CAPABILITY STATEMENT
January 2020
Contents

OBJECTIVES ..................................................................................................................................................................... 0

ORGANISATION DESCRIPTION ......................................................................................................................................... 2

PFSQ CORPORATE GOVERNANCE ........................................................................................................................................ 3

QUALITY MANAGEMENT ......................................................................................................................................................... 5

CONTACTS ............................................................................................................................................................................. 5

CREDENTIALS .......................................................................................................................................................................... 6

KEY PERSONNEL ....................................................................................................................................................................... 6

EXPERTISE ............................................................................................................................................................................... 8

PORTFOLIO OF RECENT PROJECTS ...................................................................................................................................... 9

QLD DEPARTMENT OF AGRICULTURE & FISHERIES – QDAF ............................................................................................ 9
FOREST & WOOD PRODUCTS AUSTRALIA – FWPA, PFSQ, QLD UNIVERSITY & QDAF ....................................................... 10
PROJECT DELIVERABLES .......................................................................................................................................................... 10
FARM FOREST GROWERS VICTORIA - FFGV .......................................................................................................................... 10
CHERISH THE ENVIRONMENT FOUNDATION – ENVIRONMENTAL CHARITY .................................................................. 10

ENERGY QUEENSLAND – SUSTAINABLE POLE PROJECT .................................................................................................. 12
PALMVIEW ENTERPRISES – 200 HA MAJOR HOUSING DEVELOPMENT .......................................................................... 15
EVOLUTION MINING – SWINDON STATION – FOREST ASSESSMENT REPORT ................................................................. 15

DEPARTMENT OF TRANSPORT AND MAIN ROADS QLD ...................................................................................................... 15
SUNSHINE COAST COUNCIL – ............................................................................................................................................... 16
NEW FORESTS / GROWTH FARMS ........................................................................................................................................... 16
SEQ WATER ............................................................................................................................................................................. 16
SEQ CATCHMENTS ................................................................................................................................................................... 16
TNP PARTNERS – ANDERLEIGH 2013 ONWARDS .................................................................................................................. 17
BUNCE – BROOLOO - 2014 ....................................................................................................................................................... 17
PERRY – PAINTERS CREEK - NAMBOUR CANELANDS - 2014 ................................................................................................. 17
CARING FOR OUR COUNTRY – RE.VEGNET.AU NATIVE FOREST MANAGEMENT PROJECT ................................................. 18
CARING FOR OUR COUNTRY – Reforest.net - Farm Forestry Management Project .............................................................. 19
DTM TIMBERS - QLD ............................................................................................................................................................. 20
PEET LIMITED ........................................................................................................................................................................... 20
ENERGEX LIMITED ................................................................................................................................................................. 20
CONDAMINE ALLIANCE – ‘TREEHENGES’ ............................................................................................................................ 20
WIDE BAY WATER CORPORATION – EFFLUENT IRRIGATED TIMBER PLANTATION .......................................................... 21
SAPIEM - 2014 ......................................................................................................................................................................... 21
ARROW ENERGY ........................................................................................................................................................................ 21
MULTIPLEX – FOREST MANAGEMENT .................................................................................................................................. 21
LEND LEASE ............................................................................................................................................................................... 21
MOY POCKET - INTEGRATED AGRICULTURAL LAND USE ................................................................................................. 22
POWERLINK QLD .................................................................................................................................................................... 22

OUR ETHOS ............................................................................................................................................................................... 4
Economic .................................................................................................................................................................................. 4
Environment ............................................................................................................................................................................. 4
Social ....................................................................................................................................................................................... 4
Employment ............................................................................................................................................................................ 5
Vision ..................................................................................................................................................................................... 5

WH&S Policy ............................................................................................................................................................................ 6
Work Cover Registration Number ............................................................................................................................................ 6
WCA 020245646 ........................................................................................................................................................................ 6
Insurance Details ........................................................................................................................................................................ 6

Insurance Details ........................................................................................................................................................................ 6
WCA 020245646 ........................................................................................................................................................................ 6
Work Cover Registration Number ............................................................................................................................................ 6
OBJECTIVES

Private Forestry Service Queensland (PFSQ) is an incorporated, ‘Not for Profit’ Association working for the past 20 years to improve the quality and viability of the private forest resource in Australia. PFSQ’s Constitution as a ‘Not for Profit’ group refers to the membership, purpose and activity of the association. It does not mean that an association cannot make a profit from its operations, but any profits must be used to further the Objectives of the Association and cannot be distributed to the members, directors or staff.

The Objectives for which the Association was established are:

1. To undertake activities that will contribute to the development, stability and prosperity of an ecologically sustainable regional forestry industry in Queensland with particular reference to private forestry;
2. To establish, develop and maintain information channels, services and products which will meet the information and communications needs of the regional forestry industry;
3. To influence legislative, planning and regulatory policy for the betterment of the regional forestry industry;
4. To facilitate and participate in planning and coordinating development of and cohesion within the regional forestry industry, and its links with other industry sectors; and
5. Through promotion, to encourage community, industry and government support for the regional economic, social and environmental benefits offered by forestry on private lands.

Any profit the organisation makes is reinvested back into the community, specifically, to the Woodworks Museum and Forestry Interpretative Centre, Indigenous and landholder education on forest management, forestry research, silvicultural development (chopper roller) and market development (eg. CCA treated rounds from plantation thinnings).

PFSQ forest management systems are Australian Forestry Standard (AFS) certified through the Responsible Wood Certification Scheme.

We are located in Gympie, Queensland’s largest and most diverse forestry region, with significant hardwood eucalypt and exotic softwood plantations, hoop pine resource and a strong native forest
industry. PFSQ field operations extend all over Queensland and northern NSW with regular consultancy work in Japan, Papua New Guinea and the Solomon Islands.

PFSQ combines life-long experience in forest management industries with a team of motivated individuals from forestry, environmental science, agribusiness, horticulture, law, tertiary education and forest research backgrounds.

The team brings together a range of expertise in all levels of vegetation management, forest establishment and management, harvesting and marketing, planning and assessment, stand inventory and valuation, forest research, advanced GIS and mapping, growth modelling, cost benefit analysis, fire management, infrastructure establishment and maintenance, general construction, integrated grazing, as well as representation at a regional, state and federal level of forest policy.

The result is a method of natural resource management that integrates productive land-use systems with best practice vegetation management; weed management, infrastructure and erosion mitigation. Total Landscape Management offers a dynamic, cost effective resilient and productive system of natural resource management that successfully addresses a broad range of environmental constraints and caters to a diverse demographic of landholders and primary producers.

Organisation Description

PFSQ is overseen by a non-remunerated Board of Management consisting of 6 eminent forest industry representatives and one Scientific Advisor. The Board includes Chairman Len Sivyer - previously Business Development Manager – HQPlantations P/L, Paul Ryan - immediate past Principal Scientist for DPI & F, Horticulture and Forest Science, Ernie Rider – immediate past Senior Conservation Officer (DERM) Sunshine Coast/Burnett Region, Adan Taylor – GMT Logging, General Manager and Vice Chairman, Australian Forest Contractors Association, Mick Capelin – Natural Resource Management and Rural Planning Specialist and Clynton Corbet- General Manager of Corwood Pty Ltd, and Dave Taylor – QDAF comes to us as a Scientific Advisor. Lynne Wilbraham, Regional Development Officer GRC is in an adjunct role. Our membership comprises farm forestry support groups, Industry representatives, Government representatives, Landcare groups, indigenous corporations and individuals with an interest in private forestry.
PFSQ’s Board, staff and volunteers strongly support the social responsibility, ethos and integrity of our ‘Not for Profit’ incorporated association status.

As an incorporated association, PFSQ has a multi-functional role in the industry:

**PFSQ Corporate Governance**
- Undertakes and where appropriate commercialises forestry and natural resource management related research and development for the benefit of forest owners
- Engages in environmentally sustainable resource management, which assists in the improvement of productivity and the protection of natural assets and market accessibility.
- Engages in general forestry based research activities.
- Fosters and supports the growth of a competitive forestry industry
- Encourages and facilitates regionally based economic activities based on forestry and related industries.
- Manages private forests for commercial production conforming to the Australian Forestry Standard, recognising best practice standards for forestry operations and environmental management.
- Actively participates in regional resource enhancement initiatives and programs.
- Manages the Woodworks Museum and Forestry Interpretive Centre to facilitate engagement and education of the general community to recognise the environmental, social and productive sustainability of the Timber Industry

**Our Ethos**
PFSQ values continuous improvement in the following:

**Economic**
- Continues to improve its economic position to enable the funding of the ‘Woodworks’, our indigenous programs and community forestry education
- Ethical business practices
- Competitive and innovative business practices
- Regional development

**Environment**
- Sustainable land management practices
- Minimum Carbon Footprint
- Optimal environmental use of resources while maximising the health and productivity of our forests
- Conservation of biodiversity, landscapes and cultural heritage

**Social**
- Maintain a regionally diverse industry to support small processing businesses
Educating students on socially responsible resource consumption
A lead advocacy approach to industry development and forest management activities

**Employment**
- Development of enthusiastic and motivated people in a safe workplace
- Ensuring staff corporate longevity by providing an evolving workplace, training and clear professional opportunities
- Equal opportunities regardless of gender, race or creed

**Vision**
- Queensland to be a net exporter of sawn hardwood as opposed to a net importer of more than 100,000 m³ of sawn hardwood per annum and 10,000 lineal metres of pole material

PFSQ’s AFS certification must pass an annual three day audit by an independent auditor (Global Mark) including our WH&S conformance and record, environmental performance and procedures and our social licence including stakeholder interaction.

**Quality Management**
PFSQ’s Forest Management Systems are recognised as, and performed to the requirements of the Responsible Wood Certification Scheme which is underpinned by the Australian Forestry Standard - AS 4708:2007 (AFS) - Sustainable Forest Management. The environmental conformity, social benefit and economic viability of the AFS scheme is recognised worldwide, through the Program for Endorsement of Certification Scheme (PEFC). Forest management certification standards recognised by the PEFC, such as the AFS, are used in many leading countries as a critical indicator of sustainability. Evidence of AFS conformance is referenced throughout Forest Management Plans, Operational Plans, Forest Establishment Plans and all Standard Operational Procedures (SOPs).

**Contacts**
Office: WoodWorks Museum and Interpretive Centre
8 Fraser Road
Gympie, QLD, 4570
Phone: (07) 5483 6535
Fax: (07) 5483 8996
Email: pfsq@bigpond.com
Websites: www.pfsq.net
www.woodworksmuseum.com.au
https://www.facebook.com/pfsqld/
https://www.youtube.com/channel/pfsq

Credentials

A.B.N. 77 312 628 488
A.R.B.N. 602 674 948
Incorporation No. IA 29280
AFS Certificate No 101 342

WH&S Policy

PFSQ has in place compliant Work Health and Safety policies and procedures that are implemented throughout the organisation and on all of our work sites. All field work is pre-empted by Standard Operating Procedures (SOP) and all supervisors have WH&S training. Our WH&S System represents a significant investment by PFSQ to ensure the safety of all employees and sub-contractors working in isolated forested environments. Our staff are trained in specific competencies and have licences in Chainsaw Handling, Commercial Chemical Handling, White Cards and First Aid.

Work Cover Registration Number

WCA 020245646

Insurance Details

Public Liability $20,000,000
Directors and Officers Liability $2,000,000
Employment Practices Liability $250,000
Professional Liability $1,000,000

Key Personnel

Sean Ryan – Executive Officer
Associate Diploma of Applied Forestry, 43 years in natural resource management including: State Government Forest Service, National Park Management, Native Forest Extension Officer, plantation establishment and native forest management on private land. Twenty years of private native forest management, assessment research and development specific to the private resource. (14 years – PFSQ); BSA Licensed Builder No 25099 - 0428 457 322

Gary Clarke – Operations Manager
Associate Diploma of Applied Forestry, 32 years in natural resource management and timber processing including: Eight years in the QLD State Government Forestry Service, five years private consultancy forestry and landscape management, three years Resource Manager timber processing industry and eight years Farm Forestry Program Manager Noosa and District Landcare Group. (10 years - PFSQ) 0413 967 833

David Menzies – GIS and Field Officer
Master’s Degree in Forestry (University of Melbourne), Bachelor of Science (Environmental Science), Mapping, GIS and data analysis specialist David has completed his Regional Ecosystem Classification qualification under the Queensland Herbarium. 10 years tree arborist and forest management. (12 years - PFSQ) 0488 091 070

Kaara Shaw – Field Officer
Bachelor of Applied Science (Horticulture) Kaara has extensive experience in the design and management of hardwood eucalypt plantations. Kaara manages PFSQ’s AFS certification system AND WH&S system. Kaara is currently completing a Master’s Degree in Forestry at the University of Melbourne. (10 years – PFSQ) 0488 080 566

Bill Schulke – Extension Officer (Grazing and forest land management)
Bachelor of Agricultural Science, Mapping, GIS and data analysis specialist Bill has extensive experience in grazing land management, recently joining us after 12 years as a senior extension officer with the Department of Employment, Economic Development and Innovation (DEEDI). (8 years - PFSQ) 0408 963 723

Clifford Raddatz – Field Operations Officer
40 years experience in State Government Forest Service and Queensland Forestry Research Institute involved in applied research, plantation establishment and native forest management. Cliff has completed his Regional Ecosystem Classification qualification under the Queensland Herbarium. (13 years - PFSQ) 0427 350 329

Duncan Sayers – Field Operations Officer
Degree in Forestry – Sthn Cross Uni. Duncan is involved with app development, Mapping, GIS and data analysis. He is heavily involved with Rural Fire and comes to us as a mature graduate with previous business and development experience. (1.5 years – PFSQ) 0402 321 526

Bronwyn Lloyd – Senior Administration Officer
Bronwyn has extensive experience in financial manager and office administration with expertise across the commercial and not-for-profit sectors. Bronwyn has a Diploma in Agriculture and also manages our web site and all promotional projects (12 years – PFSQ).

Full-time Field Supervisor and 5 field maintenance crew
Expertise

PFSQ is recognised across the Timber Industry as a leading expert in private native forest management and hardwood plantation development. This expertise has been derived from many years in the industry and a thorough understanding of the resource has been garnered from detailed mapping and on ground assessment of the extent, condition and productivity of the private forests of southern Queensland. PFSQ has mapped the extent of the resource and ground truthed the condition of those forests via detailed forest assessment, inventory and data analysis of more than 30 properties across southern Queensland and northern NSW; some 26 400 ha. In addition to this PFSQ has established 186 permanent growth plots across 20 properties, some of which have been established and measured for more than 12 years. The plots provide accurate data on growth rates achieved after a range of thinning interventions compared to the unmanaged, un-thinned forests. This is demonstrated proof of the veracity of our reset silviculture systems for the poorly managed private forest resource.
Portfolio of Recent Projects

Corporations such as Palmview Enterprises, Mt Rawdon Gold Mine, Ergon Energy, Cherish the Environment Foundation Ltd, Multiplex, PEET, Energex, SEQ Water, Brisbane City Council, Gympie Regional Council, Sunshine Coast Regional Council, DTM Timber, BMRG, Craigmore Sustainables, Condamine Alliance (NRM Group), Department of Transport and Main Roads, Ecofund, Isis Central Sugar Mill Company, Griffith University, QDAF and the Australian Government’s Department of Agriculture Fisheries and Forestry are examples of the diverse portfolio of organisations recognising PFSQ’s broad skill set and ability to provide a professional and unique service.

Qld Department of Agriculture & Fisheries – QDAF
‘Private Forestry Extension Program’ ($500K - 2.5 year project 2016 - 2019)

The Department of Agriculture and Fisheries (DAF) has funded a private native forestry extension program to provide information and extension support to landholders and the timber industry to increase investment in private native forestry opportunities.

The private native forestry extension program has:

- Engaged more than 1200 landholders managing over 80 000 hectares of forest
- Held 18 general intro field days throughout SEQ and 5 mill centred days
- Participated/organised 18 extension events, bus trips, forums, information sessions etc
- Run seven intensive four-day workshop programs
- Held one industry forum attended by 90 stakeholders
- Provided 28 one-on-one landholder assistance agreements, 1 400 ha of degraded forest under best practice management
- Established forest grower network groups in Gin Gin, Nanango and Monto
- Developed a new native forest management manual

Table 1. - 6 year average growth results Nanango

<table>
<thead>
<tr>
<th>GROWER</th>
<th>PLOT</th>
<th>AVG DBH</th>
<th>ST HA</th>
<th>MAI (cm)</th>
<th>CMF HA^2 YR^-1</th>
<th>BA+10</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENTRY</td>
<td>1</td>
<td>23.29</td>
<td>156</td>
<td>0.71</td>
<td>1.301</td>
<td>9.789</td>
</tr>
<tr>
<td>GENTRY</td>
<td>2</td>
<td>20.77</td>
<td>176</td>
<td>0.89</td>
<td>1.645</td>
<td>10.088</td>
</tr>
<tr>
<td>GENTRY</td>
<td>3</td>
<td>16.85</td>
<td>244</td>
<td>0.99</td>
<td>1.969</td>
<td>10.854</td>
</tr>
<tr>
<td>GENTRY</td>
<td>4</td>
<td>13.98</td>
<td>224</td>
<td>1.00</td>
<td>1.401</td>
<td>7.746</td>
</tr>
<tr>
<td>GENTRY</td>
<td>5</td>
<td>16.79</td>
<td>172</td>
<td>1.26</td>
<td>1.894</td>
<td>8.876</td>
</tr>
<tr>
<td>GENTRY</td>
<td>6</td>
<td>16.02</td>
<td>240</td>
<td>0.70</td>
<td>1.168</td>
<td>8.271</td>
</tr>
</tbody>
</table>

Table 2. - 6 year growth results Gundiah

<table>
<thead>
<tr>
<th>GROWER</th>
<th>PLOT</th>
<th>AVG DBH (cm)</th>
<th>ST HA (cm)</th>
<th>MAI (cm)</th>
<th>CMF HA^2 YR^-1</th>
<th>BA+10</th>
</tr>
</thead>
<tbody>
<tr>
<td>THOMPSON</td>
<td>1</td>
<td>21.2</td>
<td>143.75</td>
<td>0.97</td>
<td>1.52</td>
<td>8.8</td>
</tr>
<tr>
<td>THOMPSON</td>
<td>2</td>
<td>25.1</td>
<td>206.25</td>
<td>0.63</td>
<td>1.66</td>
<td>14.1</td>
</tr>
<tr>
<td>THOMPSON</td>
<td>3</td>
<td>20.9</td>
<td>175.00</td>
<td>0.72</td>
<td>1.28</td>
<td>9.2</td>
</tr>
<tr>
<td>THOMPSON</td>
<td>4</td>
<td>15.8</td>
<td>412.50</td>
<td>0.43</td>
<td>1.20</td>
<td>12.7</td>
</tr>
<tr>
<td>THOMPSON</td>
<td>5</td>
<td>10.6</td>
<td>31.25</td>
<td>1.46</td>
<td>0.23</td>
<td>1.0</td>
</tr>
<tr>
<td>THOMPSON</td>
<td>6</td>
<td>20.4</td>
<td>218.75</td>
<td>0.89</td>
<td>1.46</td>
<td>10.9</td>
</tr>
<tr>
<td>THOMPSON</td>
<td>7</td>
<td>19.3</td>
<td>93.75</td>
<td>1.30</td>
<td>1.28</td>
<td>5.9</td>
</tr>
<tr>
<td>THOMPSON</td>
<td>8</td>
<td>42.4</td>
<td>93.75</td>
<td>0.80</td>
<td>1.85</td>
<td>17.0</td>
</tr>
</tbody>
</table>
• Created an identification booklet for 22 of the common commercial species of southern Queensland

• Updated website materials and videos
  • Posted 100+ Facebook blogs with over 20,000 views
  • Posted 26 YouTube forest management videos
  • Sponsored three ‘Going Bush’ television NFM segments on channel 7mate
  • Presented papers on the project at two industry conferences

Forest & Wood Products Australia – FWPA, PFSQ, Qld University & QDAF

The Economic Importance of the Subtropical Private Native Forest Resource, and Evaluation of Opportunities to Increase Productivity

Project deliverables
  • Mapped extent of the private resource SEQ
  • Analysis of long term growth plots
  • Analysis of a range of thinning procedures to ascertain comparative economic outcomes
  • Decision support tool to indicate economic returns comparing Management to no management
  • Industry wide economic outcomes if 20%, 30% or 50% of the resource is managed

Farm Forest Growers Victoria - FFGV

PFSQ developed the Victorian Farm Forestry Plan.

Scope and Manner of Services:
  • Background study of the Victorian farm forestry industry including literature review and the benchmarking of current forest management practices, growth rates and markets.
  • Complete stakeholder survey to ascertain their inputs and expectations for consideration in the development of the plan
  • 2 industry forums held in Melbourne to engage all stakeholders in the plan development.
  • Collaboration with local Victorian consultant to collate and develop the results of stakeholder consultation and surveys.
  • Development of a specific framework for transitioning a not-for-profit organisation into a self-sufficient, all-encompassing forest service provider for the farm forestry sector in Victoria.
  • Collaboration with local consultant in the development of a Farm Forestry Plan for Victoria that is driven by a single and self-sufficient entity acting on behalf of the industry.

Planted Estate

PFSQ has established hardwood plantations and revegetation projects totalling 470 ha

Cherish the Environment Foundation – Environmental Charity
  • Grandchester - 2014 - 2019
Establish and maintain 9 ha advanced Koala Habitat Offset
Maintenance Program 5 years

**Mutdapilly - 2015 - 2021**
- Establish and maintain 70 ha Koala Habitat Offset
- Maintenance Program 5 years
- Weed control 406 m of Warril Creek

**Calvert – 2017 - 2023**
- Establish and maintain (Planted Offset) 5,700 Koala Habitat Trees across 6.7 hectares (850 stems per hectare).
- Establish and manage a contiguous canopy of native forest, capable of meeting remnant status criteria for Regional Ecosystems 12.3.3 (floodplain) and 12.9-10.2/12.9-10.3 (foothills).
- Vegetated Offset – 76 ha
  - Weed treatment, Infrastructure construction, fencing, Habitat Quality assessment, Infill planting Forest area
- Koala Fodder Plantation
  - Establish and maintain 10,930 Koala fodder trees to supply koala fodder to Ipswich City Council (4 year initial contract)
20 Million Tree Program – Australian Government’s National Landcare Program

Three x $100K Projects commencing - 2014, 2015, 2017 – 50.5 ha of revegetation

20 Million Trees Programme  Round One 2014-15 - Anderleigh Road

- This Project will establish 17.5 hectares of endemic eucalyptus forest on marginal grazing country surrounding a macadamia plantation at Anderleigh, 20 kilometres north of Gympie. The forest will extend and buffer remnant vegetation along the banks of Sandy Creek, a tributary of Tinana Creek and the Mary River.
20 Million Trees Programme  Round Two 2015-16 – Baloghs Road

• This project will establish and maintain 15 hectares of endemic eucalyptus forest on weed-infested, ex-grazing land in the Tinana Creek (Mary River) Catchment at Anderleigh, north of Gympie. The forest will extend and link remnant vegetation on neighbouring properties to increase essential habitat for the koala and consolidate remnant patches and paddock trees within the property.

20 Million Trees Programme  Round Three 2016-17 – Mt Urah

• This project covering from 2018 – 2020 will establish and maintain 20 hectares of endemic eucalyptus forest on ex-grazing land, infilling a large gap in existing Forest Redgum and Spotted gum forests. Camera traps have been set up to picture local fauna and feral animals

Energy Queensland– Sustainable Pole Project

Energy Queensland (EQ) are acquiring and managing native forest land for the long term sustainable production and supply of power poles. PFSQ has been working with EQ for the past eleven years to carry out forest assessments, prepare AFS accredited forest management plans and manage silvicultural operations and undertake prescribed burning and wild fire suppression on these properties.

• Timber assessment, forest valuation and stand condition for 16 properties under consideration for purchase – 22,000 ha.
• Preparation of AFS accredited management plans, production modelling, silvicultural prescriptions and cost/benefit analysis for three property hubs purchased by Ergon Energy – 'Gundiah Hub' - 1,600 ha, 'Ravensbourne Hub' - 1,290 ha, and 'Gin Gin Hub' - 1560ha.

Forest Management Trials

Eagle Rock

- 2008, Ocular assessment, 2 x forest assessments 2010 and 2018
- AFS Forest Management plans 2012 (original) and 2018 (update)
- Harvests
  - 100 ha pulp thinning harvest
  - 30 ha sawlog, salvage veneer and pole harvest
- Fire management
  - Wild fire suppression 2012 and 2016
- Roading and firebreaks
- New Roads – 4 km
- Multiple maintenance rounds fire breaks and roads
  - Thinning – 350 ha

**Fire management**
- Fuel reduction burns
  - 2013, 2014, 2016, 2017 and wildfire 2018

**Gundiah**
- Ocular assessment 2011, 2 forest assessments 2012 and 2018
- AFS Forest Management plans 2012 (original) and 2018 (update)
- Chopper roller regrowth and wattle control (320ha)
- Tordoning 100ha
- Harvest and marketing of sub-salvage grade sawlog material (150 ha)

**Road construction, Repairs and Fire Breaks**
- 2 x Heavy gravel swamp crossings and 6 x creek crossing
- Gravel 2km, open 5 gravel pits

**Boomerang**
- Ocular assessment 2011, 2 forest assessments 2012 and 2018
- AFS Forest Management plans 2012 (original) and 2018 (update)
- Chopper roller regrowth and wattle control (20ha)
PFSQ Capability Statement

- Tordoning 150ha
- Harvest and marketing sawlog and poles sawlog material (250 ha)

**Fire management**
- Fuel reduction burns
  - 2014, 2015, 2016, 2017 & 2018

Energy Q has awarded a 5 + 5 year contract to PFSQ for the maintenance of their property portfolio starting in October 2019.

**Palmview Enterprises – 200 HA Major Housing Development**
- Vegetation management plan and implementation for the 5 year development within all green zones (95ha), including woody weed eradication and revegetation. Salvage harvest and marketing ensuring a high level of utilisation as opposed to tub grinding of selected standing timber within housing footprint (8500 m³ sawlog, girders, poles and veneers).

**Evolution Mining – Swindon Station – Forest Assessment Report**
- To gain a better understanding of their forests and implement sustainable native forest management combined with Grazing Land Management in accordance with best practice management to maintain the land’s future productive potential and provide viable financial returns, compliant with the appropriate applicable legislation, local laws, etc. There is also the opportunity for sections of the property mapped as non-remnant to provide Vegetation Offsets for the mine as well as on selling to other enterprises including Mining and Gas companies.

**Department of Transport and Main Roads Qld**
- Conduct a volume assessment, valuation and estimated 99 year loss of production on the HQP Southern Pine plantations in the area affected by the Roys Road Intersection upgrade
- Conduct a volume assessment, valuation and estimated 99 year loss of production on the HQP Southern Pine plantations in the area affected by the Old Toorbul Rd to Rutters Road upgrade
**Sunshine Coast Council –**  

**Standing Value assessments**  
- Conduct a volume assessment, valuation and estimated 99 year loss of production on the HQP Southern Pine plantations in the area affected by the Mawson/Roys Road upgrade as well as the Moffat/Johnston and the Plantation link road upgrades

**Caloundra Vegetation Offsets Non-native Clearing**  
- PFSQ won the tender to implement a Vegetation Management Plan prepared by the SCC to rehabilitate and restore to Remnant Ecosystem status, 24 ha on 6 separate areas in Racecourse Road, Caloundra. These areas require non-native vegetation clearing and rehabilitation with native species. A large proportion of the non-native vegetation is Slash Pine *Pinus elliottii* which was harvested and removed from the site. Road tracks, bog holes, weed infestations are being addressed over a three year program of works and maintenance. Threatened species of fauna on the site are listed in an Identification and Protection Template within the Environmental Plan. A further 120 ha of Pine adjacent to the site was also harvested. (9 400 tonne chip)  
- Revegetation of old Buderim Waste Transfer Station – take over failed revegetation project

**New Forests / Growth Farms**  
- Agricultural Transition Study of the MIS plantations in the Miriam Vale district owned by the above company. The study analysed the economic feasibility of retaining the existing hardwood plantations for future harvest or immediate clearing back to grazing.

**SEQ Water**  
- Harvest Management, rehabilitation and revegetation of 25 ha Exotic pine plantations around Ewan Maddock (2 750m³ sawlog, post and pulp) and Wappa dams (3 100m³ sawlog, post and pulp) – Harvest contractor Asher’s Logging, purchasers – Carter Holt and Harvey  
- Vegetation Management Rehabilitation Plan for 1 000ha Forest Red Gum regrowth forest, Mt Esk Pocket, Wivenhoe Dam  
- Overseeing stage one of the plan, thinning 200 ha of overstocked regrowth for environmental and timber outcomes  
- Vegetation Management Rehabilitation Plan for 800ha Eucalypt forest regrowth forest, Wivenhoe Hill, Wivenhoe Dam  
- On ground implementation of above plan  
- SEQ Water - 70 ha plantation site preparation.
SEQ Catchments

Wivenhoe Biodiversity Corridor Revegetation Services - Pine Hill
- This 5 year establishment and maintenance project is located on land owned by The Queensland Bulk Water Supply Authority (trading as Seqwater) surrounding Wivenhoe Dam. The site is within the greater Upper Brisbane River catchment, and is restoring approximately 20 hectares of habitat surrounding the dam with an initial planting of 14,000 stems for an Energex Koala Offset. (2012 - 2017)

Powerlink Grandchester vegetation Offset Project – Long Gully Road

TNP Partners – Anderleigh 2013 onwards
- 21 ha Hardwood plantation and maintenance

Bunce – Brooloo - 2014
- 25 ha pre-commercial thin of hardwood plantation, 4.5 ha weed control as well as form and access pruning over previously planted hardwood plantation

Perry – Painters Creek - Nambour Canelands - 2014
- 11 ha of pre-commercial thin over previously planted hardwood plantation
Caring for our Country – Re.vegnet.au Native Forest Management Project

In partnership with the Australian Government’s Caring for Our Country Program, PFSQ is also running a project that provides training and on-ground incentives to engage land managers in increasing native habitat and to promote sustainable forest management across 20,000 ha on 181 properties of native regrowth forest throughout eastern Queensland. PFSQ has been awarded a $4 million contract to oversee and implement the Re.vegnet.au program (completed June 2013).

As part of the Caring for our Country Project, PFSQ completed a Native Forest Management Plan [approx 3000 ha’s] which meets AFCS requirements for the Burungu Aboriginal Corporation [BAC] Jabalbina Yalanji Land Trust on behalf of the native title holders Eastern Yalanji. This community wishes to reinstate a timber milling program to facilitate financial independence and jobs for members. The FMP will be submitted to WTMA and the World Heritage Committee for consideration.
Caring for our Country – Reforest.net - Farm Forestry Management Project

The Farm Forest Integration Project will support over 60 landholders across southern Queensland and northern NSW to plant over 180,000 native trees in permanent native farm forests. The project will assist targeted landholders through a farm forestry training and extension program. This proven program of adult education through demonstration and incentives will engage over 500 landholders and result in the establishment of over 180ha of integrated, best practice native forest cover. In doing so, the project will buffer and link another 10,000 ha of fragmented native forest, increasing native habitat and contributing to landscape scale conservation. The project will also collaborate with the Subtropical Farm Forestry Association project.
**DTM Timbers - Qld**
- Forest Assessment of a hub of properties (2250ha) in northern NSW for standing timber values and product range
- As above for a property 320ha) in the Miva, Qld area

**PEET Limited**
- Standing timber assessment and valuation as preparation of a harvest (Jimboomba)
- Harvest and marketing a full range of timber products (950m³, Veneer billets, A class sawlog, salvage and poles sold via ‘bid on ramp’ to Pro-veneer, Brisbane Valley Sawmills and Koppers
- Establishment of fire breaks and post harvest burn

**Energex Limited**
- Eradication of declared noxious weeds on 40ha vegetation offset property at Kunda Park
- Conduct a volume assessment of HQP’s Southern Pine plantations relating to a resumption of land for a power easement adjacent to Pumicestone Road

**Condamine Alliance – ‘Treehenge’**
‘Treehenge’ is a corporate arm of the Condamine Alliance NRM Group. Treehenge purchased a block of land at Gladfield in the Condamine River Basin with the aim of restoring forest cover and rehabilitating degraded land. PFSQ was contracted to provide plantation establishment advice and management services.
- Plantation consultancy
- 40 hectares of single-tree site preparation
- Weed management - Class 1 Weed - Mexican Feathergrass.
- Plant 20,000 *Eucalyptus argophloia* (Western White Gum) and 20,000 *Corymbia citriodora sub.sp. variegata* (Spotted gum)
Wide Bay Water Corporation – Effluent Irrigated Timber Plantation

Wide Bay Water Corporation (WBWC) chose to reuse treated wastewater by recycling it onto timber plantations. PFSQ worked for WBWC between 2007 and 2010 providing consultancy services, plantation management planning and assessment of environmental services and training local staff who eventually took over the project.

- 25 year Plantation Management Plan including projected product range, specifications and estimated harvestable returns for stage one and stage two of 250 ha effluent irrigated plantation, land inspection for acquisition stage three and four for a projected 1000ha total plantation area.
- Assessment of plantation for WBWC’s carbon abatement scheme
- Vegetation Offset assessments.

Sapiem - 2014
- Assessment of value of standing timber cleared for access and construction of gas pipeline corridor.

ARROW Energy
- Surat to Gladstone pipeline: Professional Consultant Agreement in place for assessment of standing timber value for the proposed pipeline corridor.
- Forest cover, indicative costings and product range calculations for current and projected future commercial value.

Multiplex – Forest Management
- Productivity and viability assessment and management recommendations for 300 ha (Old Northern Rd), 9 year old MIS plantation – Caboolture and 50 ha at Stern Road.
- Implementation of above plan, including repairs to all internal roads, 12 km external fencing, removal of woody weeds etc.
- Continued involvement with property management proposals and implementation.

Lend Lease
- Grazing capacity assessment on 409ha property
- Forest standing timber assessment and valuation as preparation of a harvest
Moy Pocket - Integrated Agricultural Land Use
Plantation establishment and management, native forest management integrated with cattle grazing.
- 22 ha Commercial Eucalypt plantation in 4 stages,
- 3 ha Commercial Rainforest plantation
- Design and construction of all infrastructure including roads, tracks, dams and fences.
- Cell-grazing system for cattle management
- Weed management plan

Powerlink Qld
- Liaison with Griffith Uni in the assessment and management planning of land at Somerset Dam to be used as a koala offset.

North Deep Creek – Eucalypt Plantation
Heavily degraded ex pineapple farm.
- 70 ha Commercial Eucalypt plantation, 3 of 4 stages complete. 7.5 ha revegetation, 3 of 4 stages complete.
- 27 ha erosion mitigation works.
- Rationalization of all infrastructure including roads, tracks, 2 dam rebuilds and fences.
- Grazing management plan.
- Weed removal and disposal.
- Ongoing management of all forest types as well as infrastructure works.
Queensland Rural Adjustment Authority (QRAA)
- Total standing timber evaluation on 800ha property at Monto for acquisition as a result of Vegetation Management Act

Gympie Regional Council
- Establishment of a 6ha trial effluent irrigated Hardwood plantation at Imbil
- Fire Management Plan for 3 timber reserves
- Establishment of plantation at Imbil for use as Koala fodder for Australia Zoo
- Revegetation of Simpkins Reserve, Brooloo.
- Allens Park, Chatsworth – Woody Weed removal and Revegetation
- The Sands, Mary River, Revegetation and Weed Treatment
- 10 year lease to Manage the Woodworks Museum
- 10 year lease to repair and manage heritage listed Elgin Vale steam driven sawmill

Other Projects in brief
- Sandy Creek - 12 ha plantation establishment and maintenance
- Double Island Point, National Conservation Park - 5 year process of total weed removal followed by a comprehensive staged revegetation and maintenance process
- Lone Hand Lane, Cooroy - total reforestation 17 ha.
- Lone Hand Road, Cooroy - 5.5 ha Commercial plantation, revegetation.
- Palmwoods - 4.5ha weed removal infrastructure, develop forest establishment.
- Maroochy Shire Council - 2.4 ha Riparian revegetation contract.
- Maroochy Shire Council - management & extension services.
- Blankensee Road - 16ha Commercial plantation, 2ha revegetation.

Forestry Training, Education and Development

Capacity building has been an integral function of our organisations for more than 10 years. We have developed a full range of workshop series with supporting literature, forming the keystone to successful on-ground forest development over a wide range of sites, resources and landholder capabilities. ‘In field’ adult education processes such as demonstration and participation has been crucial for the successful teaching of the critical elements of timing and process in forest establishment and management. The use of private property developments as demonstration sites for workshops, field days and bus trips presents participants with a working example of best practice management and the on-ground recognition of silvicultural theory.
• Development of environmental field assessment protocols for the impacts of forest management including biodiversity, forest structure, habitat (arboreal and ground level), ground cover, soil erosion and Code compliance.

• Development of a DAFF FarmReady Accredited 5 day Native Forest Management (NFM) Workshop series, covering all aspects of NFM. In the last 24 months workshops have been completed at Gympie, Gin Gin, Eidsvold, Murgon, Esk, Beaudesert, Rathdowney, Boonah, Crow’s Nest, Cooyar and Kilcoy

• Training Manual and Management Guides for Dry, Wet and Cypress forests, Fire Management and its impacts on wood production, Hardwood Products and their specifications and values, Model Contracts and Contractor Management, working within the Code of Practice for NFM on freehold land

• Wondai [Silver Lining Foundation] - several consultancies to design and oversee training and development programs for indigenous youth in plantation establishment and management, revegetation processes, erosion mitigation, including appropriate design/construction of infrastructure, nursery construction & operation and seed collection & storage. The concepts of total property management and best practice 'fee for service' operations have supported the instigation of four(4) major natural resource management projects and several private contracts for the group.

• Training with the Burungu Corporation at Wujal Wujal in Far North Qld. A submission is being developed with a full Forest Management Plan under the Australian Forestry Standard to be considered under the Wet Tropics Management Plan to have the forestry activity reinstated on land which was previously a government owned Timber Reserve under active extractive management until the late 1980's.
• Hardwood Plantation Establishment and Management field days, including matching species to site, plantation layout and planning, site preparation, planting techniques, weed and pathogen controls, pruning and thinning, aligning management for specific product development, harvesting and marketing and product recognition

• Taxation Seminars outlining the tax related implications of plantation development including obtaining a Commissioner’s Discretion.

• The Gympie Woodworks Museum & Interpretive Centre is managed by Private Forestry Service Qld under a 10 year agreement with Gympie Regional Council. The Museum is being transitioned from a community asset to an educational facility and world class showcase of the Timber Industry in SE Qld.

www.pfsq.net
Publications and Papers

Paper Presentations

- IUFRO 3.08 International Conference (Sunshine Coast) - 2015
- Australian Forest Growers Biennial Conference - Lismore 2014, (2 presenters)
- United Australian Arborist Association Conference - Melbourne 2013
- Australian Forest Growers Biennial Conference - Gympie 2012 (4 presenters)
- ENVOL International Symposium – Beppu, Japan 2012
- ENVOL International Symposium – Beppu, Japan 2010 and 2011
- International Union of Forest Research Organisations Conference Lawn (Victoria) 2002, Gérardmer, France 2008
Publications

- Sustainable Native Forest Management (Case Studies in managing private native forests)
- Five Forest Management Guides
- Fire Management Guide
- Non-Remnant Forest Management Guide
- Vegetation Management Act Landholder Guide
- Common Native Timber Trees of Southern Queensland

Scientific Capacity

We maintain a close working relationship with DPI&F H&FS, (two past Scientists are on our board), as well as University of Queensland and Griffith University. PFSQ has a current joint project with Griffith University ACIAR project FST/2012/043 – Enhancing Economic Opportunities Offered by Community and Smallholder Forestry in the Solomon Islands. PFSQ’s role is forest assessment training to landholders and Forestry staff.

Data Collection and Interpretation

All sites have been established based on DPI protocols.

- Development of environmental field assessment protocols and infield processes for plot establishment measuring the impacts of forest management including biodiversity, forest structure, habitat (arboreal and ground level), ground cover, soil erosion and Code compliance
- Establishment of a permanent series of native forest growth and environmental monitoring sites (202 plots on 20 properties). All sites record tree diameter, crown health, ground cover and regeneration data. 4 sites also measure erosion factors, ground and arboreal habitat scores, floral diversity and grass species and their annual production:
  - Sites established include Wide Bay Water, Crows Nest, Ravensbourne, Rathdowney, Nanango, Iron Pot, Kin Kin, Gundiah, Gin Gin, Esk, Miva, Boororan, Monto, and Bauple
  - Development of Databases for the storage and evaluation of above data
- Twenty three permanent growth plots have been set up in established plantations throughout the region on a range of soil type, aspect, stocking rates and species differentiation. The plots are used to estimate future products and measure growth increments in diameter, height, tree form functions, crown lift, crown health scores and stocking.
- Development of 'A-D Rapid Assessment' GIS based forest health rapid assessment tool, now being used in assessment protocols. The tool has been constructed in Arcmap and automatically locates the assessment point via GPS onto the aerial imagery mapping. The assessment process works through a field of 20 forest function criteria against a score of 3-5 drop downs. Each of the criteria has a weighting based on the importance of the function and at the completion of the individual criteria assessment the program automatically scores the forest health of the forest as an A,B,C or D and marks it with the associated coloured dot on the aerial imagery of the regional mapping.

**Forest carbon sink management capacity**

**Previous projects (establishment and trade)**

PFSQ has undertaken a full benchmark assessment of Wide Bay Water’s plantation to estimate the potential carbon sequestered per year. A permanent network of plots was established to form the basis for measuring future growth across the whole plantation estate. The plots were also used to measure soil carbon improvements over time. PFSQ is working with Wide Bay Water to secure a sale initially to RACQ and to other groups as it progresses.

The above process forms the basis for the carbon assessment and auditing process. A forest’s future sequestration begins with detailed soil carbon analysis to benchmark future sequestered soil carbon and a network of plots is established to provide data of sequestered rates to ensure any sales on the future market will meet its expectations. PFSQ is well versed with the Carbon Toolbox program. We have an extensive expertise in establishing and monitoring permanent growth plots within plantation and native forests and an established database for storage and analysis of the data.