



PIRSA FISHERIES & AQUACULTURE COST RECOVERY PROGRAM

2016-17

**ABALONE FISHERY
(SOUTHERN ZONE)**

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SUMMARY TABLE ABALONE FISHERY – SOUTHERN ZONE

2015-16	PROGRAM AREA	2016-17	COMMENTS	DAYS	FTE
RESEARCH COSTS					
123,828	Stock Assessment and Monitoring	264,440	As per second year of two-year program as per SARDI project scope, with total cost of \$388,268.		
2,911	Economic Assessment	2,960	As per contracted services 2016-17		
226	Other Research	226	Contribution towards Threatened and Endangered Species		
PIRSA RELATED COSTS					
14,202	Policy and Management	13,976	Same level of service as previous year	15.43	0.08
1,723	Legislation	1,676	Same level of service as previous year	1.71	0.01
6,169	Licensing	6,025	Same level of service as previous year	8.57	0.04
2,815	Directorate	2,725	Same level of service as previous year	3.09	0.02
120,755	Compliance	120,680	Same level of service as previous year	100.00	0.50
4,230	Quota Monitoring	4,129	Same level of service as previous year	6.86	0.03
5,400	VMS	5,400	VMS cost is \$900 per licence holder	6.00	0.03
OTHER COSTS					
11,051	FRDC	10,100	Funding based on 0.25% of rolling three year average GVP		
0	Adjustments	-836	Adjustment for 2015-16 over collection		
\$293,310	TOTAL	\$431,501			

Licence Fees 2016-17	\$
SZ Base Fee	15,103
SZ Unit Fee	270.55
<i>Licence Fees 2015-16</i>	
Base Fee	10,497
SZ Unit Fee	182.80

PROGRAM DAILY CHARGE OUT RATE

DAILY RATE (\$)	Compliance	Quota	Directorate	Legislation	Licensing	Policy
Total Employee Expenses	594	362	542	669	448	566
Total Operating Expenses	325	56	153	120	70	151
Depreciation and Capital Costs	79	3	0	0	4	0
Total Other Expenses*	209	181	189	189	181	189
TOTAL DAILY RATE	1,207	602	883	978	703	906

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

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

INTRODUCTION

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

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

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

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

MANAGEMENT OBJECTIVES 2016/17 TO 2018/19

Long term objectives	Outcomes 2016/17 to 2018/19	Fishery Policy and Management	Compliance	Assessment and Research	Systems & Information
<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>Review harvest strategy.</p> <p>Implement fine spatial scale management framework</p> <p>Ensure sufficient data and information is available to implement harvest strategy and fine scale spatial management.</p> <p>Maximise catches for both species within ecologically sustainable limits.</p> <p>Implement improvements to integrity of quota management system.</p> <p>Explore suitable economic and social indicators to inform decision-making processes and for inclusion in next harvest strategy for the fishery.</p> <p>Review fishery management plan under the <i>Fisheries Management Act 2007</i></p>	<p>Manage fishery in accordance with management plan and fine scale spatial management framework.</p> <p>Set TACC annually, in accordance with the harvest strategy.</p> <p>Conduct review of the harvest strategy in the management plan.</p> <p>Facilitate independent review of the stock assessment program, subject to funding availability.</p> <p>Assist Industry to explore suitable social and economic indicators for inclusion in next harvest strategy.</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 contribute to Stock Status.</p> <p>Implement review of season and reporting requirements.</p> <p>Lead review of fishery management plan in 2017/18</p> <p>Assess the need and implement a split of Rivoli Bay into two SAUs if appropriate</p> <p>Work with Industry to evaluate the risks and mitigation measures for shucking at sea.</p> <p>Assist in the transition of the fishery to a GPS tracker and data logger system of gathering fishery</p>	<p>Implement compliance program, informed by risk assessment.</p> <p>Provide compliance advice in the monitoring of fine spatial scale management framework</p> <p>Support review of fishery management plan in 2017/18</p>	<p>Stock Assessment and monitoring to underpin stock status and stock assessment reports</p> <p>Support the review of harvest strategy.</p> <p>Provide scientific advice, in the monitoring of fine spatial scale management framework</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 contribute to Stock Status.</p> <p>Support review of fishery management plan in 2017/18</p>	<p>Provide ongoing support for licensing, quota and transfer queries</p> <p>Provide licensing advice, in the implementation of fine spatial scale management framework</p> <p>Support review of fishery management plan in 2017/18</p>

Long term objectives	Outcomes 2016/17 to 2018/19	Fishery Policy and Management	Compliance	Assessment and Research	Systems & Information
		independent data.			
Minimise impacts on the ecosystem	Disease risk management	Undertake aquatic animal health risk assessment Provide management advice on fish kills, as required	Provide support with investigation of fish kills, as required	Provide scientific advice on aquatic animal health risks and support with investigation of fish kills	
Cost effective and participative management of the fishery	Support co-management of the fishery	Maintain regular communication with industry representatives and be accessible to all licence holders. Provide management advice, where necessary, throughout the licensing year Progress co-management arrangements consistent with the Co-management Policy	Maintain regular communication with industry representatives Provide compliance advice, where necessary, throughout the licensing year	Maintain regular communication with industry representatives Provide scientific advice to inform decision-making process of new harvest strategy	Maintain regular communication with industry representatives Provide licensing advice, where necessary, throughout the licensing year

FINAL DOCUMENT

PROGRAM: FISHERIES POLICY AND MANAGEMENT

PROGRAM MANAGER

Alice Fistr, 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 Executive Director on matters relating to fisheries
- Represent the Director, Fisheries & Aquaculture Policy and Director, Operations on committees and other forums on matters related to the administration of the *Fisheries Management Act 2007*
- Develop over-arching policy frameworks to support fisheries management
- Build and maintain relationships with key stakeholders, with a particular focus on the commercial and recreational fishing sectors
- Progress Australian Government recommendations under EPBC Act assessment

OBJECTIVES

To provide day-to-day fisheries management services to for the Southern 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. 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 Southern 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 Southern Zone Abalone Fishery.
- Prepare policies to support fisheries management.
- Prepare submissions to enable regular assessment of the Southern Zone Abalone Fishery under the EPBC Act.
- Prepare annual report to the Australian Government on EPBC Act 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 Southern Zone Abalone Fishery

PROGRAM EFFORT ALLOCATION

The table below includes an abbreviated suite of core activities reflect the anticipated split of effort and associated costs.

Strategy/Activities	Days	FTE	Cost (\$)
Policy and Management	15.43	0.08	13,976
TOTALS	15.43	0.08	13,976

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

FINAL DOCUMENT

PROGRAM: LEGAL SERVICES

PROGRAM MANAGER

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PROGRAM SUMMARY

The Legal and Legislative Unit of PIRSA Fisheries & Aquaculture Directorate provides legal services to the Group Executive Director 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 Systems and Information) where necessary to implement efficient administrative systems and finalise forms and instruments that are legally sound.
3. Problem solve together with the provision and co-ordination of legal advisory services in liaison with the Crown Solicitor's office relating to the implementation and administration of the Act, Regulations and fisheries management policies, interaction with other Acts, and the defence of those policies and arrangements raised in litigation or industry correspondence.

4. Coordinate applications for Ministerial exemptions under Part 10 Division 1 and Permits under Part 7 Division 2 of the Act.
5. Additional legal services to support, on an as needs basis, the decision-making of the Director Fisheries and Aquaculture policy and the Director Operations and other delegates of the Minister under the Act to safeguard the ongoing sustainability of a fishery in any particular year (where required), depending on positive or negative scientific indicators, to implement new fisheries management arrangements (for example the introduction or variation of a quota system) or new administrative or compliance arrangements (for example, changes to licensing processes, conditions, introduction of closures).
6. Support compliance for statutory interpretation, problem solving and correspondence advice (per above).

PROGRAM EFFORT ALLOCATION

The table below includes an abbreviated suite of core activities reflect the anticipated split of effort and associated costs.

Strategy/Activities	Days	FTE	Cost (\$)
Legislation	1.71	0.01	1,676
TOTALS	1.71	0.01	1,676

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

PROGRAM: LEASING AND LICENSING

PROGRAM MANAGER

Erin Conlon, Manager, Leasing & Licensing
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PROGRAM SUMMARY

The Fisheries Leasing & Licensing Section of PIRSA Fisheries & Aquaculture is responsible for the management of Licensing, Quota Monitoring and VMS 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 quarterly activity report (as required), within one month at the end of each quarter.

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

Services to support fisheries management:

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

PROGRAM EFFORT ALLOCATION

The table below includes an abbreviated suite of core activities reflect the anticipated split of effort and associated costs.

Strategy/Activities	Days	FTE	Cost (\$)
Leasing and Licensing	8.57	0.04	6,025
Quota Monitoring	6.86	0.03	4,129
TOTALS	15.43	0.07	10,154

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

PROGRAM: DIRECTORATE

PROGRAM MANAGER

Chiara Ciui, Business Manager
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PROGRAM SUMMARY

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

OBJECTIVES

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

PROGRAM STRATEGIES AND SUPPORTING ACTIONS & INITIATIVES

ANTICIPATED OUTCOMES

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

PROGRAM EFFORT ALLOCATION

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

Strategy/Activities	Days	FTE	Cost (\$)
Directorate	3.09	0.02	2,725
TOTALS	3.09	0.02	2,725

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

FINAL DOCUMENT

PROGRAM: FISHERIES COMPLIANCE OPERATIONS

PROGRAM MANAGER

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Regional Manager

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STATE COORDINATOR

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Fisheries Officer

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COMPLIANCE PROGRAM SUMMARY

PIRSA Fisheries and Aquaculture teams undertake coordinated compliance activities to educate fishers, deter opportunistic and financially motivated fishery related offences and enforce the rules and regulations.

In consultation with industry a dedicated compliance plan has been developed for the Southern Zone Abalone fishery. This compliance plan was developed to direct effort and ensure compliance activities are intelligence driven, efficient, cost effective and outcome focussed. The compliance plan is underpinned by three core strategies (Education and Awareness, Effective Deterrence and Appropriate Enforcement) and is focussed towards increasing voluntary compliance and maximising effective deterrence.

An analysis of intelligence and information holdings is conducted to identify the major risks for the fishery. A series of strategies, actions, and initiatives are detailed and used to focus the primary compliance effort in order to manage the risks and achieve targeted outcomes.

OBJECTIVES

This program provides a compliance framework to monitor and regulate fishing activities that support the sustainable commercial take of Abalone in accordance with the Act and the Southern Zone Abalone Fishery Management Plan.

The plan provides a focus for Fisheries Officers to undertake coordinated compliance activities to educate fishers, deter opportunistic and financially motivated fishery related offences, and enforce the rules and regulations of the fishery.

Any compliance related risks or emerging trends/issues of significance that arise outside the plan are addressed as required.

The risks and strategies are regularly reviewed and assessed for relevance to ensure compliance activities meet the following objectives:

- Meet the objectives of the *Fisheries Management Act 2007*;
- To promote compliance with the *Fisheries Management (Abalone Fisheries) Regulations 1998*;
- To support meeting the goals and objectives of the Southern Zone Abalone Fishery Management Plan;
- To promote increased voluntary compliance;
- To deliver an effective education and awareness program;
- Continue developing effective deterrence strategies;
- Undertake appropriate enforcement activities;
- Increase integrity in fishery management systems and/or quota systems;
- Promote positive interactions & collaboration with stakeholders;
- To deliver an efficient and effective compliance program.

COMPLIANCE EFFORT

- Monitoring of Southern Zone Abalone fishery management and quota systems for compliance and integrity;
- Offence identification and response;
- Operational and Investigation Planning and Surveillance;
- Risk assessments, trend and threat analysis;
- Master Operational Planning Process;
- Legislative review for efficacy and relevance;
- Industry liaison and education.

ANTICIPATED OUTCOMES

The principal outcome of this compliance program is to support sustainable management of the Southern Zone Abalone fishery by:

- Increased voluntary compliance;
- Continued development of effective deterrence strategies;
- Accurate intelligence and risk predictions;
- Successful enforcement outcomes for repeat or serious offences;
- Development of efficient and cost effective compliance strategies;
- Continued development of stakeholder engagement programs;
- Reduced incidence of reported illegal activity
- Reduced incidence of documentation errors and inconsistencies
- Increased integrity in fishery management systems and/or quota systems
- Increased positive interactions & collaboration with stakeholders

PROGRAM DELIVERY

The Fisheries & Aquaculture Operations Group comprises three Regional Operations teams, an Offshore Patrol Operations team and an Intelligence & Strategic Support team.

The compliance program dedicated to the Southern Zone Abalone fishery is primarily delivered by Fisheries Officers from the Limestone Coast Region with support, as required, by officers from within the Intelligence & Strategic Support team.

PROGRAM STRATEGIES AND SUPPORTING ACTIONS & INITIATIVES

The compliance program is tailored to the Southern Zone Abalone fishery and uses a number of initiatives and actions that fall under the three core strategies of Education & Awareness, Effective Deterrence and Appropriate Enforcement. These initiatives and actions are outlined in the SZA fishery compliance plan which has been developed in consultation with the sector.

PROGRAM EFFORT ALLOCATION

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 the fishery

PIRSA has continually reviewed the Southern 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.

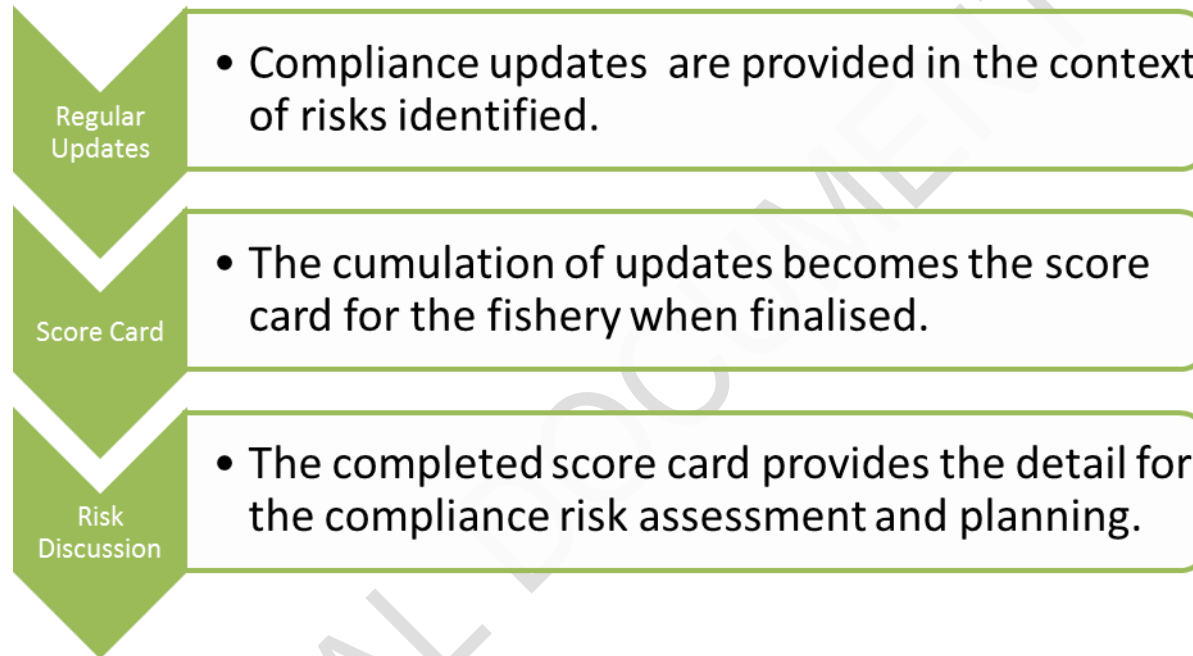
The table below includes an abbreviated suite of the core activities and initiatives used to manage the risks. The table also includes days allocated to reflect the anticipated split of effort and associated costs.

Strategy/Activities	Days	FTE	Cost (\$)
Education Awareness <ul style="list-style-type: none"> • 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 program to facilitate discussion of topics such as the Quota Management System Integrity review and subsequent change management process. • Ongoing one on one education during inspections 	53	0.265	63,960
Effective Deterrence <ul style="list-style-type: none"> • Ensure all aspects of the Quota Management System are monitored such as chain of custody requirements in catch disposal records (CDR) including auditing. • Ensure all aspects of commercial fishing activities are monitored such as inspections spatial units catches, landings, transit and at change of ownership to fish processor • Conduct intelligence driven operations and use appropriate enforcement action • Respond to reported incidents/issues • Communication Strategy 	39	0.195	47,065
Enforcement <ul style="list-style-type: none"> • Investigate reports of non-compliance and where appropriate take action • Issue expiations, cautions and court enforced actions. 	8	0.04	9,654
TOTALS	100	0.50	120,680

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.

All values have been rounded to the nearest dollar figure

SOUTHERN ZONE ABALONE FISHERY – 2016/17 RISK ASSESSMENT & COMPLIANCE PROGRAM



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SOUTHERN ZONE ABALONE FISHERY RISKS

TAKE ABALONE LESS THAN MINIMUM LEGAL SHELL LENGTH	Likelihood: Possible	Consequence: Severe	Risk Rating	MODERATE
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Risk Attribute	<ul style="list-style-type: none"> Abalone not measured before sending to surface. Multiple size limits within fishery. Risk of taking undersize abalone and declaring them from another SAU
Legislative & Regulatory Framework	<ul style="list-style-type: none"> <i>Fisheries Management (General) Regulations 2007 Schedule 2</i> Abalone Fisheries Management Plan Objective “4c Management arrangements complied with” Demerit Points
Implication	<ul style="list-style-type: none"> PIRSA require a compliance presence to deter the potential for opportunistic/systemic harvest of Abalone which doesn’t meet regulated sizes. PIRSA require an on water compliance presence to deter the potential for declaring u/s abalone as coming from an area with a smaller size limit. Potentially greater numbers taken to harvest
Control Measure	<ul style="list-style-type: none"> Pre-season education meetings and periodic industry meetings Boarding vessels at sea and checks at processors Requirement to use a measuring gauge when taking Abalone Prior reporting when changing SAU’s VMS Minimum legislated shell lengths established by science

SOUTHERN ZONE ABALONE FISHERY RISKS

QUOTA MANAGEMENT SYSTEM INTEGRITY	Likelihood: Occasional	Consequence: Severe	Risk Rating	HIGH
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Risk Attribute	<ul style="list-style-type: none"> Failure to accurately weigh abalone at processor Fail to declare whole catch Fail to consign all Abalone to processor for weighing
Legislative Framework	<ul style="list-style-type: none"> Fishery Management Plan Object 4c. Management arrangements complied with
Implication	<ul style="list-style-type: none"> PIRSA require a compliance presence to deter/investigate opportunities to subvert the QMS Inaccurate knowledge of what is taken from the sea and deducted from quota
Control Measure	<ul style="list-style-type: none"> Pre-season education meetings and electronic distribution of educational information to fishers and licence holders Checks at landing, in transit and at processors Prior reporting when changing SAU's CDR completed upon landing Catch contained within sealed bins upon landing VMS Obligation of fishers to deliver all Abalone to nominated processors for weighing Obligation of processor to immediately weigh catch unless landed whole Catch Data Records and Catch and Effort Returns

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SOUTHERN ZONE ABALONE FISHERY RISKS

QUOTA EVASION	Likelihood: Possible	Consequence: Severe	Risk Rating	MODERATE
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Risk Attribute	<ul style="list-style-type: none"> Abalone taken without being deducted from quota
Legislative Framework	<ul style="list-style-type: none"> <i>Fisheries Management (Abalone Fisheries) Regulations 2006 Clause 20</i>
Implication	<ul style="list-style-type: none"> Abalone taken but not deducted from quota gives a competitive advantage to the fisher Abalone not deducted from quota is not captured on documentation which impacts scientific modelling If quota evasion is systemic, the sustainability of the species would be threatened with potential of local extinction.
Control Measure	<ul style="list-style-type: none"> CDR documentation Sealed bins and tags Checks at landing Prior reporting when changing SAU's VMS

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SOUTHERN ZONE ABALONE FISHERY RISKS

OTHER Compliance risks identified within the fishery that may occur which will be addressed as they are detected

Other Risks	<ul style="list-style-type: none">• Pest and Disease Incursion• Fishing in Closed Areas• More than one diver undertaking fishing activities at a time• Taking non-permitted species (species not listed on Schedule)• Taking protected species• Inconsistent understanding of legislated and regulatory obligations by commercial operators• Closure of lines of communication between PIRSA / Industry• Failure to lodge SARDI catch and effort returns• Inaccurate or misleading reporting of catch location and volume on SARDI returns
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FINAL DOCUMENT

		CONSEQUENCES					
		NEGLECTIBLE	MINOR	MODERATE	SEVERE	MAJOR	CATASTROPHIC
		0	1	2	3	4	5
LIKELIHOOD	REMOTE	1					
	RARE	2					
	UNLIKELY	3					
	POSSIBLE	4			QUOTA EVASION TAKE UNDERSIZE		
	OCCASIONAL	5			QUOTA MANAGEMENT SYSTEM INTEGRITY		
	LIKELY	6					

LIKELIHOOD DEFINITIONS		CONSEQUENCE DEFINITION	
LIKELY	It is expected to occur	CATASTROPHIC	Local extinctions are imminent / immediate
OCCASIONAL	May occur	MAJOR	Likely to cause local extinctions, if continued in longer term
POSSIBLE	Some evidence to suggest this is possible here	SEVERE	Affecting recruitment levels of stocks / or their capacity to increase
UNLIKELY	Uncommon, but has been known to occur elsewhere	MODERATE	Full exploitation rate, but long term recruitment / dynamics not adversely impacted
RARE	May occur in exceptional circumstances	MINOR	Possibly detectable, but minimal impact on population size and none on dynamics
REMOTE	Never heard of but not impossible	NEGLECTIBLE	Insignificant impacts to population. Unlikely to be measurable against background variability for this population

RISK RATING				
Negligible	Low	Moderate	High	Extreme

PROGRAM: STOCK ASSESSMENT AND MONITORING

SCHEDULE 1 - PROJECT SCOPE

1. PROJECT DETAIL

1.1 Title South Australian Abalone Fishery (Southern Zone)

1.2 Client Contact Details

Name: PIRSA FISHERIES & 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 Principal Investigator

Name: Stephen Mayfield
Position: Subprogram Leader: Molluscan Fisheries
Address: 2 Hamra Ave, West Beach, SA 5024
Email: stephen.mayfield@sa.gov.au
Telephone: 0401 122 108
Facsimile: 8207 5406

1.4 Timeframe

Commencement Date: 1 July 2015
Completion Date: 30 June 2017

1.5 Summary

This is the fourth Project Scope developed specifically for the Southern Zone (SZ) of the South Australian Abalone Fishery and the second two-year Project Scope for this Zone. This SZ abalone research program is guided by the harvest strategy described in the Management Plan for the fishery with previous rationalisation of work programs and reporting frameworks across years retained. Consequently, not all activities are undertaken in the SZ in all years. The scope of work for 2015/16 and 2016/17 specifically addresses strategic research priorities for the fishery, which include: ongoing application, implementation and review of the harvest strategy; surveys of key fishing areas; implementation of fine-scale management and fine-scale fishery assessments.

The primary outputs are (1) a stock status report for greenlip (GL) and blacklip (BL) in the SZ (due 30/06/2016); (2) a stock assessment report for greenlip GL and blacklip BL in the SZ (due 30/06/2017); (3) completion of fishery-independent surveys in the high-importance spatial assessment units; and (4) 'up-to-date' catch and effort summaries in the form of PowerPoint presentations provided to PIRSA and industry at port meetings to inform TACC discussions.

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 SZ 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) fishery-independent surveys of the abundance of both species at sites located across the fishery; 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 a stock assessment report for GL and BL in the SZ

2.3.2 Provide PIRSA with a stock status report for GL and BL in the SZ;

2.3.3 Continue fishery-independent surveys to monitor stock status and possible disease incursions;

2.3.4 Provide PIRSA with scientific advice to support the sustainable management of the SZ of the South Australian Abalone Fishery, including TACC setting in accordance with the Management Plan;

2.3.5 Assist PIRSA and industry with implementation of finer-scale, spatial management of the fishery; and

2.3.6 Provide PIRSA and industry with 'up-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 on both species across the fishery;

2.4.2 Collect, collate, store and analyse biological information for BL representative of the key populations;

2.4.3 Collect, collate, store and analyse the time-series of abundance for BL at sites across the fishery;

2.4.4 Apply 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 program.

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

Obtain data on the size composition of the commercial BL catch, ensuring licence holders are aware of the need for representative sampling of the major populations.

3.1.3 Collate, store and analyse biological data representative of the major abalone populations

Validate, store and analyse biological data across the fishery.

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

Maintain and develop the time series of the abundance and size composition of BL and GL in the SZ. Surveys to be undertaken in the No. 2 Rocks, Gerloffs Bay and Middle Point Spatial Assessment Units.

3.1.5 Management and quality assurance of research data

Provide effective storage and management of research data.

3.1.6 Apply Harvest Strategy

Using the approach detailed in the Management Plan, determine the risk of overfishing for GL and BL in each Spatial Assessment Unit and, subsequently, determine zonal status for each species.

3.1.7 Analysis and interpretation

Interpret the results of the research program in reports and presentations.

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 fine-scale management of 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.

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.

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 SZ abalone fishery.

3.3 Outputs and Extension:

There are three principal output and extension elements:

- (1) a stock status report will be provided for the SZ by 30 June 2016;
- (2) a stock assessment report will be provided for the SZ by 30 June 2017
- (3) fishery-independent surveys will be undertaken in high-importance Spatial Assessment Units; and
- (4) 'Up-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

PROJECT COST	2015/16	2016/17	(\$ Ex GST
SUBTOTAL	123,828	264,440	388,268
GST	NO GST	NO GST	NO GST
TOTAL	123,828	264,440	388,268

4.3 MILESTONE AND PAYMENT SCHEDULE

Date	Milestone	Payment (\$) Ex GST
31 December 2015	First Half Payment 2015/16 SLA	61,914
3 May 2016	Second Half Payment 2015/16 SLA	61,914
30 June 2016	Southern Zone stock status Report	
31 December 2016	First Half Payment 2016/17 SLA	132,220
31 May 2017	Second Half Payment 2016/17 SLA	132,220
30 June 2017	Southern Zone stock assessment Report	
SUBTOTAL		388,268
GST		NO GST
TOTAL COST		388,268

5. PROJECT STAFF

Staff (if identified)	Position	2015/16 FTE Commitment	2016/17 FTE Commitment	Funded/ In-Kind
S Mayfield	Principal Scientist	0.15	0.30	Funded
A Hogg	Research Officer	0.30	0.55	Funded
J Carroll	Research Scientist	0.05	0.05	Funded
G Ferguson	Research Scientist	0.05	0.20	Funded
P Hawthorne	Research Officer	0.00	0.10	Funded
TOTAL		0.55	1.20	

SCHEDULE 2 - PROJECT COSTING

1. PROJECT COST SUMMARY

Cost	Detail	2015/16 Total (\$) Ex GST	2016/17 Total (\$) Ex GST
Salaries	0.55/1.20fte	64,955	147,153
Operating			
Logbook program		4,191	4,284
Payment to industry for surveys		0	0
Fieldwork		5,200	26,300
Laboratory		0	
Travel		14,100	7,950
Office & communication		400	700
Capital equipment		0	0
SARDI overhead		34,982	78,053
SARDI inkind		25,053	56,027
Total Cost		148,881	320,467
Revenue – PRICE			
PIRSA F&A	83%	123,828	264,440
Total Revenue		123,828	264,440
SARDI Investment	17%	25,053	56,027

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