

Cost Recovery Implementation Statement
Central Zone Abalone Fishery
for the year ending 30 June 2020

Table of Contents

Introduction	3
Summary Table.....	4
Program Daily Charge Out Rate	5
Management Objectives	6
Fisheries Policy and Management Program	8
Legal Services Program.....	10
Leasing and Licensing Program.....	12
Directorate Program.....	14
Fisheries Compliance Operations Program	16
Stock Assessment and Monitoring Program	23

Information current as of June 2019

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Introduction

Wild catch commercial fisheries in South Australia are 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 and 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.

The Government made an election commitment to initiate an independent review of the cost recovery policy of Primary Industries and Regions South Australia (PIRSA) as applied to the fisheries and aquaculture sectors. An independent consultant was engaged to undertake the review and consulted with all fisheries and aquaculture sector representatives and representatives from PIRSA. The final report, with 11 recommendations, was provided to PIRSA in November 2018 and all recommendations were accepted by Government. The report observed that PIRSA's management of both the fisheries and aquaculture sectors has significantly improved since 2015 in terms of increasing transparency and accountability as well as taking significant strides to reduce administrative burden, through the use of longer term cost recovery agreements between PIRSA and individual industry sectors. Implementation of the 11 recommendations from the independent review will further enhance efficiency and transparency of PIRSA cost recovery approach to the Fisheries and Aquaculture sectors.

Consistent with Principle 7 of the PIRSA Cost Recovery Policy, an annual schedule of meetings for stakeholder engagement and support for the cost recovery process in relation to commercial fisheries is outlined below:

Date	Activity	Parties
Sept/Oct	Review long-term objectives for fishery and update if necessary. Identify priority outcomes for upcoming financial year.	PIRSA and industry association
October	Develop policy, research and compliance work programs in readiness for discussions (fisheries managers with industry) in November.	PIRSA
November	Consult relevant industry associations in relation to proposed programs and reach agreement on these programs. Industry associations to consult with wider industry.	PIRSA and industry association
February	Formal meetings with industry associations to finalise work programs and summarise costs.	PIRSA and industry association
March	Submit proposed licence fees to Minister. Prepare Cabinet Submission to amend regulations to prescribe licence fees for the next financial year.	PIRSA and government agencies
June	Invoices sent for annual licence fees.	PIRSA

* Dates above are indicative only and may vary due to unforeseen circumstances that may arise throughout any year.

** If a four-year agreement has been adopted, the Cost Recovery Implementation Agreement (CRIA) will determine that an annual meeting will occur to enable annual stakeholder engagement.

Summary Table

2018-19 (\$)	PROGRAM AREA	2019-20 (\$)	COMMENTS	DAYS	FTE
RESEARCH COSTS					
146,621	Stock Assessment and Monitoring	240,790	Year 1 of 2 year research project scope (averaged cost of 2 year program)		
3,062	Economic Assessment	3,153	As per contracted services 2019-20		
235	Other Research	259	Contribution towards Threatened and Endangered Species		
PIRSA RELATED COSTS *					
14,597	Policy and Management	19,613	Increase in level of service (5 days)	20.43	0.10
1,751	Legislation	1,766	Same level of service as previous year	1.71	0.01
6,293	Licensing	6,480	Same level of service as previous year	8.57	0.04
2,846	Directorate	2,904	Same level of service as previous year	3.09	0.02
214,281	Compliance	217,430	Same level of service as previous year	170.00	0.85
4,313	Quota Monitoring	4,526	Same level of service as previous year	6.86	0.03
OTHER COSTS					
13,970	FRDC	16,053	Funding based on 0.25% of rolling three year average GVP		
407,969	TOTAL	512,974			

Licence Fees 2019-20 (\$)	
CZ Base Fee	17,099
CZ Unit Fee	684
<i>Licence Fees 2018-19 (\$)</i>	
<i>Base Fee</i>	<i>13,599</i>
<i>CZ Unit Fee</i>	<i>544</i>

Program Daily Charge Out Rate

DAILY RATE (\$)	Compliance	Quota	Directorate	Legislation	Licensing	Policy
Total Employee Expenses	620	409	603	702	483	601
Total Operating Expenses	349	50	142	132	71	163
Depreciation and Capital Costs	82	0	0	0	0	0
Total Other Expenses*	228	201	196	196	202	196
TOTAL DAILY RATE	1,279	660	941	1,030	756	960

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.

Fishery Management Objectives

Long term objectives	Outcomes	Fishery Policy and Management	Compliance	Assessment and Research	Leasing & Licensing
<p>Ensure the abalone resource is harvested sustainably</p> <p>Optimum economic utilisation and equitable distribution of the Abalone resource</p>	<p>Maintain Greenlip and Blacklip Abalone stocks above ecologically sustainable levels.</p> <p>Finalise review of the Harvest Strategy and Management Plan.</p> <p>Ensure sufficient data and information is available to implement the Harvest Strategy.</p> <p>Maximise catches for both abalone species within ecologically sustainable limits.</p> <p>Implement improvements to integrity of quota (TACC) management process.</p> <p>Explore suitable economic and social indicators to inform decision-making processes Review fishery Management Plan under the <i>Fisheries Management Act 2007</i>.</p>	<p>Manage fishery in accordance with Management Plan.</p> <p>Set TACC annually, in accordance with the Harvest Strategy.</p> <p>Finalise review of the Harvest Strategy in the Management Plan.</p> <p>Support implementation of industry-based surveys of Blacklip Abalone off Kangaroo Island.</p> <p>Work with industry to achieve outcomes of the workshop in 2018 on meat weight /quota integrity.</p> <p>Facilitate the development of a preliminary diver survey to inform Harvest Strategy decisions.</p> <p>Assist in the development of a FRDC proposal to develop a diver survey to inform the harvest strategy</p> <p>Support the incorporation of new fishery independent data (GPS and data loggers) into the interpretation of stock status.</p> <p>In consultation with industry continue to develop a policy to facilitate the shelving of quota.</p>	<p>Implement compliance program, informed by risk assessment.</p> <p>Implement changes to quota monitoring system.</p> <p>Support review of the Harvest Strategy and Management Plan.</p> <p>Support review of meat weight /quota integrity following 2018 workshop.</p>	<p>Stock Assessment and monitoring to underpin stock status and stock assessment reports.</p> <p>Support the review of Harvest Strategy.</p> <p>Facilitate the development of a preliminary diver survey to inform Harvest Strategy decisions.</p> <p>Support planning, execution and reporting of industry-based surveys of Blacklip Abalone.</p> <p>Assist in the development of a FRDC proposal to develop a diver survey to contribute to Stock Status.</p> <p>Support review of fishery Management Plan in 2019.</p>	<p>Provide ongoing support for licensing, quota and transfer queries.</p> <p>Support implementation of revised fishery management plan.</p>
<p>Minimise impacts on the ecosystem</p>	<p>Disease risk management</p>	<p>Undertake aquatic animal health risk assessment.</p> <p>Provide management advice on fish kills and Perkinsus, as required.</p>	<p>Provide support with investigations of fish kills and Perkinsus, as required.</p>	<p>Provide scientific advice on aquatic animal health risks and support with investigation of fish kills and Perkinsus.</p>	

Long term objectives	Outcomes	Fishery Policy and Management	Compliance	Assessment and Research	Leasing & Licensing
Cost effective and participative management of the fishery	Support co-management of the fishery	<p>Maintain regular communication with industry representatives and be accessible to all licence holders.</p> <p>Provide management advice, where necessary, throughout the licensing year.</p> <p>Progress co-management arrangements consistent with the Co-management Policy.</p>	<p>Maintain regular communication with industry representatives</p> <p>Provide compliance advice, where necessary, throughout the licensing year.</p>	<p>Maintain regular communication with industry representatives.</p> <p>Provide scientific advice to inform decision-making process of new Harvest Strategy.</p>	<p>Maintain regular communication with industry representatives.</p> <p>Provide licensing advice, where necessary, throughout the licensing year.</p>

Fisheries Policy and Management Program

Program Manager

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Program Summary

The Fisheries Policy and Management Unit of PIRSA Fisheries and 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 Primary Industries and Regional Development, Chief Executive and Deputy Chief Executive on matters relating to fisheries.
- Represent the Executive Director, Fisheries and Aquaculture 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 (1999) assessment.

Objectives

To provide day-to-day fisheries management services to for the Central Zone Abalone 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. Continue to progress the development of a quota shelving policy in consultation with industry.
9. Attending to general correspondence and enquiries relevant to fisheries.
10. Provide advice to Minister in relation to the management of fisheries and Ministerial correspondence
11. 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 Central Zone Abalone 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 Central Zone Abalone Fishery.
- Prepare policies to support fisheries management.
- Prepare submissions to enable regular assessment of the Central Zone Abalone Fishery under the EPBC Act (1999).
- Prepare annual report to the Australian Government on EPBC Act (1999) requirements for the Abalone 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 Central Zone Abalone 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	20.43	0.10	19,613

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

Legal Services Program

Program Manager

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Program Summary

PIRSA Fisheries and 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 abalone 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	1.71	0.01	1,766

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

Leasing and Licensing Program

Program Manager

Rob Falco, Manager, Leasing and Licensing
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Program summary

The Fisheries Leasing & Licensing unit of PIRSA Fisheries and 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 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	8.57	0.04	6,480
Quota Monitoring	6.86	0.03	4,526

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

Directorate Program

Program 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	3.09	0.02	2,904

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

Fisheries Compliance Operations Program

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 Central Zone Abalone 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 CZA Compliance Plan are primarily delivered by teams located in Largs North, Yorketown, Moonta, and Kingscote. Support is also provided as required from the three Regional Operation teams, an Offshore Patrol Operations team 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 Central Zone Abalone 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 CZA 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 CZA fishery are identified herein.

Legislative and Regulatory Framework

Fisheries Management (Abalone Fisheries) Regulations 2006
Fisheries Management Act 2007
Fisheries Management (Fish Processors) Regulations 2007
Fisheries Management (General) Regulations 2007 Schedule 2
Fisheries Management (Demerit Points) Regulations 2009
Abalone Fisheries Management Plan
Boarding Vessels at Sea Code of Practice

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 Central Zone Abalone 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.

Following a review and implementation of the quota management system and the anticipated continuous improvements in the QMS integrity, the delivery of the 2015/16 program was further reduced by 5 days to 170 days of effort. It should also be noted that for the year ending 30 June 2018 PIRSA expended an additional ~10 days of effort (~\$13k) above the cost recovered program. In addition, a further ~206 days (~\$260k) of compliance effort was delivered into the recreational Abalone fishery. 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 2019/20.

Table 1: CZA Effort Allocated Against Compliance Outputs

Compliance Outputs	Days	FTE	Cost (\$)
Education Awareness	30	0.15	38,370
Effective Deterrence, Monitoring & Surveillance	115	0.58	147,085
Enforcement	25	0.12	31,975
TOTALS	170	0.85	217,430

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 Central Zone Abalone 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 Abalone. 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 and issues impacting the Central Zone Abalone 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 catch disposal records (CDR) including auditing.
- 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.

- Ensure information from mandated data loggers is being obtained by SARDI.
- Minimize the possibilities of disease spread (eg. AVG and Perkinsus) within the State.
- Ensure Fisheries Officers have an understanding of actions to be taken to minimize a disease outbreak in the fishery.
- 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 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 Central Zone Abalone Fishery.

1. Quota Management System Integrity.
2. Take undersize/ underweight Abalone.
3. Pest and Disease Incursion.
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 and 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 Central Abalone 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 Abalone between user groups, a confidence in the ability of PIRSA to manage Abalone 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 Abalone resources is fair and equitable.
- Investment support continues for ecologically and economically sustainable harvest of Abalone.

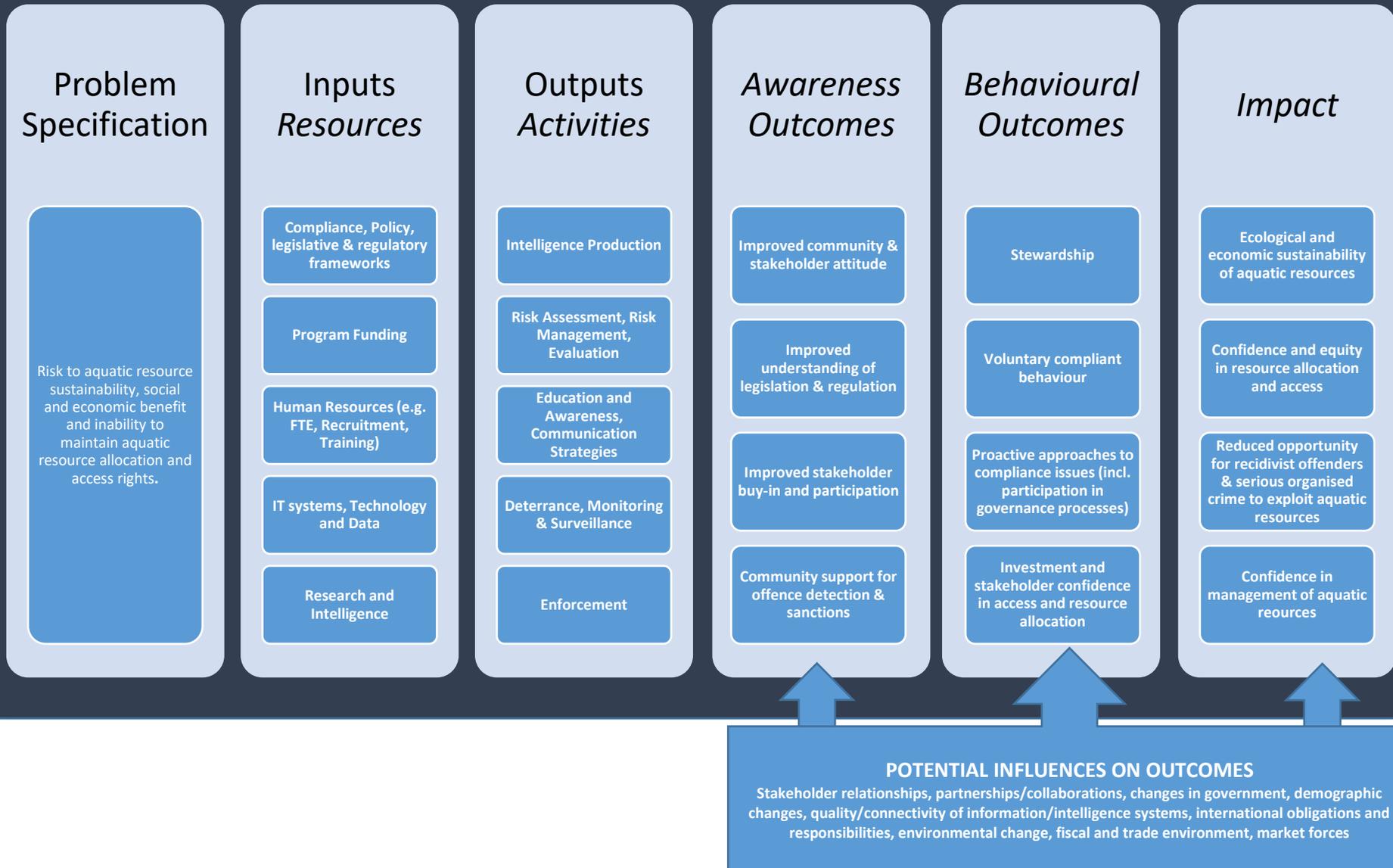
Reduced opportunity for recidivist offenders and Serious Organised Crime to exploit aquatic resources

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

Appendix 1: PIRSA Fisheries and Aquaculture Compliance Program Logic Mode Ecologically Sustainable Development (ESD) and Risk Management Framework



Stock Assessment and Monitoring Program

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SCHEDULE 1 - RESEARCH PROJECT SCOPE

1. PROJECT DETAIL

1.1 Title South Australian Abalone Fishery (Central Zone)

1.2 Timeframe

Commencement Date: 1 July 2019
Completion Date: 30 June 2021

1.3 Summary

This is the seventh Project Scope developed specifically for the Central Zone (CZ) of the South Australian Abalone Fishery. Previous Project Scopes for this Zone rationalised work programs and reporting frameworks across years. Consequently, not all activities are undertaken in the CZ in all years. This scope of work for 2019/20 to 2020/21 maintains that work program and reporting cycle. The scope of work for specifically addresses strategic research priorities for the fishery, which include: application, implementation and review of the harvest strategy; surveys of key fishing areas; fine-scale management and fine-scale fishery assessments, and management of a GPS/depth logger program.

The primary outputs from the research program are:

- (1) A stock assessment report for greenlip (GL) and blacklip (BL; due 31/10/2020;
- (2) A stock status (harvest strategy) report for GL and BL (due 31/10/2019 and 31/10/2021 (i.e. in the subsequent 2021/22 SLA)); and
- (3) 'year-to-date' catch and effort summaries in the form of PowerPoint presentations provided to PIRSA and industry at port meetings to inform TACCs

2. PROJECT DESCRIPTION

2.1 Background

There are four primary components to the research provided by SARDI Aquatic Sciences to PIRSA in support of the CZ abalone fishery. These are:

- (1) collect, collate and analyse commercial catch-effort and catch length-frequency data on both species across the fishery;
- (2) collect, collate and analyse biological data on both species across the fishery;
- (3) biennial, fishery-independent surveys of the abundance of greenlip in two Spatial Assessment Units (SAUs); and
- (4) provision of comprehensive reports that assess relevant fishery-dependent and fishery-independent data, assess fishery performance against performance indicators defined in the Management Plan and detail resource status.

2.2 Need

This project addresses the need for scientific information to support sustainable utilisation of abalone in the South Australian Abalone Fishery and application of the harvest strategy identified in the Management Plan for the fishery.

2.3 Objectives

- 2.3.1** Provide PIRSA with stock assessment and stock status reports for GL and BL in the CZ;
- 2.3.2** Provide PIRSA with a biomass estimate from leaded-line surveys in the Tiparra Reef and West Yorke Peninsula Spatial Assessment Units;
- 2.3.3** Provide PIRSA with scientific advice to support the sustainable management of the CZ of the South Australian Abalone Fishery, including TACC setting in accordance with the Management Plan;
- 2.3.4** Assist PIRSA with implementation of the Abalone Fishery Management Plan, including review of the Harvest Strategy; and
- 2.3.5** Provide PIRSA and industry with 'year-to-date', catch and effort data summaries to support TACC setting.

2.4 Methods

- 2.4.1** Collect, collate, store and analyse commercial catch-effort and catch length-frequency data, including those from GPS/depth loggers on both species across the fishery;
- 2.4.2** Collect, collate, store and analyse biological information for GL and BL representative of the key populations;
- 2.4.3** Collect, collate, store and analyse the time-series of abundance for GL in the Tiparra Reef and West Yorke Peninsula SAUs;
- 2.4.4** Review and apply the Harvest Strategy to determine zonal status for each species using the methods described in the Management Plan; and
- 2.4.5** Document and interpret the research findings.

3. DELIVERABLES

3.1 Service Provided:

3.1.1 Collect, collate and store fishery-dependent (catch and effort) data

Manage a comprehensive fishing-logbook.

Manage a GPS/depth logger program including loan of electronic logging equipment to each vessel.

Enter data received into a secure database.

Administer, maintain and develop the database.

Securely store original logbook returns.

Validate returns, including consultation with fishers to correct errors.

3.1.2 Collect, collate, store and analyse data on the size composition of the commercial catch

Receive, collate, store and analyse data on the size composition of the commercial GL and BL catch from licence holders.

3.1.3 Analyse abalone population biological data

Store and analyse biological data representative of the fishery.

3.1.4 Collect, collate, store and analyse abundance-survey data for GL at sites across the fishery

Maintain the time series of the abundance and size composition of GL in the CZ. Surveys (Tiparra Reef and West Yorke Peninsula) to be undertaken in 2019/20. There are no surveys in 2020/21.

3.1.5 Management and quality assurance of research data

Provide effective storage and management of research data.

3.1.6 Apply Harvest Strategy

Apply the harvest strategy using the approach detailed in the Management Plan.

3.1.7 Analysis and interpretation

Interpret the results of the research program in reports and presentations. Determine stock status for each species.

3.1.8 Catch/effort/survey summaries

Provide presentations summarising year-to-date information for both species across the fishery at TACC and other relevant meetings.

3.1.9 Fishing strategies

Assist PIRSA and Industry with the implementation of fine-scale management for the fishery.

Assist PIRSA with implementation of the Abalone Fishery Management Plan.

Assist PIRSA and Industry with the identification of management options for the fishery.

3.1.10 Project management

Ongoing supervision of projects.

New project development and implementation.

Management of deliverables including quality control.

Liaise with PIRSA, industry, State and Commonwealth agencies on matters relevant to the fishery.

Participate in industry development initiatives.

Work with PIRSA and stakeholders to identify research priorities and to develop and implement new projects, including review of the Harvest Strategy.

Collaborate on proposed/existing projects

Update relevant chapter in status report for SA fisheries

3.2 Outcomes:

The principal outcome will be scientific advice to support sustainable management of the CZ abalone fishery.

3.3 Outputs and Extension:

There are three principal output and extension elements:

- (1) A stock assessment report for GL and BL will be provided for the CZ by 31 October 2020;
- (2) a stock status report for GL and BL in the CZ will be provided for the CZ by 31 October 2019 and 31 October 2021 (i.e. in the subsequent SLA); and
- (3) 'Year-to-date', catch and effort data summaries (PowerPoint presentations) for GL and BL will be provided to PIRSA and at 'port' meetings to support TACC setting

4. FUNDING ARRANGEMENTS

4.1 PROJECT COSTING POLICY

This Research Project Scope and Costing has been costed at a Discounted rate.

4.2 PROJECT COST

Financial Year	Total Funded by Licence Holders \$ (GST N/A)	Total SARDI In-kind \$ (GST N/A)	Total Project Cost \$ (GST N/A)
2019/20	\$327,036	\$56,592	\$383,628
2020/21	\$154,544	\$30,077	\$184,621
TOTAL PROJECT (over 2 financial years)	\$481,580	\$86,669	\$568,249

4.3 MILESTONE AND PAYMENT SCHEDULE

Date	Milestone	Payment (\$) Ex GST
31 October 2019	GL & BL stock status report	
31 December 2019	Payment 1 of 2019/20 SLA	\$163,518
31 May 2020	Payment 2 of 2019/20 SLA	\$163,518
31 October 2020	GL & BL stock assessment report	
31 December 2020	Payment 1 of 2020/21 SLA	\$77,272
31 May 2021	Payment 2 of 2020/21 SLA	\$77,272
SUBTOTAL		\$481,580
GST		NO GST
TOTAL COST		\$481,580

5. PROJECT STAFF

Staff	2019/20 FTE	2020/21 FTE
Principal Scientist	0.20	0.10
Research Officer	0.75	-
Research Scientist	0.40	0.60
TOTAL	1.35	0.70

SCHEDULE 2 - PROJECT COSTING

1. PROJECT COST SUMMARY

Cost	Detail	2019/20 Total (\$) Ex GST	2020/21 Total (\$) Ex GST
Salaries (FTE)		1.35	0.70
Salaries (\$)		174,643	98,082
Operating (\$)			
Logbook program (\$)		3,438	3,541
Payment to industry for surveys (\$)			
Fieldwork (\$)		49,840	-
Laboratory (\$)		500	-
Travel (\$)		-	500
Office & communication (\$)			
Capital equipment (\$)			
SARDI overhead (\$)		98,615	52,421
SARDI inkind (\$)		56,592	30,077
Total Cost (\$)		383,628	184,621
Revenue – PRICE			
PIRSA F&A (\$)	86%	327,036	154,544
Total Revenue (\$)		327,036	154,544
SARDI Investment (\$)	14%	56,592	30,077

	2019-20	2020-21	Total
Averaged cost to industry over 2 financial years	240,790	240,790	481,580

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