Title: Maryborough Sportfishing Club Inc.

Q1: What do you intend to monitor?

Species Common Name, *Species Scientific Name*,

Barramundi, Lates calcarifer

Threadfin Salmon, Polydactylus macrochir

Blue Salmon, Eleutheronema tetradactylum

Mangrove Jack, Lutjanus argentimaculates

Javelin fish, Pomadasys kaakan, Pomadasys argenteus

Dusky Flathead, Platycephalus fuscus

Yellowfin Bream, Acanthopagrus australis

Estuary Cod, Epinephelus coioides, Epinephelus malabaricus

Golden Snapper, Lutjanus johnii

Black Jewfish, Protonibea diacanthus

Mulloway, Argyrosomus japonicus

Southern Saratoga, Scleropages leichardti

Australia Bass, Macquaria novemaculeata

Golden Perch, Macquaria ambigua

Sooty Grunter, Hephaestus fuliginosus

Jungle Perch, Kuhlia rupestris

**Mary River Cod, Maccullochella mariensis

**Tilapia, All species

Other species identified by Fisheries Queensland or third party researchers

Q2: Where will you monitor?

Lake Lenthalls and its tributaries in south/central Queensland (Grid U33 Site 20, 25 Grid V33 Sites 16, 21)

Mary River and its tributaries in south/central Queensland (Grid V33, W32, W33, U34, V34, V35)

Other areas identified by Fisheries Queensland or third party researchers.

Q3: Why is this species and area a priority for monitoring?

Lake Lenthalls:

Maryborough Sportfishing Club Inc. As a group would like to gather information to better Understand the growth rates of the above species, Population size, Survival rates, and success of

stocking in our local impoundment? The plan will also monitor the affect of stocking loss and movement, particularly after flood events in lake Lenthalls and its tributaries?

Mary River Saltwater: The Mary River salt and brackish water areas, greater tributaries, bays and inlets are a very large and undeveloped waterway with very little research recorded and has an amazing collection of northern and southern species. The Mary river system is defined as the Northern limit of wild Australian Bass and the southern limit of breeding populations of Barramundi. Maryborough Sportfishing Club Inc. believe that the introduction of a monitoring program in these areas will give us a better understanding of the above listed species, there movement, growth rates, population size, distribution, and there ability to negotiate man made structures such as the Mary River and Tinana Creek Barrages.

Mary River Fresh: Research in the fresh and brackish water section of the Mary River is of great interest to the Maryborough Sportfishing Club Inc. The project aims to Monitor the current and future stock levels of species such as Wild Bass and the freshwater and estuarine species listed above, being able to negotiate man made structure, growth rates, movement through the system and its tributaries as well as North/South migration and recruitment from other systems., The plan will also monitor the inflow of extra stock from the dams above in flood events, eg Borumba dam, Lake Macdonald, etc and the stocking efforts in the system over the years.

**Mary River Cod, A non targetable species and native to the Mary River system and its tributaries often a bycatch, the fish is of great interest to the club, with great respect these fish if caught accidentally will be released unharmed according to ANSA Code of practice for releasing fish and current DPI Fisheries Regulations, but a record of a approximate size, length and location will be kept.

**Tilapia, An invasive species and unfortunately showing up in large numbers as bycatch in the Mary river system and its tributaries, these fish will be appropriately removed (according to current DPI fisheries regulation) and humanely destroyed. A record of size, length, and location will be kept.

The introduction and maintenance of fishing effort and catch effort logs for the above species listed and areas will result in achieving up-to-date details and data for monitoring.

Q4: Who will use your data?

1. Maryborough Sportfishing Club Inc.
2. ANSA QLD
3. Approved wider community
4. Approved Third Party Researchers

**All data remains the property of Maryborough Sportfishing Club Inc. And cannot be reprinted, published, analysed or used in whole or part without the express written permission of Maryborough Sportfishing Inc.

**Data will only be shared with any party (including ANSA Qld, ANSA National, Qld Fisheries, etc.) Subject to the approval of a majority vote of the Maryborough Sportfishing Club Inc. Financial Members. Each request for access is granted for a single instance and a separate request is required for each instance and may be subject to conditions as given by Management Committee of Maryborough Sportfishing Club Inc.

Q5: How will the data be used?

Data will be quality checked, collated and archived to be available for ANSA members and approved third parties upon request.

On a regular basis Maryborough Sportfishing Club Inc. will use the activity and data to promote sustainable fishing and best practice fishing methods for the above listed species.

Q6: What data quality do you require?

The primary objective of this project is to allow anglers opportunity to collect fishery data as a means of citizen science participation. The idea is to value add to the fishing experience and in doing so, create greater awareness of the study species (population, growth & movement patterns)

Although the primary focus of the program is citizen science based, data collection methods will be as robust as possible to ensure data quality is as high as possible to allow for as many potential uses as possible. Data Quality will be set at a level where the complexity of collection and data entry methods does not greatly inhibit participation.

The quality of data is likely to be of indicative quality (better than demonstrative but not analytical)

Q7: What is the proposed period of monitoring? When and how often will you monitor?

The intent is to commence monitoring in the Lake Lenthalls, Mary River and its tributaries, in the winter/spring/summer/autumn with the capture timing being spread over a total year. Monitoring from then will be ongoing with no end date specified at this time.

Maryborough Sportfishing Club Inc. will review the effort and results of the monitoring program on an annual basis with a view to learning and improvement, and assessment of whether resources could be better allocated to another priority.

Monitoring will primarily be opportunistic in nature (when members are fishing) noting that the club fishes at least once a month as part of routine club activities. Club activities usually occur on the weekend.

Members will be encouraged to participate in monitoring outside of scheduled club activities. Members fish a great deal more often than the average recreational angler, and usually with greater effectiveness. One could anticipate monitoring to occur fortnightly or even more frequently in the study area.

Q8: What methods will you use?

It is envisaged that the majority of fish will be captured with as little stress as possible, before careful measurement, tagging, and quick release.

- As part of normal recreational fishing activities, fish capture information as outlined in field of form: http://www.ansaqld.com.au/awards/entry-form/ will be collected for the captured above listed species.
- Members will fish according to the ANSA QLD code of Ethics (http://www.ansaqld.com.au/code-of-ethics/) and the National Code of Practice

(http://www.ansaqld.com.au/wp-content/uploads/2014/06/recfish_australia_ncop_brochure.pdf) adopted by ANSA QLD.

- Fish destined for release will be released according to the ANSA Code of Practice for Releasing Fish (http://www.ansaqld.com.au/code-of-practice-for-releasing-fish/)
- Tagging will be conducted according to the AUSTAG Manual (http://www.ansaqld.com.au/wp-content/uploads/2016/07/Austag-Manual-Complete-with-Work-Instructions.pdf) noting that the manual will be updated during 2016-17. Tagging data is added directly by members who tag a part of the fish capture form. Any field sheets used reflect fields in this web-form.
- Location of fish will be recorded using Queensland Government Logbook Maps (https://www.business.qld.gov.au/industry/fisheries/commercial-fishing/monitoring-and-reporting/reporting-commercial-fishers/queensland-logbook-maps)
- Fishes of Australia (http://fishesofaustralia.net.au/) is used to identify fish species

Pending advice and request from third party researchers (eg DAF and/or JCU) members may also be trained in the retrieval of otoliths. If required members will retain the large specimens to enable determination of both age and sex (identified as a key information gap).

Q9: Who will be involved and how?

Monitoring will be conducted by Maryborough Sportfishing Club Inc. members and other ANSA QLD members who visit the area of interest. Reporting of recaptures will be open to the general public.

ANSA QLD will provide fish capture database facility, tags and support to Maryborough Sportfishing Club Inc. Members.

Fisheries Queensland or approved third party researchers will be involved as interested or required to achieve the other objectives of the monitoring program.

Q10: How will the data be managed and reported?

Data is added directly by members into the fish capture form.

- When submitted this is logged in the ANSA QLD MySQL database.
- Results will be reported online using a series of codes that query the database and then visualise this data. Data will also be provided to Fisheries Queensland and approved third party researchers to report
- Records are maintained on ANSA QLD server using MySQL database. Database is regularly backed up.

Version

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Background

Why do we need a plan like this?

ANSA Qld and our members have limited resources (money and time) to contribute to monitoring, so we need to make sure we are doing it for good reasons.

The plan is simply to help us think about why and where we want to direct our efforts. We should make sure that we are contributing to highest priority issues, not just tagging as many fish as we can. For this reason the ANSA Qld executive committee will seek input from Fisheries Queensland and other research institutions into highest priority species and locations to help refine monitoring effort.

It also demonstrates to others that we are professional in our approach to monitoring.

How is the revised ANSA Qld tagging program different to what we have previously done under Suntag?

Tagging will be conducted according to the AUSTAG Manual (http://www.ansaqld.com.au/wp-content/uploads/2016/07/Austag-Manual-Complete-with-Work-Instructions.pdf) Specific revisions include:

- ANSA QLD Tagging is now the name of our state program for Queensland
- Tagging data is added directly by members who tag as part of the fish capture form. Any field sheets used reflect fields in this web-form.
- Tags use the web address www.ansaqld.org.au instead of a phone number for submission of recaptured fish information.
- Tag and recapture information is generated online at www.ansaqld.org.au and replaces letters and certificates. Recapture certificates will be emailed to anglers in the future when an automated facility for this function is developed
- Records are maintained on ANSA QLD server using MySQL database. Database is regularly backed up.
- Recreational Fishery Monitoring Plans are required for all ANSA QLD Research and Tagging projects. These documents provide detail on target species and other project related matters
- Tag purchase is currently through Floytag. ANSA QLD reserves the right to select any supplier based on access, price and customer service.
- Tag Register and Audit will be maintained on ANSA QLD server using MySQL database. Database is regularly backed up.
- Location of fish will be recorded using Queensland Government Logbook Maps (https://www.business.qld.gov.au/industry/fisheries/commercial-fishing/monitoring-and-reporting/reporting-commercial-fishers/queensland-logbook-maps)
- Fishes of Australia (http://fishesofaustralia.net.au/) is used to identify fish species