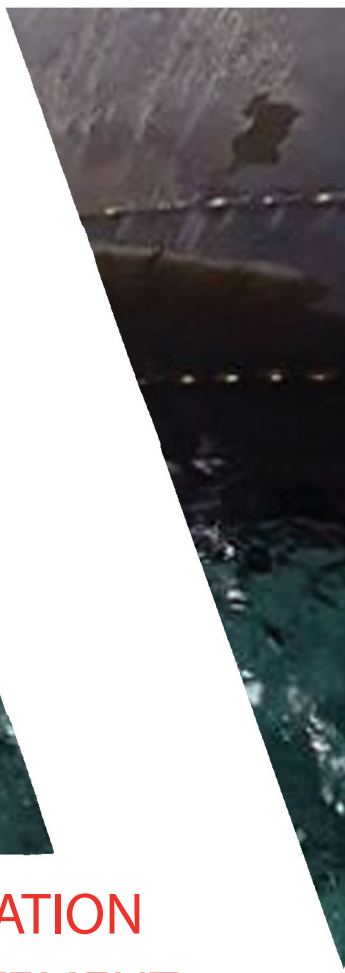
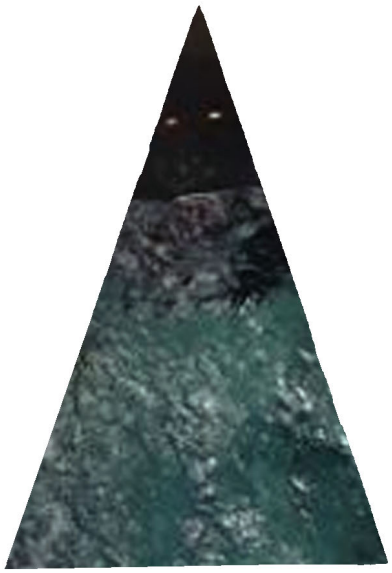
Kramer Ausenco

PAPUA NEW GUINEA | FIJI | SAMOA | SOLOMON ISLANDS | TONGA | VANUATU | AUSTRALIA

with over 40 Years of Engineering Excellence





WATER & SANITATION CAPABILITY STATEMENT

South Pacific Engineering Design Leaders

Who we are

Kramer Ausenco previously known as Cameron McNamara Kramer Pty Ltd, Kinhill Kramer Pty Ltd and Kramer Group, is the largest independent professional project management, architecture, engineering, survey, quantity surveying, construction management and planning services organisation resident within the Southern Pacific Region. Originally founded in 1978, Kramer Ausenco still remains as the leading engineering and project management firm in the South-West Pacific. We have offices in the following countries...

What we do

- Professional Project Management
- Procurement & Planning
- Civil Engineering
- Structural Engineering
- Building Services Engineering
- Hydraulic Engineering
- Maritime & Ports
- Quantity Surveying/ Cost Planning
- Architectural Design Services
- Surveying
- Construction Management
- Studies
- CAD Services (Revit, AutoCAD)

Images: Tanna Schools Re-Build and New Schools Project, Opening Ceremony Dance at Imaki village, Tanna. Ownership of both images remain with JICA.

Our vision

Kramer Ausenco is devoted to the development of excellence in professional engineering and allied sciences, and we are also truly committed to the development of the South Pacific Region. Our successful record attests to our achievements of our corporate goals and the high level of professional service provided to our clients.

Our people

Our achievements are driven by our experienced leaders and highly talented people in our company. The way that we care for, develop and encourage our people is an important part of each of our cultures. Our approach to delivering projects is complementary and this means that we are able to put together the best people to form a tailored project team to deliver any project.

Our values

Our core values guide the way that we work every day. These core values also represent our commitment to our clients and ensure that we focus on providing the best fit sustainable solution which meets the needs of all stakeholders.

Our Water and Sanitation Capabilities

From our experienced specialists we can deliver a full range of services for our customers. Should they be from a remote village with limited water to use or from an industrial site in town.

•Technical Audits: We can identify the issues related to the water supply systems such as pipe reticulation, reservoirs, pump station as well as water treatment plant. Poor performance of water assets can very often lead to excessive costs, public complaints or pollutions.

• Feasibility Study: Understanding the needs from local stakeholders and propose options based on technical, financial or social aspects will enable to choose the best solution for the short term or long term future.

• Detail Design of Water Systems: We can provide assistance from our skilled engineers from various disciplines such as Civil, Mechanical, Electrical and dedicated Water specialists to design complex yet robust solutions.

• Capacity Building: As water requires very unique technical skills, we can assess the local team performance and propose tailored training to improve their performance and hence the entire water operation.

• Installation Compliance Inspections: From initial tender management to construction completion and commissioning, our local team will ensure the installation will comply with the design and expected performance.

• Wastewater Treatment Plant: We can design simple and robust wastewater treatment plants that will comply with very specific conditions and requirements (low cost, invisible, odour control, flood prone, etc.). Our approach is to optimise and simplify.

• Public Awareness and Social Impacts: Wastewater in often sources of pollution and hygiene impacts on the public and on the environment. Our environmental and social specialists can establish baseline surveys and improvement programs working closely with communities and civil society.

Port Vila Central Market Sanitation Project

Port Vila, Vanuatu

Public Works Department

The Port Vila Central Market Sanitation infrastructure upgrade project is an initiative undertaken by the Australian High Commission as part of the Cyclone PAM recovery Program. The project was under the supervision of Public Works Department. The existing water supply and sewerage infrastructure consisting of septic tanks was outdated and poorly performing resulting in contamination of the food court and pollution of the seafront. Highly popular the Central Market is the heart of Port Vila and many families and businesses gather at this place all year along. Many technical challenges were encountered during the project as the sewerage treatment plant is located directly along the market with heavy constraints of flood / king tides, odour control, visual impacts and low maintenance requirements. The construction also took place with the market still in operation with minimal interruptions.

Responsibilities: Design and Documentation, Technical Advise, Project Management (Construction Phase) Construction Monitoring and Coordination.

Kiunga Water Supply and Sewerage

Kiunga, Papua New Guinea

Ok Tedi Development Foundation

The Kiunga Water Supply and Sewerage infrastructure upgrade project is an initiative undertaken by the OK Tedi Development Foundation (OTDF). The current water supply and sewerage infrastructure was built over 30 years ago during the construction of the Kiunga Township as part of the OK Tedi Mine development. Kiunga now serves as the central commercial centre of Western Province, and bringing the current water supply and sewerage infrastructure up to "good condition" is crucial for the continuity of Kiunga Township.

Kramer Ausenco was engaged to provide technical support, construction coordination and monitoring, and project management services during construction stage of the Project.

EOS Water Resources

Southern Highlands, Papua New Guinea

EOS JV

The main objective of this study was to determine and evaluate the available fresh water sources in the project area and to develop a plan for the provision of potable water to satisfy construction requirements. The hydrology and water resources survey determined the natural condition of potential water supply sources for the proposed drilling and construction camp sites in Moro, Hides and Gobe in the Southern Highlands Province and Kopi in the Kikori District of the Gulf Province of Papua New Guinea.

•Review, analyse and compile relevant information relating to the project area based on previous published surveys and existing data from ongoing monitoring.
•Undertake field work and baseline sampling including water source surveys
•Data analysis
•Producing a Water Source Study and Water Budget Report
•Liaise with DEC regarding Water Extraction and Waste Water Discharge Permits.

Responsibilities: Hydraulic Engineers.

Goroka Water Supply

Eastern Highlands, Papua New Guinea

JICA/PCI

Kramer Ausenco was commissioned to provide geotechnical inputs in the supply of clean fresh water to the urban centres of the Eastern Highlands Province in Papua New Guinea. This project was initiated to develop a new water purification plant. Topographic survey and geological investigation were carried out in the area. We ensure that our work and feedback meet international standards.

Responsibilities: Structural Engineers, Civil Engineers, Geologists and Supervising Technicians.

Paiam Township

Enga Province, Papua New Guinea

Pogera Development Authority

This project was for Paiam Management Company and was funded by the Porgera Joint Venture Mine Company through the tax credit scheme. The project included design of civil and hydraulics services and Kramer Ausenco was involved in the construction management contract which included the hire of all the plant and labour together with the procurement of all materials on behalf of the client for the project and supervision of the project. It included the sealing of the township roads, drainage system, water and sewerage reticulation and treatment systems. All supervision and contract administration were carried out by the Kramer Ausenco staff, which was set up on site as a fully manned office.

Responsibilities: Project Managers, Structural Engineers, Civil Engineers, Hydraulics Engineers, Mechanical Engineers, Electrical Engineers and In-country logistical support.

Lihir Islands Project Township

New Ireland Province, Papua New Guinea

Rio Tinto

Complete township to serve the Lihir Gold Project, New Ireland Province. Facilities included: Shopping Centre, Post Office, Recreational club, Sporting Facilities, detached housing for married staff and single quarter accommodation for unmarried staff. Water supply and sewerage treatment to be constructed. The town is to accommodate 3,000 people. The project included the town planning and design of the water supply, reticulation of water and sewerage system and sewerage treatment. Design of access road to the mine with bridge and drainage structures included.

Responsibilities: Hydraulics Engineers, Mechanical Engineers, Electrical Engineers and In-country logistical support.

Bomana Police Housing Development

Southern Highlands, Papua New Guinea

Royal Papua New Guinea Constabulary, Housing Program

The Bomana Housing Development Project consists of developing 150 allotments under the Royal Papua New Guinea Constabulary Housing Program. Kramer Ausenco was engaged to provide engineering design and documentation and construction monitoring during construction stage. Engineering design and documentation include earthworks, road layouts, stormwater reticulation (drainage), wastewater reticulation, power reticulation, water reticulation, geotechnical investigations, and topographic survey.

Kramer Ausenco delivered the design on time, thus allowing the contractor to commence its construction program on as planned. This project is a major subdivision development, which Kramer Ausenco has played a key role.

Responsibilities: Civil Engineers and Power Engineers.

Borea Holdings Town Planning

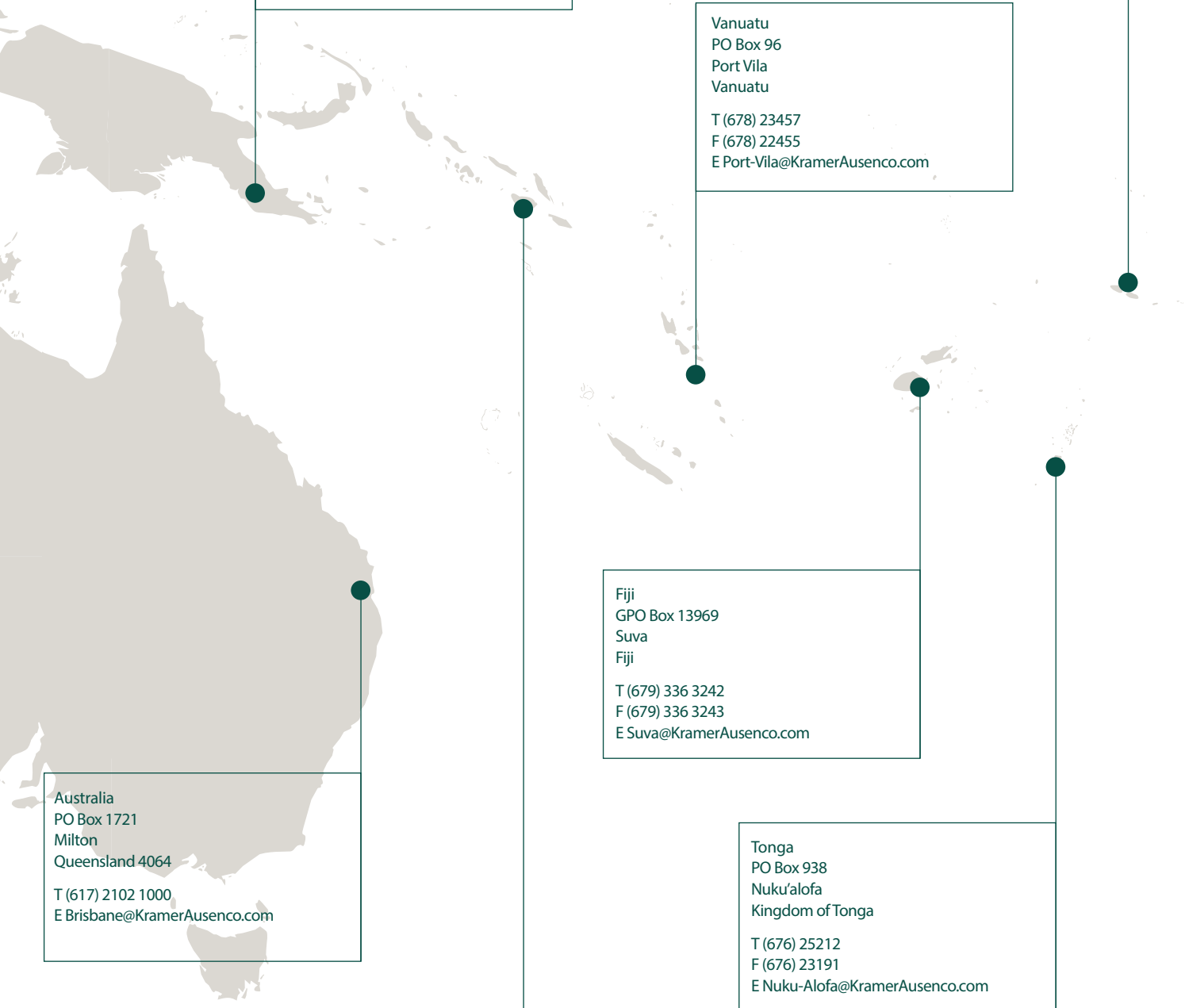
Central Province, Papua New Guinea

Boera Holdings Ltd

Kramer Ausenco provided civil engineering services for the preparation of concept plans for a new township. This included an Environmental Impact Assessment & Environmental Management Plan. We prepared concept designs for electrical reticulation, sanitary water supply, storm water drainage, sewerage reticulation and roads.

Kramer Ausenco provided site inspections, data collection and analysis, community liaison and construction supervision.

CONTACTS



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