

**From:** Bannister, Raymond  
**Sent:** Tuesday, 2 June 2020 3:39 PM  
**To:** [REDACTED]@aquenal.com.au  
**Cc:** Gallagher, Stephen G  
**Subject:** Environmental Standard update

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

G'day Joe,

Claudia informed me that you had some questions regarding the Environmental Standard. She may have mentioned that I am leading the project here at the EPA. Thanks for your interest, I am sure there are many people curious of the process.

At this stage I am currently putting the Environmental Standard together in consultation with an expert technical working group (consisting of aquaculture experts from the EPA, MFB and IMAS) and an internal policy working group. The process that we are undertaking is quite complex and as such we need the time to put this together in a professional and robust way without external influence. At this stage, we are not asking for any input into the Environmental Standard outside of these established working groups.

There will be an opportunity for stakeholders to provide feedback/input on the draft Environmental Standard process later in the year during the consultation phase with stakeholder workshops. We plan to have stakeholder workshops from September onwards. So at this stage, I would ask that you hold on to your ideas, and bring them along to one of the stakeholder workshops that you will be invited to participate in later during the year.

Kind Regards,

Raymond

**Dr Raymond Bannister | Senior Environmental Officer**  
Salmon Environmental Management Section | Environmental Operations South  
**EPA Tasmania**

Department of Primary Industries, Parks, Water and Environment

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[REDACTED]

OOS

[REDACTED]

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**From:** Jen Fry [REDACTED]  
**Sent:** Monday, June 15, 2020 9:42 AM  
**To:** Ford, Wes <Wes.Ford@epa.tas.gov.au>  
**Subject:** meeting request please

Hello Wes

I hope you are well and back to (some) sense of normal for your daily work.

The Directors of the TSGA are hoping that you will be able to please meet with them to discuss monitoring and other projects associated with the salmon industry. The Directors are already meeting on the morning of June 25<sup>th</sup>. Would it be at all possible to have a ½ hour meeting with you at some point on the 25<sup>th</sup> – anytime between 9:30 and 12 noon?

Kind Regards  
Jen

Jen Fry  
**Chief Advisor**  
**Tasmanian Salmonid Growers Association Ltd (TSGA)**

Telephone: 03 6240 4828



[www.salmonfacts.com.au](http://www.salmonfacts.com.au)

83 Salamanca Place - Battery Point - Tasmania 7004



[REDACTED]

OOS

[REDACTED]

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**From:** Jen Fry [REDACTED]  
**Sent:** Tuesday, July 28, 2020 11:42 AM  
**To:** Ford, Wes <Wes.Ford@epa.tas.gov.au>  
**Subject:** regular meetings request

Dear Wes

Thank you again for attending a meeting with the TSGA on Thursday the 25<sup>th</sup> of June. Representatives of the Tasmanian Salmon Industry appreciate this level of engagement with you, particularly in relation to emerging industry issues that require a collaborative approach between our industry and the Tasmanian EPA. As we discussed at the meeting, the Technical Advisory Group (TAG) for the TSGA would like to establish regular meetings with yourself. The TAG has a large remit within the Industry encompassing a range of environmental and fish health elements. As part of its function, the monitoring and environment portfolios are taken up by Sean Riley from Tassal, Depha Miedecke from Petuna and [REDACTED] from Huon Aquaculture, with Steve Percival from Huon assisting with many aspects as well. I will coordinate ongoing quarterly meetings with the TAG and yourself on behalf of industry. I will send out a calendar invite shortly.

As we discussed with you on the 25<sup>th</sup> of June, a significant amount of time has now passed since either the BEMP or the MHEMP have been reviewed. In our opinion it is timely that a review take place to ensure that the programs are meeting all of our objectives (both from an EPA/DPIPWE as well as an industry point of view) for appropriate and meaningful environmental monitoring.

In particular we would like to provide the EPA with further details on ways in which these monitoring programs can be undertaken more efficiently- without compromising the ability of these programs to inform on potential environmental impacts from aquaculture related activities. As a first step, the TAG wishes to provide you with our preliminary review findings – which we will do at our first meeting.

Thank you again for taking the time to meet with the TSGA, we look forward to our upcoming discussions.  
Kind Regards

Jen

Jen Fry  
**Chief Advisor**  
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[Redacted]

OOS

[Large redacted area]

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**From:** Jen Fry [Redacted]  
**Sent:** Thursday, September 17, 2020 12:24 PM  
**To:** Ford, Wes <Wes.Ford@epa.tas.gov.au>  
**Subject:** meeting agendas

Hi Wes  
As discussed this is what I have come up as agenda items, from our brief meeting today for the EPA/TSGA/TAG 1/4ly meetings:

Standing Agenda – Industry wide technical aspects  
Items

OOS

[Redacted list of items]

Updates

OOS

8. Standards Update

OOS

Topics (1-2 topics per meeting)

List of Topics for Subsequent Meetings (so far are):

O  
O  
S

Are you able to let me know what 2 Topics you would like to prioritise from your POV?

As a reminder

Our postponed meeting is on Sept 29<sup>th</sup>

Our next 1/4ly meeting is on Dec 10<sup>th</sup>

Thank you again for making your way down to the TSGA Office today.

Kind Regards

Jen

Jen Fry

**Chief Advisor**

**Tasmanian Salmonid Growers Association Ltd (TSGA)**

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TSGA Meeting - Petuna, Tassal, EPA, TSGA 17/9/20

oos

- EPA - Environmental Standard - technical aspects
- Regular discussion - Monitoring + Reporting
- issues around trends, data

oos



OOS



② ENV Standard - draft to industry  
early 2021

OOS



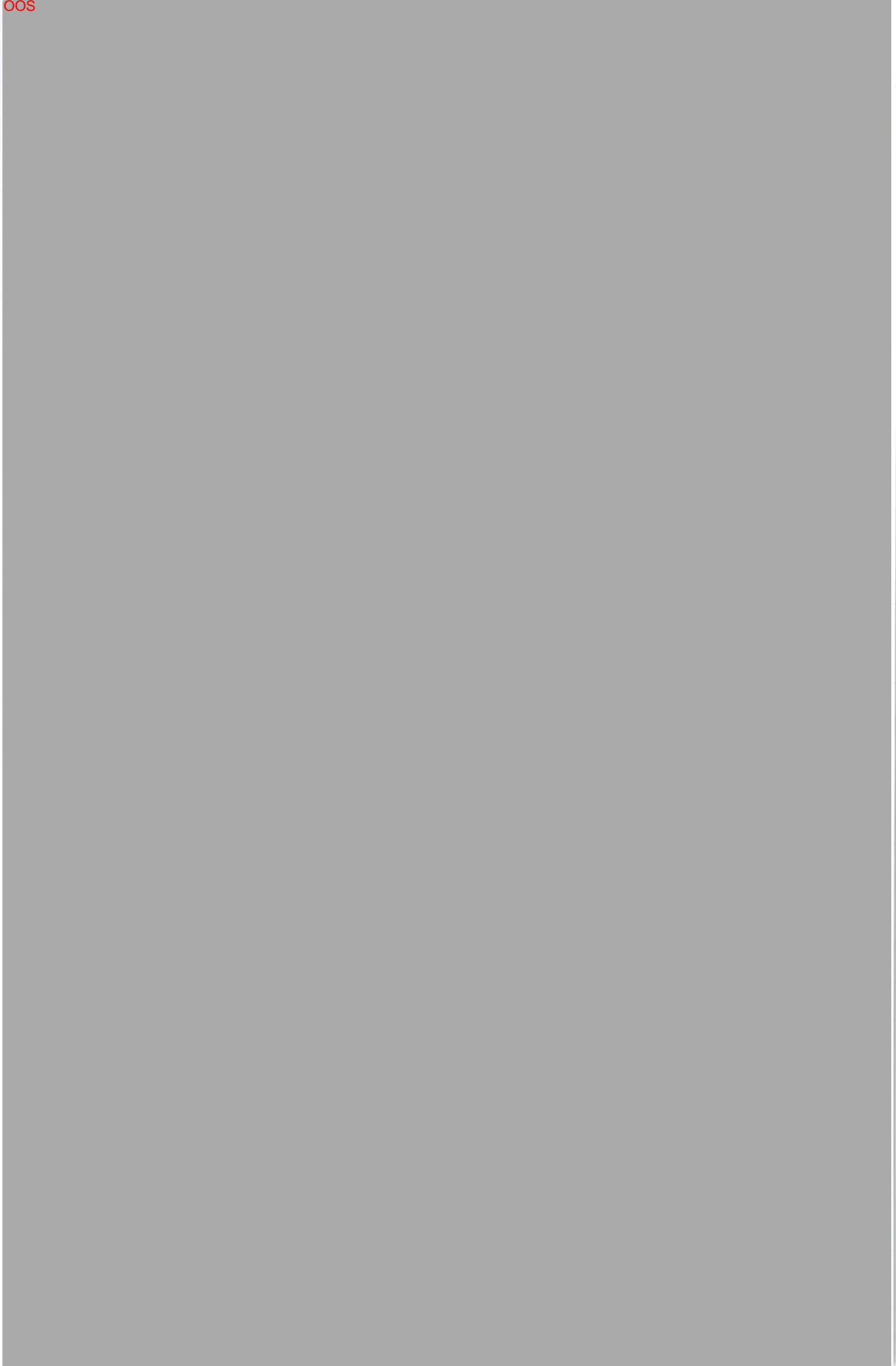
# Speaker/Workshop:

TSGA/EPA

①

11 March

OOS



OOS

⑦ ES → Was said he has draft. Still plan to get out in middle of year. Hopefully signed, sealed + delivered by end of year.

\* Email Jen Fry table of contents \*

June 2021

24 Thursday Week 25 175-190

7:30

TSQA

8:00

OOS

11:00

• UT - if no input/EPA to add our view into ES.

11:30 7pm

Q1 - EPA needs updated generalised nitrogen formula!

12:00

- currently inadequate and misrepresenting nitrogen/biomass  
→ tracing real nitrogen from feed not a formula.

12:30

Q2 → collective view of industry what would represent a single year (Start/finish) Jan-Dec, Jan-May etc

1:00

Q3 - How do you think you can manage nitrogen across 2 year classes?

1:30

→ We need industry can come up with a collective set - We can't for EPA to adopt

2:00

→ not to a new definitive approach fixed facing

• Denup packaged up to the standard context around the standard.

3:00

- process → before we need to prepare response document

3:30

→ EPA to have own answer - and what goes into the standard.

4:00

→ Industry if condense anything that is particularly wrong → we need to address that.

4:30

→ EPA send to industry - couple of weeks.

5:00

• Table of contents - send to Jen this afternoon \*

6:30

→ standard to be consistent, transparent, certainty  
Standard parts. (42/p)

7:00

1. Manne
2. FW

You know you are truly alive when you're living among lions. - Karen Blixen

January : 21

M	T	W	T	F	S	S
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February : 21

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May : 21

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June : 21

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1:20 10/10

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7:00



\* How to communicate standard cut in an effective way.

June

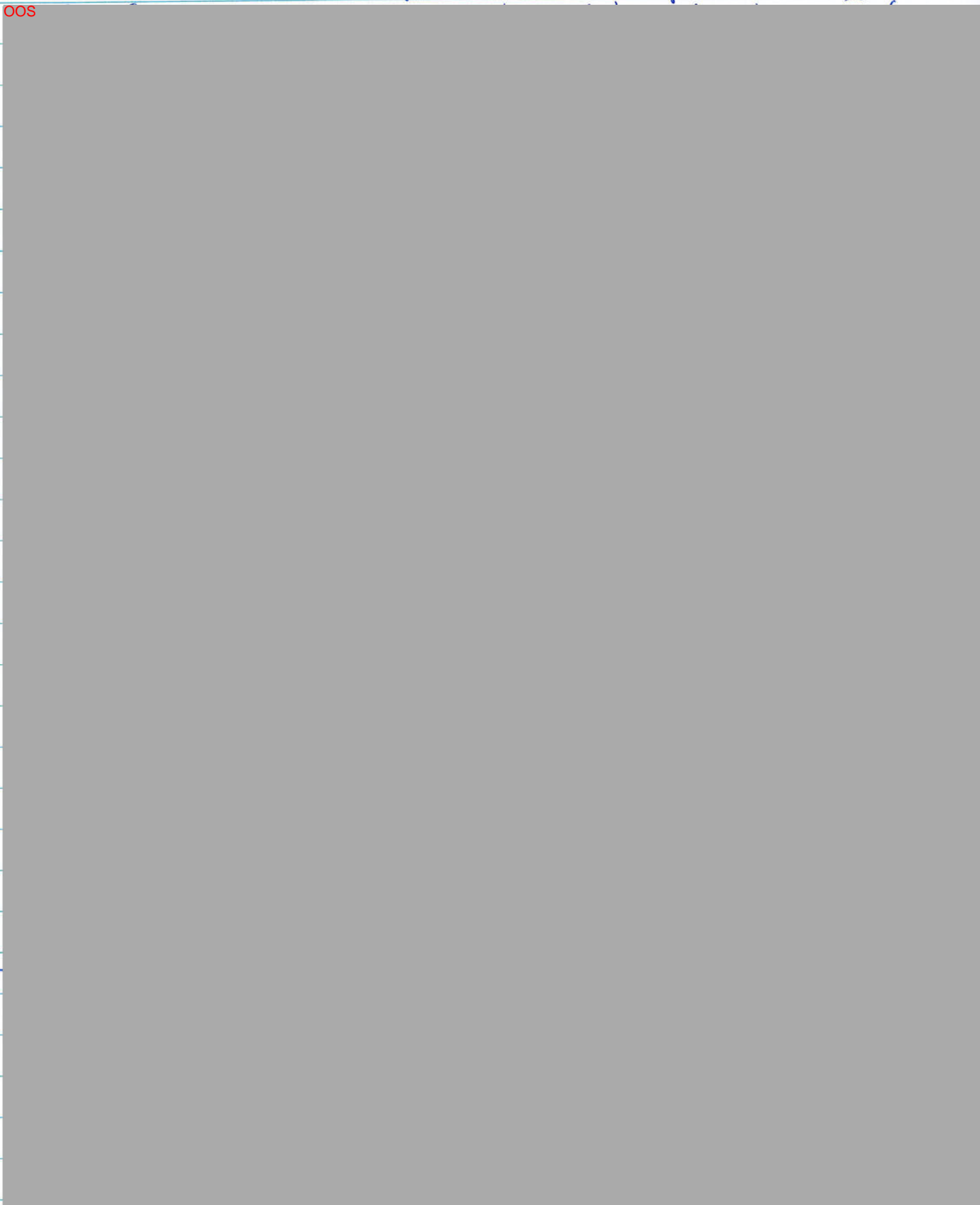
This too, shall pass. - Anonymous

July : 21	August : 21	September : 21	October : 21	November : 21	December : 21
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26 27 28 29 30 31	23 24 25 26 27 28 29	27 28 29 30	25 26 27 28 29 30 31	29 30	27 28 29 30 31

TSGA 14/12/21

When Env Std update by Ashley Bantock best contact for moment.  
URET develop from here, we implement.

OOS



[REDACTED]

OOS

[REDACTED]

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**From:** Sue Grau [REDACTED]  
**Sent:** Wednesday, April 20, 2022 12:06 PM  
**To:** Ford, Wes <Wes.Ford@epa.tas.gov.au>  
**Subject:** Quarterly catch up

Hi Wes,

I understand from a meeting with our Technical Advisory Group (TAG) that the TSGA and EPA hold quarterly catch up meetings and the last one occurred in December last year. Is it possible to schedule the next one, noting we're happy for this to be arranged with the commencement of the new Director.

Kind regards,

Sue

Sue Grau  
**CEO**  
**Tasmanian Salmonid Growers Association Ltd (TSGA)**

Telephone: 03 6240 4828  
[REDACTED]

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[REDACTED]

OOS

[REDACTED]

-----Original Message-----

From: Sue Grau [REDACTED]  
Sent: Wednesday, May 18, 2022 11:09 PM  
To: Cook, Darryl W <Darryl.Cook@epa.tas.gov.au>  
Cc: Ford, Wes <Wes.Ford@epa.tas.gov.au>  
Subject: RE: Placeholder: TSGA Board briefing

Hi Darryl,

Deidre and Jason are joining the TSGA Board meeting tomorrow and we now have limited time for the exec briefing due to late changes to the agenda, so a catch up re-EPA matters will be held over to the next meeting, unless there was anything of urgency that needs to be discussed with the Board?

The TAG has requested we reinstate the quarterly meetings between the EPA and the TSGA so it's probably more important to get a date set for that, when you feel settled in.

Sue

Sue Grau  
CEO  
Tasmanian Salmonid Growers Association Ltd (TSGA)

Telephone: 03 6240 4828  
[REDACTED]

<https://aus01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.tsga.com.au%2F&data=05%7C01%7CRaymond.Bannister%40epa.tas.gov.au%7C0c90bf840dbe486f928d08db51d3f94b%7Cf0b66421a90e4fa98654e2bc60d50347%7C0%7C0%7C638193743075560978%7CUnknown%7CTWFpbGZsb3d8eyJlIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=pZiH2VgY3nDlth21GtqH82WnnAdTzZQr2VemEIAfcek%3D&reserved=0>  
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-----Original Appointment-----

From: Cook, Darryl W <Darryl.Cook@epa.tas.gov.au>

Sent: Wednesday, 18 May 2022 4:29 PM

To: Sue Grau

Subject: Accepted: Placeholder: TSGA Board briefing

When: Thursday, 19 May 2022 11:00 AM-12:00 PM (UTC+10:00) Hobart.

Where: TSGA Board meeting or online

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[REDACTED]

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**From:** Russmann, Claudia  
**Sent:** Friday, 17 June 2022 12:09 PM  
**To:** Joe Valentine | Aquenal Pty Ltd  
**Subject:** RE: Environment | Department of Natural Resources and Environment Tasmania

Hi Joe,

I fully understand the bit about being snowed under so it's easy to miss those consultation timelines, and also it is quite a confusing process with multiple strands to it.

The Environmental Standard will reshape the way the industry is regulated in the environmental space. There is a very heavy focus on monitoring within the Standard, and it would be good if you could find some time to give it close attention when the detailed technical content is released for consultation.

However, we are not at that stage yet. Currently advertised for comment is the Position Paper which explains the background (purpose, framework etc) and outlines the proposed scope. If you have time it would be good to cast your eye over this document (you have until 20 June) to see whether from your vast experience there is anything that looks unrealistic / missing / superfluous.

The actual detailed technical input stage will happen later this year when the Environmental Standard and associated Technical Standard are released for consultation. It would be good to pencil this in as a task to commit a few solid days to.

I'd be happy to have a chat next week. OOS [REDACTED]

Cheers, Claudia

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**From:** Joe Valentine | Aquenal Pty Ltd [REDACTED]  
**Sent:** Thursday, 16 June 2022 3:10 PM  
**To:** Russmann, Claudia <Claudia.Russmann@epa.tas.gov.au>  
**Subject:** FW: Environment | Department of Natural Resources and Environment Tasmania

Hi Claudia,

Hope all is well. Just a quick question – I just noticed there was a call for submission for the proposed environmental standard. Do you know if there will be opportunity for industry/stakeholder submissions or will this be the only opportunity for comment?

Wasn't on my radar and too snowed under to make a submission at the moment !!

Any thoughts would be appreciated.

Cheers

Joe

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TSGA QUARTERLY 27/7/22

OOS



OOS

MONITORING METHODS, etc - WES: When ENV. STO goes out for consultation, we can do more on TECHNICAL STO.

WES - PROBABLY WON'T SEE ENV. STO BEFORE 10 YEAR PLAN (it would pre-empt it)

OOS

[REDACTED]

OOS

[REDACTED]

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**From:** Sue Grau [REDACTED]  
**Sent:** Friday, September 9, 2022 11:55 AM  
**To:** Ford, Wes <Wes.Ford@epa.tas.gov.au>; Jacobi, Jason <Jason.Jacobi@nre.tas.gov.au>  
**Subject:** Invite to next TSGA Board Meeting

Good morning Wes and Jason,

At our board meeting last week, there was a request from one of the Directors to have NRET and EPA attend the next board meeting to clarify the division of roles now that EPA is independent. Assuming Prof Michael Pervan has started, this will also be a great opportunity for him to meet the Board.

I will send through a calendar invite to you both for Friday 4 November.

Kind regards,

Sue

Sue Grau  
CEO  
Tasmanian Salmonid Growers Association Ltd (TSGA)

[REDACTED]



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## Microsoft Teams meeting

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Meeting ID: 433 918 853 663

Passcode: xtGRow

[Download Teams](#) | [Join on the web](#)

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[Redacted]

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**From:** Matt [Redacted]  
**Sent:** Thursday, December 1, 2022 11:36 AM  
**To:** Salmon Regulation <Salmon.Reg@epa.tas.gov.au>  
**Subject:** Matt Barrenger Details

Hi everyone,

Thanks again for your time today and nice to meet some new faces to the team.

All my details are below, and as I said I'm happy to help out with any questions or point you in the right direction from an industry aspect where I can.

I look forward to working with you all in the salmon space.

Regards,

Matt.

Matt Barrenger  
**Technical Director**  
**Tasmanian Salmonid Growers Association Ltd (TSGA)**

[Redacted]

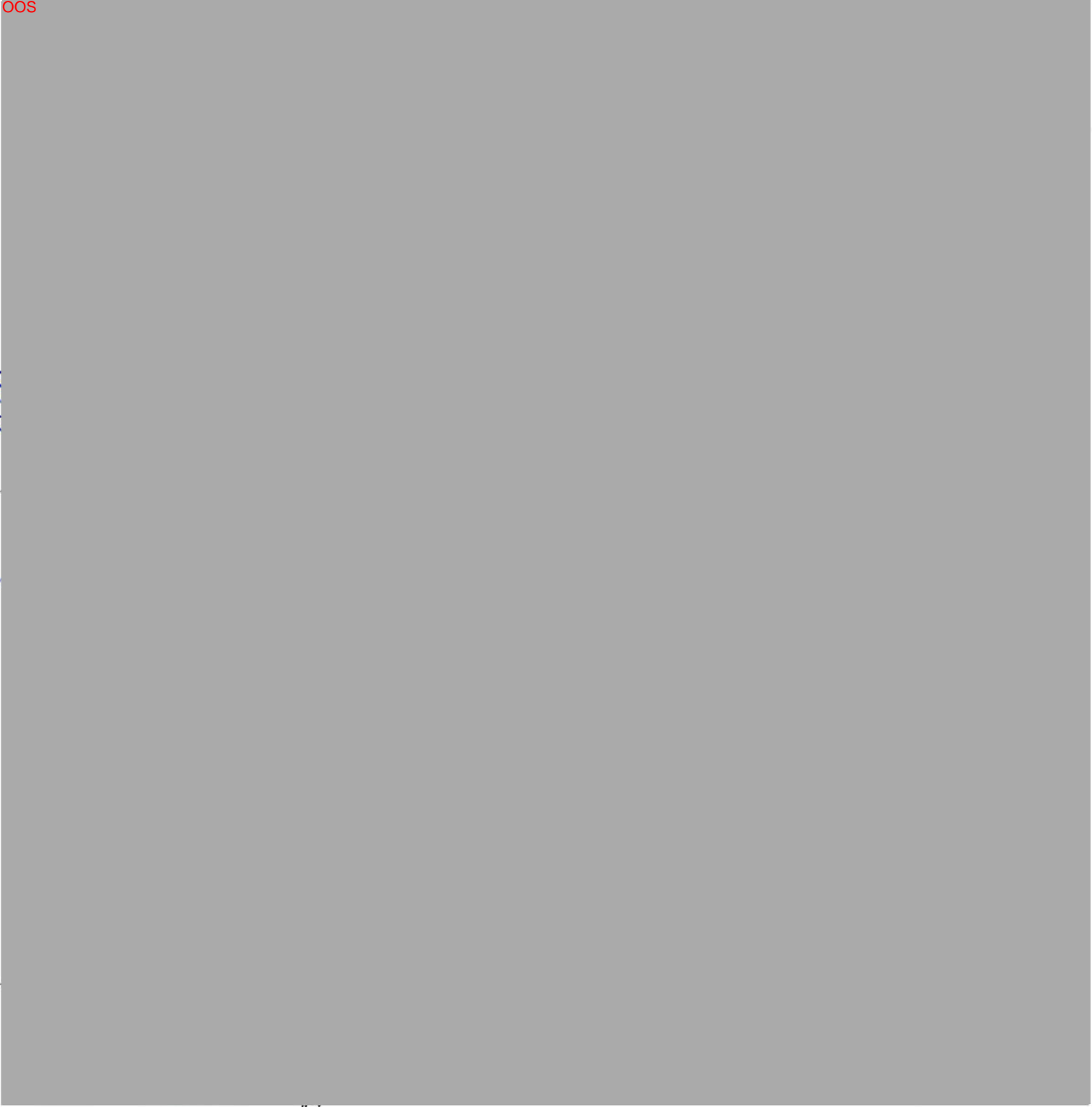
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**Please note I am currently working part time from Monday until Thursday.**

OOS



1/1

Related to Environmental Standards

• Matt questioned Reginald on ENV standards

→ Reginald provided a high level overview of the standards and highlighted that NRE are in charge of the standards saying Reginald - chat with Jerry for more <sup>26</sup> certainties

**From:** Burgoyne, Megan  
**Sent:** Wednesday, 1 February 2023 5:43 PM  
**To:** [REDACTED]  
**Cc:** Moazzam, Javed  
**Subject:** RE: Noise from Fish Farm Vessels  
**Attachments:** Scope and Details Required for Noise Impact Assessment Reports on Marine Farming and Associated Activities.pdf; Noise\_Measurement\_Procedures\_Manual\_2008.pdf

Good Afternoon [REDACTED]

Javed has asked me to provide you with the relevant noise criteria and monitoring methodology.

I have attached the Noise Measurement Procedures Manual (2008), which is still current.

I have also attached a document that we send to companies which contains information regarding our requirements for noise impact assessments for marine farming activities.

Below is an example of some general Environmental Licence conditions for noise that companies have to meet on leases. It is my understanding that noise conditions will be added into all finfish environmental licences when the Environmental Standard for Finfish comes into force. A draft of the Standard is due to be released tomorrow for community consultation and we anticipate that it will be finalised by mid-year. I also understand that vessels undertaking associated marine farming activities on and off lease will also be required to meet noise emission limits set out in the standard.

Cumulative and C weighted noise emissions are particularly important to us, as most complaints are related to either multiple noise sources in one area or pulsating/low frequency noises related to stationary or slow moving vessels. Recent complaints at Port Huon and Hideaway Bay appear to be related to both issues.

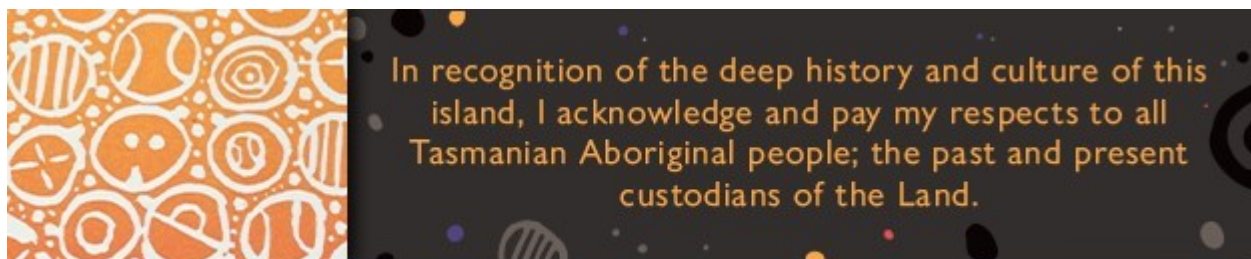
Javed has provided a basic outline in his email below. I do need to query with him the 42dB(A) as it is my understanding that it is and will be the standard 45dB(A). I will confirm that with him tomorrow and will let you know which figure is correct.

If you have any further questions, please do not hesitate to get in contact with us.

Kind Regards,  
Megan

**Megan Burgoyne (she, her) | Senior Environmental Officer**  
Salmon Environmental Regulation Section | Salmon Environmental Regulation Division  
**Environment Protection Authority**  
GPO BOX 1550, HOBART, TAS, 7001  
**Monday - Friday**  
T: (03) 6165 4592  
E: [megan.burgoyne@epa.tas.gov.au](mailto:megan.burgoyne@epa.tas.gov.au)  
W: [www.epa.tas.gov.au](http://www.epa.tas.gov.au)





**Noise Control**

**N1 Noise emission limits**

1 Noise emissions from the activity when measured at any noise sensitive premises in other ownership and expressed as the equivalent continuous A-weighted sound pressure level must not exceed:

- 1.1 45 dB(A) between 0700 hours and 1800 hours (Day time); and
- 1.2 37 dB(A) between 1800 hours and 2200 hours (Evening time); and
- 1.3 32 dB(A) between 2200 hours and 0700 hours (Night time).

2 Where the combined level of noise from the activity and the normal ambient noise exceeds the noise levels stated above, this condition will not be considered to be breached unless the noise emissions from the activity are audible and exceed the ambient noise levels by at least 5 dB(A).

3 The time interval over which noise levels are averaged must be 10 minutes or an alternative time interval specified in writing by the Director.

4 Measured noise levels must be adjusted for tonality, impulsiveness, modulation and low frequency in accordance with the Tasmanian Noise Measurement Procedures Manual.

5 All methods of measurement must be in accordance with the Tasmanian Noise Measurement Procedures Manual.

**N2 Noise survey requirements**

A noise survey designed to measure cumulative noise emissions from all sources within the Lease area must be carried out at such times as may reasonably be required by the Director by notice in writing.

**N3 Noise survey method and reporting requirements**

1 Noise surveys must be undertaken in accordance with a survey method approved in writing by the Director, as may be amended from time to time with written approval of the Director.

2 Without limitation, the survey method must address the following:

- 2.1 measurements must be carried out at day, evening and night times (where

applicable) at each location; and

2.2 measurement locations, and the number thereof, must be specified, with one location established as a control location (noise).

3 Measurements and data recorded during the survey must include:

- 3.1 operational status of noise producing equipment and throughput of the activity;
- 3.2 subjective descriptions of the sound at each location;
- 3.3 details of meteorological conditions relevant to the propagation of noise;
- 3.4 the equivalent continuous ( $L_{eq}$ ) and  $L_1$ ,  $L_{10}$ ,  $L_{50}$ ,  $L_{90}$  and  $L_{99}$  A-weighted sound pressure levels measured over a period of 10 minutes or an alternative time interval approved by the Director;
- 3.5 one-third octave spectra over suitably representative periods of not less than 1 minute; and
- 3.6 narrow-band spectra over suitably representative periods of not less than 1 minute.

4 A noise survey report must be forwarded to the Director within 30 days from the date on which the noise survey is completed.

5 The noise survey report must include the following:

- 5.1 the results and interpretation of the measurements required by these conditions;
- 5.2 a map of the marine farming lease and surrounding areas, with measurement locations and noise sensitive premises clearly marked on the map;
- 5.3 any other information that will assist with interpreting the results and whether the activity is in compliance with these conditions and EMPCA; and
- 5.4 recommendations of appropriate mitigation measures to manage any noise problems identified by the noise survey.

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**From:** Moazzam, Javed <javed.moazzam@epa.tas.gov.au>  
**Sent:** Wednesday, 1 February 2023 3:37 PM  
**To:** Burgoyne, Megan <Megan.Burgoyne@epa.tas.gov.au>  
**Subject:** FW: Noise from Fish Farm Vessels

Hi Megan,

Do you want to respond to [REDACTED] by providing with relevant noise criteria and monitoring methodology.

My understanding is that we are aiming for  $L_{Aeq,10\text{ mins}}$  42 dB(A), 37 dB(A) and 32 dB(A) for day, evening and night-time noise criteria respectively. Alternatively, measured noise levels should not exceed 5 dB over the existing background noise levels.

The above limit applies to the cumulative noise impact for the lease area and to vessel movement associated with each lease area. Measured noise levels will need to be corrected for tonality and low frequency noise.

Regards, Javed

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**From:** [REDACTED]  
**Sent:** Wednesday, 1 February 2023 3:28 PM  
**To:** Moazzam, Javed <javed.moazzam@epa.tas.gov.au>  
**Subject:** Noise from Fish Farm Vessels

Hi Javed,

I hope you are well and had a good break.

I've been asked to assist Huon Aquaculture investigate some noise complaints regarding operation of their vessels near Port Huon.

We did quite a bit of work for them on their noise about 10years ago – but very little since then - so I'm just bringing myself up to data.

The latest documentation I've found so far is in the attached 2012 report by Bill. I'm wondering if any further guidance on the subject has been published since then?

I also note that the 74 dB(A) at 25m limit for vessels in the old noise regs was not included in the 2016 noise regs – I'm not sure where that leaves us with regard to vessels working away from the lease areas?

Regards



**pitt&sherry**



CPEng RPEQ 21624

**Senior Mechanical Engineer**

**Noise and Air Emissions Specialist**

Mobile  Direct 03 6323 1930 | 

[www.pittsh.com.au](http://www.pittsh.com.au)

Environment Protection Authority



## Meeting Minutes

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Date: 22 February 2023

Attendees external: [redacted] (Tassal), [redacted]  
(Fulcrum)

Attendees EPA: Jana Bannister, Suzanne Egan, Claudia Russmann, Mark Churchill (online)

Location: Tassal office, Marine Board Building, 8<sup>th</sup> floor

File Ref.:

**Subject: EPA Meeting with Tassal and Fulcrum**

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OOS





**Other business**



- Draft Environmental Standards
  - EPA mentioned the status of the draft Environmental Standards status, with public consultation closing on 21 March 2023, and the intention to roll out Technical Standards for different aspects called up under the Environmental Standards as soon as possible. It was too early to talk about specific timelines or form of consultation.







**From:** Matt Barrenger [Redacted]  
**Sent:** Tuesday, 28 February 2023 3:50 PM  
**To:** Cook, Darryl W; Bannister, Raymond  
**Cc:** Sean.riley; [Redacted]@petuna.com; [Redacted]@huonaqua.com.au  
**Subject:** ETA of Technical Standards

Hi Darryl and Raymond,

I was just wondering what the expected timeline is on the Technical Standards please?

We have been reviewing the Environmental Standards and they reference the Technical Standards so I was wondering how far away these are please?

Regards,

Matt.

**Salmon TASMANIA**

**Matt Barrenger**  
Technical Director

[Redacted Phone Number]

[Redacted Email Address]

salmontasmania.au

83 Salamanca Place  
Battery Point, Tas. 7004

scan to add c  
or click to c

Instagram Facebook



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**From:** Cook, Darryl W  
**Sent:** Monday, 6 March 2023 5:04 PM  
**To:** Matt Barrenger  
**Cc:** Sean.riley; [redacted]@petuna.com; [redacted]@huonaqua.com.au; Bannister, Raymond  
**Subject:** RE: ETA of Technical Standards

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Hi Matt

NRE Tas has been saying that the Technical Standards will be finalised within two years of the making of the Environmental Standards, so I guess that's the official position.

Technical Standards can't be finalised until the Environmental Standards have been made. Technical Standards will be prepared by the EPA and will involve consultation (more likely targeted consultation with technical people as opposed to broad public consultation), which will take time.

We are very keen to progress this work and I've spoken to Wes about recruiting staff so that we can expedite the process. We expect to release the technical standards in batches, hopefully we'll be able to finalise the first batch not too far into the second half of 2023. The standards that you are probably most interested in are likely to take longer because they will be new and complex.

Darryl Cook

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**From:** Matt Barrenger <matt@salmontas.au>  
**Sent:** Tuesday, 28 February 2023 3:50 PM  
**To:** Cook, Darryl W <Darryl.Cook@epa.tas.gov.au>; Bannister, Raymond <Raymond.Bannister@epa.tas.gov.au>  
**Cc:** Sean.riley [redacted]@tassal.com.au; [redacted]@petuna.com; [redacted]@huonaqua.com.au [redacted]  
**Subject:** ETA of Technical Standards

Duplicate



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## EPA and TAG Quarterly Meeting 22 March 2023 - Agenda

- Environmental Standards
  - Industry submission
  - Concerns
  - Planned roll out
- Development of Technical Standards
  - Who is leading this
  - Expected completion – 2 years?
  - When industry will be engaged
  - What will this look like – Industry and SME working group

OOS



system currently swapping from La Nina to EL Nino

SALMON TAS

22/3/23.

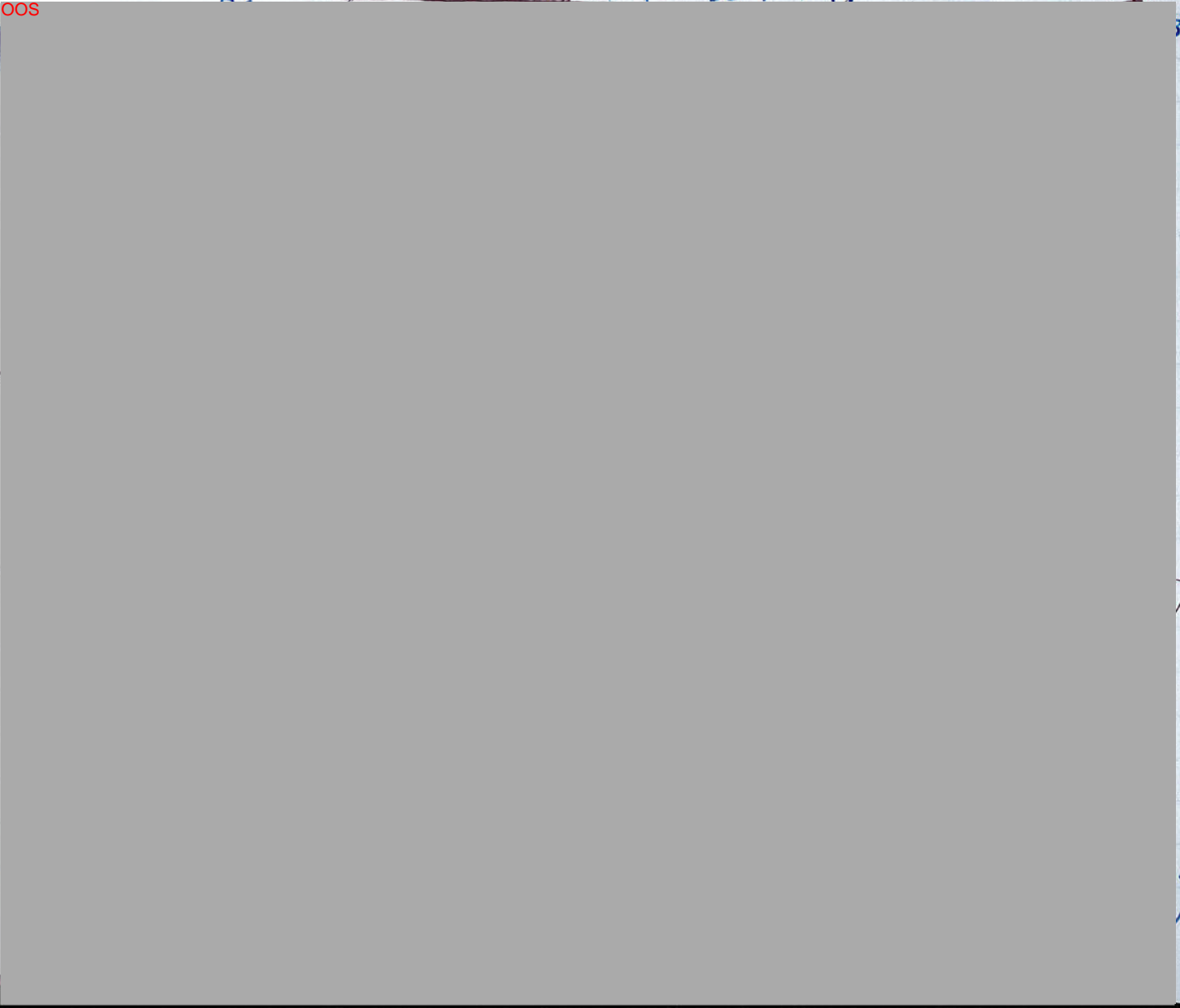
Env STD - Industry submission went in yesterday.

None, dispersal zone,

Site in Parliament 15 days (5 sitting weeks)

SUBMISSIONS - to be worked through. Will take time.

~~we~~ we need to recruit to build team.



OOS

1  
OOS



~~⊗~~ OOS / ENV STD with consol. waste mgmt plans. | \*

