

Assignment Name: Damani Water Supply: Water Treatment Works Upgrade		ID#: 5
Country: South Africa Location within Country: Polokwane	Approx. value of the contract: US\$ 0.7 million.	
Name of Client: Department of Water Affairs and Forestry	your firm under the contract: US\$ 100,000.	
Address:	Total No. of staff assigned to the project: 8	
Start date (month/year): 01-01-1998	Total No. of staff months: 8	
End date (month/year): 15-12-2001	Duration of assignment (months): 36	
Narrative description of Project: Design and Construction supervision for the upgrade of a 4MI water treatment works to an 8 MI/day works by adding a third pump set to increase the raw water capacity		
Description of actual services provided by professional engineering staff within assignment: Project Manager and Process Design lead for the repairs and commissioning to a conventional RGF water treatment system. Project scope included investigations into the causes for the failure of the base slab in the reinforced concrete RGF chambers. Mitigation measures included the design and installation of post-construction methods for dealing with seasonally elevated Fe/Mn levels in the raw water, caused by the temperature inversion of the lake water at the winter/summer change over. The Tender Package included a Design Report, Tender drawings and Contract document and construction monitoring.		
Description of Activities provided by RWI Project manager for the investigation and technical lead for the mitigation measures required to correct for the elevated Fe/Mn levels. Co-ordinated the preparation and finalization of the procurement package.		

