

Specialist in
Marine, Coastal & Environmental Construction

A Company Overview of Australian Project Solutions

Australian Project Solutions Pty Ltd.

A.B.N 12 708 458 509

22 Keys Street, Beaumaris Victoria 3193 Australia

Phone +61 3 9589 6516 Fax +61 3 9589 6517

Email sales@austps.com.au

Web: www.austps.com.au



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Table of Contents.

Introduction	Page 3
Recent Projects	Page 4
Apollo Bay Marina	Page 4
Altona Harbour Boat Ramp Construction	Page 5
Patterson River Boat Ramp Construction & Associated Works	Page 6
Floating Jetties at Yarra River, Melbourne.....	Page 7
Brighton Shared Footpath – Brighton Beach	Page 8
Port of Sale Redevelopment	Page 9
Construction of Boat Launching Facilities at Werribee South	Page 10
Reconstruction of Apollo Bay Harbour Breakwater	Page 11
Construction of Safe Boat Harbours at Altona and Geelong.....	Page 12
River Bank Protection Works – Maribynong, Yarra and Barwon Rivers	Page 13
Barwon River Bank Protection Works	Page 14
Foreshore/Beach Rehabilitation, St Kilda Beach	Page 15
Reconstruction of Williamstown Breakwater/Groyne	Page 16
Construction of New Beach and Rock Groynes/Port Melbourne.....	Page 17
Rock Groynes & Associated Coastal Works, Rye Beach.....	Page 18
Foreshore Protection Works - San Remo - Phillip Island	Page 19
Professional Qualifications and Experience	Page 20
Technical and Physical Resources	Page 20
Quality Management	Page 21
Occupational Health & Safety Policy	Page 22
Project Delivery	Page 23



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Introduction.

Australian Project Solutions Pty Ltd is a specialist firm, established in 1997 to provide specialised marine and environmental engineering construction services to the public and private sectors.

In response to a need in the market, Australian Project Solutions Pty Ltd undertakes specialist construction of marine, coastal and environmental projects. Typical projects include, construction and or rehabilitation of coastal and marine works, waste management infrastructure facilities and other general environmental and civil projects.

The primary goal of Australian Project Solutions is to ensure that all projects undertaken are completed, on budget, to a time schedule, and to a quality standard which exceeds the clients expectation.

The nature of services provided by Australian Project Solutions is both diverse and comprehensive and includes:

- Project construction via APS's highly skilled employee's ensuring a high quality level of construction
- Project management and project implementation on behalf of clients, supervising all aspects of the project from design to feasibility, construction and commissioning.

The firm can supply a full range of project management advice and services to a diverse client base including Federal, State and Local Government Authorities, Civil Engineering Consultants, Building and Road Construction Contractors, Private Sector Companies, Developers and other sectors of industry.

Recent Projects Undertaken by A.P.S.

Since its inception, APS has successfully undertaken and completed a number of different major marine/civil construction projects. Details of some of the projects are listed over the following pages:

Apollo Bay Marina

August 2007 to January 2008

Client: Colac Otway Council

Project Value: \$1.65 Million

Works included:

- Demolition of existing timber marina
- Design of new floating marina
- Site establishment of floating plant and equipment, including mobilization of 100T crane onto floating barge
- Supply and pile driving of large 508 mm dia steel tubes using floating piling rig
- Supply and installation of Bellingham 'Unifloat' pre-cast concrete pontoons
- Supply, fabrication and installation of aluminum gangways
- Supply and installation of electrical and water services to each marina berth
- Signage and final commission of the marina



Altona Harbour Boat Ramp Construction

February 2008 to June 2008

Client: Hobson's Bay City Council

Project Value: \$280,000

Works included:

- Demolition of existing concrete boat ramp
- Design of new pre cast concrete boat ramp
- Supply and installation of 12 tonne pre-cast concrete toe beam, using divers to locate and place 3m down from water surface.
- Supply and construction of boat ramp rock subgrade
- Supply and installation of precast ramp panels including fluted surface profile
- Supply and construction of insitu concrete works
- Dredging of harbour immediately around ramp



Patterson River Boat Ramp Construction and Associated Works

February 2008 to June 2008

Client: Park's Victoria

Project Value: \$1.45 Million

Works included:

- Demolition of 2 existing concrete boat ramps and 160lm of concrete/timber retaining wall
- Site establishment of plant and equipment including piling equipment
- Supply and pile driving of 24 No, 508 mm dia, 12lm long steel piles for both boat ramps.
- Supply and installation of boat ramp precast concrete headstock's and bearer's
- Supply and installation of boat ramp precast concrete panels including fluted surface profile and edge kerbing
- Supply and construction of insitu concrete works
- Supply and driving of 36 No 12 lm long epoxy coated 250 UC piles for retaining wall
- Supply and installation of precast concrete retaining wall panels
- Supply and installation of 80lm of sheet pile retaining wall
- Supply and construction of 160lm of insitu concrete capping works
- Associated civil works including drainage and hard landscape works
- Supply and installation of 160lm of fenders along river side of retaining wall.



Design and Construction of Floating Jetties at 4 inner city locations along the Yarra River, Melbourne.

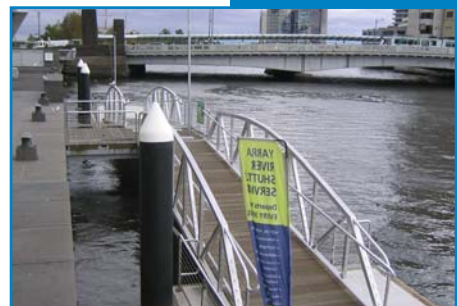
July 2005 - January 2006

Client: Parks Victoria

Project Value: 1.2 Million

Works included:

- Design and liaison with public authorities
- Construction included the following sites:
Melbourne Exhibition Centre; Crown Casino;
Southgate and Swan Street Bridge
- Supply and installation of 120m of Bellingham floating pontoons
- Steel tube piling via water based barges
- Supply and installation of stainless steel handrails
- Supply and installation of public lighting
- Associated works including asphalt paving and timber jetty repairs





Brighton Shared Pathway – Brighton Beach

January 2005 – September 2005

Client: Bayside City Council

Project Value: \$1.8 million

Works included:

- Construction of concrete bike path 800lm
- Construction of rock breakwaters and revetments
- Construction of timber groyne
- Concrete and timber piling works
- Sand importation and new beach construction
- Stormwater, drainage and litter trap installation
- Supply and installation of large precast concrete panels used in the construction of 100lm elevated section of pathway
- Electrical public lighting installation
- Soft landscape planting



Photo Courtesy of Bayside City Council

Port of Sale Stage 1

November 2003 - June 2004

Client: Wellington Shire Council,
Sale, Victoria

Project Value: \$2,200,000

Works included:

- Timber and steel tube piling works.
- Construction of 140 lineal metres of timber boardwalk and 2 No Jetty structures.
- Sewerage and drainage reticulation works.
- Construction of exposed aggregate concrete footpaths (700 lineal metres) associated kerb and channel works, concrete approaches and 150 lineal metres of structural retaining wall.
- Construction of Convenience Centre including toilets, plant room, BBQ and furniture.
- General marine works including dredging, installation of screw piles for structural retaining wall, upgrade of boat pump out facility and rock stabilisation works.
- Installation of aluminium gangway and floating pontoon system.
- Electrical and street lighting works.
- Bulk earthworks.
- General landscaping works.



Construction of Boat Launching Facilities at Werribee South.

May 2002 - July 2002

Client: Wyndham City Council
Werribee South, Victoria

Project Value: \$800,000

Works included:

- Supply and installation of two new floating pontoon jetty systems.
- Construction of concrete abutments and boat launching ramp.
- Installation and commissioning of navigation lights and signs.
- Construction of carpark including kerb/channel, pavement, landscaping, signs, linemarking etc.
- Construction of a boat washdown facility including oil/petrol interceptor and storm water diversion system.





Reconstruction of Apollo Bay Harbour Breakwater & Construction of Precast Concrete Boat Ramp.

Stage 1: March 2001 - April 2001

Stage 2: March 2002 - May 2002

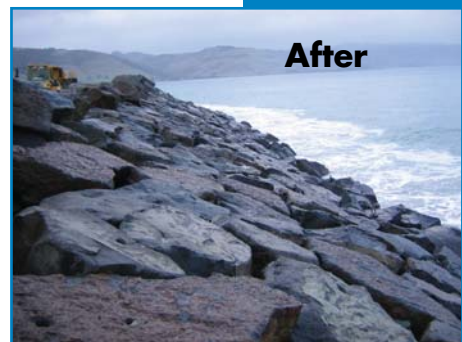
Stage 3: April 2004 - July

Client: Colac Otway City Council
COLAC, Victoria

Project Value: \$2,500,000

Works included:

- Procurement and transportation of large armour rocks up to 18 tonne.
- Procurement and delivery of specialised plant (including) 100 tonne crane, 45 and 50 tonne excavators with rock grapple and 35 tonne 4WD dump truck.
- Stabilisation of breakwater access track and site establishment.
- Reconstruction of failed breakwater using 8-18 tonne rocks.
- Reconstruction of precast boat ramp and concrete abutment.
- Demolition of existing concrete boat ramp.
- Construction of 35 lm precast concrete boat ramp
- Construction of 25 lm concrete jetty abutment.





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Construction of Safe Boat Harbours, Altona, Victoria and Limeburners, Geelong.

Altona

June 2000 - January 2001

Client: Hobsons Bay City Council
ALTONA, Victoria

Project Value: \$1.3 Million

Limeburners, Geelong

(November 2001 - September 2002)

Client: City of Greater Geelong

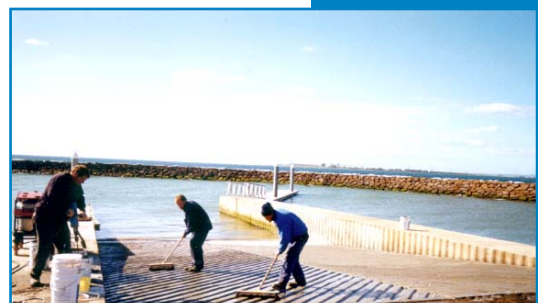
Project Value: \$2.3 Million

Works included:

- Construction of new rock groynes varying in lengths up to 250 linear metres.
- Piling and dredging works
- Supply and installation of new floating pontoon jetty systems.
- Specific placement of 2 - 5 tonne armour rocks.
- Construction of concrete abutments, and boat launching ramps.
- Installation and commissioning of navigation lights and signs.
- General civil works i.e. kerb/channel, pavement, landscaping, signs linemarking.



Above: Altona construction



Below: Geelong construction



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River Bank Protection Works.

Maribynong River

April 2002 - June 2002

Client: Melbourne Port Corporation

Project Value: \$240,000



Above: before construction – Maribynong

Yarra River

(April 2001 - July 2001)

Client: Melbourne Port Corporation

Project Value: \$250,000



Above: after construction – Maribynong

Works included:

- Re-shaping and clean up of existing river bank.
- Profiling and construction of rock revetment, approxiamte lengths of 400 - 500 linear metres.
- Construction of access track and other civil works.

Barwon River

(August 2004 - October 2004)

Client: City of Greater Geelong

Project Value: \$240,000



Above: Barwon River Project under construction

Works included:

- Removal of existing rock and clean-up of existing bank.
- Profiling and construction of rock revetment.
- Construction of concrete stairs.



Above: Barwon River project finished

Barwon River Rehabilitation Works – Barwon Heads.

Stage 3: September 2004 - October 2004

Stage 2: May 2002 - July 2002

Stage 1: August 2001 - September 2001

Client: Parks Victoria – Melbourne

Project Value: \$700,000

Works included:

- Construct Timber pedestrian bridge.
- Drive marine piles for fishing platform.
- Construction of timber boardwalk.
- Construct concrete abutment and floating pontoons.
- Construction of 550 linear metres of coastal path.
- Drainage and associated landscape works.
- Excavation, fill and preparation of river bank profile.
- Construction of 370 metre rock revetment.



Foreshore/Beach Rehabilitation, St Kilda Beach, Victoria.

Stage 1: November 2000 - January 2001

Stage 2: December 2005

Client: Department of Natural
resources & Conservation

Project Value: \$400,000

Works included:

- Procurement of specialised plant.
- Excavation and bulk sand relocation (60,000 m³) to establish a new beach.
- Reshaping and levelling of beach.
- Completion of project to strict short term program.



Reconstruction of Breakwater/Groyne, Williamstown, Victoria.

March 2000 - May 2000

Client: Hobsons Bay City Council
ALTONA, Victoria

Project Value: \$150,000

Works included:

- Reconstruction of large breakwater/rock groyne at Williamstown Beach.
- Minor drainage works and reinstatement of beach areas.



Above: after construction



Before construction

Construction of new Beach and Rock Groynes – Sandridge Beach, Port Melbourne, Victoria.

August 1999 - December 1999

Client: Dept of Natural Resources
& Environment,
Mirvac City
of Port Phillip,
Port Melbourne, Victoria

Project Value: \$1.2 Million

Works included:

- Construction of 3 new rock groynes approximately 120 linear metres using 2-6 tonne rocks.
- Construction of three new drainage lines through each of the rock groynes using reinforced concrete pipes ranging in size from 900 mm 1800 mm. Average length of each line 200 linear metre.
- Re-establishment of surrounding landscape.
- Reshaping and sand beach rehabilitation.



Rock Groynes and Associated Coastal Works Rye Beach, Victoria.

June 1999 - July 1999

Client: Dept Of Natural Resources
& Environment

Mornington Peninsula Shire
Council, Rosebud, Victoria

Project Value: \$180,000

Works included:

- Construction of new rock groyne approximately 120 linear metres using 1-1.5 tonne rocks.
- Importation, placement and re-shaping of new sand beach (10,000m³).
- Construction of 200 metre sand bypass pipeline.



Foreshore Protection Works – San Remo, Phillip Island.

November 1997 - December 1997

Client: Department of Natural
Resources and
Conservation.
Melbourne, Victoria

Project Value: \$180,000

Works included:

- Construction of a new rock revetment and reinstatement of an existing revetment over a length of 150 metres.
- Construction of a timber groyne over a length of 29metres.
- Construction of a timber board walks and pedestrian crossing over the groyne wall.
- Demolition and removal of existing groyne structures.
- Dune reinstatement and associated coastal landscaping.





Professional Qualifications and Experience.

Shane Hickey and Mark Krstic are both principles of Australian Project Solutions, and perform all project management activities. Both partners experience and qualifications together with their commitment to providing clients with a quality service will ensure that each project is performed to the highest level, ensuring a minimum cost to the client. Both directors have professional qualifications, Mark Krstic has a Master of Environmental Engineering Degree with 15 years of engineering experience while Shane Hickey has a Master of Applied Science Degree with 25 years of engineering experience.

Technical and Physical Resources.

Technical Resources.

Australian Project Solutions operates from its business address at 22 Keys Street, Beaumaris.

This office is equipped with a range of intellectual equipment and includes the following,

- Fax
- MS Word
- Civilcad
- Technical publications
- Mobile Phone
- PC's
- MS Excel
- Project Partner
- Access to technical library's
- Email
- MS project
- Autocad

The benefits to the firm's clients arising from utilisation of these technical support systems include;

- Increased reliability of projects management procedures
- Precise control and tracking of activities throughout each stage of the project
- Optimum usage of all materials and resources deployed on each project.
- Trade resources etc.

Physical Resources

APS owns a number of specialised plant equipment that enable APS to carry out a wide range of construction activities. This equipment includes; 5, 20 and 30 tonne excavators – all fitted with specialised rock grapples, drilling equipment and other specialised attachments.

The Company has established healthy relationships and industry associations which have subsequently provide Australian Project Solutions with a diverse network of physical resources that enable the firm to tender for a wide range of projects.



A typical list of the physical resources available include,

- Marine coxwains & divers
- Concreters
- Landscape contractors
- Dozers
- Quality management
- Pile Driving Rig
- Marine barges & vessels
- Building maintenance personnel
- Trucks
- Heavy plant operators
- Skilled Tradesmen
- Scrapers
- Riggers
- Backhoes
- Plant & equipment
- Survey equipment
- Excavators
- Stonemasons
- Moxy's
- Fitters/Welders
- Bobcats
- Mechanics

Quality Management.

Australian Project Solutions is committed to the systematic implementation and operation of a quality management system which embraces all aspects of the firm's activities.

The principles recognise that getting it right the first time enhances the firm's reputation with its clients and increases its competitiveness. The principles of the firm are committed to the following quality objectives;

- to advise clients and employee's (including subcontractors) of the emphasis directors place on achieving quality
- to assure clients that the firm's services are carried out in a manner which demonstrates integrity, competency and reliability.
- to regularly review the training needs and skills of the firm's staff to ensure they are commensurate with the expertise and range of consulting services offered by the firm, and
- to systematically eliminate potential quality deficiencies.

To ensure that quality is well managed throughout the organisation , the principles are presently implementing a quality based system upon the requirements of AS/NZS ISO 9001-1994, Quality Systems- Model for Quality Assurance in Design, Development, Production, Installation, and Servicing.

All employee's (including subcontractors) understand that production of a high standard of quality requires:

- an effective understanding of clients briefs
- planning and control of the managerial and technical aspects of all work
- assigning capable and competent staff to undertake work activities, and
- verifying that all outputs meet the particular requirements of each client.



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Occupational Health & Safety Policy

Australian Project Solutions Pty Ltd is committed to conducting business to protect the health & safety of employees and members of the public. We are also committed to managing our customers' risks by the implementation and practice of world's best safety practices.

Australian Project Solutions operates a Company Occupational Health and Safety Management System (Safety Map) that provides for an OH&S plan to be prepared and implemented for each project that is undertaken by the company.

Each OH&S plan will incorporate (but not limited to) the following:

- Identify and reduce the risk of work related injuries and illnesses through pro-actively monitoring work practices and implementing mandatory training for all staff.
- Regularly provide employees with information about hazards and hazard control.
- Induct all new employees to required safe work practices and expected business practices prior to commencing work.
- Investigate all incidents to identify the possible cause and implement preventive actions to minimise the risk of occurrence.
- Through effective supervision, control of physical and chemical hazards in the workplace will be achieved.
- Comply with all relevant health and safety laws and regulations.
- Conduct a compliance audit program to ensure adherence to Company and regulatory requirements.
- Conduct regular management reviews of safety performance and identify and implement safety improvements.
- Involve and consult employees and customers in identifying workplace safety improvements and interventions.
- Ensure that all sub-contractors follow and comply with Australian Project Solutions' OH&S requirements.

Project Delivery.

Australian Project Solutions has a commitment to completing projects on time, on budget, and to the clients expectations. To consistently achieve these high standards, the firm adopts a practical and methodical approach that incorporates a strong emphasis on project management techniques including,

- critical path analysis
- network analysis
- resource levelling, and
- work breakdown structures.

Australian Project Solutions have in place the necessary insurances required to undertake the full range of activities specified in any tender application which the firm may submit for. Relevant cover currently includes:

- Public liability insurance - \$20 million
- Work Cover Insurance
- Company Plant Insurance