

Assignment Name : Aberdeen Wastewater Project		Country : United Kingdom	Sheet No:
Location within Country : Aberdeen, Peterhead, Persley, Fraserburgh		No. of Staff : 2	
Name and address of Client : Kelda Water Services and Canadian Imperial Bank of Commerce (CIBC): Mr Stephen MacPherson, General Manager AES, Aberdeen Environmental Services Limited Edinburgh Quay, 133 Fountainbridge, Edinburgh, Midlothian, EH3 9AG. United Kingdom.		No. of Staff Months : 20	
Project funding: Private Finance Initiative (PFI-BOT)		Overall Project value : €120 million (capital) €460 million total.	
Start Date : 2005	Completion Date : On-going	Approx. Value of Services : €350,000 (on-going)	
Names of Associated Firms : Ove Arup International Limited		No. of Staff Months : 5	
Name of Senior Staff involved and functions performed : Philip Sharp – Lenders Technical Adviser. Keith Padbury – M&E Expert.			
Narrative Description of Project: <p>Technical Adviser and Monitoring Engineer on behalf of lending banks for large PFI Wastewater Treatment Project in Scotland, UK. The Main Project was carried out under the Urban Waste Water Treatment Directive to provide collection and treatment to the city of Aberdeen and Persley and the surrounding towns of Peterhead and Fraserburgh on the north-east coast of Scotland on behalf of Scottish Water. The scheme consists of five individual WWWTs including sludge de-watering plants, pumping stations and pumping mains. The total treatment capacity is equivalent to 400,000pe and final effluent is discharged into the North Sea through long and short sea outfalls.</p> <p>The Nigg Plant treats the sewage from a population of about 250,000pe and imported raw sludge from the remainder of the Grampian Region. It includes advanced wastewater treatment using lamella and chemical settlement and BAFF biological secondary stage. It also includes a CAMBI thermal hydrolysis sludge treatment process and Anaerobic Digestion with 48 tonnes dry solids per day treatment capacity. Bio gas in the on-site CHP produces net energy production of some 1MW of electricity.</p> <p>The LTA audits the operational processes and assets on a quarterly basis and examines the Financial Model to ensure compliance with the Asset Replacement Strategy and Loan Agreement. Comments on discharge consent and other environmental compliance and operating practices of the O&M Company. He also provides ad-hoc technical advice to the Agent (Technical) Bank and a quarterly Technical Monitoring Report for the Lenders.</p>			