

## **Fishery Resource Advisory Group (FRAG)**

Meeting 3/2015  
Monday August 24, 2015 – 10.30am  
IMAS, Nubeena Crescent Tarooma

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### **Minutes**

#### **Present:**

##### **Members:**

Ian Cartwright (Chair), Joey McKibben, Dean Lisson Greg Woodham, Darvin Hansen, Avril Brown, Alan Gray, Ben Cobbing, Matt Bradshaw (DPIPWE), Craig Mundy (IMAS), Jillian Freeman (minutes),

##### **Observers:**

John Ramsden, Eileen Thorpe, Mel Porteus, Bev Amos, Alice Marriott, Max Marriott, R Bock, G Hughes, Phil Pyke, Jeremy Huddleston, Roger King, Greg Hughes, Byron Ransom, Tim Lesser, Peter Kossman, Steve Crocker, Hugh Jones (IMAS) Kate Simpson & Allison Webb (Victorian Fisheries)

#### **Apologies:**

D Tarbath, Alan Hansen, John Hout, Rob Scanlon, P. Richardson

#### **1. Welcome and opening remarks:**

The Chair welcomed members and observers, and outlined that the main purpose of the meeting was to get an overall view of the status of resource, from the IMAS data and industry input in support of making recommendations for the 2016 TAC.

The three stage process for FRAG meetings proposed by the Abalone Council, which has now been adopted by the FRAG was used as a framework for the meeting. These are:

- i) Part 1 – Informal, unminuted closed discussion for FRAG members only, to discuss agenda and key issues, usually 0900-1000.
- ii) Part 2 – The full FRAG meeting with observers present, run using the FRAG agenda and minuted.
- iii) Part 3 – FRAG members only concluding session, at which any additional recommendations for the FAC/TAC Board arising out of Part 2 of the meeting will be finalised/clarified.

The need for observers to advise the TAC office of their attendance in advance of the FRAG was emphasised.

## 2. Matters brought forward from the FRAG pre-meeting:

The following issues were discussed at the pre-FRAG meeting and brought forward for full discussion by the FRAG.

### *Eastern Zone*

- The priority areas for discussion and consideration for management action is the Western Zone followed by East and South zones
- It appears that some areas of the fishery are more suited to the MCDA process than others e.g. there appears to be conflicting information concerning recorded catch rates and MCDA outputs for some areas of the East Coast – consequently there is some questions about the rate of rebuild. Consequently IMAS suggest using the 2015 assessment strategy for 2016.
- There is increasing market/processor pressure to select for larger fish which is likely to be having impact on some catch rate data..

### *Western zone*

- The West coast continues to trending down
- The TAC for 2015 is 840t for the Western Zone, with some suggestion for consideration of a 2016 TAC of 700t ( 200kg per unit) in order to ‘get under’ the falling catch rate and ensure stock rebuilding at an acceptable rate is achieved.
- There is a need to maintain confidence in the industry both fiscally balanced and long-term sustainability. There are 2 approaches to discuss and determine;
  1. Have a stepped approach of taking a reduction of around 20% over 2 years (216kg/unit).
  2. A one large reduction of 20% in2016 – if this approach is to be taken then a firm rationale to do this needs to be developed.

### *Upper Western Zone (new)*

The catch for 2015 for this spatial area will be around 100T. With the boundary change in 2016 the TAC will be 87t.

### *Northern Zone*

*The TAC for 2015 is 224t. The suggested TAC for 2016 minus Block 5 is 150t (43kg/unit)*

### *The fishery*

The regional TACs being considered represent a 479 kg/unit. It was considered by some that a sustainable business is 500kg/unit

It is noted that the South Australia fishing zones are depleting rapidly.

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## 3. Adoption of agenda;

The agenda as circulated was agreed with minor additions.

## 4. Minutes of the previous meeting:

Members agreed the minutes of the FRAG meeting held on Monday June 15, 2015 should be accepted as an accurate record.

## 5. Actions Arising from Previous Meeting:

**Action 1. Joey McKibben set a date for a meeting to progress target and limit reference points and drive the process;**

**Ongoing** – meetings have been held with further input from the trends in the fishery. Next FRAG meeting to be provided with a progress report

**Action 2. Raise concerns with the Minister concerning the tendency of a small number of industry members who do not attend FRAG or other meetings, subsequently seek to overturn advice made through established advisory processes.**

**Ongoing** - Minister Rockliff has arranged a meeting with The Chairman at 1.45pm on November 19 2015.

**Action 3. IMAS to support Dean at AbFAC to create a process to re-build stocks on the West Coast.**

**Ongoing** – waiting on MDCA workshop data, and the report from Dr Knucky, a meeting date to be set.

**Action 4. Craig Mundy to work closely with FRDC and industry in the months ahead to inform an improved SAFS assessment process for abalone fisheries with much improved consultation and communication with industry during the assessment process for the next SAFS Report due in 2016**

**Ongoing** – discussed further as an agenda item for this meeting

**Action 5. Formulation of a proposal for a package of boundary and size limit changes**

**Completed** - AbFAC #2 meeting

**Action 6. Greenlip harvesting proposal, including consideration of closed season**

**Completed** - AbFAC #2 meeting

**Action 7. Recommendation to abolish the central Western Zone and establish an Upper West Zone**

**Completed.**

**Action 8. Proposal for improving the spread of catch and effort in the Bass Strait fishery**

DPIPWE & the TACL is notifying divers and processors giving 5 days notice of closures.

Noted that one option could be a 'reverse cap'.

|                                                                                                  |
|--------------------------------------------------------------------------------------------------|
| <b>Action 1. DPIPWE to write up a proposal for spreading catch and effort in the Bass Strait</b> |
|--------------------------------------------------------------------------------------------------|

**Action 9. Block 49 proposal**

**Completed** - IMAS in collaboration DPIPWE to consider the balance, suggest a TAC reduction with a size limit of 120mm.

**Action 10. Proposal for 2016 East Coast closure**

**Completed** - Suggested proposal for divers to fish one day per month was rejected since DPIPWE compliance can not manage this proposal. Other options to be explored as West Coast anchorages were heavily depleted this year as a flow-on effect of the East Coast closure

**NB The FRAG agreed to continue the existing 3 month closure on the East Coast from January 1 to March 30, 2016**

**Action 11. Proposal to reduce the Greenlip cap on King Island and move catch to other areas of the north coast**

Processors have a good supply of fish from King Island and suggest the block be closed.

The FRAG **agreed to recommend a cap of 20t and that the area close immediately.**

Furneaux Blacklip – close at 47t.

King Island 2016 – greenlip to be discussed further.

- Disquiet from FRAG members on decisions being made on the basis of local divers, decisions should be made on the basis of the area and not who it will affect.
- Local area processors have built up a market with sales to Victoria and ask for consideration.

## **6. Issues from AbFAC #2/2015**

**The FRAG noted the following issues from AbFAC:**

Action 2 - 2/2015. That the Department recommends to the Minister that he closes the greenlip fishery from 1 January until 30 April (dates inclusive) with the following conditions:

- Greenlip may be taken at King Island provided they are landed on King Island;
- Greenlip may be taken from the northern area of the top sound of the Furneaux group provided they are landed in the Furneaux; and
- Greenlip may be taken from the central north. The size limit for greenlip in the north east and Furneaux will increase to 150 mm.

The proposal has been presented to the Minister; waiting for confirmation.

A local diver is concerned about the increase in size limit of greenlip to 150mm - to be followed up by DPIPWE.

Action 3 - 2/2015. Department to make a recommendation to the Minister to adjust the boundaries along the west of the State with the boundary between the western and central western zones to be the southern border of block 6 B and the division between the northern and western zones being a boundary between blocks 49D and 49B. West of the line to be fished at 132 mm and east of the line at 120 mm.

The change to blocks 5A, 5B and 5C should be introduced incrementally at 129 mm in 2016 and 132mm in 2017.

The proposal for the establishment of a new Upper West Zone has been presented to the Minister; waiting for confirmation.

Action 4 – 2/2015. The Department and IMAS to review the size limit for block 47 for the next FRAG.

Block 47 boundaries are due to compliance and the size limit agreed.

Action 5 – 2/2015. IMAS and DPIPWE to develop a proposal to reduce the greenlip cap on King Island and move catch to other areas of the north coast.

**Completed.**

Action 6 – 2/2015. IMAS to investigate options and return to the FAC with a plan which it believed would result in fishery independent research returning the greatest benefits for the available resources.

**Completed.**

## 7. Report from SMEG (Spatial Management Evaluation Group)

The FRAG noted that the SMEG is considering a wide range of issues, including a staged approach to spatial caps in the form of a 'middle ground' position. This will involve the setting of review triggers for possible management action when the catch of a given area exceeds a trigger level. When an area catch trigger is about to be activated/is activated, the FRAG, with the assistance of IMAS, will review and recommend what, if any

The use of fishery footprint data as in an indicator of stock status is looking promising. Logger data is being analysed to include measures or 'metres per hour of coast covered by a diver', and the kilograms per hectare. This information will be available as additional performance measure to inform discussion of trends in the fishery.

Caps and trends; options include free and open fishing in a zone with divers self-managing soft caps, or having hard caps to manage an area, taking account of median fluctuations.

FRAG meetings deliberations should be run on the grounds of sustainability and maximising fiscal returns to industry.

Further development of the MCDA is necessary. There will be discussions on the process / metrics of data by IMAS/ DPIPWE/TACL to interpret the data, advise on and develop appropriate performance measures and weightings to inform better, more objective decision making.

## 8. IMAS presentation of data and fisheries assessment, including additional diver/stakeholder (NB priority areas of the fishery will be dealt with first)

IMAS summary comments (HJ/CM)

### Central West and West Zones

| Block |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6CW   | Minor Catch at low quarterly CPUE. No Sub-Block showing any improvement in CPUE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6W    | Slightly better Q3 CPUE than Q1, and Q2 but catch is less than previous 2 quarters. Year to date CPUE lower than all previous years to 2000.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 7     | No Q3 catch in this Block. The following is a repeat analysis provided in FRAG #2 - Steady CPUE in both Q's of 2015 at around 100 kg/hr has provided a slight lift in CPUE data against 2014 data First quarter catch is higher than the previous 2 years. 2015 is the highest two Q catch since 2012, mainly driven by effort in SubBlocks B and C. CPUE rise has been driven by SubBlock B with both other Sub Blocks declining on previous years. Weak evidence of improvement in B should be cautiously monitored through 2 <sup>nd</sup> half of the year. |
| 8     | No Q3 catch in this Block. The following is a repeat analysis provided in FRAG #2 - Almost no catch in Q2. CPUE stable against 2014 data but very low compared to all previous years. In 2014, weather was blamed for low catch rates here?                                                                                                                                                                                                                                                                                                                     |
| 9     | No Q3 catch in this Block. The following is a repeat analysis provided in FRAG #2 - Very little Q2 catch in this Block. Decline in 2015 CPUE against previous years is a result of poor CPUE in 9C, this is in contrast to improvement in CPUE in 9B where Q1 catch was higher than 2014 and with a higher CPUE. Overall CPUE for this block is still declining.                                                                                                                                                                                                |
| 10    | No Q3 catch in this Block. The following is a repeat analysis provided in FRAG #2 - Lower catch in 2015 with lower CPUE to 70 kg/hr for the year to date. Poor Q1 CPUE when most catch was taken, low catch in Q2 has higher CPUE. Only                                                                                                                                                                                                                                                                                                                         |

|    |                                                                                                                                                                                                        |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | SubBlock C appears stable for CPUE, and the most productive SubBlock (D) is continuing to decline rapidly.                                                                                             |
| 11 | Low level of catch in Q3 at CPUE lower than previous Q's levels, yet CPUE continues to decline.                                                                                                        |
| 12 | Q3 catch is lower than previous years back to 2000, with Block level Q3 CPUE stable compared to previous 2015 Q data. 12A declining more quickly than other areas and 12C stable CPUE may have peaked. |
| 13 | Q3 catch is minimal, but CPUE is similar to Q1 and Q2.                                                                                                                                                 |

### FRAG Comments:

While catches from Blocks 7, 8, & 6D are weather driven and suggest a reduction for the 2016 TAC by 100t; IMAS indicates this may not be enough to sustain a rebuilding effort.

Further reductions are required to re-build the resource, suggestions centred around a reduction of 140T taken;

- Either as 2 x 10% decrease for two years or
- A one year 1 x 20% decrease

There were comments on whether there has been a long enough time frame to see any positive effects flowing through from the number of changes to TAC and boundary changes over the last few years i.e. are we waiting long enough before making further changes?

**Action 2: Malcolm to write a fact sheet on size limits vs caps and decide what the size limit will achieve. Clarify the 'LML'**

The FRAG agreed that further action to address stock status on the W. Coast is required, 2016. IMAS suggest a reduction of 84t for 2016, industry suggest 140t and maybe over 2 years. Target blocks 9, 10, 11 & 12A. Changes in size limits can be initiated at a later stage, noting that simply adopting a large size limit would not remove the need to take action to reduce the TAC.

### Eastern Zone

|    |                                                                                                                                                                  |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13 | Better than expected CPUE data in all SubBlocks. Catch is low compared to previous years                                                                         |
| 14 | Q3 CPUE slightly lower than Q2 but still positive on previous years to 2010. Q3 Catch similar to other years from 2010 onwards.                                  |
| 16 | Similar trend in CPUE to Blocks 13, 14 with increase in year to date CPUE. Three year trend of better CPUE, with catch at similar levels across years from 2011. |
| 17 | CPUE down, few fish caught                                                                                                                                       |
| 20 | CPUE stable against 2013-14 data, still a long way down from high CPUE of mid 2000s.                                                                             |
| 21 | Q3 CPUE down on Q2 but year to date CPUE better than 2014. SubBlocks C has been main SubBlock for Catch with good CPUE.                                          |
| 22 | Low Q3 catch across the Block but at good CPUE in 22A and 22B                                                                                                    |

|    |                                                                                                                                                                        |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 23 | Q3 CPUE increased against Q2 but low Q3 catch.                                                                                                                         |
| 24 | Stable year to date Block CPUE with slight increase in Q3. Quarterly catch is slightly down on previous years.                                                         |
| 27 | Minimal Q3 catch here due to closure                                                                                                                                   |
| 28 | Low catch                                                                                                                                                              |
| 29 | Block CPUE year to date is lower than 2014, with SubBlock 29D falling. Q3 CPUE across all SubBlocks is similar to Q2 but large Q3 Catch in 2013 and 2014 not repeated. |
| 30 | minor Catch                                                                                                                                                            |
| 31 | CPUE is declining for Block year to date but Q3 represents increased CPUE compared to Q1 and Q2.                                                                       |

**FRAG Comments:**

Maintain a watching brief, the intention of DPIPWE is to have limits on the catch and place caps on blocks 23 - 29 and sustain the cap on block 27.

Market requirements mean divers are being sent to certain areas by processors and are selective fishing.

Block 22 South Bruny; TAC setting or cap to move divers back to the Actaeons?

Suggest caps on blocks 14E, 16A, 16B, 20C, 21A, 22,

**Northern Zone:**

|    |                                                                                                                                                                                                        |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 31 | No Q3 catch.                                                                                                                                                                                           |
| 39 | No Q3 Catch                                                                                                                                                                                            |
| 48 | Q3 CPUE similar to previous Q3, overall Block CPUE is lowering.                                                                                                                                        |
| 49 | Q3 CPUE continues to be stable across 2015 but Block CPUE is declining with all SubBlocks showing lower levels on previous years. Catch from this Block is much lower than all previous years to date. |
| 5  | Minimal Q3 catch the following text is a repeat of that presented at FRAG 2 - CPUE increase on 2014 data for a similar catch year to date. Increase is primarily in SubBlock 5, A with B and C stable. |
| 3  | Q3 CPUE is slight improvement on previous Quarters of 2015 but much lower than previous years. Catch is well down for 2015                                                                             |

**FRAG comments;**

Woolnorth 60t

King Island 60t

North East 30t

Suggest 147t for 2016 TAC

## Bass Strait Zone;

|    |                                                                                                                                                                                        |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 33 | No Catch in Q3 the following text is a repeat of that presented at FRAG 2 - Good Q2 CPUE has brought year to date CPUE above 80 kg hr, year to date catch is lower than years 2010-14. |
| 38 | No Catch in Q3 the following text is a repeat of that presented at FRAG 2 - Good CPUE in 2015 >90kg/hr. ½ year catch similar to years 2010+                                            |

### FRAG comments;

Status quo

## Greenlip

Greenlip CPUE data has been treated as per South Australian practice, but interpretation is still challenging. Trends from mixed fishing events should be contrasted with trends from single species fishing events. Analysis of mixed species CPUE trends requires more work. There has been not catch of greenlip in Q3 across the block.

### FRAG Comments;

CPUE data is measured by % of time vs catch mainly due to mixed species fishing. There is a slight downturn in catch; greenlip are being targeted and caught for a specific market at the larger size of 160mm, therefore some of the data may be misleading.

No suggested change in TAC for 2016.

Boundary changes for block 48 were suggested.

**Kossman proposal;** – create additional zones to manage the TAC without caps.

IT was noted that this proposals would require extensive administration by DPIPWE, including additional compliance arrangements. The Department doesn't have the resources to implement a new system. Zones give a full year to harvest where a cap is limited to amount.

The AbFAC proposal recommended a greenlip closure for 4 months, with a public comment period. The following options are being considered;

1. closure of greenlip for 4 months Jan to Apr due to sub quality fish.
2. closure of greenlip for 4 months Jan to Apr except for the King Island and Furneaux group for the Melbourne market. Processors that have worked hard for a specific market have an interest in having access to larger sized greenlip from around the islands.
3. allow King and Flinders Islands to be open, but only allow 50% of the TAC to be taken in stepped approach.

The FRAG noted that 150mm is not suited to the Furneaux Group.

|                                                                                                           |
|-----------------------------------------------------------------------------------------------------------|
| <b>Action 3: Peter Kossman to write up a new submission for consultation to AbFAC and the Department.</b> |
|-----------------------------------------------------------------------------------------------------------|

## Upper Western Zone 2015 (new 2016)

Block 5, - (Northern Zone) catch YTD is higher than expected.  
King island - Block 1, stable

FRAG comments;

Block 31B – there is a difference in the quality when harvested at certain times of the year.



(Upper) Central West boundary change from 102t (2015) ***The Recommendation for new Upper Western Zone is 87.5t in 2016 @ 129mm - and increase to 132mm in 2017.***

## **9. Update on the resource assessment reviews**

The Knucky Report is due to be finalised at the end of September.  
The release of The Buxton report is unknown.

## **10. Update on the SAFS process**

Craig attended the Melbourne workshop where a few ideas were discussed. There are no guidelines and many inconsistencies, species are very different but have the same process and outcome. Craig has drafted a document on the failings of the current process, and added additional comments re processes on the catch rate and the state of the biomass. The outcomes of the SAFS process have major implications for the profile and status of abalone as a sustainable product as stated in promotional campaigns and on the website

FRDC has rejected the costing of labour etc by Craig and Malcolm of \$150,000.

**Action 5: Dean to contact FRDC in an attempt to secure the funding for the update of the SAFS process for abalone**

**Action 6: Craig to put the full proposal to the next FRAB meeting for funding approval.**

## **11. Other business**

11.1 Greg Hughes gave a presentation on his reseedling proposal.

- IMAS have given a positive response.
- A positive response from 75% of all quota holders would be required to proceed.
- The proposal requires quotaholders to invest \$6m into the new industry, \$290 per unit per year for 7 years.
- Monies would be held in an audited fund.
- There was discussion on the ownership of the biomass in 2023 and environmental changes etc.
- DPIPWE - Biosecurity would need to be covered to the standards required by the Chief Veterinary Officer.
- Governance – The TACL as a NFP is not in a position to invest or manage the business.
- A prospectus / business plan is needed.

**Meeting closed at 4.13pm**

## Action Items FRAG 2 and 3 2015

| <b>FRAG 2 2015</b> |                                                                                                                                                                                                                                                                               |                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|                    | <b>Action</b>                                                                                                                                                                                                                                                                 | <b>Responsibility</b>                                                                                                     |
| 1.                 | Set a date for a meeting to progress target and limit reference points and drive process – report to be provided to FRAG 4                                                                                                                                                    | Lead: Joey McKibben.<br>Supported by: Malcolm Haddon, Craig Mundy, Darwin Hansen, Ben Cobbing and Dave Tarbath            |
| 2                  | Raise concerns with the Minister concerning the tendency of a small number of industry members who do not attend FRAG or other meetings, subsequently seek to overturn advice made through established advisory processes.                                                    | Minister Rockliff has arranged a meeting with The Chairman at 1.45pm on November 19 2015. IC to report back after meeting |
| 3                  | IMAS to support Dean at the FAC to create a process to rebuild the stocks on the West Coast                                                                                                                                                                                   | IMAS/ AbFAC<br>Waiting on MDCA workshop data, and the report from Dr Knucky, a meeting date to be set.                    |
| 4                  | Craig Mundy to work closely with FRDC and industry in the months ahead to inform an improved SAFS assessment process for abalone fisheries and much improved consultation and communication with industry during the assessment process for the next SAFS Report due in 2016. | Craig Mundy / Dean Lisson<br>Progress report due at FRAG#4                                                                |
| <b>FRAG 3 2015</b> |                                                                                                                                                                                                                                                                               |                                                                                                                           |
| 1.                 | Proposal for improving the spread of catch and effort in the Bass Strait fishery.                                                                                                                                                                                             | IMAS in collaboration with DPIPW                                                                                          |
| 2.                 | Proposal to reduce the greenlip cap on King Island and move catch to other areas of the north coast                                                                                                                                                                           | IMAS and DPIPWE                                                                                                           |
| 3.                 | Malcolm to write a fact sheet on size limits vs caps and decides what the size limit will achieve. Clarify the 'LML'                                                                                                                                                          | Malcolm Haddon                                                                                                            |
| 4.                 | Peter Kossman to write up a new submission on the greenlip closure for consultation to AbFAC and the Department.                                                                                                                                                              | Peter Kossman & DPIPWE                                                                                                    |
| 5.                 | Dean to contact FRDC to secure the funding for the SAFS process                                                                                                                                                                                                               | Dean Lisson                                                                                                               |
| 6.                 | Craig to put the full proposal for SAFS funding to the next FRAB meeting for approval.                                                                                                                                                                                        | Craig Mundy                                                                                                               |
| 9.                 | Members are asked to submit a report on their queries and thoughts, to be distributed with the meeting papers prior to the meeting.                                                                                                                                           | FRAG Members                                                                                                              |

## 2015 TAC (DPIPWE)

| <b>Blocks - Area</b>                                                                   | <b>TAC 2015</b> | <b>Kgs/unit</b> |
|----------------------------------------------------------------------------------------|-----------------|-----------------|
| <b>Bass Strait Blacklip</b>                                                            |                 |                 |
| Blocks 32-38 Furneaux Group                                                            |                 |                 |
| Blocks 50-56 Bass Strait Islands                                                       |                 |                 |
| Blocks 42-46 Central North                                                             |                 |                 |
| <b>Total Bass Strait TAC</b>                                                           | <b>70</b>       | <b>20</b>       |
| <b>Central Western Zone</b>                                                            |                 |                 |
| Blocks 6A-6C Couta Rocks                                                               | 52.5            |                 |
| <b>Total Central Western Zone TAC</b>                                                  | <b>52.5</b>     | <b>15</b>       |
| <b>Eastern Zone</b>                                                                    |                 |                 |
| Blocks 13C, -14 E. Actaeons                                                            |                 |                 |
| Blocks 14A and 14B. Lower Huon Channel, Huon to Southport Island, inc Dover, Southport |                 |                 |
| Blocks 14C-16 Bruny Island                                                             |                 |                 |
| Blocks 17-21 Hobart to Tasman Island inc Nubeena                                       |                 |                 |
| Block 22                                                                               |                 |                 |
| Blocks 23 and 24 Deep Glen Bay to Triabunna, inc Maria                                 |                 |                 |
| Blocks 25-29A Freycinet and Bicheno                                                    |                 |                 |
| Blocks 29B, 29C, 29D and 30A North East                                                |                 |                 |
| <b>Total Eastern Zone TAC</b>                                                          | <b>528.5</b>    | <b>151</b>      |
| <b>Greenlip</b>                                                                        |                 |                 |
| Blocks 32-38 Furneaux                                                                  | 47              |                 |
| Blocks 1-4 King Island                                                                 | 20              |                 |
| North West not Perkins Bay                                                             | 21              |                 |
| Block 48A Perkins Bay                                                                  | 25              |                 |
| Blocks 31,39,40 North East                                                             | 25.5            |                 |
| <b>Total Greenlip TAC</b>                                                              | <b>140</b>      | <b>40</b>       |
| <b>Northern Zone</b>                                                                   |                 |                 |
| Blocks 5A-5C                                                                           | 50              |                 |
| Blocks 47-48 NW not Block 5                                                            | 75              |                 |
| Blocks 1-4 King Island                                                                 | 70              |                 |
| Blocks 31B, 39 and 40 North East                                                       | 30              |                 |
| <b>Total Northern Zone TAC</b>                                                         | <b>224</b>      | <b>64</b>       |
| <b>Western Zone</b>                                                                    |                 |                 |
| Blocks 6D, 7 and 8. Granville Harbour, Sandy Cape                                      | 100             |                 |
| Block 9 South of Strachan                                                              | 125             |                 |
| Blocks 10, 11 and 12A. South West                                                      | 350             |                 |
| Blocks 12B-13B South Coast                                                             | 265             |                 |
| <b>Total Western Zone TAC</b>                                                          | <b>840</b>      | <b>240</b>      |
| <b>2015 TAC TOTAL</b>                                                                  | <b>1855t</b>    | <b>530kg</b>    |

**Proposed Upper Western Zone boundary changes;**



