

CURRICULUM VITAE



Name: PARKER, Robert James

Date of Birth: 1st March 1951

Qualifications:

- * Master of Engineering Science from the University of University of NSW
- * Bachelor of Engineering (Civil) from the University of New South Wales
- * Member of the Institution of Engineers Australia (CP Eng)

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PROFESSIONAL EXPERIENCE:

May 1999 – Present

ROB PARKER ENGINEERING

- 1) Project Estimating for Clients such as John Holland and McMahons on a diverse range of projects including urban railway duplication, recycled waste water treatment plants and roller compacted concrete dams
- 2) Qualiana RCC Dam in Fiji. Ongoing engagement in 2005 by a contractor to prepare costings and construction advice for Qualiana Dam which is an integral part of the Nadarivatu Hydropower Project in Fiji. The project contains a Roller Compacted Concrete dam as well as tunnels and power stations.
- 3) Dong Nai 3 & 4 dams in Vietnam. Engaged by Colenco of Switzerland to participate in the investigation, methodology and costing of a Roller Compacted Concrete design for the project. An ongoing assignment at various stages throughout 2005. Both

these dams contain between 1.1 and 1.3 million cubic metres of RCC

- 4) North Para Dam – South Australia. RCC mix design using high paste RCC with dolomite aggregate and manufactured sand. Project is ongoing
- 5) Son La Dam – Vietnam on Red River – 4.6 million cubic metres of RCC and 2400MW power station – Engaged by Colenco of Switzerland to participate in the investigation, methodology and costing of a Roller Compacted Concrete design for the project. An ongoing assignment at various stages throughout 2005.
- 6) Shrinagar Hydro Power project in India. Methodology and tender assistance to Leighton /Afcons consortium. 280,000m³ of RCC and 330 MW hydropower
- 7) Preparation of tenders and feasibilities for three RCC projects within Australia, ongoing including the tender preparation for Pouembout Dam in New Caledonia
- 8) Eidsvold Weir – located upstream of the Burnett River Dam near the town of Eidsvold. At a height of 12 m and a crest length of 150 m. the structure will contain a fish lift. Worked on RCC method statement and trial RCC mixes. Assisted tender preparations with materials and plant selection and method statements: made recommendations as to the RCC joint treatment, facing, and interface with foundations. Ongoing brief for RCC mix design, construction methodology and site technical supervision.
- 9) Burnett River RCC dam. Provided specialist advice on roller compacted concrete and design coordination to an Alliance of Thiess, URS and Maunsell for Burnett River Water Authority. Project will contain approx 350,000 cubic metres of RCC. Structures include a fish lift and gated outlet structure.
- 10) Project manager for Woodlawn Bioreactor Alliance Project. An alliance between Collex P/L, Barclay Mowlem Construction and Maunsell McIntyre. Consists of construction of a Rail Intermodal facility, Waste Transfer Station and development of a waste bioreactor to utilise waste gases in power generation. Approx project value of \$25million.
- 11) Project management of a 9ml/day Water Treatment Plant for Central Tablelands Water and Construction management at Ben Chifley Dam Upgrading near Bathurst. Treatment plant is of the Dissolved Air Flotation Type
- 12) Completion of the Design and Construction of Roller Compacted Concrete Dams course at the RCC 2000 seminar in Denver. Course dealt with the latest advances in RCC Dams

including their Design and Costing. Two week lecture and field observation course

- 13) Tendering and Concept design for a composite 800metre crest length RCC/Earth embankment dam on a variable foundation consisting of Granite/Conglomerate for West Australian Water Authority. Wall height approx 40m, Value approx. \$50 million.
- 14) Tendering and Programming for a number of Civil Contractors on Freeway and Dam projects including Harvey and Samson Brook Dams in Western Australia. Both of these tenders included Roller Compacted Concrete alternatives.
- 15) Presentation of a Paper at ANCOLD 1999 in Jindabyne on the latest Practices in the construction of Roller Compacted Concrete dams
- 16) Ongoing structural and civil engineering design consultancy in the Southern Highlands of NSW

July to November 1998

Toker Dam

Located in Eritrea on the Toker Dam Project. Provided expert construction advice on a 90 metre high Roller Compacted Concrete dam being constructed for the Eritrean Ministry of Construction and intended to provide water for the Capital city, Asmara. Dam is valued at A\$44 million. This was a fixed period assignment which also involved taking a number of other Australian construction personnel to Eritrea.

April to June 1998

Roller Compacted Dam feasibility Study for a New South Wales water authority - Central tablelands Water.

Study looked at a \$30million water supply dam and included geotechnical, foundation and quarry investigation. Dam is some 400 metres in length and around 45 metres in height.

March 1998

Bauma Construction Exhibition

This is the world's largest construction plant exhibition and was intended to upgrade skills in the latest construction techniques.

December 1996 to March 1998

Cadiangullong RCC Dam

Provided project management and technical direction to Barclay Mowlem Construction Pty Ltd for the construction of Cadiangullong Roller Compacted Concrete Dam. The dam has a crest length of 360 metres, a height of 42 metres and a wall volume

of 120,000 cubic metres. Its final construction cost was \$23 million.

Construction features of the structure include:

- ∞ Nominal 90 kg cement/90 kg Flyash per cubic metre.
- ∞ Upstream face and 50% of downstream steps is grout enriched RCC.
- ∞ 6mm thick bedding mortar was used to cover 100% of each layer.
- ∞ Gallery constructed using the excavation method with no formed walls and pretensioned roof planks.
- ∞ 150 metre long Ogee crest spillway.

March 1996 to December 1996 Construction Contracts for Local Authorities and private clients including:

- ∞ Upgrade of Bundanoon water treatment plant through the installation of additional Chlorination and Fluoridation facilities to the value of \$300,000.
- ∞ Construction of earthworks, drainage and concrete paving to the value of \$320,000 at a local tourist facility.
- ∞ Design and construction of a 15 metre span bridge in Mittagong to the value of \$80,000.

Tendering Cadiangullong Dam

During this period we carried out the tendering of the Cadiangullong Roller Compacted Concrete for Barclay Mowlem Construction Ltd.

November 1995 to March 1996 **Perry River RCC Weir**
Provision of Construction advice and direction to Clough Engineering Pty Ltd on the Construction of an R.C.C. Dam on the Perry River in Queensland for Placer's proposed Mt Rawdon gold mine.

Nov 1994 to Nov 1995 **Wagon Repair Facility, Mittagong**
Carried out the design and construction of \$600,000 upgrade to the Wagon repair facility consisting of rail track and turnout installation, structural steel fabrication, crane upgrade and hoist installation, pollution controls and ventilation.

January 1994 to October 1994 **Roller Compacted Concrete Dam**

At lower Molonglo Water Quality Control Centre.
Carried out Project Management for Fletcher-White Joint Venture on this \$5.4 million project.
Client was A.C.T. Electricity and Water.
Dam consisted of 22,000 cubic metres of roller compacted and conventional concrete plus all site batching and delivery using a conveyor system. The actual construction period was nine months

Other Projects-

National Rail/SRA

- Design management of Glenfield to Ingleburn Rail Loop
- Rocla Sleeper Factory, Mittagong
Construction of Earthworks, drainage, foundations, roadworks and paving, value \$500,000
- Wingecarribee Council
Construction of Bridge Extension, Bowral, value \$200,000
- ANI & Clyde Engineering
Foundations & Structures, value \$100,000
- Stafford Quarries
Design of tailings dam and siltation control measures.

November / December 1992

Managed night shift on placement of Roller Compacted Concrete to Mine Dam at North Goonyella

July 1991 to October 1992

White Industries Limited
PROJECT MANAGER
Nepean Dam Spillway Reconstruction and Dam Buttrressing.
Contract Value approx. \$10.0 Million.
Client: Water Board
Job consisted of:

- Excavation of 180,000 cubic metres of rock and concrete.
- Installation of 13,000 cubic metres of concrete onto new floor and walls.
- Construction of new spillway channel and crest.
- Buttrressing of existing dam wall with 150,000 cubic metres of rock and concrete.
- Development of detailed rock excavation techniques including low intensity blasting.
- Construction of access road, carparks and Dam Crest Slab.

May 1989 to July 1991

Rob Parker Engineering, specialising in:

- Consulting, Civil and Structural Engineering, Project Management, Planning and Development.

- Managed the construction of Civil Works at Sutton Forest Service Centre. \$4 million. Consisted of four hectares of paving. Sixty Metre long bridge. Ramps on/off highway. 200,000 m³ of earthworks plus lighting and underground tank installation.

August 1987 to May 1989

WHITE INDUSTRIES LIMITED

Project Manager:

- Completion of Hume Highway Berrima By-Pass.
Contract value approx. \$50 million.
Client: NSW Department of Main Roads.

Job consisted of:

- 2.8 million cubic metres of earthworks and 110,000 cubic metres of concrete.
- 11 concrete bridges.
- 10 km dual carriage roadway of non-reinforced concrete base course and sub-base course using CM1 and SGME slipform pavers.
- Other works included stormwater drainage, site batching of concrete and production of aggregates, additional local rural roads.

June 1986 to August 1987

Project Manager

Project:

- Calwell West Stage Two Engineering Services,
Canberra ACT.

Works included:

- sub-division works including stormwater, water mains, sewer, playing fields and landscaping.

Value: \$5.8 million.

- Completion of Tuggeranong Town Centre Infrastructure.

Contract value: \$12.0 million, including Erindal Bridge.

- Completion of Tharwa Drive, Arterial

Value: \$5.7 million.

Works consisted of:

- four kilometres of dual lane roadworks
- two small cast-in-situ bridges and a number of pedestrian underpass structures
- landscaping and hydraulic services also included.

Client: National Capital Development Commission

November 1985 to June 1986

Project Manager

For the design and construction of Charbon Colliery Rail Loop, Spur Line and Coal Handling Facility. Project consisted of 3.5 km

of rail line and earthworks using concrete sleepers and 50 kg welded track for Blue Circle Southern Cement.

Construction of an A-Class Rail loading facility incl.

- 100m concrete tunnel constructed beneath coal stockpile
- coal loading directly into trains via two flood-loaders in tunnel roof
- other site works consisted of mine water storage dam, sealed roads, coal stockpile areas, culverts for drainage structures.

March to October 1985

Project Manager

Stanwell Power Station site works and sewerage treatment plant.

Value: \$8.4 million

- completion of initial site works involving 1.5 cubic metres of cut and fill, roadworks, pavements and stormwater drains
- further new contract for the sewerage treatment works involving evaporation ponds, sludge tanks, excavation and concrete structures.

1983 –1985

PHILLIP AHLSTRAND, ROCKHAMPTON

Project Manager

On major commercial and industrial building works in Central Queensland. Included \$1.0 m reservoir for Gladstone City Council using postensioning. Carried out design and construction of projects.

1980 to 1983

BLAIN, BREMMER & WILLIAMS, BLACKWATER

(Consulting Engineers)

Resident Engineer

Associate Director of multi-facet consulting company located at Blackwater, Qld. Undertook design and construction supervision of:

- water treatment plants & 13M1 Reservoir plus commissioning
- sewerage treatment plant including commissioning
- mine access & haul roads
- pipelines, bridges
- workshops & mine buildings & drainage
- commercial, domestic & retail construction
- subdivisions for accommodation of mine staff.

1978 to 1980

OVERSEAS POSTINGS

NIGERIA -

Resident & Structural Engineer duties for State Ministry of Works.
Structural steel design for Peugeot car plant in Kano.

ENGLAND -

Resident Engineer for Trevor Crocker and Partners on commercial development requiring specialised foundation construction and reinforced pretensioned concrete slabs.

SAUDI ARABIA -

Engineering agent responsible for production, supply and installation of pre-stressed viaduct spans. Cast-in-situ construction 4 km length through Jeddah, 40m spans.

1976 to 1978

PRE-STRESSED CONCRETE AUSTRALIA

Design Engineer -

Responsible for design and installation of systems for water retaining structures, bridge beams, car parks, raft slabs and retail developments.

Whilst in this position Rob carried out the structural design for the \$10m -9 level Collingwood Mid Level College for the Victorian Public Works Department consisting of lift shafts, postensioned float slabs, columns, beams, etc.

1975

COONABARABRAN SHIRE COUNCIL

Assistant Engineer -

Responsible for design of sewerage reticulation scheme including submersible pumping stations, engineering, surveying of roads and pipelines and structural design for steel industrial buildings.