

Management
oriented.

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re Procurement Handbook
Supplement

NAME OF FIRM: Beca Worley International
NAME OF PERSON: David Gladstone Downey
NATIONALITY: New Zealand DATE OF BIRTH: 8 March 1922
PROFESSION: Civil Engineer
POSITION IN FIRM: Principal
SPECIALIZATION IN FIRM: Project Director, public health and water supply engineering, project management, contract administration, advice on contractual disputes and litigation
YEARS WITH FIRM: as permanent full-time principal 23

KEY QUALIFICATIONS:

Twenty-nine years experience in public health and water supply engineering, including twenty-three with BWI working on a wide range of projects including a feasibility study and water pollution survey for the Ipon region, Malaysia, irrigation/power development scheme, Nepal (bid and site visit for negotiations), and numerous local government and industrial projects in New Zealand.

Responsibilities included management and organisation of projects from inception through to implementation. Local government projects included management of procurement contracts for supply of materials and plant. Responsible for investigations, feasibility studies, assessment of low technology options where appropriate, design, construction supervision and contract management.

Expert witness and specialist advice on contractual disputes and litigation.

EDUCATION:

Bachelor of Engineering (Civil) Canterbury College, University of New Zealand 1948-50, Auckland University College 1946-47, Fellow Institution of Professional Engineers New Zealand, (Member 1954 - Fellow 1979) Member Institution of Civil Engineers (London) 1954, Member of Royal Society of Health (London) 1955, Registered Engineer 1953, Chartered Engineer 1954.

EXPERIENCE:

1961 - 1984: Principal, Beca Worley International Consulting Engineers, Auckland, New Zealand.

Responsibilities more recently include corporate management as well as project direction, management and organisation, and quality assurance monitoring. Major projects include :

Project Director, North Shore Main Drainage Scheme, Auckland, New Zealand. Treatment Plant extensions stages 3 and 4 (80,000 to 160,000 pop) screening, primary and secondary treatment, sludge digestion and biogas utilisation for power generation. Responsible for overall direction, control and quality assurance monitoring of the project. (1977 - 1984)

Project Director, Sewerage Improvement Scheme, Wanganui, New Zealand. (180,000 pop. equivalent). Interceptor sewers - (1500 mm dia.), pumping stations and ocean outfall (1250 mm dia.) Responsible for overall project direction, control and quality assurance monitoring. (1978 - 1982)

Project Manager, Regional Water Supply Improvement Scheme, Waitara, New Zealand. Responsible for preliminary design and report on upgrading existing system, treatment plant and service reservoirs to serve urban and rural areas. Responsible for determination of design parameters, monitoring design and report. (1981)

Director of ENEX 6 Ltd., a company formed for the construction supervision of major bridging on East-West Highway, Malaysia. Project comprised five bridges 158 m to 900 m long with up to 100 m high piers. Responsible for monitoring project progress and contract management. (1976 - 1979)

Project Team Leader; Design of four irrigation and drainage pumping stations (3 to 45 cumecs capacity) for large agricultural development project at Nahar Saad, Iraq. (1978)

Project Manager, North Shore Main Drainage Scheme, Stages 1 to 3, Auckland, New Zealand. Project comprised trunk sewer system, pumping stations treatment plant and 700 m ocean outfall (ult. pop. 180,000) and included 49 km of trunk sewers (6 km in tunnels) and primary and secondary treatment plant with sludge digestion and power generation using biogas. Services provided included investigations, design, construction supervision and contract management. (1962 - 1977)

Director ENEX 6 Limited; involved in determination of design philosophy and parameters for design of five major bridges on East-West Highway, Malaysia. (1975 - 1976)

Member of Management Committee for team to carry out irrigation and pumping project near Vientiane, Laos. Responsible for organisation of design team and determining design parameters. (1974)

Project Manager. Sewerage Feasibility Study Ipoh, Malaysia. (Pop. 1972 - 250,000, ult. 840,000) Project included planning, investigations, pollution survey, water sampling and laboratory analyses, preliminary design, socio-economic studies, benefit/cost analyses and training. Responsibilities included overall direction of the project, progress monitoring, determining design standards and reporting. (1972 - 1974)

Project Manager, Sewerage Feasibility Study Wanganui, New Zealand, including pollution survey of river and ocean beaches, preliminary design and cost estimates. Responsibilities included programming and direction of study, monitoring progress, interpretation of data and reporting. (1968 - 1970)

1955 - 1968: Partner, Ralph Worley & Downey, then Director Worley Downey Muir & Associates, Consulting Engineers, Auckland, New Zealand.

1951 - 1955: Senior Design Engineer, Ralph P. Worley, Consulting Engineer, Auckland, New Zealand.

General

- ✓ Chairman - ENEX Public Health Consultants Committee 1979 - 1982.
- ✓ Member of Committee of Association of Consulting Engineers New Zealand 1977 - 1982.
- ✓ | Author of 'North Shore Main Drainage System, Auckland', New Zealand Engineering Volume 17, 1962.
- ✓ Member of New Zealand Manufacturers Trade Mission 1967 representing consulting engineers of New Zealand.
- ✓ Member of Overseas Markets and Exporting Committee. National Development Conference 1968 - 1969.
- ✓ ~~Past~~ President New Zealand Water Supply and Disposal Association 1969⁸.
- ✓ New Zealand Director, Water Pollution Control Federation (U.S.A.) 1969 - 1971. Received Service Award.
- ✓ Member and Secretary Auckland Branch Committee of New Zealand Institution of Engineers, 1958 - 1960.

LANGUAGE CAPABILITY:

English - Speaking, reading and writing - Excellent