

PIRSA Fisheries & Aquaculture Cost Recovery Program

GULF ST VINCENT PRAWN FISHERY

FOR THE YEAR ENDING AT 30 JUNE 2018



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Information current as of June 2017

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Summary Table –Gulf St Vincent Prawn Fishery

2016-17 (\$)	Program Area	2017-18 (\$)	COMMENTS	DAYS	FTE
RESEARCH COSTS					
134,722	Stock Assessment and Monitoring	137,614	Year 2 of 3 year SARDI project scope.		
8,353	Economic Assessment	8,422	As per contracted services 2017-18		
377	Other Research	385	Contribution towards Threatened and Endangered Species		
PIRSA RELATED COSTS					
40,762	Policy and Management	41,625	Same level of service as previous year	45	0.23
978	Legislation	1,002	Same level of service as previous year	1	0.01
2,812	Licensing	2,892	Same level of service as previous year	4	0.02
24,136	Compliance	24,480	Same level of service as previous year	20	0.10
2,649	Directorate	2,712	Same level of service as previous year	3	0.02
OTHER COSTS					
3,432	FRDC	6,498	Funding based on 2014-15 GVP - fishery closed 2012-13 and 2013-14.		
31,100	Co-Management Services	28,500	Co-Management Services requested by industry for 2017-18		
\$249,321	TOTAL	254,130			

Licence Fee 2017-18 (\$)	
Licence Fee	25,413
<i>Licence Fee 2016-17 (\$)</i>	
<i>Licence Fee</i>	<i>24,932</i>

Program Daily Charge Out Rate

DAILY RATE (\$)	Compliance	Directorate	Legislation	Licensing	Policy
Total Employee Expenses	609	575	685	460	582
Total Operating Expenses	325	136	123	71	150
Deprecation and Capital Costs	78	0	0	8	0
Total Other Expenses*	213	193	193	185	193
TOTAL DAILY RATE	1,224	904	1,002	723	925

Please Note: All dollar values have been rounded to the nearest dollar figure.

* Other expenses includes ICT, finance, human resources, WHS, accommodation, insurance and other costs incurred corporately in providing services to divisions, apportioned across PIRSA using a range of cost drivers such as number of logons, headcount, volume data and other workload indicators, in accordance with PIRSA's cost recovery policy. It excludes the costs of servicing government and costs too far removed from the activity such as Ministerial Offices, Office of the Chief Executive, Strategic Communications and Engagement and the PIRSA Policy Unit, for example.

Introduction

Wild catch commercial fisheries in South Australia continue to be managed in accordance with the PIRSA Cost Recovery Policy. This policy requires commercial fishery licence fees to fund services related to commercial fisheries management costs. PIRSA Fisheries & Aquaculture continue to manage the process of consulting with service providers and relevant industry associations to establish fishery based management programs which form the basis of annual licence fees.

For each sector, the program required to manage the fishery has the following components:

- Assessment and Research Services;
- Fisheries Policy and Management Services;
- Compliance Services, including communication, enforcement and monitoring activities;
- Support Services, including Legislation, Licensing and Business Services (Directorate).

This documentation provides a framework to assist in establishing appropriate research, policy, compliance and support services to manage a fishery.

Management Objectives 2016/17 to 2018/19

Long term objectives - Gulf St Vincent	Outcomes 2016/17 to 2018/19	Fishery Policy and Management	Compliance	Assessment and Research	Leasing and Licensing
<p>Maintain ecologically sustainable stock levels</p> <p>Ensure Optimum utilisation and equitable distribution</p>	<p>Implement new management plan under <i>Fisheries Management Act 2007</i>.</p> <p>Monitor new management framework</p> <p>Transition the fishery to an ITQ management framework, pending outcomes of industry consultative process</p>	<p>Lead implementation of new management plan</p> <p>Monitor and review new management arrangements to facilitate economic efficiency and autonomous adjustment.</p> <p>Manage the fishery in accordance with the management plan.</p> <p>Address recommendations from independent review, where appropriate.</p> <p>Preparation, attendance and participation in meetings, where necessary</p> <p>Lead development and implementation of arrangements to transition the fishery to an ITQ management framework</p> <p>Continue implementation and management of existing programs</p>	<p>Implement compliance program, in accordance with risk assessment.</p> <p>Support implementation of management plan.</p> <p>Support development of arrangements to transition the fishery to an ITQ management framework</p> <p>Support development of new management arrangements, where required.</p>	<p>Address recommendations from independent reviews, where appropriate.</p> <p>Conduct and report on fishery-independent survey.</p> <p>Produce annual stock assessment report to assess fishery performance and inform harvest strategy.</p> <p>Support implementation of management plan.</p> <p>Provide scientific advice to harvest strategy development.</p> <p>Support development of arrangements transition the fishery to an ITQ management framework</p> <p>Support development of new management arrangements, where required.</p> <p>Continued refinement of bio-economic model</p>	<p>Support implementation of management plan, including issue of 5-year licences.</p> <p>Support development of arrangements transition the fishery to an ITQ management framework</p> <p>Support development of new management arrangements, where required.</p>
<p>Minimise impacts on the ecosystem</p>	<p>Maintain DotE EPBC Act accreditation</p>	<p>Annual Reporting to maintain DotE EPBC Act accreditation</p>			

<p>Cost-effective and participative management of the fishery</p>	<p>Effective engagement with the industry, in accordance with agreed co-management arrangements.</p>	<p>Maintain regular communication with industry representatives. Be accessible to licence holders. Support development of industry led management advisory committee.</p>	<p>Provide advice on compliance arrangements or requirements where necessary throughout the licensing year</p>	<p>Maintain regular communication with industry representatives and licence holders.</p>	<p>Provide ongoing support for licensing queries.</p>
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Fisheries Policy and Management Program

GULF ST VINCENT PRAWN FISHERY

FOR THE YEAR ENDING AT 30 JUNE 2018

All enquiries

Program Manager

Jon Presser, General Manager Fisheries Policy and Management Unit
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Program Summary

The Fisheries Policy and Management Unit of PIRSA Fisheries & Aquaculture undertakes activities such as day-to-day management, long-term planning and policy development for South Australian commercial, recreational and Aboriginal traditional fisheries

The Fisheries Policy and Management unit has the following core functions:

- Administer the *Fisheries Management Act 2007* and regulations.
- Day-to-day management of fisheries resources, to ensure catch and effort levels are commensurate with resource sustainability.
- Develop and implement management plans, including harvest strategy development and ESD risk assessment, in accordance with the *Fisheries Management Act 2007*.
- Provide advice to the Minister for Agriculture, Food and Fisheries, Chief Executive and Deputy Chief Executive on matters relating to fisheries.
- Represent the Director, Fisheries & Aquaculture Policy and Director, Operations on committees and other forums on matters related to the administration of the *Fisheries Management Act 2007*.
- Develop over-arching policy frameworks to support fisheries management.
- Build and maintain relationships with key stakeholders, with a particular focus on the commercial and recreational fishing sectors.
- Progress Australian Government recommendations under EPBC Act assessment.

Objectives

To provide day-to-day fisheries management services for the Gulf St Vincent Prawn Fishery to government and industry, as well as advice and facilitation of fisheries policy and management issues, through the Fisheries Policy and Management Program.

PROGRAM STRATEGIES AND SUPPORTING ACTIONS & INITIATIVES

Program Delivery

1. Participate in inter and intra-departmental meetings and workshops on issues relevant to fisheries management
2. Liaise within the Fisheries and Aquaculture Division, with SARDI Aquatic Sciences, other parts of PIRSA and other State and Commonwealth agencies on matters relevant to fisheries management
3. Liaise within PIRSA, with other government agencies and with industry representatives in implementing decisions relevant to fisheries management
4. Conduct regular assessment or review of existing management arrangements for fisheries management, including analysis of statistical information on fisheries and interactions with threatened, endangered and protected species
5. Coordinate consultation with fishery stakeholders through established co-management processes
6. Participate in industry liaison in the field and on vessels to strengthen fishery management knowledge and understanding, and develop rapport with licence holders and divers.
7. Participate in industry development initiatives related to fisheries management
8. Attending to general correspondence and enquiries relevant to fisheries
9. Provide advice to Minister in relation to the management of fisheries and Ministerial correspondence
10. Communicate on fisheries management issues to key stakeholder groups and the broader community

Anticipated Outcomes

- Provision of clear instructions for complex legal drafting or compilation of drafts of simple legislative instruments in consultation with the legal manager as necessary for the management of the Gulf St Vincent Prawn Fishery (regulations, closure notices, licence conditions, Ministerial exemptions etc).
- Provide advice to the Minister or his/her delegate on setting total allowable commercial catch and effort levels for the Gulf St Vincent Prawn Fishery
- Prepare policies to support fisheries management
- Prepare submissions to enable regular assessment of the Gulf St Vincent Prawn Fishery under the EPBC Act
- Prepare annual report to the Australian Government on EPBC Act requirements for the Gulf St Vincent Prawn fisheries
- Prepare regular fisheries status reports
- Develop and maintain day-to-day productive working relationships and outcomes through cooperative management and collaboration with stakeholders
- Further the development of co-management arrangements

Performance Indicators:

1. Strong industry and government involvement in co-management relationship and adherence to formally agreed co-management arrangements.
2. Develop and implement management plan. Management plans to include harvest strategies that protect sustainability of the fishery based on ESD risk assessment processes.
3. Australian Government recommendations met in relation to EPBC assessment.
4. Setting of TACC for Gulf St Vincent Prawn Fishery

Program Effort Allocation

The table below includes an abbreviated suite of core activities and initiatives used to manage risks and reflect the anticipated split of effort and associated costs.

Strategy/Activities	Days	FTE	Cost (\$)
Policy and Management	45	0.23	41,625
TOTALS	45	0.23	41,625

Please Note: All dollar values have been rounded to the nearest dollar figure.

Legal Services Program

GULF ST VINCENT PRAWN FISHERY

FOR THE YEAR ENDING AT 30 JUNE 2018

All enquiries

Program Manager

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Program Summary

PIRSA Fisheries & Aquaculture Directorate provides legal services to the Deputy Chief Executive and all other members of the Division, in particular the policy group, on a daily basis. Among other things these services include strategic advice and problem solving, review of draft documentation and correspondence, statutory interpretation and the provision of general advice and statutory interpretation, in consultation with the Crown Solicitor's Office where necessary, regarding any legal issues relating to proposed actions and the implementation or administration of Gulf St Vincent Prawn fisheries management and regulatory arrangements through existing legislative frameworks and licence conditions. Consideration is also given to the impacts and effects of other related legislation if and when required.

Objectives

To provide legal services supporting the implementation of necessary, appropriate and effective statutory and administrative changes to government administration of all fishery sectors, as well as strategic advice and facilitation of related policy development, legislative and regulatory issues, through the Legal Services Program.

PROGRAM STRATEGIES AND SUPPORTING ACTIONS & INITIATIVES

Anticipated Outcomes

1. Co-ordinate the introduction, amendment or revocation of Fisheries legislation in line with Fisheries Policy decisions i.e. Act or regulation amendments, the introduction of new regulations and drafting of other legislative and administrative instruments such as delegation, permit or exemption instruments as required under the *Fisheries Management Act 2007* (the Act). New regulations or amendments require the drafting of Cabinet submissions and supporting documentation, including the preparation of drafting instructions, for consideration by Cabinet. This service includes co-ordinating the cabinet process involving liaison with the Office of Parliamentary Counsel and the Crown Solicitor's Office and inter agency consultation to ensure that proposed regulatory arrangements are accurately described, drafted and scrutinised before being implemented.
2. Review licensing arrangements required on an as needs basis to appropriately implement approved fishery management policy and measures within the limitations of the Act. The service includes working with the Licensing program (part of Systems and Information) where necessary to implement efficient administrative systems and finalise forms and instruments that are legally sound.
3. Problem solve together with the provision and co-ordination of legal advisory services in liaison with the Crown Solicitor's office relating to the implementation and administration of the Act, Regulations and fisheries management policies, interaction with other Acts, and the defence of those policies and arrangements raised in litigation or industry correspondence.
4. Coordinate applications for Ministerial exemptions under Part 10 Division 1 and Permits under Part 7 Division 2 of the Act.
5. Additional legal services to support, on an as needs basis, the decision-making of the Director Fisheries and Aquaculture Policy and the Director Operations and other delegates of the Minister under the Act to safeguard the ongoing sustainability of a fishery in any particular year (where required), depending on positive or negative scientific indicators, to implement new fisheries management arrangements (for example the introduction or variation of a quota system) or new administrative or compliance arrangements (for example, changes to licensing processes, conditions, introduction of closures).

6. Support compliance for statutory interpretation, problem solving and correspondence advice (per above).

Program Effort Allocation

The table below includes an abbreviated suite of core activities and initiatives used to manage risks and reflect the anticipated split of effort and associated costs.

Strategy/Activities	Days	FTE	Cost (\$)
Legislation	1.00	0.01	1,002
TOTALS	1.71	0.01	1,002

Please Note: All dollar values have been rounded to the nearest dollar figure.

Leasing and Licensing Program

GULF ST VINCENT PRAWN FISHERY

FOR THE YEAR ENDING AT 30 JUNE 2018

All enquiries

Program Manager

Rob Falco, Manager, Leasing and Licensing
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Program Summary

The fisheries leasing & licensing within PIRSA Fisheries & Aquaculture is responsible for the management of licensing and quota monitoring services.

This business unit provides a range of services related to the timely processing and management of information leading to the issue of licences and other reporting services.

The unit administers a licensing call centre for licence inquiries and other administrative services. The success of these functions is based on maintaining the Primary Industries Information Management System (PIIMS) database.

Objectives

To provide leasing and licensing services to government and industry through the Leasing and Licensing Program.

PROGRAM STRATEGIES AND SUPPORTING ACTIONS & INITIATIVES

Anticipated outcomes

1. Issue licences to licence holders in an accurate and timely manner.
2. Provide accurate and timely information related to licences.
3. Provide reports as required.

Services to directly support the fishery:

1. Renew and maintain fishery licences.
2. Database management for licence renewal.
3. Collect licence fees and associated payments.
4. Compose and send quarterly instalment notices.
5. Record and track unpaid invoices.
6. Compose and send late payment instalment notices for un-paid quarterly instalments.
7. Draft and issue notices to fishers.
8. Process requests for information from fishers who make such inquiries over the counter, through the call centre, via facsimile or e-mail. For example, helping fishers to process information relevant to licence renewal forms, application for licence transfers, boat changes, gear enquiries and fishing regulations.
9. Regularly update information about licence holders.
10. Research and prepare documents for public record.
11. Liaise with government stakeholders to verify the credentials of fishers.
12. Liaise with PIRSA Fisheries & Aquaculture, SARDI Aquatic Sciences, Crown Solicitors and other state and local agencies on matters relevant to the fishery.

13. Draft and update licence conditions over the duration of the licensing year as determined by the Deputy Chief Executive, Fisheries and Aquaculture and the Director, Fisheries and Aquaculture Policy.
14. Provide information to licence holders relating to the requirements pursuant to licence administration.
15. Manage calls from fishers regarding late payment notices, fees and general enquiries about their licences.
16. Provide support regarding an increased frequency of last minute administrative enquiries from fishers. e.g., master changes and quota transfers, as well as provide advice and support to fishers on licence information, to complete the required forms.

Services to support fisheries management:

1. Participate in inter and intra departmental meetings and workshops on issues relevant to the fishing industry.
2. Liaise with relevant staff within PIRSA Aquaculture and Fisheries in implementing decisions relevant to the fishery.
3. Interrogate the PIIMS database to extract information for other stakeholders to use in preparing reports.
4. Prepare reports requested by internal and external customers including maintenance of a public register of licence holders.
5. Liaise with information technology providers to maintain PIIMS and administer licensing requests.
6. Generate quota management reports to update stakeholders on varying Total Allowable Commercial Catch (TACC) returns and end of season quota holdings.

Program effort allocation

The table below includes an abbreviated suite of core activities and initiatives used to manage risks and reflect the anticipated split of effort and associated costs.

Strategy/Activities	Days	FTE	Cost (\$)
Leasing and Licensing	4	0.02	2,892
TOTALS	4	0.02	2,892

Please Note: All dollar values have been rounded to the nearest dollar figure.

Directorate Program

GULF ST VINCENT PRAWN FISHERY

FOR THE YEAR ENDING AT 30 JUNE 2018

All enquiries

Program Manager

Chiara Ciui, Business Manager

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Program Summary

Business Strategy, within Directorate of PIRSA Fisheries & Aquaculture, provides a range of services to support fisheries management. These include coordinating the cost recovery process and establishing agreements with service providers; coordinating program provider reports; administering external contracts and agreements; and providing audit, financial and human resource functions.

Objectives

To provide support services to government and industry, as well as advice and facilitation of corporate related policy and management issues, through the Directorate Program that incorporates the Fisheries & Aquaculture Business Strategy Unit.

PROGRAM STRATEGIES AND SUPPORTING ACTIONS & INITIATIVES

Anticipated Outcomes

1. Coordinate and facilitate cost recovery processes and program agreements, including liaising with program providers, managers and financial services as required.
2. Attend meetings relating to cost recovery, licence setting and related policy issues.
3. Develop and review cost recovery policy, processes and program agreements.
4. Manage major service providers' contractual agreements, and co-management services contractual agreements with industry associations
5. Project manage and administer external contractual services and agreements – including liaising with PIRSA Accredited Purchasing Unit, preparing acquisition plans and selecting evaluation criteria, managing tender processes, drafting purchase recommendations and liaising with the Crown Solicitor's office to develop contractual agreements.
6. Provide advice on procurement and invoicing requirements.
7. Consult with the Deputy Chief Executive, Director Fisheries and Aquaculture Policy, Director Operations, PIRSA fisheries managers, and the Office of the Minister and other parties as needed.
8. Ongoing review, development and documentation of the cost recovery model, framework, processes and roles.
9. Meet agreed timeframes on management and administration of external contractual services.
10. Appropriate management of industry funds and services.

Program Effort Allocation

The table below includes an abbreviated suite of core activities and initiatives used to manage risks and reflect the anticipated split of effort and associated costs.

Strategy/Activities	Days	FTE	Cost (\$)
Directorate	3	0.02	2,712
TOTALS	3	0.02	2,712

Please Note: All dollar values have been rounded to the nearest dollar figure.

Fisheries Compliance Operations Program

GULF ST VINCENT PRAWN FISHERY

FOR THE YEAR ENDING AT 30 JUNE 2018

All enquiries

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Compliance Program Summary

PIRSA Fisheries and Aquaculture teams coordinate compliance activities (outputs) to build awareness and behavioural outcomes that have a long term beneficial impact in the Gulf St Vincent Prawn Fishery. The objective of the compliance activities (outputs) is to minimise the risks to aquatic resource sustainability, resource allocation and access rights and ultimately commercial economic viability.

The outputs of the Gulf St. Vincent Prawn Compliance Plan are primarily delivered by teams located in Largs North and the Offshore Patrol Operations, FPV Southern Ranger. Support is also provided as required from other Regional Operation teams and the Intelligence and Strategic Support team.

The coordination of the compliance outputs is guided by an industry specific compliance plan which was developed in consultation with industry. These outputs are aimed at educating fishers, deterring opportunistic and financially motivated crimes, enforce the rules and regulations and reducing overall compliance risks to resource sustainability.

A diagrammatic representation of the PIRSA compliance model is shown as a Program Logic Model (Appendix 1). This identifies the high level relationships and intended causal links between fisheries compliance inputs, outputs and intended program outcomes.

The elements of the compliance Program Logic Model are also linked to a new assessment tool (Maturity Model) that was developed during National Fisheries Compliance Committee (NFCC) workshops. The Maturity Model allows a weight of evidence approach to assess the efficacy of the compliance outputs and the outcomes achieved. This is designed to support decisions that achieve a shared view between Sardine industry and PIRSA and the existence of a mature sustainable fishery.

Compliance Inputs

Compliance inputs are the resources and constraints that frame the delivery of the compliance outputs or activities. This covers policies, legislative and regulatory frameworks, program funding, human resourcing, information technology systems and research. The compliance inputs for the Gulf St. Vincent Prawn Fishery are identified herein.

Legislative and Regulatory Framework

Fisheries Management Act 2007

Fisheries Management (Fish Processors) Regulations 2007

Fisheries Management (General) Regulations 2007

Fisheries Management (Demerit Points) Regulations 2009

Fisheries Management (Prawn Fisheries) Regulations 2006

Gulf St. Vincent Prawn Fishery Management Plan

Program Effort, Funding & Resources

The level of effort required to deliver the compliance program in accordance with the dedicated plan is reviewed annually taking into account;

- previous effort required to deliver established programs developed over last 10 years

- the identified risks to the fishery and any associated changes
- shifts or changes to the fishery management
- changes to fishing practices
- additional pressures or influences on fishers or the fishery
- intelligence holdings
- trends or change behaviours that required monitoring and/or investigation
- cost effectiveness and identified efficiencies
- any other relevant information required to deliver an effective compliance program to monitor and enforce the rules and regulations for each fishery

PIRSA has continually reviewed the Gulf St. Vincent Prawn Fishery compliance program, gaining efficiencies through intelligence driven and targeted operations and re-directing compliance effort where necessary to address current and emerging issues and risks.

It should also be noted that for the year ending 30 June 2016 PIRSA expended an additional 2 days of effort above the cost recovered program. The table below includes the number of days predicted to reflect the anticipated split of effort and associated costs to deliver the compliance outputs for 2017/18.

Table 1: GSVP Effort Allocation Against Compliance Outputs

Compliance Outputs	Days	FTE	Cost (\$)
Education Awareness	7	0.035	8,568
Effective Deterrence, Monitoring & Surveillance	12	0.06	14,688
Enforcement	1	0.005	1,224
TOTALS	20	0.10	24,480

Please Note; to comply with Work Health & Safety obligations and evidentiary requirements, operational activities are generally required to be undertaken by a minimum of two (2) officers at any time.

IT Systems, Technology & Data

Fisheries and Aquaculture Compliance Operations are supported by a number of electronic systems which continue to be refined to allow optimum delivery of information in a reliable and timely way. Some of the key systems that assist to drive the compliance outputs include:

- IBase and Analyst Notebooks (Intelligence system)
- FACT (Fisheries and Aquaculture Information Collection Tool)
- Timewise (Effort Reporting Tool)
- Evidence.com (Video Evidence Collection Tool)
- PIIMS (Primary Industries Information Management System – Quota and Licence Information)
- eCatch
- eBrief (prosecutions system)

- Vessel Monitoring System (VMS)
- Commercial Fishing Application

Compliance Delivery Outputs

The coordination of compliance outputs is guided by an industry specific compliance plan which was developed in consultation with the Gulf St. Vincent Prawn Industry. The plan ensures compliance effort is intelligence driven, efficient, and cost effective and outcome focused. The compliance plan comprises three core outputs (Education and Awareness, Effective Deterrence and Appropriate Enforcement) and is optimised towards increasing voluntary compliance and maximising effective deterrence.

Analysis of intelligence and information holdings is regularly conducted to identify the major risks to the sustainable harvest of Prawns. The combination of strategies, actions, and initiatives are critical to focus the primary compliance effort to manage the risks and achieve targeted outcomes. The details are identified herein.

Intelligence

- Information collection.
- Analysis and testing of information voracity.
- Provide recommendations for targeted operations.
- Develop strategic assessments.

Education and Awareness

- Conduct education meetings with new entrants into the fishery and participate in industry days.
- Provide electronic distribution of educational material to fishers and licence holders.
- Ensure all interested parties understand their respective obligations.
- Develop Industry communication & relationship programs to facilitate discussion of topics such as compliance inspection outcomes, bycatch and other issues impacting the Gulf St. Vincent Prawn Fishery.
- Ongoing one on one education during inspections

Effective Deterrence, Monitoring and Surveillance

- Ensure all aspects of monitoring, such as prior reporting, that chain of custody requirements are met in keeping information provided, and auditing of declared fishing nights.
- Ensure all aspects of commercial fishing activities are monitored such as inspections of catch at sea, when landed, in transit and at fish processing premises.
- Conduct intelligence driven operations that give rise to appropriate enforcement action
- Respond to reported incidents/issue
- Communicate activities in formal reporting

Enforcement

- Investigate reports of non-compliance and where appropriate take action

- Issue expiations and caution notices
- Prepare briefs of evidence for the Crown Solicitors office to consider the commencement of court enforced actions
- Communicate enforcement outcomes in formal reporting
- Service of suspension notices

Risk Assessment and Management (work priorities)

PIRSA use information obtained from intelligence, monitoring, surveillance and enforcement processes to assess compliance and sustainability risks to the fishery. This subsequently informs work priorities for service delivery. The priorities are prone to change during the fishing season however the following are currently relevant to the Gulf St. Vincent Fishery.

1. Fish in Closed Areas or Outside Prescribed Areas and Times
2. Failing to Prior Report Tradeable Fishing Nights
3. Take Protected or Non Permitted Species
4. Use Illegal Fishing Gear
5. Interactions with Obstructions on the Sea Floor

Anticipated Compliance Outcomes

PIRSA will assess the efficacy of the compliance program by evaluating particular outcomes. The outcomes will be in the form of stakeholder awareness, behavior and impact. The evaluation in the form of a maturity model will be used to establish an order of magnitude to support decision making and progress towards a common view of a mature fishery and ultimately co-management.

Awareness

Awareness is a short term outcome that is necessary to prevent unnecessary use of enforcement activities. Awareness constitutes and improved community and stakeholder attitude towards compliance, an improved understanding of legislation and regulation, improved stakeholder buy-in and participation and community support for offence detection. The attributes for each are articulated herein.

Improved community and stakeholder attitude

- Confidence in compliance ability to use statutory and discretionary powers appropriately
- Understanding of the public value of compliance
- Comprehension of services delivered by compliance against the objects of The Act
- Confidence in compliance ability to sustain resource allocation equity amongst direct resource users.

Improved understanding of legislation and regulation

- Understanding fishing obligations
- Legislation and regulation is considered simple and fair to follow.

Improved stakeholder buy-in and participation

- Actively engage with compliance in development of risk assessments, reporting frameworks, reviewing rules
- Collaborative problem solving

Community support for offence detection and sanctions

- Actively provide relevant information
- Industry driven initiatives and evidence of self-regulation

Behaviour

Successful outcomes and long term sustainable fisheries are ultimately driven by behavior that is in the interest of sustainability, ongoing economic viability and public value. The behavioural outcomes that are important to PIRSA include stewardship, voluntary compliance and proactive approaches to compliance issues. The attributes for each are articulated herein.

Stewardship

Stewardship is the aggregation of a number of actions and behaviours where industry is entrusted with the management of the Gulf St. Vincent Prawn resource and the associated compliance of its members within the regulatory and legislative input constraints.

Some of the behaviours of stewardship include:

- An acceptance of change from traditional approaches and attitudes to strong partnerships between government, industry and key stakeholder groups.
- An established mutual trust and respect between government, industry and key stakeholders
- An alignment of values that gives rise to industry and PIRSA communicating the same message focusing on the sustainability of the aquatic resource and associated ongoing economic viability as the primary drivers.
- PIRSA compliance appears seamless to industry. Inputs and outputs are shared. Joint investigations and national problem solving actions are taken by all, collectively and with representative groups engaged in partnership.
- Minimal conflict exists with other stakeholder groups or industry has clear mechanisms or a demonstrated capacity to address the conflict.

Voluntary compliant behavior

- All appropriate attempts to understand and adhere to rules and regulations are made by industry.
- PIRSA Fisheries and Aquaculture compliance is contacted when industry is unable to meet regulatory requirements so an alternative legal solution can be arranged.
- Industry members report other commercial fishers who fail to meet regulatory requirements.

Proactive approaches to compliance issues (incl. participation in governance process)

- Use established industry structures to collaborate on compliance issues to deliver the shared objective of sustainability and public value.
- Actively participate and respond to compliance issues.

- Highlight deficiencies in compliance programs and suggest improvements.
- Influence other industry participants to promote voluntary compliance.

Impact

The awareness and behavior changes will lead to a longer term impact that is reflected in economic and ecological sustainability, broad confidence in the allocation of Sardine between user groups, a confidence in the ability of PIRSA to manage Gulf St. Vincent Prawn resources and an industry that is free from the influence of serious and organised crime. The attributes for each impact is articulated herein.

Ecological and economic sustainability of aquatic resources

- SARDI stock status assessments reflect an ecological sustainability
- Industry reflect economic sustainability

Confidence and equity in resource allocation and access

- Recreational, commercial and Aboriginal fishing stakeholders are confident that the division of Sardine resources is fair and equitable.
- Investment support continues for ecologically and economically sustainable harvest of Prawns.

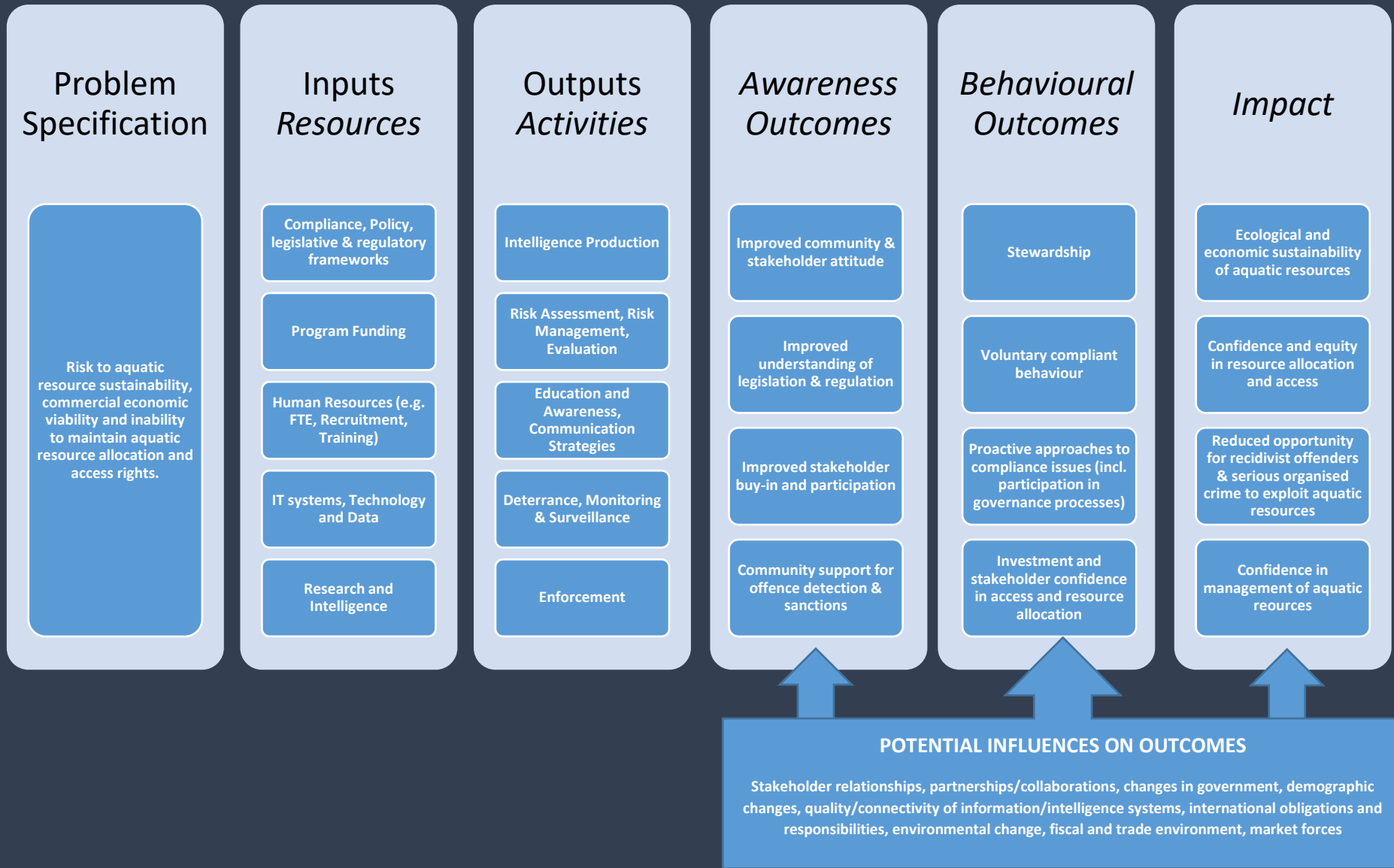
Reduced opportunity for recidivist offenders and Serious Organised Crime to exploit aquatic resources

- Regulators, law enforcement and industry have closed opportunities for Serious Organised Crime to participate in the Gulf St. Vincent Prawn industry.
- Industry has not had any impact resulting from Serious Organised Crime activities for a significant period of time.

Confidence in management of aquatic resources

- Positive public perception in the management of Gulf St. Vincent Prawn stocks.
- Positive consumer perception for commercially harvested Gulf St. Vincent Prawns.
- An absence of adverse industry publicity.

Ecologically Sustainable Development (ESD) and Risk Management Framework



Stock Assessment and Monitoring Program

GULF ST VINCENT PRAWN FISHERY

FOR THE YEAR ENDING AT 30 JUNE 2018

All enquiries

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SCHEDULE 1 - PROJECT SCOPE

1. PROJECT DETAIL

1.1 Title GULF ST VINCENT PRAWN FISHERY

1.2 Client Contact Details

Name: PIRSA FISHERIES AND AQUACULTURE
Address: GPO Box 1625, Adelaide, SA 5001
Attention: Sean Sloan
Email: Sean.Sloan@sa.gov.au
Telephone: 8429 0111
Facsimile: 8226 0434

1.3 SARDI Contact Details

Name: Prof Gavin Begg
Position: Research Chief
Address: SARDI Aquatic Sciences
Email: Gavin.Begg@sa.gov.au
Telephone: 8207 5401
Facsimile: 8207 5406

1.4 Subcontractor/Collaborator

Company Name: Saint Vincent Gulf Prawn Boat Owners' Association Incorporated

1.5 Timeframe

Commencement Date: 1 July 2016
Completion Date: 30 June 2019

1.6 Summary

This is the first three-year research program scope (2016/17–2018/19) for the Gulf St Vincent Prawn Fishery (GSVPF).

This Research Scope continues to reflect the reduced scope of work for the Gulf St Vincent (GSV) prawn fishery that commenced in 2014/15. This reflects (1) the outcomes from two independent reviews (Knuckey *et al.* 2011; Morgan and Cartwright 2013) resulting in a substantial rationalisation of the research program (principally a reduction from four to one fishery-independent survey per year (May); and (2) the closure of the fishery in 2012/13 and 2013/14.

The primary outputs are a gulf-wide fishery-independent survey annually in May (2017, 2018, 2019) and an annual stock assessment report due 31 October (2017 and 2018). The 2015/16 assessment report will be delivered in October 2016 (part of the current SLA) and the 18/19 assessment report will be delivered in October 2019 (part of the next SLA).

2. PROJECT DESCRIPTION

2.1 BACKGROUND

There are currently 10 licence holders in the GSV prawn fishery. Production from the fishery reached 273 t in 2008/09 (excluding survey catch) but declined to 223 t in 2009/10 and 125 t in 2011/12 before it was closed in 2012/13. The number of stock assessment surveys required for the fishery has reduced from four to one (during May) in recent years. The 2013/14 fishing year was an exception, where a 'reduced' survey of 53 shots (normally 112) was conducted in May 2014 to inform stock recovery following an 18-month closure. The fishery re-opened under a quota-night system in November 2014. A full stock assessment survey has been conducted each May since 2015. Comparison of survey results between years provides an effective measure of changes in relative biomass and stock status. Commercial catch/effort and fishery-independent data are integrated in stock assessment and stock status reports.

2.2 NEED

This project addresses the need for scientific information to support sustainable utilisation of prawns in the GSV prawn fishery.

2.3 OBJECTIVES

2.3.1 Collect and analyse FIS data

2.3.2 Collect, collate and analyse fisher logbook information to:

2.3.3 Provide a stock assessment report on objectives 2.3.1 and 2.3.2.

2.4 METHODS

2.4.1 FIS data:

- Surveys to be undertaken with industry using commercial vessels
- Annual FIS in May (2017, 2018, 2019; full survey, 5 boats, 2 nights sampling T-90 and diamond mesh gear).
- Provide independent observers for each boat of the FIS to monitor prawn size and abundance
- Review survey methodology

2.4.2 Fisher logbook information:

- Collate, validate and analyse fisher logbook information

3. DELIVERABLES

3.1 Service Provided:

3.1.1 Collection of basic fisheries statistics

- Manage comprehensive fishing logbook program
- Collate fishing logbook returns and provide an in-confidence service
- Validate returns (consultation with fishers to correct returns)
- Entry of data and storage
- Database administration, maintenance and development.

3.1.2 Collection of biological and fishery-independent survey information

- Collection and storage of size and abundance distributions from FIS
- Collection and storage of size-grade information

- Collection and storage of basic prawn biological data, e.g. fecundity, length-weight relationships

3.1.3 Analysis and reporting

- Provide a stock status report summarising key data

3.1.4 Industry and Policy liaison

- Participate and contribute to PIRSA/industry meetings where needed as the research representative
- Participate in the Gulf St Vincent Prawn Fishery licence holders meetings
- Respond to appropriate requests from PIRSA Fisheries and Aquaculture

3.1.5 Reporting

- Attend GSVPF industry meetings including preparation and follow up
- Keep the industry abreast of research projects relevant to the GSVPF.
- Update SA fisheries status report as required

3.2 Outcomes:

- Stock assessment of the GSVPF
- Advice on the survey results measures against the performance indicators and reference points in the Management Plan
- Advice on harvest strategy development
- Advice to support fishery management from stock assessment outputs

3.3 Outputs and Extension:

- Provide an annual survey report (in the form of an advice note to PIRSA) that summarises survey results by 30 May (2017, 2018 and 2019).
- Provide an annual assessment report on the GSVPF to PIRSA Fisheries and Aquaculture by 31 October (2017 and 2018) that documents, analyses and interprets the available data and assesses the fishery against the performance indicators identified in the Management Plan.
- Annual presentation to PIRSA fisheries and Aquaculture and the Management Committee of the SVGPBOA on the stock assessment of the GSVPF (2017 and 2018)

4. FUNDING ARRANGEMENTS

4.1 PROJECT COSTING POLICY

4.2 PROJECT COST

PROJECT COST	TOTAL FUNDED	TOTAL IN KIND	TOTAL PROJECT COST
SUBTOTAL	\$412,345	\$46,119	\$458,464
GST	NO GST	NO GST	NO GST
TOTAL	\$412,345	\$46,119	\$458,464

4.3 MILESTONE AND PAYMENT SCHEDULE

Date	Milestone	Payment (\$) Ex GST
30 September 2016	2015/16 Status Report	
31 December 2016	First Half Payment 2016/17 SLA	\$67,361
31 May 2017	Advice Note: May 2017 survey results	
31 May 2017	Second Half Payment 2016/17 SLA	\$67,361
31 October 2017	2016/17 Assessment Report	
31 December 2017	First Half Payment 2017/18 SLA	\$68,807
31 May 2018	Advice Note: May 2018 survey results	
31 May 2018	Second Half Payment 2017/18 SLA	\$68,807
31 October 2018	2017/18 Assessment Report	
31 December 2018	First Half Payment 2018/19 SLA	\$70,004
31 May 2019	Advice Note: May 2019 survey results	
31 May 2019	Second Half Payment 2018/19 SLA	\$70,005
31 October 2019	2018/19 Assessment Report	
GST		NO GST
TOTAL FUNDED		\$412,345

5. PROJECT STAFF

Staff	FTE 2016/17	FTE 2017/18	FTE 2018/19
Senior Research Officer	0.15	0.15	0.15
Principal Scientist	0.06	0.06	0.06
Research Officer	0.18	0.18	0.18
TOTAL	0.39	0.39	0.39

SCHEDULE 2 - RESEARCH PROJECT COSTING

1. PROJECT COST SUMMARY

Cost	Detail	2016/17 Total (\$) Ex GST	2017/18 Total (\$) Ex GST	2018/19 Total (\$) Ex GST
Salaries (FTE)		0.39	0.39	0.39
Salaries (\$)		43,505	45,478	46,935
Operating				
Logbook program		11,108	11,440	11,783
Payment to industry for surveys		50,000	50,000	50,000
Fieldwork		4,000	4,000	4,000
Laboratory				
Travel				
Office & communication		1,000	1,000	1,000
Capital equipment				
SARDI overhead		25,109.76	25,695.76	26,291.76
SARDI inkind		14,995	15,370	15,754
Total Cost		149,717	152,984	155,763
Revenue – PRICE				
PIRSA F&A	90%	134,722	137,614	140,009
Total Revenue		134,722	137,614	140,009
SARDI Investment	10%	14,995	15,370	15,754

Breakdown explanations:

Logbook Program

Entry, validation, management and reporting of data

Payment to industry for surveys

Direct costs of using industry vessels and staff to undertake surveys

Fieldwork

Fieldwork costs including vessels, travel and OHS requirements

Laboratory

Costs for processing samples

Travel

Costs for attending meetings with industry, PIRSA F&A and stakeholders⁷

Office and communication

Stationery, communications and publications

Capital equipment