,664	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PV of Total Qty Delivered (m³)		1,193,380	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PV of Unit Water Price (JD/m³)		86																							

Item	Percent	Annuity	2010	2011	2012	2013	2014	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Gross																								
Local Components	44%	230,594	0	0	0	0	0	0	0	161,593	160,486	160,272	160,068	159,846	159,635	159,422	159,208	158,994	158,780	1				