

Areas of Expertise

WATER RESOURCE MANAGEMENT

- Water resource assessment & surveys, preparation of water development plans
- Resource monitoring systems covering data collection, quality control and databases
- Policy formulation, interpretation, & communication

Sample Projects

- ◆ Hydrological Impact Assessment, Likii River Farm
- ◆ Water Development Plan, Kangaita Farm
- ◆ Lake Naivasha Water Management Programme, Water Status Report 2002, LNGG
- ◆ River Water Users Association – Ngare Nyting/Sirgon, Burguret

SURVEYING & MAPPING

- Topographical & infrastructure surveys
- Resource Mapping & Analysis

Sample Projects

- ◆ Water Source Assessment & Mapping Project, Mandera, Moyale, Wajir Districts, Oxfam Quebec
- ◆ 250ha Farm Survey, Vitacress



WATER STORAGE

- Dams and pans, including reservoir simulation for performance prediction, development of release rules, desilting mechanisms
- Sand Dams
- Tanks (Ferro cement, masonry, rubble stone) and Groundwater tanks

Sample Projects

- ◆ Bryn Dam, 6m Earth Embankment Dam, Design & Construction Supervision, Ol Donyo
- ◆ Assessment of 18 dams & pans, Mandera District
- ◆ Construction Supervision of 450x6m³ Ferro Cement Tanks

CIVIL WORKS

- Design & Supervision for Offices, and Residential & Commercial Buildings

Sample Projects

- ◆ Pack-house, Design & Construction Supervision, Kangaita Farm
- ◆ Greenhouse Earthworks & Roads, Batian Flower Farm
- ◆ Dairy Factory, Batian Dairy Ltd.
- ◆ Drought Management Offices, Isiolo & Maralal, DPIRP



WATER TREATMENT

- Water treatment for private and public institutions

Sample Projects

- ◆ Rehabilitation of Water Treatment Plant, Design & Construction Supervision, Chogoria Hospital

BOREHOLES

- Siting, Drilling Contracts, Drilling Supervision
- Servicing & Maintenance Systems

Sample Projects

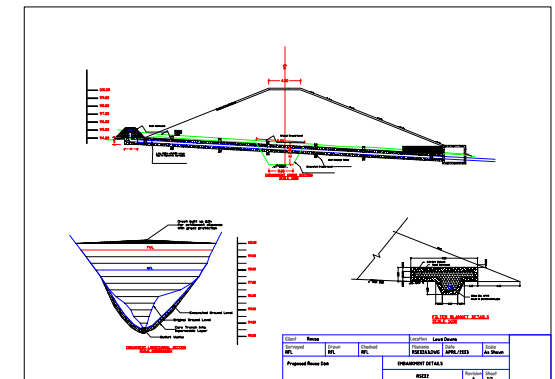
- ◆ Mugie groundwater surveys, drilling supervision - Mugie Ranch, Laikipia
- ◆ Rehabilitation of boreholes in Mandera (8) & Garissa Districts (6), USAID

WASTE WATER & SEWERAGE

- Stormwater, wastewater and sewerage disposal & treatment for private & public institutions and peri-urban conditions

Sample Projects

- ◆ Stormwater System & Public Sanitation Facilities, Laini Saba, Kiberia. Maji Na Ufanisi



WATER SUPPLIES

- Design of water supply systems, covering intakes, pipelines, furrows, pumping systems (wind, electric, fuel, solar), distribution systems, and storage Tanks
- Rainwater Harvesting Systems

Sample Projects

- ◆ Gravity-fed water projects: Mutitu (Nyeri), Kathita-Kiirua (Meru Central) & Mbaranga (Meru North)- European Union

IRRIGATION

- Sprinkler Systems (micro, overhead) for community projects
- Drip System Design using Model maker

Sample Projects

- ◆ Mutunyi Irrigation Project, Design & Construction Supervision, CDTF
- ◆ Irrigation Design, 120 ha, Delmonte



Equipment

SURVEYS

- GPS Receivers, Total Station, Dumpy Levels, Theodolites

DRAWINGS & MAPS

- Autocad/Intellicad Workstation
- Chief Architect Workstation
- GIS Workstation (ArcView)
- Modelmaker DTM

WATER QUALITY & MATERIALS TESTING

- Paqualab 50 WQ Testing Lab
- Complete lab for compaction tests

Human Resources

- Licensed engineer (Dams, Irrigation, Water Supplies, Water Disposal)
- Civil, Environmental & Agricultural Engineers
- Construction Supervisors
- Surveyors & GIS specialists
- Visual Basic & Database Programmers

The Technical Staff are supported by the Rural Focus Water Supply Management staff.



ENGINEERING SERVICES



Services based on a philosophy of professional integrity, good governance, innovation and sustainable resource use

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