

FISHERIES
& AQUACULTURE
PIRSA

PIRSA Fisheries & Aquaculture Cost Recovery Program

ROCK LOBSTER FISHERY (SOUTHERN ZONE)

FOR THE YEAR ENDING AT 30 JUNE 2019



Table of Contents

Summary Table	3
Program Daily Charge Out Rate.....	4
Introduction.....	5
Management Objectives 2016/17 to 2018/19.....	6
Fisheries Policy and Management Program.....	7
Legal Services Program	10
Leasing and Licensing Program	13
Directorate Program	16
Fisheries Compliance Operations Program.....	18
Stock Assessment and Monitoring Program.....	26

Information current as of November 2017

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Summary Table Rock Lobster Fishery (Southern Zone)

2017-18 (\$)	PROGRAM AREA	2018-19 (\$)	COMMENTS	DAYS	FTE
RESEARCH COSTS					
783,424	Stock Assessment and Monitoring	801,175	Year 3 of 3 year SARDI Project scope.		
20,906	Economic Assessment	21,533	As per contracted services 2018-19		
6,973	Other Research	7,095	Contribution towards Threatened and Endangered Species		
PIRSA RELATED COSTS*					
83,647	Policy and Management	85,487	Same level of service as previous year	90	0.45
15,219	Legislation	15,554	Same level of service as previous year	15	0.08
50,870	Licensing	51,990	Same level of service as previous year	70	0.35
25,795	Directorate	26,362	Same level of service as previous year	28	0.14
1,470,973	Compliance	1,503,334	Same level of service as previous year	1172	5.86
128,927	Quota Monitoring	131,763	Same level of service as previous year	207	1.04
OTHER COSTS					
97,182	E-Catch	97,182	Co-Management Services Project: eScales upgrade and management 2018-19		
72,057	E-Quota Monitoring System Operating	72,057	Co-Management Services Project: Deckhand implementation 2018-19		
253,362	FRDC	253,362	Same level of contribution as previous year		
315,000	Co-Management Services	315,000	Co-Management Services requested for 2018-19		
3,324,335	TOTAL	3,381,894			

Licence Fees 2018-19 (\$)	
Base Fee	7,656
Quota Unit Fee	167
Giant Crab Quota Fee	22.90
By-Catch Fee	4.65

<i>Licence Fees 2017-18 (\$)</i>	
<i>Base Fee</i>	<i>7,559</i>
<i>Quota Unit Fee</i>	<i>164.05</i>
<i>Giant Crab Quota Fee</i>	<i>22.15</i>
<i>By-Catch Fee</i>	<i>9.50</i>

* Indexation rate of 2.2% has been applied to 'PIRSA Related Costs', which is consistent with the rate applied to the 2017-18 regulated fees and charges process.

Program Daily Charge Out Rate

DAILY RATE (\$)	Compliance	Directorate	Legislation	Licensing	Policy	Quota
Total Employee Expenses	622	588	700	470	595	373
Total Operating Expenses	332	139	126	72	153	62
Depreciation & Capital Costs	79	0	0	8	0	4
Total Other Expenses*	217	197	197	189	197	189
TOTAL DAILY RATE	1,251	924	1,024	739	945	628

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.

ROCK LOBSTER FISHERY (SOUTHERN ZONE) MANAGEMENT OBJECTIVES 2016/17 TO 2018/19

Long term objectives	Outcomes 2016/17 to 2018/19	Fishery Policy and Management	Compliance	Assessment and Research	Leasing and Licensing
<p>Ensure the Rock Lobster resource is harvested sustainably</p> <p>Optimum economic utilisation and equitable distribution of the Rock Lobster resource</p>	<p>Maintain Stock at sustainable levels</p> <p>Ensure sufficient data and information is available to undertake harvest strategy</p> <p>Maintain Integrity in quota system</p> <p>Review harvest strategy in 2017/18</p> <p>Review management plan under the <i>Fisheries Management Act 2007</i>, including harvest strategy review in 2017/18</p> <p>Finalise implementation of e-catch reporting arrangements in 2016/17</p> <p>Develop RLFMAC sub-committee to progress regulatory reform initiatives including regulatory reform, licensing transactions and e-business.</p>	<p>Implement harvest strategy under management plan</p> <p>Facilitate review of FIMS</p> <p>Support FRDC project relating to catch rate standardisation and alternative pot design</p> <p>Lead review of management plan, including harvest strategy review in 2017/18</p> <p>Support implementation of e-catch reporting arrangements in 2016/17</p> <p>Support RLFMAC sub-committee to progress regulatory reform initiatives including regulatory reform, licensing transactions and e-business.</p>	<p>Implement compliance program, informed by risk assessment</p> <p>Identify and take action against late logbook returns.</p> <p>Support review of management plan in 2018/19</p> <p>Support implementation of e-catch reporting arrangements in 2016/17</p> <p>Support RLFMAC sub-committee to progress regulatory reform initiatives including regulatory reform, licensing transactions and e-business.</p>	<p>Stock Assessment and monitoring to underpin stock status and stock assessment reports</p> <p>Provide scientific advice to inform decision-making process of harvest strategy</p> <p>Conduct puerulus monitoring program</p> <p>Undertake fishery-independent monitoring survey</p> <p>Facilitate review of FIMS</p> <p>FRDC project relating to catch rate standardisation and alternative pot design (proposal 2016/17, project from 2017//8)</p> <p>Support review of management plan, including harvest strategy review in 2017/18</p> <p>Support implementation of e-catch reporting arrangements in 2016/17</p>	<p>Provide ongoing support for licensing, quota and transfer queries</p> <p>Provide licensing advice in the development of electronic reporting</p> <p>Support review of management plan in 2017/18</p> <p>Lead implementation of e-catch reporting arrangements in 2017/18</p> <p>Support RLFMAC sub-committee to progress regulatory reform initiatives including regulatory reform, licensing transactions and e-business.</p>
<p>Minimise impacts on the ecosystem</p>	<p>Address recommendations from DotE under EPBC Act accreditation</p>	<p>Address DotE recommendations</p>		<p>Monitor TEPS interactions through logbooks</p>	
<p>Cost effective and participative management of the fishery</p>	<p>Support co-management of the fishery</p> <p>Continue to develop electronic catch and effort reporting if appropriate</p> <p>Implement primary outcomes of Rules Review</p>	<p>Support co-management and consultative processes.</p> <p>Participate in co-management and consultative processes</p> <p>Regular communication with industry and attendance at meetings, as required</p> <p>Provide management advice in the development of electronic reporting</p>	<p>Implement compliance program, informed by risk assessment.</p> <p>Provide compliance advice in the development of electronic reporting</p> <p>Industry liaison and attendance at meetings, as required</p>	<p>Participate in the RLMAC as an observer</p> <p>Provide scientific advice in the development of electronic reporting</p> <p>Industry liaison and attendance at meetings, as required</p>	<p>Provide licensing advice in the development of electronic reporting</p> <p>Provide technical advice on implementation of electronic reporting</p>

Fisheries Policy and Management Program

ROCK LOBSTER FISHERY (SOUTHERN ZONE)

FOR THE YEAR ENDING AT 30 JUNE 2019

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 Executive Director, Fisheries & Aquaculture 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 to the Rock Lobster Fishery (Southern Zone) 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

- Prepare day-to-day necessary legislative instruments and/or advice required for the management of the Rock Lobster Fishery (Southern Zone) (regulations, catch limits, closure notices, licence conditions, Ministerial exemptions etc).
- Prepare policies to support fisheries management
- Prepare regular fisheries status reports
- Develop and maintain day-to-day productive working relationships and outcomes through cooperative management and collaboration with stakeholders
- Deliver quality and timely responses to correspondence.
- 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 Rock Lobster Fishery (Southern Zone)

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	90	0.45	85,487

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

Legal Services Program

ROCK LOBSTER FISHERY (SOUTHERN ZONE)

FOR THE YEAR ENDING AT 30 JUNE 2019

All enquiries

Program Manager

Lambertus Lopez, Manager, Legal and Legislative Programs
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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 Rock Lobster 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 Leasing and Licensing) 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 Executive Director Fisheries and Aquaculture 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	15	0.08	15,554

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

Leasing and Licensing Program

ROCK LOBSTER FISHERY (SOUTHERN ZONE)

FOR THE YEAR ENDING AT 30 JUNE 2019

All enquiries

Program Manager

Rob Falco, Manager, Leasing and Licensing
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Program summary

The Fisheries Leasing & Licensing unit 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 Executive Director, Fisheries and Aquaculture.
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	70	0.35	51,990
Quota Monitoring	207	1.04	131,763

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

Directorate Program

ROCK LOBSTER FISHERY (SOUTHERN ZONE)

FOR THE YEAR ENDING AT 30 JUNE 2019

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. Meet with industry on matters 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, Executive Director Fisheries and Aquaculture, 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	28	0.14	26,362

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

Fisheries Compliance Operations Program

SOUTHERN ZONE ROCK LOBSTER FISHERY
FOR THE YEAR ENDING AT 30 JUNE 2019

All enquiries

Program Manager

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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 Southern Zone Rocklobster (SZRL) 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 SZRL Compliance Plan are primarily delivered by teams located in Mt Gambier and Kingston. Support is also provided as required from the other Regional Operation teams, Offshore Patrol Operations 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 the SZRL 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 SZRL 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 SZRL fishery are identified herein.

Legislative and Regulatory Framework

Fisheries Management Act 2007

Fisheries Management (Rock Lobster Fisheries) Regulations 2006

Fisheries Management (Fish Processors) Regulations 2007

Fisheries Management (General) Regulations 2007

Fisheries Management (Demerit Points) Regulations 2009

Fisheries Management (Marine Scalefish Fisheries) Regulations 2007

Fisheries Management (Miscellaneous Fishery) Regulations 2015

Rocklobster Fisheries 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 changed 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 SZRL 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. A large educational and awareness focus has been applied in recent years to assist with the transition of a paper based system to an electronic system and it is proposed that it continue in the 2018/19 financial year. It should also be noted that for the year ending 30 June 2017 PIRSA expended an additional 215 days of effort (~\$268k) 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 2018/19.

Table 1: SZRL - Effort Allocated Against Compliance Outputs

Compliance Outputs	Days	FTE	Cost (\$)
Education Awareness	400	2.00	513,083
Effective Deterrence, Monitoring & Surveillance	592	2.96	759,363
Enforcement	180	0.90	230,888
TOTAL OFFICER DAYS	1,172	5.86	1,503,334

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)
- 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 SZRL industry. The plan ensures compliance effort is intelligence driven, efficient, 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 Rocklobster. 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 pre-season education meetings and participate in industry days
- Provide electronic distribution of educational material to fishers and licence holders at the start of the season
- Ensure all interested parties understand their respective obligations and the compliance focus for the coming season
- Develop Industry communication & relationship programs to facilitate discussion of topics such as compliance inspection outcomes and issues impacting the SZRL fishery
- Ongoing one on one education during inspections.

Effective Deterrence, Monitoring and Surveillance

- Ensure all aspects of the Quota Management System are monitored such as prior reporting and chain of custody requirements in electronic catch disposal records (CDR) including auditing
- Ensure integrity of ecatch data sent from the field and deducted from quota
- Ensure all aspects of commercial fishing activities are monitored such as inspections of catch at sea, when landed, in transit and at change of ownership in 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, cautions and court enforced actions.
- Communicate enforcement outcomes in formal reporting
- Service of suspension

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 Southern Zone Rocklobster Fishery.

1. Quota Management System Integrity
2. Take Female Rocklobster with Eggs
3. Take Undersize Rocklobster
4. Illegal Unreported Unregulated Take

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 SZRL 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 Rocklobster between user groups, a confidence in the ability of PIRSA to manage Rocklobster 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 Rocklobster resources is fair and equitable
- Investment support continues for ecologically and economically sustainable harvest of Rocklobster.

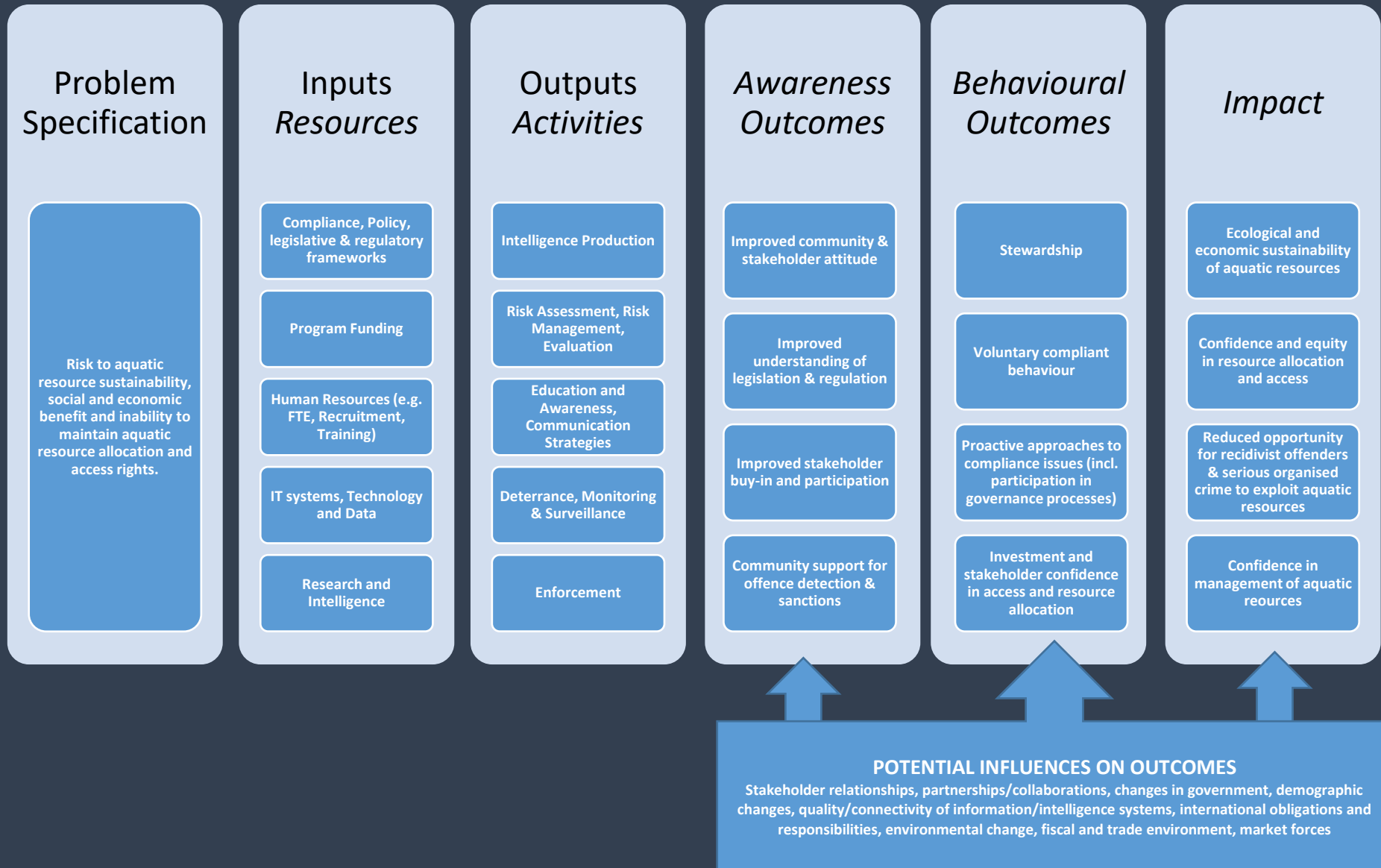
Reduced opportunity for recidivist offenders and Serious Organised Crime to exploit aquatic resources

- Regulators, law enforcement and industry have closed opportunities for Serious Organised Crime in the Rocklobster 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 confidence in the management of Rocklobster stocks
- Positive consumer perception for commercially harvested Rocklobster
- An absence of adverse industry publicity.

Ecologically Sustainable Development (ESD) and Risk Management Framework



Stock Assessment and Monitoring Program

ROCK LOBSTER FISHERY (SOUTHERN ZONE)

FOR THE YEAR ENDING AT 30 JUNE 2019

All enquiries

Client Contact Details

Sean Sloan
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Principal Investigator

Prof Gavin Begg
Research Chief, SARDI Aquatic Sciences
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SCHEDULE 1 - PROJECT SCOPE

1. PROJECT DETAIL

1.1 Title SOUTH AUSTRALIAN ROCK LOBSTER 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
2 Hamra Ave, West Beach, SA 5024
Email: gavin.begg@sa.gov.au
Telephone: 8207 5401
Facsimile: 8207 5406

1.4 Subcontractor/Collaborator

Not Applicable

1.5 Timeframe

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

1.6 Summary

This scope of work will provide PIRSA Fisheries and Aquaculture with the scientific information required to underpin the ecologically sustainable management of the southern rock lobster fishery in South Australia. The core stock assessment and monitoring program for rock lobster is comprised of three key components:

- Project 1 – Annual report on performance indicators;
- Project 2 – Puerulus monitoring;
- Project 3 – Fishery Independent Monitoring Survey (FIMS) – Southern Zone only

2. PROJECT DESCRIPTION

2.1 BACKGROUND

Southern rock lobster (*Jasus edwardsii*) are distributed around southern mainland Australia, Tasmania and New Zealand. In Australia, the northerly limits of distribution are Geraldton in Western Australia and Coffs Harbour in New South Wales but the bulk of the population can be found in South Australia, Victoria, and Tasmania where they occur in depths from 1 to 200 m. In South Australia, the fishery is divided into two zones, Northern and Southern. Lobsters caught using pots that are set overnight and hauled at first light with the majority of commercial catch exported live, mainly to China.

2.2 NEED

Annual stock assessment and status reports are required as part of the ongoing management of the South Australian southern rock lobster resource. The broad statutory framework for the sustainable management of this resource is provided by the *Fisheries Management Act 2007* with specific policies, objectives and strategies to be employed for the sustainable management of the Northern and Southern zones described in the Management Plans for both fisheries (PIRSA 2013, 2014).

2.3 OBJECTIVES

2.3.1 Annual report on performance indicators

To undertake monitoring required to underpin the annual stock assessment and status reports for the Northern and Southern Zone fisheries. The annual stock assessments will report against the key biological performance indicators identified in the Management Plan for both fisheries.

2.3.2 Puerulus monitoring

To monitor annual levels of puerulus settlement and to link settlement patterns to pre-recruit abundance and model estimates of recruitment as a potential indicator of future fishery performance.

2.3.3 Fishery Independent Monitoring Survey (FIMS)

To undertake a fishery independent monitoring survey in the Southern Zone. Data to be incorporated into annual stock assessments to provide information independent of the commercial fishery and to support finer scale assessment. The objective will be to provide a measure of relative abundance not altered by changing fishing patterns and which samples the whole population.

2.4 METHODS

2.4.1 Annual report on performance indicators

Collection of fisheries statistics

- Manage a comprehensive fishing logbook program.
- Collate fishing logbook returns and provide a secure and commercial-in-confidence service.
- Validate returns (consultation with fishers to correct errors).
- Entry and storage of data, providing database administration, maintenance and development.
- Provide mid-season and annual reports (as required by the PIRSA Fisheries and Aquaculture Policy Group) for the northern and southern zone rock lobster fisheries.
- Update relevant chapter in status report for SA fisheries
- Promote and manage a voluntary catch sampling program.

2.4.2 Puerulus monitoring

Service Collectors

- Provide regular monthly servicing of collectors at various sites located across the range of the fishery.
- Repair collectors and collect biological samples.

2.4.3 Fishery Independent Monitoring Survey (FIMS)

- Surveys be undertaken at the beginning (September) and middle (January) of each fishing season along predetermined transects within the fishery.

3 DELIVERABLES

3.1 Service Provided

- Derive indices of catch rate, pre-recruit index, length frequency, biomass, recruitment and egg production. The latter are obtained from stock assessment models.
- Develop and apply stock assessment models for alternative harvest strategy evaluation as required.
- Interpret the performance indicators and report on status of fisheries.

As well as reporting on the performance indicators for the fishery, the project also entails the following deliverables:

- Maintaining the historical data
- Developing the SARL the database
- Improving quality of catch and effort logbook data
- Maintaining current data collection systems
- Collecting, editing, entering and validating catch and effort data, catch sampling data and gear and vessel data
- Monitoring the physical environment
- Maintaining temperature loggers
- Liaising with fishers
- Understanding the broad range of factors effecting the industry that are not necessarily quantifiable through the collection of logbook or other data, but is important to the understanding of the fishery dynamics (e.g. high grading).
- Providing feedback on the voluntary data collection
- Identifying areas of weakness or uncertainty in the assessment of the stocks and developing means by which uncertainty can be minimised and quantified.
- Developing project proposals to create research opportunities in regard to aspects of the lobster fishery and/or biology that are of strategic interest, including projects of interest beyond SA.
- Contributing to the development and/or update of a Strategic Research Plan for the SA lobster fisheries
- Advising the Fisheries Management Committee on a range of issues, for example, the need for changes in levels of total catch, effort, size limits, and advice regarding the extent of ecological interactions and their minimisation.
- Provide outputs for the development of alternative harvest strategies

3.2 Outcomes

- Review and publish annual Status and Stock Assessment Reports for both the Northern and Southern zone rock lobster fisheries.
- Supervision of project, management of deliverables and milestones.
- Provision of verbal and written advice to PIRSA Fisheries and Aquaculture as requested. Provision of advice during review of harvest strategies during management plan reviews when required.
- In relation to the FIMS in the Southern Zone fishery, a briefing report detailing explicit catch from each survey pot to be provided after both September and January surveys.

3.3 Outputs and Extension

- Status and Stock Assessment Reports for both the Northern and Southern zone rock lobster fisheries will be provided to PIRSA Fisheries and Aquaculture and all rock lobster licence holders. Reports will also be posted on the PIRSA website.
- Scientific manuscripts will be published in peer-reviewed international journals.
- Port meetings in both Northern and Southern Zones.
- Mid and Final-season presentations to both the South Australian Research Sub-Committee (RSC) and the Rock Lobster Fishery Management Advisory Committee (RLFMAC).
- Advice Notes to PIRSA Fisheries and Aquaculture.
- Routine data-extraction requests from the South Australian Rock Lobster database.
- Representation at both RSC and RLFMAC meetings.

4. FUNDING ARRANGEMENTS

4.1 PROJECT COSTING POLICY

This three-year research program Scope and Costing has been costed at a Discounted rate.

4.2 PROJECT COST

PROJECT COST	TOTAL FUNDED	TOTAL IN KIND	TOTAL PROJECT COST
STOCK ASSESSMENT	\$3,018,140	\$484,842	\$3,502,982
SZ FIMS	\$342,295	\$11,825	\$354,120
SUBTOTAL	\$3,360,435	\$496,667	\$3,857,102
GST	NO GST	NO GST	NO GST
TOTAL	\$3,360,435	\$496,667	\$3,857,102

FUNDED PROJECT COSTS	2016/17	2017/18	2018/19	TOTAL FUNDED COST
STOCK ASSESSMENT	\$980,838	\$1,006,634	\$1,030,668	\$3,018,140
SZ FIMS	\$112,390	\$114,083	\$115,822	\$342,295
SUBTOTAL	\$1,093,228	\$1,120,717	\$1,146,490	\$3,360,435
GST	NO GST	NO GST	NO GST	NO GST
TOTAL	\$1,093,228	\$1,120,717	\$1,146,490	\$3,360,435

4.3 MILESTONE AND PAYMENT SCHEDULE

Date	Milestone	Payment (\$) Ex GST
31 October 2016	Status report for Southern Zone 2015/16 season Status report for Northern Zone 2015/16 season	
31 December 2016	First Half Payment 2016/17 SLA	\$546,614
31 May 2017	Second Half Payment 2016/17 SLA	\$546,614
30 June 2017	Stock Assessment report for Southern Zone 2015/16 season Stock Assessment report for Northern Zone 2015/16 season	
31 October 2017	Status report for Southern Zone 2016/17 season Status report for Northern Zone 2016/17 season	
31 December 2017	First Half Payment 2017/18 SLA	\$560,358
31 May 2017	Second Half Payment 2017/18 SLA	\$560,358
30 June 2018	Stock Assessment report for Southern Zone 2016/17 season Stock Assessment report for Northern Zone 2016/17 season	
31 October 2018	Status report for Southern Zone 2017/18 season Status report for Northern Zone 2017/18 season	
31 December 2018	First Half Payment 2018/19 SLA	\$573,245
31 May 2018	Second Half Payment 2018/19 SLA	\$573,245
30 June 2019	Stock Assessment report for Southern Zone 2017/18 season Stock Assessment report for Northern Zone 2017/18 season	
TOTAL FUNDED		\$3,360,435

5. PROJECT STAFF

Staff	FTE 2016/17	FTE 2017/18	FTE 2018/19
Principal Scientist	1.30	1.30	1.30
Research Scientist	0.60	0.60	0.60
Research Officers	2.30	2.30	2.30
TOTAL	4.20	4.20	4.20

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)		4.2	4.2	4.2
Salaries (\$)		543,211	560,804	576,406
Operating				
Logbook program		79,974	82,368	84,834
Payment to industry for surveys		79,560	80,750	82,000
Fieldwork		104,344	104,344	104,344
Laboratory				
Travel		4,229	4,229	4,229
Office & communication		10,713	10,713	10,713
Capital equipment				
SARDI overhead		271,198	277,508	283,965
SARDI inkind		161,486	165,522	169,659
Total Cost		1,254,715	1,286,238	1,316,150
Revenue – PRICE				
Licence holders	82.5%	1,044,034	1,070,284	1,094,899
PIRSA F&A	4.5%	49,195	50,432	51,592
Total Revenue		1,093,229	1,120,716	1,146,491
SARDI Investment	13%	161,486	165,522	169,659

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 stakeholders

Office and communication

Stationery, communications and publications

Capital equipment