Respondent Number	1	2	3	4	5	6	7	8
What is your name? -								
Name What is your email								
address? - Email								
What is your organisation? (if								
applicable) -	Personal capacity	n/a					n/a retired	
Organisation								
Do you think that there are important								
areas for wild salmon								
post-smolt migration								
that we have not	Not sure	Yes	No	Not Answered	Not sure	Yes	Yes	Yes
identified as wild salmon protection								
zones?								
- Q4 radio buttons								
If yes, please identify these areas, explaining why they should be protection zones and the evidence to support this Q5 text box for information		The entirety of the Scottish West Coast, and the waters around Orkney and Shetland should be Protection Zones. To suppose that sea lice populations are only an issue in the highlighted areas is simplistic, as is the notion that high populations are only of concern in the months of April and May. Sea Trout, for example, are largely coastal fish, inhabiting near shore areas until they return to their natal river to spawn.				The Pentland Firth, and any areas where it can be proved that salmon smolts use as migration routes	Salmon smolts migrate northwards through the Minch and certainly all those coastal area from Skye northwards should be considered salmon protection zones. There seem to be major river systems such as the rivers Kirkaig, Inver and Laxford which don't seem to have protection zone status and that need to be corrected. There are smaller systems inbetween such as the Duart that also have salmon which are not currently covered and they need to be.	Eigg, Canna and Muck
Do you think that any of areas we are proposing as wild salmon protection zones should not be so identified? - Q6 radio buttons	Not sure	No	No	Not Answered	No	No	No	No

If yes, please identify these areas, explaining why they are not important for wild salmon post- smolt migration and the evidence to support this Q7 text box for information		n/a				Not applicable		
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 text box information	Salmon can also be infected directly by pre- adult L.salmonis from marine sticklebacks, on which they can only develop to pre-adult stage	I have not, but plenty of other authorities do.	I point out that the Canadian Government, who are responsible for open water fish farms, have closed 15 farms, and are currently moving them into land based farms. The reason for this is a rapid decline in wild fish numbers. Eliminating pollution, sea lice infestation, and improving the ecosystem, in my opinion, is the direction of travel required. Bourne out by the decision of the Canadian Government.			The evidence of sea lice on sea trout smolts which is in the domain of Marine Scotland as a result of the sweep netting carried out in various locations of Argyll shows conclusively the enormous damage and mortality to sea trout caused by sea lice and open cage salmon farming. The only times when sea lice numbers are low are when local salmon farms are fallowed		
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	https://consultation.sepa.org.uk/regulatory- services/protection-of-wild- salmon/consultation/download_file?squid=quest	Not Answered	Not Answered	Not Answered	Not Answered	Not Answered	Not Answered	Not Answered

Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	I think maybe staff from the Machrihanish lab where I work within the Institute of Aquaculture might be able to help. For example, I would tell you that an adult female louse may not be ovigerous (with egg strings showing) some of the time because she is about to produce another pair i.e. is gravid with eggs that are still internal. It makes more sense to count adult females than only adult females with egg strings because a single female may produce seven or more pairs of egg strings and appear non-gravid after every one.	Any and all groups interested in preservation of wild salmon and sea trout. I imagine you know who they are.				The Argyll Fisheries Trust The River Improvement Associations of numerous West Coast rivers Salmon & Trout Conservation [Scotland] Fisheries Management Scotland	The North and West Salmon Fishery Board and the West Sutherland Fisheries Trust	District salmon fisheries boards and fisheries trusts
Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	Yes	No	Not Answered	Not Answered	Not Answered	Possibly	No	No
If yes, please tell us about your area of expertise: - Q11 text box for information	Ten years' experience of sea lice infections in a laboratory setting.	n/a		Not Answered	Not Answered			
If you would like to be involved, are you happy for us to contact you by the email address you have provided? - Q12 radio buttons	Yes	Yes	Not Answered	Not Answered	Not Answered	Yes	No	No
Do you have any suggestions for how SEPA could most efficiently and effectively assess compliance? - Q13 text box for information	Make sure everyone knows and sticks to a better definition of gravid that includes those (fertilised) adult females which are about to produce egg strings as well as those carrying egg strings, which are more properly termed ovigerous. This will also avoid non-counting of ovigerous females which drop their egg strings as a fish is handled. Remember mobile pre adult stages move freely between fish and may cluster, so sample numbers should be high enough to give consistent results. Mean adult female lice per fish should be clear whether it includes fish with zero lice, and even then fails to take into account clustering that may distort small samples. Ask for raw data and analyse it to get an idea of whether sample sizes are large enough.		Take the need for compliance out of the equation, simply move the farms on to land based areas. Obviously the Canadian Government has done the research, so it would be prudent to look at their assessment, and scientific research, which brought them to the conclusions reached.		Not Answered	The only effective way to protect sea trout and salmon from the mortality caused by open cage salmon farming is to legislate for all existing and proposed salmon farms to be closed containment	There must be more un- announced site visits either by SEPA staff, or persons authorised to carry out such site vsists. It is not satisfactory to rely on self reporting by salmn farms. There has got to be more stringent enforcement of the regulations.	Seine netting at or near fish farm sites and river estuaries and migration routes

Do you have a suggestions on we should deve monitoring pla assess the effectiveness of framework and v should include Q14 radio butt	how lop a n to Yes f the vhat it ?? -	Yes	Not Answered	Not Answered	Not Answered	Yes	Yes	No
Do you have a suggestions on we should deve monitoring pla assess the effectiveness of framework and v should include Q14 text box information	how lop a n to f the obvious suggestion is sentinel cages of farmed fish that the producer is obliged to stock and sample. Microscopes are required to count copepodids and chalimus.	Any monitoring plan should begin with the premise that any increase in sea lice population above a naturally occurring baseline is not acceptable. Any influx of Fishfarm pollutants including "medicines", feed-additives, and farmed fish sewage is similarly not acceptable.	Not Answered		Not Answered	To have compulsory closed containment salmon cages will drastically reduce the amount of monitoring necessary	See before - more frequent un-announced site visits by SEPA staff, or persons authorised by SEPA.	
Do you think the components to should be include an effectivene monitoring programme that would be able to deliver? - Q15 buttons	hat led in ess No t you help	No	Not Answered	Not Answered	Not Answered	Yes	Not Answered	No
Do you think the components to should be include an effectivened monitoring programme tha would be able to deliver? - Q15 box for information	hat led in lss lf there is monitoring of wild fish then you'd have to be really careful with the timing of anaesthesia and use microscopes. help text	n/a	Not Answered		Not Answered	See above - closed containment	Long term monitoring of salmon smolts migrating to sea from the major rivers. If there is to be a recovery it will start with many more smolts going to see. This needs to be measured and monitored annually.	
If you would like involved in t development monitoring plar you happy for t contact you by email address have provided? radio buttor	he of a b, are is to the you - Q16	Yes	Not Answered	Not Answered	Not Answered	Yes	No	No
Are there other of information you think cou usefully inform adaptive develop of the propos framework? - radio buttor	that Id the Yes ed 217	Yes	Not Answered	Not Answered	Not Answered	Yes	Yes	Not Answered

Are there other typ of information tha you think could usefully inform th adaptive developm of the proposed framework? - Q17 t box for informatio	I sea think temperature will affect chances of infection. I think many factors will affect how long a smolt takes to reach the open sea, not least availability of food.	Many other countries are now moving toward onshore closed-containment fish farming. This will allow for fish to be reared in controlled environmental conditions, with a commensurate drop, or absence, of many of the noxious substances presently used in the industry. Inflowing and outflowing water can be treated to ensure purity, including the absence of parasites. The extremely questionable use of 'cleaner fish' would also become unnecessary. Fish farm mortality, currently disgracefully high in Scottish open-cage farms, should be reduced, and the overall quality of the product should be much better. Ultimately, the largely overseas owned Scottish open cage industry will have to modernise or be left behind by producers closer to their markets, with better products.			Not Answered	All scientific studies should include information relating to sea trout and not just salmon	Data on the incidence of infective stage sea lice drifting northwards through the Minch is required to have any idea of what is really happening.	
Do you think the design of the proposed framewo or how it is implemented, cou affect your commun or business interes - Q18a radio buttor	d Yes in a positive way ity s?	Yes in a negative way	Not Answered	Not Answered	No	Yes in a positive way	I'm not sure	Yes in a positive way
Do you think the design of the proposed framewo or how it is implemented, cou affect your commun or business interes - Q18b text box	in common being dependent on both the economy and environment. This looks like it may throw up new research questions too.	I have no business interest, but a pronounced interest in a clean, healthy coastal environment. Only closed containment will allow for the environment I wish to be restored. The present situation, or any expansion of it, will simply continue to despoil our Country's coastal habitats, and the creatures that live in it.				If the effects of the new proposals reduce mortality of wild sea trout and salmon, this will have a very significant effect on the numbers of migratory fish returning to West Coast rivers, and consequently the number of anglers coming to fish them to the benefit of local hotels, shops and the communities generally. In this context, until the arrival of open cage aquaculture in Loch Ridden/Kyles of Bute in the 1970s, there were 3 hotels in Glendaruel depending largely on their existence on annually returning fishermen. As a result significantly of aquaculture and reduced fishing returns, all 3 hotels have now closed with severe consequences for the local community and a far greater loss of employment than the number of people working locally in aquaculture		Salmon angling tourism has collapsed and this might help bring it back which with 100% catch and release gives the best of both worlds

Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19a radio buttons	Yes	Yes	Not Answered	Not Answered	Not Answered	Yes	Yes	Not Answered
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19b text box for information	Sentinel cages rather than sampling wild fish.	Cease any expansion of open cage salmon and trout farming, and move immediately into a transition to a clean, modern industry of which we might all be proud as a source of employment, a source of good quality food, and a beacon of environmental credentials.				Closed containment aquaculture will not only have dramatic beneficial results for the survival of sea trout and salmon, but will also greatly protect the sea bed environment around current open cage farms which is being enormously damaged by 'effluent' emanating from those cages.	It is now technically feasible for salmon to be grown in closed containment (CC) systems which are being introduced in many counties currently and it should be a requiremnt in Scotland as well. Certainly all new farms and expansion should by in CC systems	
Do you have any suggestions how potential positive effects delivered or enhanced without compromising the environmental protection purpose of the proposed framework? - Q20a radio buttons	Not sure	No	Not Answered	Not Answered	Not Answered	Yes	Not Answered	No
Do you have any suggestions how potential positive effects delivered or enhanced without compromising the environmental protection purpose of the proposed framework? - Q20b text box	F	n/a				See above	This question doesn't make sense.	

Do you have any additional feedback on the proposed framework? - Q21 text box for information	This looks like a very good initiative to me. The one thing which stands out most is that people still catch these fish on rod and line.	It is a start. Let's make sure it delivers far more than tinkering around the edges of a dirty industry, producing bad food, owned largely by Norwegians.	I ask that a plans to expa fin fi farming be s immediate existing farm onshore e syste	and marine lice epidemic, the massive pollution suspended ly and all s moved to enclosed lice and the annual	The current proposals appear only to accept that existing salmon farms will remain in place. Unless there is a policy of scrapping all open cage salmon farming, it is essential that they should be moved to areas where salmon and sea trout do not migrate which will include on shore production units.	No	Implementation will need increased funding and boots on the ground
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Respondent Number	9	10	11	12
What is your name? -			Not Answered	
Name			Not Answered	
What is your email address? - Email			Not Answered	
What is your organisation? (if applicable) - Organisation	N/A		Not Answered	-
Do you think that there are important areas for wild salmon post-smolt migration that we have not identified as wild salmon protection zones? - Q4 radio buttons	Yes	Yes	Not Answered	Yes
If yes, please identify these areas, explaining why they should be protection zones and the evidence to support this Q5 text box for information	There should be protection zones along the western coast of Scotland. Salmon and seatrout smolts will travel considerable distances along coast lines.	The marine protected area around Gruinard bay should be included	Not Answered	All around the coast
Do you think that any of areas we are proposing as wild salmon protection zones should not be so identified?	No	No	Not Answered	Not sure
If yes, please identify these areas, explaining why they are not important for wild salmon post- smolt migration and the evidence to support this Q7 text box for information			Not Answered	
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 text box information		The Wester Ross fisheries trust have published papers on sea lice thresholds and the current thresholds when multiplied by the number of fish being farmed is totally unsustainable.	Not Answered	

12	
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Yes	
100	
All around the coast	
Not sure	

Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	Not Answered	Not Answered	Not Answered	Not A
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	Atlantic Salmon Trust Salmon & Trout Conservation.	Wester Ross Area salmon fishery board and the Wester Ross fisheries trust Plus other west coast boards and trusts	Not Answered	S& All angling
Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	No	No	Not Answered	Not A
If yes, please tell us about your area of expertise: - Q11 text box for information			Not Answered	
be involved, are you happy for us to contact you by the email address you have provided? - Q12 radio buttons	No	Yes	Not Answered	Not A
Do you have any suggestions for how SEPA could most efficiently and effectively assess compliance? - Q13 text box for information	Unannounced site visits with assessments undertaken randomly. Each visit should be done by a team of at least three individuals. Photographic evidence to be taken. Dip net testing of the cages to assess the general welfare of the farmed fish.	Levy heavy fines and order culls if non compliance is discovered	Not Answered	Ensure ALL salmon farmir and only enclose
	scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons If yes, please tell us about your area of expertise: - Q11 text box for information If you would like to be involved, are you happy for us to contact you by the email address you have provided? - Q12 radio buttons Do you have any suggestions for how SEPA could most effectively assess compliance? - Q13 text box for	scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File uploadNot AnsweredWhich groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working implement the framework? - Q9 text box for informationAtlantic Salmon Trust Salmon & Trout Conservation.Do you have relevant expertise or expertise or expertise or bare with us during implementation planning to help us develop modelling protocols? - 10 radio buttonsNoIf yes, please tell us about you area of expertise Q11 text box for informationNoIf you would like to be involved. are you happy for us to contact you by the sefficiently and efficiently and ef	scientific evidence that should be considered to ensure the sea lice exposure in protecting wide aslmon populations? This includes upload Which groups and organisation should include on technical advisory groups to assist us with we should include on technical advisory groups to assist us with as beauding arrangements and methods needed implement the premer that you would be happy to bare with a soft box for information Po you have relevant experise of that you would be happy to bare with a soft box for information If yes, please tell us develop modelling protectors? - 104 that would like to box for information If yes, please tell us develop modelling protectors? - 104 that would like to box for information If yes, please tell us develop modelling protectors? - 104 that would like to be involved, are you happy for us to contart you you happy for	stematic evidence tormal address of the same of exposition simplementation production of the updatedNot AnsweredNot AnsweredWhich groups ad refinement of the updatedNot AnsweredNot AnsweredNot AnsweredWhich groups ad refinement of the updatedAttentic Suinon TusiWester Ross Area sation fabre/ boatd and the Wester Ross Fabre/ boatd and the Wester Ross Fabre/ boatd and the

ot Answered
S&CTS ing related groups
ot Answered
ot Answered
rming open net pens are banned osed/solid pens allowed

Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 radio buttons	Not Answered	Not sure	Not Answered	Not A
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information	Not Answered		Not Answered	
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Not Answered	Not sure	Not Answered	Not A
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information	Not Answered		Not Answered	
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Not Answered	Not Answered	Not Answered	
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Not Answered	Not Answered	Not Answered	

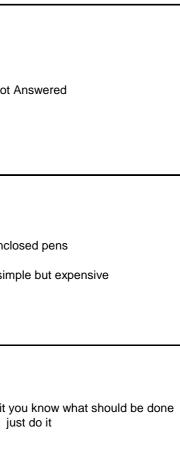
t Answered	
t Answered	
Yes	
Yes	

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Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 text box for information			Not Answered	Norwegian enclos
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18a radio buttons	No	I'm not sure	Not Answered	
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18b text box	The general slow demise of recreational angling for salmon and seatrout has left local communities with minimal or no local income derived from it. The Northern 500 has, in part, replaced that lost income but has meant the efforts to save the fishing have been relegated. Salmon farming employs a minimal number of staff. Wages are not high but the profits are significant. These profits are not enjoyed by the local communities.	Loch Sguod, which drains into loch ewe has been impacted by a serious decline in sea trout numbers. We have not seen a sea trout in the system for two years despite setting fyke nets to catch spawning sea trout and electro fishing the spawning burn. We have set fyke nets over the last 12 years to monitor the smolts going to sea and we have seen a year on year decline. We will try again this April /May. there are so few spawners now that it does not take many predators to have a serious detrimental impact.	Not Answered	you will ta most of the damage h escapees breeding sea lice can easily be fixe treating with the correct do water and leaving
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19a radio buttons	Not Answered	Yes	Not Answered	
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19b text box for information	The biggest negative is the timeframe and lack of urgency in the Plan. To remove these, there must be a faster implementation. As the purpose is to protect the environment which is already suffering, the longer the delay, the less there is to protect.	Insist on all farms being of the close confined method of farming so there is no interaction between sea lice and the farmed fish.	Not Answered	no mor

osed pens no more nets
No
II talk it to death
e has already been done by ng with established salmon
xed by using enclosed units and dose for the enclosed volume of ng it for the required time.
Yes
ore open nets

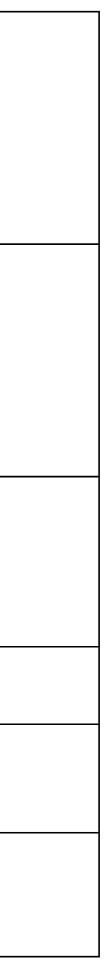
Do you have any suggestions how potential positive effects delivered or enhanced without compromising the environmental protection purpose of the proposed framework? - Q20a radio buttons	No	Not Answered	Not Answered	Not A
Do you have any suggestions how potential positive effects delivered or enhanced without compromising the environmental protection purpose of the proposed framework? - Q20b text box			Not Answered	enclo it is very simp
Do you have any additional feedback on the proposed framework? - Q21 text box for information	I think the 'terms of reference' of the framework, the proposals, and the wording render the project little short of useless and favour the maintenance of the current status quo for some considerable time. There is no ambition here at all. There is nothing about reversing the impact of salmon farming here. There is no stated aim of what would constitute 'success'.	Not Answered	Not Answered	this is a load of bullshit yo



Respondent Number	13
What is your name? -	
Name	
What is your email	
address? - Email What is your	
organisation? (if	
applicable) -	Western isles District Salmon Fisheries Board
Organisation	
Do you think that	
there are important	
areas for wild	
salmon post-smolt	
migration that we have not identified as	Not Answered
wild salmon	
protection zones?	
- Q4 radio buttons	
If yes, please identify	
these areas,	
explaining why they	
should be protection	
zones and the	
evidence to support	
this Q5 text box for	
information	
Do you think that any	
of areas we are	
proposing as wild	
salmon protection	Not Answered
zones should not be	
so identified?	
- Q6 radio buttons	
If yes, please identify	
these areas, explaining why they	
are not important for	
wild salmon post-	
smolt migration and	
the evidence to	
support this Q7	
text box for	
information	
De ver herre	
Do you have any scientific evidence	
that should be	
considered to ensure	
the sea lice exposure	
threshold is effective	
in protecting wild	Not Answered
salmon populations?	
This includes any	
evidence for a	
refinement of the threshold - Q8 text	
box information	



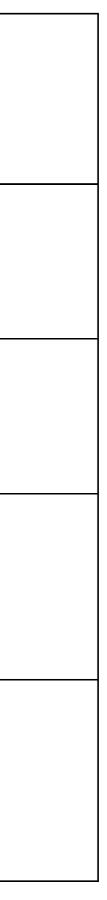
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	Not Answered
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	Not Answered
Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	Not Answered
If yes, please tell us about your area of expertise: - Q11 text box for information	Not Answered
If you would like to be involved, are you happy for us to contact you by the email address you have provided? - Q12 radio buttons	Not Answered
Do you have any suggestions for how SEPA could most efficiently and effectively assess compliance? - Q13 text box for information	Not Answered



Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 radio buttons	Not Answered
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information	Not Answered
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Not Answered
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information	Not Answered
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Not Answered
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Not Answered



Are there other types of information that you think could usefully inform the adaptive	Not Answered
development of the proposed framework? - Q17 text box for information	
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18a radio buttons	Not Answered
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18b text box	Not Answered
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19a radio buttons	Not Answered
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19b text box for information	Not Answered



Do you have any	
suggestions how	
potential positive effects delivered or enhanced without	
compromising the	Not Answered
environmental	
protection purpose	
of the proposed	
framework? - Q20a	
radio buttons	
Do you have any	
suggestions how	
potential positive	
effects delivered or	
enhanced without	
compromising the	Not Answered
environmental	
protection purpose	
of the proposed	
framework? - Q20b	
text box	
on the proposed framework? - Q21 text box for information	The WIDSFB welcomes SEPA proposals and consultation for managing interaction between farm derived sea lice and wild salmonids. Although greater protection is urgently needed WIDSFB fer significant omissions and gaps in the level of protection required from such a framework. The key concerns of the WIDSFB are: The proposal of only protecting post smolts April – May, adult fish as we know from Garynahine 2018 suffer from the impact of farm derived lice as well. https://www.bbc.co.uk/news/uk-scotland-482 new framework is to protect wild fish it must do so during all vulnerable life stages and across protection zones as fish migrate. The proposal for narrow inshore areas dedicated as Salmon protection zones. The term Salmon protection zone is misleading (figure A1) as they are more likely to be potential zones of interaction
	would be designated a salmon protection zone with all the existing sites and known history of serious harm to wild fish. Failure to address the impact of existing farms many of which are cumulative allow detrimental impacts to continue inside "salmon protection zones". It is therefore of great concern to the WIDSFB that sections 5.2 and 6.1 state the risk assessment would only be applied to biomass increases at existing sites. Lice emanating from existing sites must be accounted for when deriving lice thresholds. Another cumulative impact that has to be considered is wild fish movin protection zones that could suffer lice burdens above the threshold. If this cannot be accounted for within the modelling then thresholds should be lowered as a precautionary measure. Early results coast tracking project show wild fish are moving between zones. The WIDSFB believe the outcomes of the SIWG should be followed "regulatory regime must apply to all farms and should encompase licence conditions and associated enforcement measures to deliver the essential regulatory protection that wild salmonids require".
	(Taranger et al. 2015). The data also shows a strong cyclical link to the production cycles of aquaculture sites in the Loch Roag area. Again, the outcomes of the SIWG should be applie SIWG:
	For sites where best scientific evidence indicates that an existing site presents an adverse impact on wild salmonids:
	 In the first instance, tighter regulatory standards should apply.
	 The consenting regime should be amended to enable efficient relocation of existing biomass to a suitable alternative location.
	Section 1.2 and 5.1 of the consultation states it will be delivered through existing CAR regulations. In many cases these have proven unfit for purpose in other local aquaculture situations e.g., Minga Uist. SEPA will need to offer assurances to wild fish stakeholders backed by clearly defined enforcement actions. Such enforcement actions should include the ability to review or revoke licences monetary penalties. Where evidence supports enforcement action this should be taken in favour of engagement with those in breach of licence.
	Lastly SEPA should note that throughout this response WIDSFB has referenced "wild fish" as it is our strong belief that sea trout which are potentially at even greater risk than salmon should be in framework.
	Thank you for the opportunity to respond to this significant and important consultation for wild fish.

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on. Loch Roag /e in nature will
o new sites or
ving between ts from the west
ass strengthened
uld have died
ied:
garry dam, South
es and fixed
included in the

Respondent Number	14
What is your name? -	
Name	
What is your email	
address? - Email What is your	
organisation? (if	
applicable) -	Outer Hebrides Fisheries Trust
Organisation	
Do you think that	
there are important	
areas for wild	
salmon post-smolt	
migration that we	Not Answered
have not identified as	
wild salmon	
protection zones?	
- Q4 radio buttons	
If yes, please identify	
these areas,	
explaining why they	
should be protection	
zones and the evidence to support	
this Q5 text box for	
information	
Do you think that any	
of areas we are	
proposing as wild	
salmon protection	Not Answered
zones should not be	
so identified?	
- Q6 radio buttons	
If yes, please identify	
these areas,	
explaining why they	
are not important for wild salmon post-	
smolt migration and	
the evidence to	
support this Q7	
text box for	
information	
Do you have any	
scientific evidence	
that should be	
considered to ensure	
the sea lice exposure	
threshold is effective	
in protecting wild	Hebridean sweep netting data available from 2013 onwards
salmon populations?	
This includes any evidence for a	
refinement of the	
threshold - Q8 text	
box information	
Sox mormation	



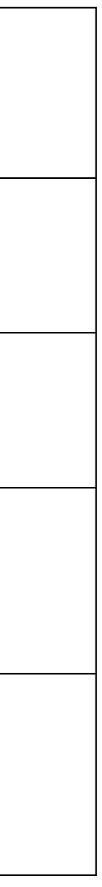
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	https://consultation.sepa.org.uk/regulatory-services/protection-of-wild-salmon/consultation/download_file?squid=question-2021-11-25-9063656368-filesubquestion&user=ANON-G44V-
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	
Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	Not Answered
If yes, please tell us about your area of expertise: - Q11 text box for information	
If you would like to be involved, are you happy for us to contact you by the email address you have provided? - Q12 radio buttons	Not Answered
Do you have any suggestions for how SEPA could most efficiently and effectively assess compliance? - Q13 text box for information	



Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 radio buttons	Not Answered
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information	
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Not Answered
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information	
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Not Answered
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Not Answered



Are there other types	
of information that	
you think could	
usefully inform the	
adaptive	
development of the	
proposed	
framework? - Q17	
text box for	
information	
Do you think the	
design of the	
proposed framework	
or how it is	
implemented, could	Not Answered
affect your	NotAlisweled
community or	
business interests?	
Q18a radio buttons	
Do you think the	
design of the	
proposed framework	
or how it is	
implemented, could	
affect your	
community or	
business interests?	
Q18b text box	
Do you have suggestions how any	
potential negative	
effects could be	
reduced or avoided	
without	
compromising the	Not Answered
environmental	
protection purpose	
of the proposed	
framework? - Q19a	
radio buttons	
Do you have	
suggestions how any	
potential negative	
effects could be	
reduced or avoided	
without	
compromising the	
environmental	
protection purpose	
of the proposed	
framework? - Q19b	
text box for	
information	
mormation	



Do you have any	
suggestions how	
potential positive	
effects delivered or	
enhanced without	
compromising the	Not Answered
environmental	
protection purpose	
of the proposed	
framework? - Q20a	
radio buttons Do you have any	
suggestions how	
potential positive	
effects delivered or	
enhanced without	
compromising the	
environmental	
protection purpose	
of the proposed	
framework? - Q20b	
text box	
Do you have any additional feedback on the proposed framework? - Q21 text box for information	The key concerns of the OHFT are: The proposal of only protecting post smolts April – May, adult fish as we know from Garynahine 2018 suffer from the impact of farm derived lice as well. https://www.bbc.co.uk/news/uk-scotland-482 new framework is to protect wild fish it must do so during all vulnerable life stages and across protection zones as fish migrate. The proposal for narrow inshore areas dedicated as Salmon protection zones. The term Salmon protection zone is misleading (figure A1) as they are more likely to be potential zones of interaction would be designated a salmon protection zone with all the existing sites and known history of serious harm to wild fish. Failure to address the impact of existing farms many of which are cumulative allow detrimental impacts to continue inside "salmon protection zones". It is therefore of great concern to the OHFT that sections 5.2 and 6.1 state the risk assessment would only be applied to n biomass increases at existing sites. Lice emanating from existing sites must be accounted for when deriving lice thresholds. Another cumulative impact that has to be considered is wild fish movin protection zones that could suffer lice burdens above the threshold. If this cannot be accounted for whith the modelling then thresholds should be lowered as a precautionary measure. Early results coast tracking project show wild fish are moving between zones. The OHFT believe the outcomes of the SIWG should be followed "regulatory regime must apply to all farms and should encompass licence conditions and associated enforcement measures to deliver the essential regulatory protection that wild salmonids require". As well as the Blackwater estuary event in 2018 the Outer Hebrides Fisheries Trust monitoring site in Loch Roag showed that 70% of the fish sampled had a lice burden greater than 0.3 and woul (Taranger et al. 2015). The data also shows a strong cyclical link to the production cycles of aquaculture sites in the Loch Roag area. Again, the outcomes of the SIWG should be a
	For sites where best scientific evidence indicates that an existing site presents an adverse impact on wild salmonids:
	 In the first instance, tighter regulatory standards should apply.
	 The consenting regime should be amended to enable efficient relocation of existing biomass to a suitable alternative location.
	Section 1.2 and 5.1 of the consultation states it will be delivered through existing CAR regulations. In many cases these have proven unfit for purpose in other local aquaculture situations e.g., Minga Uist. SEPA will need to offer assurances to wild fish stakeholders backed by clearly defined enforcement actions. Such enforcement actions should include the ability to review or revoke licence monetary penalties. Where evidence supports enforcement action this should be taken in favour of engagement with those in breach of licence.
	Lastly SEPA should note that throughout this response OHFT has referenced "wild fish" as it is our strong belief that sea trout which are potentially at even greater risk than salmon should be incl framework.
	Thank you for the opportunity to respond to this significant and important consultation for wild fish.

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are significant
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ve in nature will
new sites or ving between
ts from the west
ss suenguieneu
uld have died
ied:
garry dam, South
es and fixed
cluded in the

Deenendent Numb	45	40		
Respondent Number	15	16	17	
What is your name? -				
Name What is your email				
address? - Email				
What is your				
organisation? (if				
applicable) -	Loch Long Salmon	Argyll and Bute Council	Garynahine Estate	
Organisation				
Do you think that				
there are important				
areas for wild				
salmon post-smolt				
migration that we	Yes	Not sure	Not Answered	
have not identified as				
wild salmon protection zones?				
- Q4 radio buttons				
If yes, please identify				
these areas,				
explaining why they	I believe it would be helpful to focus on east coast rivers			
should be protection zones and the	to in order to better establish any cause and effect	N/A	Not Answered	
evidence to support	between salmon farming activity and impact to wild fish.			
this Q5 text box for				
information				
Do you think that any				
of areas we are				
proposing as wild				
salmon protection	Not sure	No	Not Answered	
zones should not be				
so identified?				
- Q6 radio buttons				
If yes, please identify				
these areas,				
explaining why they				
are not important for				
wild salmon post-	I am not familiar with all of these areas but your map	N/A	Not Answered	
smolt migration and the evidence to	looks very comprehensive which i support.			
support this Q7				
text box for				
information				
Do you have any				
scientific evidence				
that should be				
considered to ensure				
the sea lice exposure				
threshold is effective				
in protecting wild	No.	N/A	Not Answered	
salmon populations?				
This includes any				
evidence for a				
refinement of the				
threshold - Q8 text box information				
box information				
	1			

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e	

Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	Not Answered	Not Answered	Not Answered
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	Farmers Scientists/Acadmics Regulators Fisheries Management Scotland Local Fishery Boards Local Fishery Trusts Local authorities Marine Scotland	Going forward it will be important to include local authorities that deal with aquaculture, and to include NatureScot, Marine Scotland Science (MSS), Argyll District Salmon Fishery Board (ADSFB), Argyll Fisheries Trust (AFT), and the Atlantic Salmon Trust to assist the development of the Framework.	Not Answered
Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	No	No	Not Answered
If yes, please tell us about your area of expertise: - Q11 text box for information		N/A	Not Answered
If you would like to be involved, are you happy for us to contact you by the email address you have provided? - Q12 radio buttons	Yes	No	Not Answered
Do you have any suggestions for how SEPA could most efficiently and effectively assess compliance? - Q13 text box for information	I would hope that most farmers are already reporting sea lice levels per fish. I expect that SEPA will also need to know the number of fish in order to calculate the total number of sea lice at a given farm.	No	Not Answered



Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 radio buttons	Yes	Yes	Not Answered
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information	As previously stated I would recommend that control rivers are also monitored that are immune from any potential pressures placed on them by salmon farms.	It will be imperative to check if there is anything of importance within the current EMPs. SEPA are more suitably qualified to monitor all EMPs and monitoring strategies. SEPA will need to examine existing EMPs to identify areas of good practice in terms of monitoring.	Not Answered
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Not sure	No	Not Answered
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information			Not Answered
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Yes	No	Not Answered
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Yes	Yes	Not Answered



Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 text box for information	Loch Long Salmon are developing a site that will use semi-closed containment (SCC) systems to farm salmon. SCC have demonstrated to be extremely effective at preventing breeding populations of lice becoming established in farmed salmon groups and therefore not contributing to the. There is a growing body of evidence (most of which we have provided in our planning application) backing up these results. We would recommend this alternative way of farming as a way of continuing to grow the sector in any areas that are/become vulnerable and/or where conventional open net farming is not supported due to potential sea lice impact.	Some elements of EMPs could be useful; such as the identification of salmonid population numbers and sea lice counts on wild fish, and at river mouths from annual coastal sweep netting, plankton trawls, and electrofishing at known Atlantic salmon and Sea trout Rivers and Burns.	Not Answered
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18a radio buttons	Yes in a positive way	Yes in a positive way	Not Answered
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18b text box		Agree that the new framework and regulatory system is much needed and will be important to help ensure a more sustainable future for Scotland's wild salmon populations and the aquaculture industry in Argyll. Any real-time data and improved scientific evidence can help streamline the regulation process and provide much needed transparency for the aquaculture industry as a whole.	Not Answered
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19a radio buttons	No	No	Not Answered
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19b text box for information	As previously answered regaring the use of SCC systems.		Not Answered

Do you have any suggestions how potential positive effects delivered or enhanced without compromising the environmental protection purpose of the proposed framework? - Q20a radio buttons	No	No	Not Answered
Do you have any suggestions how potential positive effects delivered or enhanced without compromising the environmental protection purpose of the proposed framework? - Q20b text box			Not Answered
Do you have any additional feedback on the proposed framework? - Q21 text box for information	n/a	Yes. What transitional arrangements will there be for Environmental Management Plans (EMPs)? Local authorities need to know what they must do with existing EMPs. Where is the responsibility for Sea trout EMPs going to lie? Local authorities need to move away from EMP responsibility. Local authorities are not equipped to monitor and implement Sea trout EMPs. This is particularly problematic when Atlantic salmon EMPs will be the sole responsibility of SEPA. The issue is that local authority council members are not equipped to make decisions on scientific data and will look to planning officers' for their input. Planning authorities do not have access to Sea trout population and sea lice data, including scientific modelling programmes. This must come from scientific bodies (SEPA) and the industry. Therefore, it would not be appropriate for this to remain with planning while Atlantic salmon will be wholly SEPA's responsibility. SEPA must take responsibility for sea trout EMPs now and aim to map sea trout population movements as soon as possible. Sea trout populations should be included as part of the risk-based framework for wild Atlantic salmon. SEPA must collect base-line information and use the Norwegian Risk Management Framework model for this to happen.	Garynahine estate has serious concern that SEPA are onl smolts April – May. In July 2018 hundreds of dead adult Atlan the Blackwater estuary by staff from the estate and fisheries horrendous numbers of lice, the worst of which had 757 co Garynahine estate would expect the framework to protect Atla not just as smolts. It is very disappointing that Loch Roag protection zone when there are several fish farms and a kno wild fish. The impact of existing farms in Loch Roag must be the new framework. If need be, SEPA should insist that fa relocated or closed immediately Although it was adult salmon that were killed by sea lice in fishery with a five year average of 36.2 sea trout. Sea trout, i March – October so if lice levels are not controlled these fish sometimes their only option is to come back into the river w feed. It is our strong belief that sea trout should not be for framework. Lastly, SEPA should take action when evidence stocks. This action should include fines and penalties, some compensate affected fisheries. In 2018 it was left to the volunteers to save what fish were left in the Gary

only proposing to protect post lantic salmon were removed from es trust. Some of these fish had counted by the trust biologist. Atlantic salmon at all stages and bag is being called a salmon snown history of serious harm to be addressed as a priority within t farms causing problems are ely.

in 2018, the estate is a mixed at, including finnock, are present ish can face huge problems and r which reduces their chance to e forgotten or left out of the ence shows damage to will fish ome of which should be used to he estate, fisheries trust and arynahine sea pool.

Deenendent Number	10	10	20
Respondent Number What is your name? -	18	19	20
Name			
What is your email address? - Email			
What is your organisation? (if applicable) - Organisation	Uig Lodge Fishery	Aquabyte	Marine Conservation Society
Do you think that there are important areas for wild salmon post-smolt migration that we have not identified as wild salmon protection zones? - Q4 radio buttons	Yes	Not sure	Not sure
If yes, please identify these areas, explaining why they should be protection zones and the evidence to support this Q5 text box for information	I think that even areas outside the obvious need to also be carefully considered as there is a very strong likelihood of sea lice contamination from a site outside the protection zone (ie sea lice / larvae will travel significant distances) so modelling should be looked at and mitigations put in place.		
Do you think that any of areas we are proposing as wild salmon protection zones should not be so identified? - Q6 radio buttons	No	Not sure	No
If yes, please identify these areas, explaining why they are not important for wild salmon post- smolt migration and the evidence to support this Q7 text box for information			
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 text box information	at the Outer Hebrides Fisheries Trust should be consulted in relation to this.		

evidence build be to ensure exposure s effective ting wild bulations? udes any se for a nt of the - Q8 File	Not Answered	Not Answered	
ns do you should technical groups to with the ent of the working ents and needed to ent the ? - Q9 text	For the Hebrides: The Outer Hebrides Fisheries Trust The Western Isles District Salmon Fisheries Board FMS Atlantic Salmon Trust - smolt tracking programme	Include groups with specific and practical sea lice technical competence (ex. organizations with expertise in sea lice monitoring technologies in use today, sea lice treatment), sea lice advisors from other countries. Groups with practical expertise can help implement tried-and-true solutions to manage lice load pressure affecting wild salmon populations.	In addition to the industry Scotland Science, Nature authorities, technical worl representation. Advisory beyond a technical work viewpoints, expertis
ise or that you happy to us during entation o help us nodelling - 10 radio	No	Possibly	
ir area of - Q11 text		Automatic sea lice monitoring in fish pens	
d, are you or us to ou by the ress you ded? - Q12 uttons	Not Answered	Yes	
ns for how uld most tly and y assess ce? - Q13 ox for	Independent scrutiny of the sea lice data Involvement of the Outer Hebrides Fisheries Trust in analysing the data	Systems exist to provide automatic readings of number of sea lice per fish by species and stage. Data from technology systems can help with monitoring of current sea lice levels.	In addition to operator independen
	e exposure s effective ting wild oulations? udes any e for a nt of the - Q8 File oad oups and ons do you should technical groups to with the ent of the working ents and needed to ent the ? - Q9 text formation o help us nodelling - 10 radio ons se tell us ar area of - Q11 text formation us during entation o help us nodelling - 10 radio ons se tell us ar area of - Q11 text formation us to pu by the ress you ded? - Q12 uttons ave any	evidence to ensure exposure s effective s effective	evidence of event of the exponent of the event of the eve

Not Answered
Istry, Fisheries Management Scotland, Marine atureScot, Fish Health Inspectorate and local working groups should include environmental isory groups need to be inclusive, extending working group to make sure a wide range of pertise and experience can be provided.
No
No
ator submitted data SEPA could undertake ident inspections for verification.

Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 radio buttons	Yes	Yes	
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information	It should be developed in coordination with the Outer Hebrides Fisheries Trust as they have the knowledge and expertise to monitor. It is important that the aquaculture companies are also involved and coordinate / cooperate with the Trust as the aquaculture companies have significant resource. This is already happening within the EMP framework but the EMP's need to be significantly improved. Fisheries in the respective region should also be invited to scrutinise the data - the process should be as transparent as possible. Atlantic Salmon Trust smolt tracking programme results should be used to help identify smolt migration routes around the Hebrides (eg Loch Roag and Loch Erisort)	Effectiveness of the framework can be informed by automated systems quantifying sea lice counts that indicate the efficacy of managing sea lice levels.	Given that salmon populat Scotland , it is imperative implemented without furth from salmon farms are onl status of wild salmonids improved. This need to other impacts, such as h Information relating to t Atlantic salmon is essent framework is focused on s status of these population being used to inform conservation or stock s decline, further measures/ reducing biomass at farm sea or relocation of the
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Not sure	Yes	
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information		Automatic sea lice monitoring in fish pens	
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Yes	Yes	

Yes ulations are in poor conservation status across ative that this risk-based spatial framework be urther delay. Whilst we understand that sea lice only one of twelve impacts on the conservation nids, it is one anthropogenic risk that can be to progress alongside efforts to address the as habitat restoration and ensuring accessible migration routes. to the conservation and stock status of wild sential to inform this development. As the new on salmon conservation rivers, the conservation tions need to be assessed, with resulting data rm the adaptive management approach. If k status of wild Atlantic salmon continues to es/actions need to be taken. This could include arms, reviewing the timing of putting smolts to the farm if other measures are unsuccessful. No No

Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Yes	Yes	
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 text box for information	Again the fisheries trusts and boards in the respective regions should be consulted throughout this process in order to achieve the very best integrated approach. One of the key remits's of the OHFT and the WIDSFB is to preserve and protect the wild fisheries so they have a key role to play. The developing procedure / monitoring program should include both wild salmon and sea trout (not just salmon). FMS should also be heavily involved in the process.	Objective data on sea lice per fish from electronic measurement systems may assist in adaptively developing sea lice level frameworks.	Information relating to Atlantic salmon is essent framework is focused on s status of these population being used to inform
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18a radio buttons	Yes in a positive way	Yes in a positive way	
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18b text box	If the framework is adapted and significantly improved (in conjunction with the OHFT, WIDSFB, FMS and Aquaculture companies) then it could have a very significant positive impact on the survival rate at sea of wild salmon and sea trout. However, it is crucial that this is done well. If the monitoring and enforcement programme is not up to standard then the impact will likely be a negative one.	Improved monitoring and control over the sea lice pressure from fin fish farms, more effective treatments and time of treatment, improved knowledge toward sea lice control will result in reduced pressure from sea lice on wild salmon.	There could be positive at the framework is implement management approach we sea lice enables a more location of salmon farms. for open net pens, which then be repurposed as It is recommended that at against the new framew production will occur, give current owner. • F • Become available for se places for • In some cases
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19a radio buttons	Yes	Not sure	

Not Answered	
to the conservation and stock status of wild ential to inform this development. As the new in salmon conservation rivers, the conservation ions need to be assessed, with resulting data rm the adaptive management approach.	
I'm not sure	
e affects for the protection of wild salmonids if mented as proposed, and a data rich adaptive h was taken. Identifying areas of high risk for nore informed decision making process for s. It will also inform areas that are not suitable ch may include existing sites. These sites can as per Professor Griggs recommendation: t all sites where it is unlikely, after evaluation ework and remedial action that further finfish give up all licences held on that site by the r. Those sites would either then be: • Returned to the wild; or shellfish operators who see some as good for shellfish production, and is help the seaweed industry expand.	e
No	

Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19b text box for information	Again, more consultation with FMS, OHFT, aquaculture and the individual wild fisheries. Those that work at the fisheries also have key experience so they should be contacted too.		
Do you have any suggestions how potential positive effects delivered or enhanced without compromising the environmental protection purpose of the proposed framework? - Q20a radio buttons	Yes	Yes	
Do you have any suggestions how potential positive effects delivered or enhanced without compromising the environmental protection purpose of the proposed framework? - Q20b text box	As above - coordinate with OHFT, WIDSB, Wild fisheres, Aquaculture. It has to be a coordinated effort. There should be significant punishment measures in place for when the thresholds (whatever the final agreed threshold is) are crossed - ie significant biomass reduction and fines. The aquaculture companies should understand that they have a duty to protect the marine environment in which they operate. They have a key responsibility here.	Historical data measuring day-to- day sea lice development (ex. in each development stage over time) can be used in models to forecast future lice infestations.	The framework plan cou both the collection of management plan. This status of sea trout stoo assessment data and c cour
Do you have any additional feedback on the proposed framework? - Q21 text box for information	We believe there are significant omissions and gaps in the level of protection required from such a framework. Key concerns include: The framework should apply to existing sites too (not just new sites). For sites where best scientific evidence indicates that an existing site presents an adverse impact on wild salmonids: • In the first instance, tighter regulatory standards should apply. • The consenting regime should be amended to enable efficient relocation of existing biomass to a suitable alternative location. There should also be protection in place for returning adult salmon (June - September) not just for smolts (April - May) though it is acknowledged that the smolt migration is hugely important and needs to be protected as much as possible. Life cycles at the fish farms should be closely looked at - ie 2nd year life stage often leads to huge lice problems in the spring / summer of second year. Close attention should be given to sea lice contamination from sites outside the protection zone - ie modelling should be closely looked at as sea lice / larvae can travel signifcant distances. If the modelling is accurate then mitigations can be put in place. SEPA will need to offer assurances to wild fish stakeholders backed by clearly defined enforcement actions. Such enforcement action this should be taken in favour of engagement with those in breach of licence. Sea trout should also be included in the framework (not just salmon) as they are severely impacted by sea lice.		Given that salmon popular Scotland , it is imperative implemented without furth from salmon farms are onl status of wild salmonids improved. This need to other impacts, such as h We are keen to see the p stage sea lice-days m2 maintained at the comme that this figure has b adjustments have been conditions experienced adopting an adaptive man any need for an adjustme into subsequent iterations by robust data collectio changes to incre

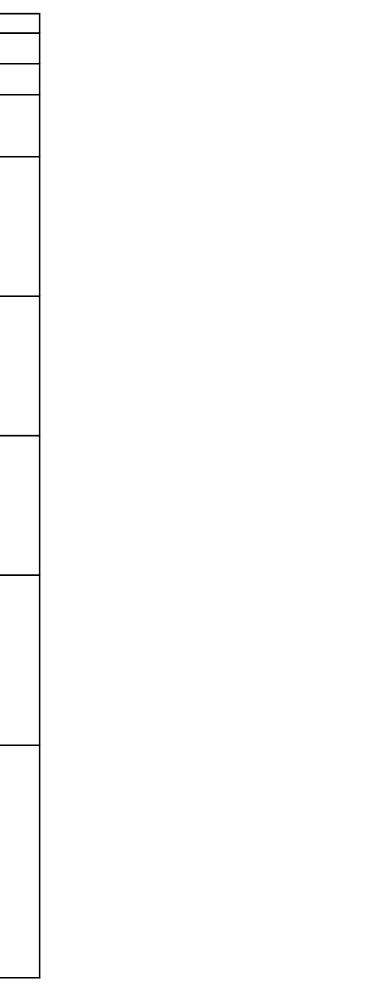
could be used positively as an opportunity for of data to inform the subsequent sea trout his will also require further information on the tocks, which should informed both by ICES d data derived from other salmon producing pountries such as Norway.

Yes

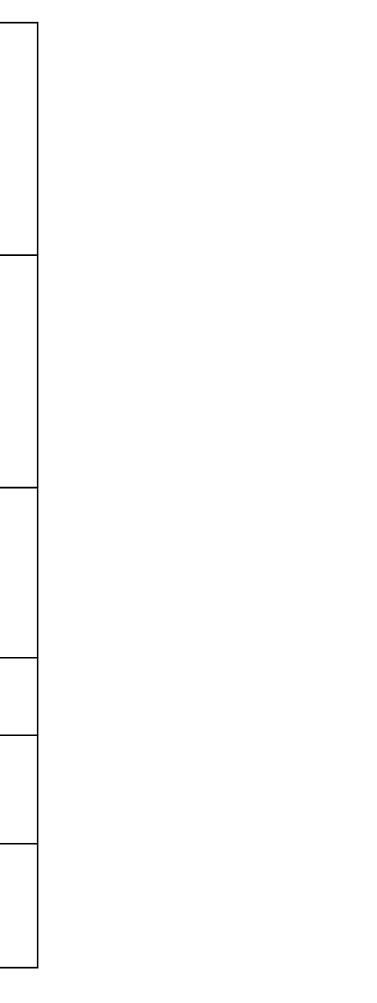
alations are in poor conservation status across tive that this risk-based spatial framework be rther delay. Whilst we understand that sea lice only one of twelve impacts on the conservation ids, it is one anthropogenic risk that can be to progress alongside efforts to address the s habitat restoration and ensuring accessible migration routes.

e proposed sea lice threshold of "0.7 infectiven2 integrated over the upper 2m of the sea" mencement of this framework. We understand is been derived from Norwegian data, but en made, via modelling data, to allow for the ced in Scottish waters. As this framework is anagement approach, we would expect to see ment of this figure captured and incorporated ons. However, this would need to be informed ction and measures of effectiveness before crease this threshold are considered.

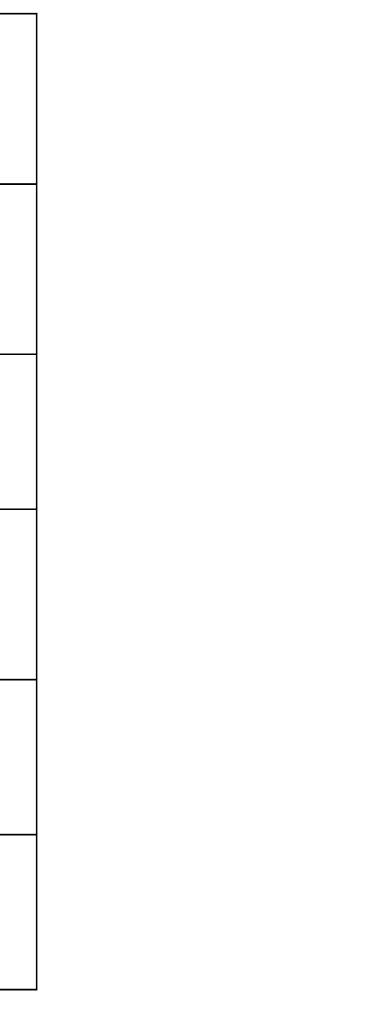
Description (Normalised	24	22	22
Respondent Number	21	22	23
What is your name? - Name			Not Answered
What is your email address? - Email			Not Answered
What is your organisation? (if applicable) - Organisation	Scottish Anglers National Association	Garware Technical Fibres Ltd	Not Answered
Do you think that there are important areas for wild salmon post-smolt migration that we have not identified as wild salmon protection zones? - Q4 radio buttons	Not sure	No	Not Answered
If yes, please identify these areas, explaining why they should be protection zones and the evidence to support this Q5 text box for information	No comment.		Not Answered
Do you think that any of areas we are proposing as wild salmon protection zones should not be so identified? - Q6 radio buttons	Not sure	Not sure	Not Answered
If yes, please identify these areas, explaining why they are not important for wild salmon post- smolt migration and the evidence to support this Q7 text box for information			Not Answered
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 text box information	No.	No	Not Answered



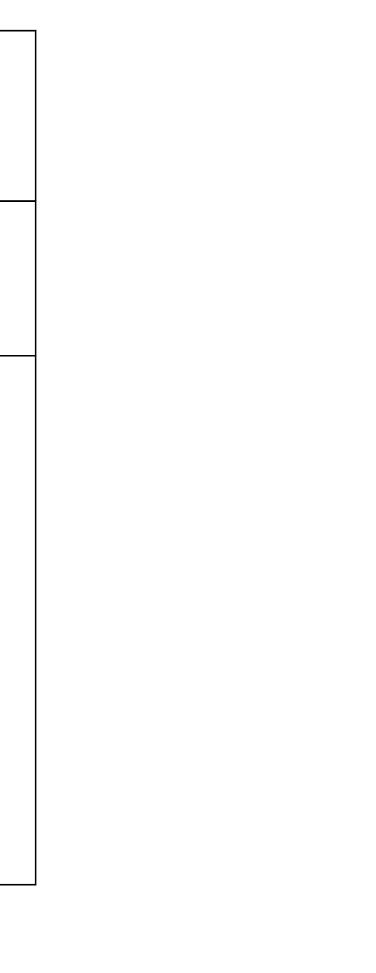
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	Not Answered	Not Answered	Not Answered
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	SANA is concerned that previous regulatory regimes have had a large element of self-control by the finfish farming industry. Given the evidence on fish escapes*, as well as on the current subject of sea lice levels on fish open sea cages, this doesn't work. It is essential that all interested parties should be represented on the technical advisory groups and that these groups should have a supervisory role in evaluating the regime after implementation. As well as Fishery Management Scotland covering the national picture, in each affected area Salmon Fishery Boards and/or Fishery Trusts should be members of the groups and financed for the costs of fulfilling that role. We note Professor Griggs' recommendations on the regulatory regime and suggest that the income from licence fees be used for this purpose. *Escapes of farmed fish cause introgression - harm to the genetic integrity of local salmon stocks through hybridisation at spawning. This could be preventing by obliging fish farm licensees to use triploid stock when using open cages.	Salmon Scotland SAIC	Not Answered
Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	No	No	Not Answered
If yes, please tell us about your area of expertise: - Q11 text box for information			Not Answered
If you would like to be involved, are you happy for us to contact you by the email address you have provided? - Q12 radio buttons	Not Answered	No	Not Answered
Do you have any suggestions for how SEPA could most efficiently and effectively assess compliance? - Q13 text box for information	No comment.	Access to site lice count data	Not Answered
			•



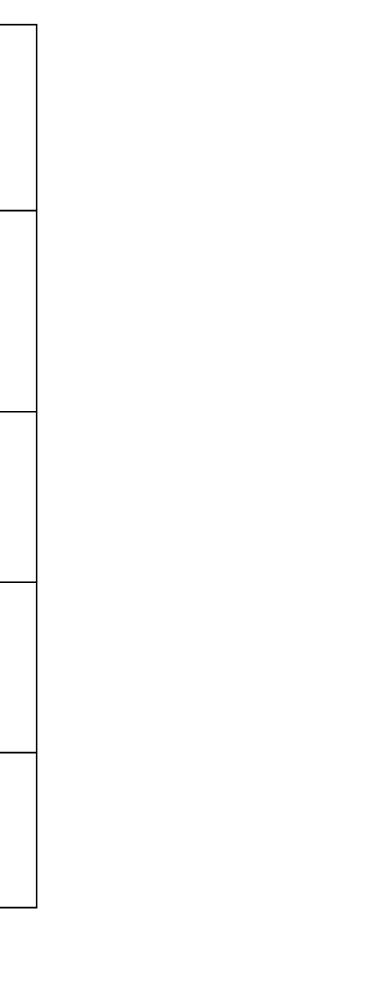
Do you have an suggestions on h we should develo monitoring plan assess the effectiveness of t framework and w it should include Q14 radio buttor	Not Answered	Yes	Not Answered
Do you have an suggestions on h we should develo monitoring plan assess the effectiveness of t framework and w it should include Q14 text box fo information	Not Answered	Obvious option is capture of out migrating smolts and checking for lice. However this is extremely difficult and almost impossible to attribute any lice found to a salmon farm or farms. Also - any smolts with lice may be compromised and therefore easier to catch thereby skewing the results.	Not Answered
Do you think the are components to should be includ in an effectivene monitoring programme that y would be able to h deliver? - Q15 ra buttons	Not Answered	No	Not Answered
Do you think the are components to should be includ in an effectivene monitoring programme that y would be able to h deliver? - Q15 to box for informati	Not Answered		Not Answered
If you would like be involved in the development of monitoring plan, you happy for us contact you by the email address you have provided? - 0 radio buttons	e A a a a a a a a a a a a a a a a a a a	No	Not Answered
Are there other ty of information th you think could usefully inform t adaptive development of t proposed framework? - Qo radio buttons	Not sure	No	Not Answered



Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 text box for information			Not Answered
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18a radio buttons	Yes in a positive way	Yes in a negative way	Not Answered
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18b text box	Yes, in a positive way. However, changing production technology to closed containment – in sea cages or on-shore facilities – offers the prospect of a substantially better solution to the sea lice problem. It would also remove the impact of fish faeces and farm chemicals on the marine environment. Additionally, it would provide a solution to the substantial deaths of stocked fish due to impacts from toxic algae and from jellyfish. That may be the biggest driver of change but we would also support public spending to aid adoption of closed containment. Further, it is regrettable that the reference to sea trout (brown trout which have migrated to feed in salt water) on page 13 of the consultation document says that their plight is not worthy of consideration for lack of evidence. Mature sea trout are progenitors of offspring which can be either sea-going or not. Therefore, it is a matter of concern that the consultation fails to consider the impact of sea lice on populations of both sea trout and brown trout in Scottish waters. The reasoning behind the proposed protection zones appears to be that salmon need of protection in these areas – because their numbers are well below historic levels in those places. Since pointers are that sea trout have been in greater decline in salmon farming areas of the west coast than on the east coast where there is little salmon farming, the concept of zones for sea trout should be capable of delivery. Absence of evidence cannot be relied on for justification of the inaction indicated at paragraph 9.1 of the consultation paper. There is plenty of photographic evidence on the intermet of immature sea trout are not being impacted. The precautionary principle should be applied. Marine Scotland Science, with fishery boards and trusts, has developed a considerable body of knowledge on sea trout over many years. We do not accept your assertion that at paragraph 9.2 that "there is very limited information on the status of sea trout apopulations in Scotland". There may be greater knowledge	Proposed framework is effectively a moratorium on further development of the sector.	Not Answered



Do you have			
suggestions how a	y l		
potential negative			
effects could be			
reduced or avoide			
without			
compromising the	Not sure	Yes	Not Answered
environmental			
protection purpos			
of the proposed			
framework? - Q19			
radio buttons			
Do you have			
suggestions how a	v		
potential negative			
effects could be			
reduced or avoide		Better empirical data / evidence re	
without		alleged impact of farm lice on wild	
	No comment.	fish. There is no credible baseline	Not Answered
compromising the environmental	no comment.	and it will be impossible to attribute	
protection purpos		any changes re wild salmon to the	
		framework - far too many variables.	
of the proposed framework? - Q19			
text box for			
information Do you have any			
suggestions how			
potential positive			
effects delivered o			
enhanced without			
		No	Not Answered
compromising the environmental	Not Sure	NO	Not Answered
protection purposed			
framework? - Q20			
radio buttons			
Do you have any			
suggestions how			
potential positive			
effects delivered o			
enhanced without		I do not believe there will be any	
compromising the		positive effects from the proposed	Not Answered
environmental		framework.	NOU / IISWEIEU
protection purpos			
of the proposed			
framework? - Q20			
text box			
		The proposed framework will	
Do you have any	SANA has no locus or expertise which would justify comment on the technical aspects of this consultation. On behalf of the	undoubtedly have a profound	
additional feedbac		negative socio economic impact on	
on the proposed	particular problem arising from open cage fish farming. However, it is like a sticking plaster to cover a deep wound.	both the immediate areas where	
framework?		salmon farming takes place as well	Not Answered
	We believe that the long term development of the industry lies in the direction of partial or whole term closed containment. Only	as throughout Scotland and the	
- Q21 text box for	then, can we be confident that the industry will be sustainable in terms of its impact on wild fish and on the wider marine	rest of the UK due to reduced	
information	environment.	activity in the sector supply / value	
		chain.	
		1	



	-
Respondent Number	24
What is your name? -	
Name	
What is your email	
address? - Email	
What is your	
organisation? (if	
applicable) -	NatureScot
Organisation	
Do you think that	
there are important	
areas for wild	
salmon post-smolt	
migration that we	Not sure
have not identified as	
wild salmon	
protection zones?	
- Q4 radio buttons	
If yes, please identify	
these areas,	We have participated in meetings of the Technical Group, during the preparation of this framework and support the inclusion of
explaining why they	relevant Special Areas of Conservation in the process of identifying wild salmon protection zones. Beyond that, there is obviously a
should be protection	knowledge gap about salmon migration routes around areas of our coast and ongoing work to fill some of those gaps is encouraging.
zones and the	Given that uncertainty, as our knowledge improves, there is the potential that further wild salmon protection zones will need to be
evidence to support	identified.
this Q5 text box for	identified.
information	
Do you think that any	
of areas we are	
proposing as wild	
salmon protection	Νο
zones should not be	
so identified?	
- Q6 radio buttons	
If yes, please identify	
these areas,	
explaining why they	
are not important for	Despite answering 'no' above, it will be important that the framework also considers any existing and proposed developments not
wild salmon post-	located within risk zones where modelling demonstrates that sea lice emanating from these sites are likely to contribute to lice loads
smolt migration and	within a risk zone. Equally, where lice emanating from a farm located in one risk zone are likely to be dispersed in to a separate risk
the evidence to	zone this should also be considered.
support this Q7 text box for	
information	
Information	
Do you have any	
scientific evidence	
that should be	
that should be considered to ensure	
that should be	
that should be considered to ensure the sea lice exposure threshold is effective	
that should be considered to ensure the sea lice exposure threshold is effective in protecting wild	
that should be considered to ensure the sea lice exposure threshold is effective	
that should be considered to ensure the sea lice exposure threshold is effective in protecting wild	
that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations?	
that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any	
that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a	
that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the	

Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	Not Answered
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	
Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	No
If yes, please tell us about your area of expertise: - Q11 text box for information	While we don't have relevant experience in the development of modelling protocols, we are happy to share experience related to our previous involvement in dealing with risks to wild salmonids through our advice to planning authorities.
If you would like to be involved, are you happy for us to contact you by the email address you have provided? - Q12 radio buttons	Yes
Do you have any suggestions for how SEPA could most efficiently and effectively assess compliance? - Q13 text box for information	Real-time compliance monitoring is likely to be challenging. Retrospective compliance monitoring may be a more realistic option in many areas, although with Special Areas of Conservation it would require careful adaptive management with further safeguards. Generally, in all likelihood this means management action would be taken based on compliance over the previous risk period (Apr-May). If an area is not complying or is on the borderline of compliance it seems reasonable to assume that there would be limited capacity to accommodate further additional biomass, unless it can be demonstrated that novel technologies / equipment can remove the risk of additional sea lice entering the marine environment.

Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 radio buttons	Yes
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information	Monitoring of lice levels in the marine environment may provide one mechanism to determine the effectiveness of the framework in terms of validating model outputs and predictions. It is likely this may require plankton monitoring or towed sentinel cages. Assessing the health of the wild Atlantic salmon population is a key component of measuring the success of the new regulatory framework, although sea lice is only one of 12 key pressures on the species. There is a mechanism (through the National Electrofishing Programme for Scotland (NEPS) to deliver this. However, long-term funding must be assured for NEPS to be delivered on an annual basis and to provide meaningful measures of population health. Monitoring the health of fresh water populations will be particularly important where they themselves are a high conservation priority (e.g. Special Areas of Conservation, to ensure the policy tests of the Habitat Regulations are met). It is worth noting that the watercourses in several relevant Special Areas of Conservation are relatively small and can fall outwith NEPS. A means of monitoring them needs to be included within the plan, and we suggest be tied to permitting, in order to ensure that the relevant precautionary policy needs of such sites are adequately addressed. It is also important that any estimated of sea lice impacts on post-smolt Atlantic salmon be assessed at the population level and not simply on individual fish.
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	No
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information	We have experience of developing monitoring programmes through our advice on Environmental Management Plans to local Planning Authorities that may be relevant. Relevant Special Areas of Conservation are also monitored as part of our Site Condition Monitoring programme – however that national scheme is not sufficient to be included as a component in monitoring the effectiveness of the proposed new framework
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Yes

Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Yes
	There would be merit in gathering further data on Atlantic salmon post-smolt migration routes, particularly in high risk zones, as the shortest route to open sea is not necessarily the route that post-smolts will take. This may affect the boundaries of the proposed risk zones and could help to inform the framework in the future.
Are there other turned	Collecting data to refine our understanding of the spatial dispersal of sea lice over space and time within the 'aquaculture zone' to identify areas of high risk.
Are there other types of information that you think could usefully inform the	Data on actual lice levels on fish in the wild could help to validate model predictions. This may require use of, for example, towed sentinel cages to replicate predicted migration speeds and routes.
adaptive development of the	Better linkages could be made between the framework and the Wild Salmon Strategy, particularly in relation to the priority theme: 'Understanding and mitigating pressures in the marine and coastal environment' and its associated actions.
proposed framework? - Q17 text box for information	Supporting the delivery of a statistically robust evidence base for assessing the status of juvenile Atlantic salmon populations is not mentioned within the consultation. It is against such a baseline that the impact, and success, of the framework can be measured. A framework already exists for this work though the National Electrofishing Programme for Scotland, although support and delivery is not guaranteed on an annual basis.
	Sea trout have been excluded from the current proposed framework. It is important sufficient research is rapidly undertaken, particular on their ecology, coastal migratory behaviour and status, so that this proposed regulatory approach can be extended to include both salmonid species.
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18a radio buttons	Yes in a positive way
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18b text box	We welcome the proposed framework as a positive and important step to improve the management of sea lice and the risk they pose to wild Atlantic salmon. We have recommended refinements to ensure that the framework takes a sufficiently precautionary approach to meet the precautionary policy tests of the Habitat Regulations. And we encourage the inclusion of sea trout within the same approach, to similarly protect that species (which is a priority marine feature), but also to have a single regulatory approach that supports the aquaculture industry and stakeholders.

Do you have	
suggestions how any	
potential negative	
effects could be	
reduced or avoided	
without	
compromising the	No
environmental	
protection purpose	
of the proposed	
framework? - Q19a	
radio buttons	
Do you have	
suggestions how any	
potential negative	
effects could be	
reduced or avoided	
without	
compromising the	
environmental	
protection purpose	
of the proposed	
framework? - Q19b	
text box for	
information	
Do you have any	
suggestions how	
potential positive	
effects delivered or	
enhanced without	
compromising the	Yes
environmental	
protection purpose	
of the proposed	
framework? - Q20a	
radio buttons	
Do you have any	
suggestions how	
potential positive	
effects delivered or	
enhanced without	
compromising the	See above Q 18
environmental	
protection purpose	
of the proposed	
framework? - Q20b	
text box	

	We have been involved in some of the work during the preparation of this framework, by our membership on the Technical Working Group. We warmly welcome this proposed framework as an important step in managing the interactions between sea lice from marine finfish farms and wild Atlantic salmon.
Do you have any additional feedback on the proposed framework?	We recognise that wild Atlantic salmon numbers are in decline and that the root cause of this decline may lie in a complex range of pressures within the freshwater and marine environments. These have been summarised in the recently published Wild Salmon Strategy. We also acknowledge that aquaculture is only one of 12 key pressures identified in the Wild Salmon Strategy and it important that adequate action is taken to address all of the pressures.
- Q21 text box for information	We understand the reasons why the current proposed framework is unable to include sea trout. We look forward to working with you and others to gain sufficient knowledge that, as soon as possible, the framework can be extended to include this other priority species.
	We have made suggestions to refine the regulatory approach, particularly to adequately address the policy tests within the Habitat Regulations. And we look forward to the successful implementation of the framework in order to both continue supporting Scotland's important aquaculture industry and improve the protection of our wild Atlantic salmon populations.

Respondent Number	25
What is your name? -	
Name	
What is your email	
address? - Email	
What is your	
organisation? (if applicable) -	Community of Arran Seabed Trust (COAST)
Organisation	
Do you think that	
there are important	
areas for wild	
salmon post-smolt	
migration that we	Yes
have not identified as	
wild salmon	
protection zones?	
- Q4 radio buttons	
If yes, please identify these areas, explaining why they should be protection zones and the evidence to support this Q5 text box for information	The hard, cut-off straight lines that are a result of the approach taken to determine protection zone boundaries do not make sense ecologically in terms of identifying areas of risk for migrating salm sea lice from multiple farms will accumulate and pose a significant risk for migrating salmon smolts. The Clyde region is an example of this. Here the approach taken implies that there is no risk sea case. Sea lice are just as likely to accumulate on the seaward side of the red zones and salmon smolts migrating through these areas will be exposed to these the proposed salmon protection zones need to be revised to address the fact that raised levels of sea lice will occur over much larger areas than those identified. Viable sea lice can be transpo- determined by prevailing hydrodynamics of an area. Also, it is not guaranteed that migrating smolts will necessarily choose the shortest route. These considerations need to be applied to the dete salmon protection zones will fail to adequately cover areas of critical importance to migrating salmon smolts. In the Clyde area there is already evidence from hydrodynamic and sea lice dispersion modelling that demonstrates the cumulative effect of sea lice from the existing multiple farms within the Clyde the proposed salmon protection zones. As the consultation document identifies, there is already evidence of substantial impacts on marine survival of wild Atlantic salmon resulting from sea lice from finfish farms that has been demonstra- impacts have occurred / are occurring in Scotland. Scotland's wild salmon populations are in a desperate state requiring that proposed protection measures are as We consider that the proposed framework including identification of protection zones should be applied to sea trout as well. The assertion in the consultation document that sea trout catches a secaped farmed salmon on wild stocks is for 100% of farms to have effective management so that there is no increase in sea lice loads or lice induced mortality of will secaped farmed salmon on
Do you think that any of areas we are proposing as wild salmon protection zones should not be so identified? - Q6 radio buttons	No
If yes, please identify	
these areas,	
explaining why they	
are not important for	
wild salmon post-	
smolt migration and	
the evidence to	
support this Q7	
text box for	
information	

non. Also, the approach taken does not account for areas where award of the identified red zones. In practice this would not be the se raised levels of sea lice.

orted over 30km and their dispersion and accumulation will be ermination of protection zones. Failure to do so means that the

e region, with accumulations within areas that are not covered by

ated in Ireland and Norway. It is reasonable to consider that such robust as they possibly can be.

appear to have stabilised is not supported by available data.

est management practices to address the impacts of sea lice and ild salmonids attributable to farms.

Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 text box information	Our understanding is that the evidence from Norway currently provides the best available information and should therefore be applied at this time but should be subject to prompt revisi The period of time over which sea lice thresholds apply must be broadened. Smolt migration can vary with influence from things such as weather patterns and temperature and the threshold period detected, there is a time lag in implementing management action to address this, and in this action being effective in reducing the lice burden on A threshold period limited to April/May is not sufficient. The industry's Code of Practice regarding reduced lice threshold levels applies to the period February – June and it is this sort of broader
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	Not Answered
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	Community representation (for example through Coastal Communities Network (CCN) Scotland and specific community-based organisations), environmental organisations, bodies such as Salmon such as from District Salmon Fisheries Boards should be involved alongside regulatory organisations and industry representatives. Many others outside of the regulatory bodies and ind
Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	Possibly

ion as further relevant evidence becomes available.

I needs to reflect this. Also, if raised sea lice levels on a farm are n farmed fish.

period of time that needs to be applied within the framework.

n and Trout Conservation Scotland and fisheries representatives dustry have technical expertise to input to this work.

	COAST has a range of experience with open cage salmon farming, and regulatory and technical matters relating to this. This includes working with other coastal community groups and others of
If yes, please tell us about your area of	We are concerned that the consultation document appears to imply that applicants construct the requisite models and undertake the modelling. There appears to be no requirement for independ provides no oversight of the data collection and modelling.
expertise: - Q11 text box for information	It also appears that the modelling is only required to be applied at an individual farm level, when the very basis for the consultation clearly requires that modelling for an application must also enco farms within a water body/region where these will overlap to any degree.
	There needs to be transparency and independence in the data collection and modelling for fish farms and new applications. Currently this isn't the case and wouldn't be under the p
If you would like to be involved, are you happy for us to	
contact you by the email address you	Yes
have provided? - Q12 radio buttons	
Do you have any suggestions for how	
SEPA could most efficiently and effectively assess	Currently there is a lack of transparency and accessibility to real time monitoring data and management actions, including treatments and chemical use for open cage fish farms in Scotland. Information accessible in a much more timely manner than is currently the case, on a weekly basis at minimum.
compliance? - Q13 text box for	There must also be regular independent verification of monitoring and management as an integral part of any framework. It is reasonable that the costs of this could be funded fr
information	
Do you have any suggestions on how	
we should develop a monitoring plan to	
assess the effectiveness of the	Yes
framework and what it should include? -	
Q14 radio buttons	
Do you have any suggestions on how we should develop a	Whilst not specifically part of this consultation, there is a requirement both within the screening process for applications and more generally in relation to monitoring requirements for open cage fish on the marine environment and human health more broadly. Current data collection and monitoring requirements are very narrowly focussed and are not required to monitor further afield effects w impact of Emamectin benzoate on crustaceans outside the allowable zone of influence.
monitoring plan to assess the effectiveness of the framework and what	A robust approach to monitoring the effectiveness of the framework is essential to provide assurance about the approach. It is also essential that where monitoring indicates issues with the effectiveness of the framework is essential to provide assurance about the approach. It is also essential that where monitoring indicates issues with the effectiveness of the framework is essential to provide assurance about the approach. It is also essential that where monitoring indicates issues with the effectiveness of the framework is essential to provide assurance about the approach. It is also essential that where monitoring indicates issues with the effectiveness of the framework is essential to provide assurance about the approach. It is also essential that where monitoring indicates issues with the effectiveness of the framework is essential to provide assurance about the approach. It is also essential that where monitoring indicates issues with the effectiveness of the framework is essential to provide assurance about the approach. It is also essential that where monitoring indicates issues with the effectiveness of the framework is essential to provide assurance about the approach.
it should include? - Q14 text box for	The monitoring approach must include compliance monitoring by SEPA and greater frequency of unannounced monitoring visits.
information	An agreed approach for effectiveness monitoring must be developed prior to implementation of any new framework. There should be an opportunity for the public to comment on the proposed e
Do you think there are components that	
should be included in an effectiveness	
monitoring programme that you	Not sure
would be able to help deliver? - Q15 radio	
buttons	

on modelling work and other research within the Clyde region. dent verification or validation of this. This is not acceptable and

ompass modelling of cumulative impacts with outputs from other

proposals as set out in the consultation document.

rmation and data need to be made publicly available and readily

from a levy on the industry as part of a licence.

sh farms to address the impacts of fish farm waste and pollutants which available evidence indicates are likely to be occurring, e.g.

iveness of the framework that these are addressed promptly and

effectiveness monitoring approach ahead of it being finalised.

Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information	
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Yes
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Yes
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 text box for information	There needs to be application of the precautionary principle to any adaptive approach. Scotland is party to treaties and laws which make the use of the precautionary principle obligatory. References the second stream of the approach to regulation and management should be adaptable over time, reliance on an adaptive approach risks failing to actually address the specific issue regulation of open cage salmon farming in Scotland. Decisions based, for example, on innovative technology or novel management approaches need to demonstrate that the measures have proven to be effective before being accepted as a means. The inquiry by the Rural Economy and Connectivity (REC) committee of the Scottish Parliament into salmon farming in Scotland (2018) made a number of recommendations regarding the precaution relation to any new framework (e.g. RECC inquiry recommendations 40, 46 and 48).
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18a radio buttons	I'm not sure
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18b text box	There are potential positive and negative effects from the proposed framework depending on how it is taken forward and what it contains Failure to establish an effective framework means further demise of populations of Scottish wild salmon and sea trout with negative impacts on the freshwater and marine environments and the eco communities, organisations and businesses that are connected with these. A fundamental issue relates to the stated intention of the new framework to contribute to ensuring a sustainable future for Scotland's wild salmon populations and its aquaculture industry. Scottish G clearly define what 'sustainable' means in terms of fish farming in Scotland, in line with Scottish Government's acceptance of the UN definition of sustainability as set out in overarching policy. With industry, including transparent cost benefit analysis, any new framework is destined to fail to deliver what it says it is aiming to achieve.

Relying on adaptive management is not precautionary.

ssues and problems, as is currently the situation overall with the

ans to reduce sea lice abundance emanating from fish farms.

ionary principle which are still relevant and need to be applied in

ins.

ecology that is influenced by these species, and the individuals,

n Government, SEPA and other regulatory organisations need to /ithout this, and clear parameters defining sustainability for this /e.

Do you have	
suggestions how any	
potential negative	
effects could be	
reduced or avoided	
without	Yes
compromising the	res
environmental	
protection purpose	
of the proposed	
framework? - Q19a	
radio buttons	
Do you have	
suggestions how any	
potential negative	
effects could be	
reduced or avoided	
without	
compromising the	Please see other comments relating to measures needed to ensure a robust and effective framework, and re defining sustainability in relation to the
environmental	
protection purpose	
of the proposed	
framework? - Q19b	
text box for	
information	
Do you have any	
suggestions how	
potential positive	
effects delivered or	
enhanced without	
compromising the	Yes
environmental	
protection purpose	
of the proposed	
framework? - Q20a	
radio buttons Do you have any	
suggestions how	
potential positive	
effects delivered or	
enhanced without	
compromising the	Positive effects could be delivered by a commitment to a planned transition from open cage fish aquaculture to fully closed containment, preferably shore based, to remove all sea lice risk, remove dis
environmental	the requirement for wild caught cleaner fish.
protection purpose	
of the proposed	
framework? - Q20b	
text box	

this industry.

discharge of waste and pollutants direct into the sea and remove

	The stated purpose of the proposed framework is to help ensure Scotland's environment is protected and improving, and that this also contributes to achieving sust
	There are a number of issues here that the framework fails to properly acknowledge or address:
	1. The dire state of Scotland's west coast wild salmon populations and populations of sea trout. This requires much more robust measures to address all the known impacts of open cage fin fish aqua edges and hoping that this will reverse the trend of declining populations. Urgent action is needed now, not in 12 months' time or longer.
Do you have any additional feedback on the proposed framework?	2.Sustainability. The UN's definition of environmentally sustainable development (used in Scotland's National Marine Plan) is 'development that meets the needs of the present without compromisin There is a very significant issue with use of the word 'sustainability' in relation to open cage salmon farming in Scotland. The reality is that there is no such thing as environmentally sustainable open-r cage salmon farming has coincided with the collapse of wild salmon runs in countries around the world. This, together with other issues outside the scope of this specific consultation, such as impacts waste and pollutants into the marine environment and implications of this on marine species, other businesses and human health, mean that open cage salmon farming in Scotland is very far away accepted by the Scottish Government as part of its overarching marine policy framework. The lack of a proper cost benefit analysis of the salmon farming industry
- Q21 text box for information	3.Impacts from existing farms: It makes no sense to focus the new framework on new and expanded farms and leave consideration of existing farms until later. Existing farms are already producing framework should be applied to existing farms as a matter of priority. This should be prioritised over and above consenting of new farms and expansions to existing farms. Failure to do so means th continue to be ignored and undermine the stated purposes for the new framework. The REC committee salmon farming inquiry report (2018) recommended that " if the industry is to grow the "sacceptable". And that "urgent and meaningful action needs to be taken to address regulatory deficiencies as well as fish health and environmental issues before
	Prioritising applications for new farms and expansions of existing farms under the framework, ahead of addressing issues associated with existing farms currently in place, blatantly ignores this re environmental issues have not been addressed and the basis for the REC committee recommendation still applies.
	4.Postponing inclusion of sea trout within the framework until a later date. There is no valid justification for doing this. Sea trout are a priority marine species for which Scotland has commitments to pro trout and salmon from the outset.

sustainable economic growth.

quaculture on these species. It is no good tinkering around the er.

ising the ability of future generations to meet their own needs'. en-net salmon farming. It is not coincidence that growth of openacts on wild fish stocks for feed and cleaner fish, and dumping of way from meeting the definition of sustainability that has been try is indicative of this issue.

ing sea lice that are affecting wild salmon and sea trout; the s that the contribution of sea lice impacts of existing farms will le "status quo" in terms of regulation and enforcement is not ore the industry can expand."

s recommendation. Regulatory deficiencies, fish health and

protect. The framework needs to apply equally to both wild sea

Respondent Number	26
What is your name? -	
Name What is your email	
address? - Email	
What is your	
organisation? (if applicable) -	Argyll Fisheries Trust and Argyll District Salmon Fishery Board
Organisation	
Do you think that	
there are important areas for wild	
salmon post-smolt	
migration that we	Yes
have not identified as	
wild salmon protection zones?	
- Q4 radio buttons	
If yes, please identify these areas,	The first year of West Coast Salmon Tracking Project has identified a significant proportion of smolts from the River Awe and the River Etive migrate through the Firth of Lorne, a large part of which necessary to include a larger area of the Firth of Lorne as a protection zone.
explaining why they should be protection	Argyll Fisheries Trust electrofishing survey data shows that there is a salmon population in the Barbreck River at the head of Loch Craignish, which has not been i
zones and the evidence to support this Q5 text box for	Upper Loch Long is not currently identified as a protection zone. Argyll Fisheries Trust has recorded juvenile Atlantic salmon in the Croe Water at the head of Loch Fyne in surveys and should the south and east of the Isle of Arran that support salmon populations, but have no protection zone. These rivers are the Blackwater, Kilmory Water and the
information	We believe that these salmon population need to be included within the protection zones.
Do you think that any	
of areas we are proposing as wild	
salmon protection	Νο
zones should not be so identified?	
so identified :	
- Q6 radio buttons	
If yes, please identify	
tnese areas, explaining why they	
are not important for	
wild salmon post-	
smolt migration and the evidence to	
support this Q7	
text box for	
information	
Do you have any	Results from the West Coast Salmon Tracking Project suggest some smolts migrating from the Rivers Etive and Awe can have slower swimming speeds in Loch Etive, around the Connel Bridge ar
scientific evidence	take longer to migrate through some areas than others and therefore have an increased sea lice exposure in these areas. The relevant data to the
that should be	
considered to ensure the sea lice exposure	Mouth of River Etive to Connel Bridge: 61 smolts, 0.68 ± 0.43 (bodylength/s), 1.14 (min. days), 11.25 (Max. days), 4.58 ± 2.19 (Avg. Da
threshold is effective in protecting wild	Mouth of River Awe to Connel Bridge: 88 smolts, 0.82 ± 0.82 (bodylength/s), 0.18 (min. days), 9.47 (Max. days), 2.22 ± 1.76 (Avg. Day
salmon populations?	Connel Bridge to Sound of Mull:23 smolts, 1.02 ± 0.36 (bodylength/s), 0.75 (min. days), 8.52 (Max. days), 3.53 ± 2.35 (Avg. Days).
This includes any evidence for a refinement of the	Connel Bridge to Sound of Lorne: 46 smolts, 1.52 ± 0.68 (bodylength/s), 0.44 (min. days), 3.61 (Max. days), 1.64 ± 0.95 (Avg. Days).
threshold - Q8 text box information	Given the variation in swimming speed shown by individual tagged smolts and between the locations, it is essential to collect and utilise these data in modelling exposure to sea lice. Additionally, significant proportion of smolts which swim slower than the average, insufficiently protected. The use of the slowest swimming speed would protect a higher than the average.

h has has not been identified as a protection zone. It is therefore

identified as a protection zone.

erefore be part of a protection zone. There are also rivers on the Glenashdale Burn.

nd Firth of Lorne. These preliminary results show that smolts can ese areas are:

ays).

/s).

by using average swimming speeds, these models will leave a er proportion of smolts.

sc cor the thre sale T	Do you have any cientific evidence that should be nsidered to ensure e sea lice exposure eshold is effective n protecting wild mon populations? This includes any evidence for a efinement of the nreshold - Q8 File upload	https://consultation.sepa.org.uk/regulatory-services/protection-of-wild-salmon/consultation/download_file?squid=question-2021-11-25-9063656368-filesubquestion
org t inc ac de d ar mo	/hich groups and ganisations do you think we should clude on technical dvisory groups to issist us with the evelopment of the detailed working rrangements and ethods needed to implement the mework? - Q9 text ox for information	District salmon Fishery Board & Fishery Trusts Fishery Management Scotland Marine Scotland Scottish Association for Marine Science Aquaculture representatives
ex w sha i pla	you have relevant expertise or perience that you rould be happy to are with us during implementation anning to help us evelop modelling ptocols? - 10 radio buttons	Yes
at ex	yes, please tell us bout your area of pertise: - Q11 text ox for information	Argyll Fisheries Trust has monitored sea lice on sea trout in several locations in Argyll & the Islands over a period of 20 years in some locations. This work has built a degree of experience in mon modelling.
be cc er hav	you would like to involved, are you happy for us to ontact you by the mail address you ve provided? - Q12 radio buttons	Yes
sug S et	Do you have any ggestions for how BEPA could most efficiently and ffectively assess ompliance? - Q13 text box for information	We believe that by monitoring gravid lice on farms it is likely that the number of sea lice eggs being introduced to the environment will be underestimated. Fish farms already record the number of already released their eggs. Therefore, to ensure more realistic estimates of sea lice larvae production, SEPA should use adult female lice counts to as

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nonitoring activities and collated relevant data which may inform

of adult female lice which will include those lice which may have assess compliance.

Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 radio buttons	Yes
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information	It is essential that SEPA ensure the validity of their modelling approach. Therefore, it would be beneficial to for the monitoring plan to ensure that data on wild fish and sea lice in the environment are and provide transparency as to the effectiveness of the framework.
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Yes
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information	The main method of monitoring should be direct measures of sea lice larvae in the environment and the collection of data on sea lice burdens of wild salmonid fish. These data may be used to mo modelling approach.
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Yes
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Not sure

are included to better inform the modeling development process monitor effectiveness of the framework and further inform the

Are there other types of information that you think could usefully inform the	
adaptive development of the	
proposed framework? - Q17	
text box for information	
Do you think the design of the proposed framework, or how it is	
implemented, could	Yes in a positive way
affect your community or	
business interests? - Q18a radio buttons	
Do you think the design of the	
proposed framework,	
or how it is implemented, could	If the implementation of the framework is effective in protecting wild salmon it will benefit both biodiversity and freshwater fisheries which both add to local economic activity in angling and general tout
affect your	environment is better regulated and not damaged by inappropriate development. To achieve these outcomes it will be important for the proposed framework to be able to clearly demonstrate
community or business interests? -	
Q18b text box	
Do you have suggestions how any	
potential negative	
effects could be reduced or avoided	
without	Not sure
compromising the environmental	
protection purpose	
of the proposed framework? - Q19a	
radio buttons	
Do you have	
suggestions how any potential negative	
effects could be	
reduced or avoided without	
compromising the	
environmental	
protection purpose of the proposed	
framework? - Q19b	
text box for	
information	

tourism. Local residents also stand to benefit from knowing their te to local communities and businesses that it is effective.

ſ	Do you have any	
	suggestions how	
	potential positive	
	effects delivered or	
	enhanced without	
	compromising the	Not sure
	environmental	
	protection purpose	
	of the proposed	
	framework? - Q20a	
	radio buttons	
ſ	Do you have any	
	suggestions how	
	potential positive	
	effects delivered or	
	enhanced without	
	compromising the	
	environmental	
	protection purpose	
	of the proposed	
	framework? - Q20b	
	text box	
	Do you have any additional feedback on the proposed framework? - Q21 text box for information	In general, we welcome the underlying principle of managing the overall number of infective-stage sea lice in the marine environment at a level below which impacts on wild salmon are expected. We to the scope and detail of the proposed framework. Section 2.5 of the consultation document states that the proposed regulatory framework will deliver on the Scottish Government's response to the Salmon Interactions Working Group Recommendations were clear that they relate to wild salmonids (Atlantic salmon and sea trout);
		We support SEPA's proposals on data sharing within C16 and C17, and strongly suggest that this data is published in real time in order that all stakeholders fully understand, and engage with, the particular states and the states of the states and the states of the states and the states of the states and t

We do however highlight a number of concerns below in relation

ndations. We do not consider this to be accurate for the following

such that there is no increase in sea lice loads or lice-induced

Government), it is crucial that both farmed fish numbers and on-

vital that a precautionary approach is adopted by SEPA, and that ultation of managing the overall number of infective-stage sea lice necessary to maintain infective-stage sea lice below the exposure

v should be included in the proposed framework. We note that the ties, do not define a 'sensitive period' and include a single sea lice efore be expected to be travelling up the West Coast until at least

hysiological and growth consequences that arise from lost feeding be reflected in the developing risk assessment framework for sea

e in relation to wild-farmed interactions for the majority of existing ocal authorities do not have the capacity or expertise to properly purpose, enforceable system for management of sea lice.

e process. The current timescale for aquaculture data publication

Respondent Number	27
What is your name? -	
Name	
What is your email	
address? - Email What is your	
organisation? (if	
applicable) -	West Sutherland Fisheries Trust
Organisation	
Do you think that	
there are important	
areas for wild	
salmon post-smolt	
migration that we	Yes
have not identified as	
wild salmon	
protection zones? - Q4 radio buttons	
If yes, please identify	We recognise that the classification of river mouths, sea lochs and sounds as wild salmon protection zones is a useful starting place, but we are concerned about gaps in the current proposals. A
these areas,	raises the issue of protection of a number of salmon rivers in close proximity to active fish farms, in particular around Loch a' Chairn Bhain. In addition, the absence of Loch Glencoul from the currer
explaining why they should be protection	has the potential to impact on any salmon and sea trout within the area, is confusing.
Topos and the	
evidence to support	Many of these rivers are not part of Marine Scotland's 2021 list of graded rivers, which is based on angler catch and to some extent landowner reporting. The exclusive use of this list, therefore, mis
this Q5 text box for	restore the biodiversity of the area through the restoration of previous populations. We believe that protection of all rivers with access for migratory fish populations should be implemented with population.
information	population.
Do you think that any	
of areas we are proposing as wild	
salmon protection	
zones should not be	No
so identified?	
- Q6 radio buttons	
lf voo plaass identify	
If yes, please identify these areas,	
explaining why they	
are not important for	
wild salmon post-	
smolt migration and	
the evidence to	
support this Q7	
text box for	
information	

brief assessment of the zones detailed within West Sutherland nt proposal, which is upstream of a protection zone and therefore

sses the potential to conserve all wild salmonid populations, or to hin this framework in order to properly conserve the salmonid

Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 text box information	The assumption implicit in sections 5.4, 6.1 and 6.2 that current lice levels from existing farms are not damaging wild fish is concerning. We do not believe that this is necessarily the case and feel that conditions should salmonids. This threshold should be based on the potential impacts, as detailed within scientific literature, rather than an arbitrary background level based on current conditions. If the intent of the framework is to protect important that all infective sea lice are considered, from both new and existing farms. In section 6.3 you state: It is also necessary because more information is needed to enable an assessment of whether the operation of existing farms is resulting in a hazard to wild salmon populations. In this case we framework should be preventing any hazard, not minigating II. There is a large body of evidence within Scotland of the impacts of existing farms in resulting in a hazard to wild salmon populations. In this case we framework should be properly enacted without consideration of, and the modelling of, existing farms. We do not consider that the application of the framework during April and May is sufficient to protect migrating smolts, or the returning adults. Notwithstanding our concerns about sea trout, we believe that the provision o their assessment of the published lice levels over the past 11 months would indicate that as lice levels start to increase within the cages most attempts at a reduction are at best limited, with lice numbers routinely excee suggest that protection for the rating smolts, particularly in the second year of production, would best peachived by lice levels remaining below the threshold throughout the year. This would have the added benefit of protection of migrating smolts, particularly in the second year of production passage time of a motive and provider on the struct protect on to sea trout prior to the development of a dedicated model. When calculating the threshold lice levels within the protection zones, the minimum passage time of a motive
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	Not Answered
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	Fisheries Management Scotland and its members Missing Salmon Alliance

I be constructed to keep lice below the exposure threshold to protect wild the wild salmonid populations from impacts arising from sea lice then it is

e feel that the precautionary principle should therefore be applied as the s not consider impacts on sea trout, the development of high lice loadings ategy to manage the overall number of infective-stage lice in the marine

of a sensitive period within the framework is unnecessary and unhelpful. A eding current thresholds within a month of treatment. This would therefore rotecting returning adults where flow conditions mean they are held within

been running tracking projects in association with the Trusts and DSFB's, ad information on the smolt run outwith the protection zones, and further ired to protect migratory smolts from the impacts of sea lice.

used does not miss peak sea lice densities, thereby potentially under-

a consistent approach to modelling is used across Scotland. In particular, f infective-stage lice. SEPA should also define the expected proportion of liscuss this further.

Whilst we accept that it is gravid female lice that produce eggs, we believe aution within the modelling.

Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	No
If yes, please tell us about your area of expertise: - Q11 text box for information	
If you would like to be involved, are you happy for us to contact you by the email address you have provided? - Q12 radio buttons	Yes
Do you have any suggestions for how SEPA could most	We consider that the regulatory framework must include farm-specific sea lice thresholds (devised to ensure that the exposure threshold in the relevant water body is not exceeded) with enforcement a threshold for treatment, or management action, but rather an absolute threshold which should not be exceeded. We recognise that SEPA have existing powers for fixed and variable monetary pena (including reductions in maximum consented biomass where appropriate) and revoke licenses. We wish to see a clearly defined regulatory approach set out, which meets the tests of bein
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 radio buttons	Yes
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information	Monitoring the effectiveness of the framework is fundamental to generating public acceptance of the approach. In particular, monitoring the distribution and densities of infective-stage sea lice in th possible, will be crucial. Compliance monitoring against the framework should not be undertaken by operators alone (as alluded to within Section C14 and C18) and SEPA should define a progra transparency in this process. Further, it is important that the lice numbers within the protection zones are also monitored to ensure that the measures in place are sufficient to maintain the number o
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Yes

ent action for breaches of these thresholds. We would not support enalties, enforcement undertakings and have the ability to review being robust, transparent, enforceable and enforced.

n the environment, and infestation pressure on wild fish where gramme of unannounced audit inspections of sites to ensure r of infective lice stages within the wild at below threshold level.

Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information	We have experience of monitoring sea lice levels on wild fish and also in the analysis of plankton samples for juvenile sea lice.
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Yes
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Not sure
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 text box for information	
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18a radio buttons	Yes in a positive way
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18b text box	The delivery of this framework is a crucial first step towards implementing a robust regulatory system which aims to protect wild fish. The principles included in the framework, if delivered appropriat wild-farmed interactions, thereby contributing to their conservation into the future

riately, have the potential to significantly improve the regulation of

Do you have	
suggestions how any	
potential negative	
effects could be	
reduced or avoided	
without	Not sure
compromising the	
environmental	
protection purpose	
of the proposed	
framework? - Q19a	
radio buttons	
Do you have	
suggestions how any	
potential negative	
effects could be	
reduced or avoided	
without	
compromising the	
environmental	
protection purpose	
of the proposed	
framework? - Q19b	
text box for information	
Do you have any	
suggestions how	
potential positive	
effects delivered or	
enhanced without	
compromising the	Not sure
environmental	
protection purpose	
of the proposed	
framework? - Q20a	
radio buttons	
Do you have any	
suggestions how	
potential positive	
effects delivered or	
enhanced without	
compromising the	
environmental	
protection purpose	
of the proposed	
framework? - Q20b	
text box	

	You state in Section 2.5 that the proposed framework will deliver on the Scottish Governments response to the Salmon Interactions Working Group recommendations. Unfortunately, the proposal as laid out
	•The SIWG recommendations relate to wild salmonids, which include sea trout. By excluding sea trout from all consideration, this proposal falls far short of this recom •The SIWG recommendations include all farms, both new and existing; •Within the Government response reference was made to Scotland's international obligations under NASCO. These include "100% of farms to have effective sea lice management such that there is no increase in sea lice farms".
Do you have any additional feedback on the proposed framework? - Q21 text box for information	We have some concern as to how this framework will be delivered, as this is not clear from the consultation document. In particular, how it will be ensured that lice levels will remain below the threshold. Currently changes in guide on how fisse of a particular, how it will be ensured that lice levels will remaine below the threshold. Currently changes in to the ingeneration of how SEPA intend to implement an adaptive management to all the farms impacting the area, including existing farms, nor the timescale of any management of existing farms, nor the timescale of any management of existing farms, any the situated in a troo is not being considered within the framework along giale that of salmon. The marine phase of sea trout is designated as a Priority Marine Feature and therefore of conserv. While some fish farms may be situated in areas without salmon populations these will be rar, and therefore any protective measured issued by SEPA will indoubtedly have an impact on sea trout management response. While some fish farms may be situated in areas without salmon populations these will be rar, and therefore any protective measured issued by SEPA will undoubtedly have an impact on sea trout management follow of the science of the sci
	of planning applications already within the planning system, and it is therefore disappointing that it is SEPA's intention to take a further 12 months to implement these proposals. We urge SEPA to move this proc assessment framework is in place, we would expect SEPA to be clear that these licenses will be amended to reflect the new regime as soon as the fra In conclusion, we believe that the principles set out in this consultation, if delivered appropriately, have the potential to significantly improve the regulation of wild-farmed interactions. However, in order for this to be

out in the consultation fails to deliver on this statement.

commendation;

ice loads or lice-induced mortality of wild salmonids attributable to the

in lice levels within farms can be seen to increase with time, sometimes establishment of a threshold lice level is welcomed but further detail is

servation importance. In addition, by excluding sea trout, the framework is ities, we do not find this acceptable or see how this will work in practice. ent and therefore the actions proposed by the local authority.

ndoubtedly better than none until the development of a sea trout specific p the models but would reinforce the fact that there is a body of evidence f Good Practice levels. We would also suggest that the collection of the

secondary infections that may arise from the physical damage caused by pulation within our coastal waters.

they are "dependent on salmonids" (4.3). There are some SAC and SSSI II not fulfil the protection needs of these areas. Again, the removal of the

the local authorities have no role in the management of wild-farmed tial and are not consistent across areas. Further, the local authorities do conditions within the CAR licence would be a more suitable tool for the

ion or control measures" to combat sea lice infestation in the absence of ire unlikely to wish to see sea lice numbers escalate, previous experience e of the environment ensures that escalation can result despite the best that allows them to meet this outcome, and for SEPA to regulate on this

rotection from sea lice infestation for wild salmonids. There are a number vard with urgency. Should SEPA issue any CAR licences before the risk is finalised.

ase, they need to be delivered at pace, cover existing farms and provide ansparent, enforceable and enforced.

Respondent Number	28	29	30
What is your name? - Name			
What is your email address? - Email			
What is your organisation? (if applicable) - Organisation		Shetland Islands Council	Fidra
Do you think that there are important areas for wild salmon post-smolt migration that we have not identified as wild salmon protection zones? - Q4 radio buttons	No	Not Answered	No
If yes, please identify these areas, explaining why they should be protection zones and the evidence to support this Q5 text box for information			
Do you think that any of areas we are proposing as wild salmon protection zones should not be so identified? - Q6 radio buttons	Not sure	Not Answered	No
If yes, please identify these areas, explaining why they are not important for wild salmon post- smolt migration and the evidence to support this Q7 text box for information			
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 text box information			No

Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	Not Answered	Not Answered	Not Answered
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	Industry, relevant regulatory bodies, wild fisheries		Scottish Environment Link, Salmon Scotland, Institute of Aquaculture (University of Stirling), Fisheries Management Scotland, Marine Scotland Science
Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	No	Not Answered	No
If yes, please tell us about your area of expertise: - Q11 text box for information			
If you would like to be involved, are you happy for us to contact you by the email address you have provided? - Q12 radio buttons	Not Answered	Not Answered	Not Answered
Do you have any suggestions for how SEPA could most efficiently and effectively assess compliance? - Q13 text box for information		Not Answered	No

Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 radio buttons	Not Answered	Not Answered	No
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information		Not Answered	
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Not Answered	Not Answered	No
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information		Not Answered	
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Not Answered	Not Answered	Not Answered
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Not Answered	Not Answered	No

Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 text box for information		Not Answered	
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18a radio buttons	Yes in a negative way	Not Answered	Y
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18b text box	Potential for restriction on existing and future development of aquaculture operations. Increase the burden of consenting and reporting, which is already a cumbersome process.		Fidra welcome proposed fram environmental imp are designed to m salmon protect unsuitable for si framework should environment from turn is one of the
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19a radio buttons	Yes	Not Answered	
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19b text box for information	Imperative that it is developed on proven scientific findings and trialled. Streamlining of consenting and reporting process by all regulatory bodies to ensure necessary monitoring and regulation is effective and efficient.		Adaptive man framework to enal kr

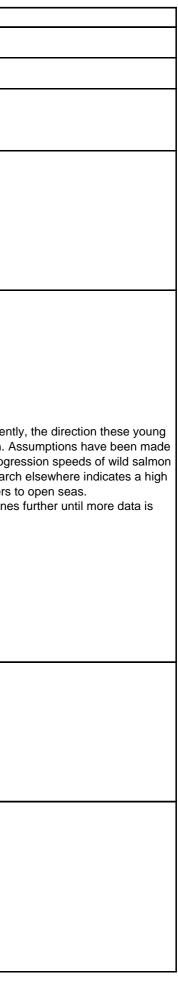
Yes in a positive way mes any developments such as the amework which take account of the impact of open cage salmon farms and o minimize that impact. By offering wild tection zones and highlighting areas siting open cage salmon farms, the Id therefore minimize the impact on the om the salmon farming industry. This in he aims of Fidra's Best Fishes project. Yes anagement should be built into the nable adaption as science evolves and

knowledge increases.

Do you have any			
suggestions how			
potential positive			
effects delivered or			
enhanced without			
compromising the	Not Answered	Not Answered	
environmental			
protection purpose			
of the proposed			
framework? - Q20a			
radio buttons			
Do you have any			
suggestions how	Highlight the many positive		
potential positive	contributions and continued efforts		
effects delivered or	by aquaculture industry already		
enhanced without	made to the wild fish monitoring		Adaptive mana
compromising the	and protection of wild fish. Ensure		framework to enab
environmental	that all sources of potential		kn
protection purpose	compromise to environment are		
of the proposed	explored, monitored by such		
framework? - Q20b	frameworks.		
text box			
Do you have any additional feedback on the proposed framework? - Q21 text box for information		 Shetland Islands Council welcomes the development of this framework and sees this as a positive step forward in managing the interaction between sea lice from marine finlish farm development and wild Atlantic salmon in Scotland. Having such a framework in place will provide greater clarity for planning authorities and certainty for developers on the information required to support planning applications and future SEPA regulation. For some time now, there has been uncertainty around the required EMP information required for fish farm applications, how they will operate and be monitored/enforced. It is therefore welcoming to note that SEPA will become the lead body for managing and regulating this process. With regards to Shetland, we have previously raised with SEPA, Marine Scotland and industry that any EMP/sea lice information requirements should be proportionate to our situation (e.g. Shetland has much lower numbers of wild salmon than other parts of Scotland, such as the west coast where protection zones are identified as a result). We are therefore pleased to see that a proportionate approach will be taken, and this is referred to in the consultation. However, taking a proportionate approach does not mean that we should disregard the issue in Shetland. We believe that there remains a lack of monitoring and information on wild salmon presence in our coastal areas and voes. We therefore support the adaptive approach that will be taken and believe that there is an opportunity to work with you and fish farm operators in Shetland to develop a set of guidelines/requirements to support planning applications/SEPA regulation. It is also important that ways to gather and improve our data on wild salmon in Shetland is esto out and agreed at some point in the near future. Additionally, we note that protection zones are not proposed for sea trout at this time, and that improved science on interactions and knowledge needs to be developed. We agree that further data is	Implementation of t done in a short tim sites as possible a prevent the pote expanded farm framework as bein therefore be a case for new or expand

Yes anagement should be built into the nable adaption as science evolves and knowledge increases. of the proposed framework needs to be timescale to ensure as many new farm ble are considered under it. This would potential situation of a newly sited or irm then being considered under the being inappropriately sited. There may ase to suggest no licences are granted anding farms until the framework is in place.

Respondent Number	31	32
What is your name? - Name		
What is your email		
address? - Email		
What is your organisation? (if applicable) - Organisation	N/A	Ayrshire Rivers Trust
Do you think that		
there are important areas for wild salmon post-smolt migration that we have not identified as wild salmon protection zones?	Yes	Yes
- Q4 radio buttons		
If yes, please identify these areas, explaining why they should be protection zones and the evidence to support this Q5 text box for information	Smolts don't just hang around these areas. They MIGRATE! The entire west coast should be a protection zone. It is clear that smolts, adult returning salmon, and sea trout are under threat from salmon farms, wherever they are sited on the west coast. https://watermark.silverchair.com/fsz160.pdf?token=AQECAHi208BE49Ooan9kkhW_Ercy7Dm3ZL_9Cf3q fKAc485ysgAAAsgwggLEBgkqhkiG9w0BBwagggK1MIICsQIBADCCAqoGCSqGSIb3DQEHATAeBglghkg BZQMEAS4wEQQMKzo2c_LF43vd9vAgEQgIICe7v9eOwkMjKVus6H8Aqkp7ybe_z1v- NeieMFUhMbpSdJfwTIWjQiTezagArPt-leug2U-kJLSCZE_4bSaTSmaL_fo- 4B1jNYNokCo2eiNyWb33tdj2KTHKcJipzIGvZNDRizw0FfwPovIqUKs_CVH0Twp7IFubFaNgIX6wliyR- GCaAOsptxojrl- AytqFcR547j8KdRfgUsJVF70IB7ER1omiV3Pwvyh2MNFAeEPRehV3VhGpovcHpxO8gJjDgf4wg13BUmfH rGZGKUf9a-LfRm5zgnGaau78WFD69oFHOowQn89XBfdps778KyTvk5QxTPQvUrV-hb6W_5V- 4RO795vkhEE4_v- nQa0RfJJw3CFYY05zBpjVMCfBDs8tz5WCefIzIo43kPI9n2KEP9zHqeThuIJPy7rj5_NXX9kRbRv0jNFTb_ Goc6XjxfQZI_xL15maBA_g40r_vEYk8u8eZG8vD9WtTC9vDeB_vSKEgADYhJNGD2SZ4syPrDrcMZLkD WhttxIPIT8CRp22tVsB10mtyfRXz6Gvgi37Ex7X- uq00IRaMr7Z3KIBUjlh3_515KpvqBaS32RemBULFdNbIVqrq5v_2DWBm600kgVEDu2WWv54gfOuD5b dCbxdEwxvXJNhvZOcd5qeEqD5vcMRTw_jPMUBGIS1ZaGNgWp125bSWuhsGF8AXOM9SYphonkcGW xk6YQtr4XIZBJ8Ckh_A8qlbyLhVz2VPRxYDMoP- h5PZkmRXtGXGorhgrYdVewgp0SSk_90ifZadTfzveAW_846sMBgCUxOKsjdAdwo- NUpAMxDtccyRiJMM96eyGXJybn38j-FpI4	Smolts emigrating from Ayrshire rivers have never been subject to research. Conseque salmon take and the rate at which they leave the proposed protected zones is unknown. that all smolts leave and will swim at the same rate as they head for open seas. The prog post-smolts through the zones can not safely be assumed at the rates indicated. Resear degree of variability in the rate at which smolts progress in coastal waters Consequently, adopting the precautionary principle and extending the protection zon available would be sensible.
Do you think that any of areas we are proposing as wild salmon protection zones should not be so identified? - Q6 radio buttons	No	No
If yes, please identify these areas, explaining why they are not important for wild salmon post- smolt migration and the evidence to support this Q7 text box for information	As an addendum to my "No" answer, these areas are only significant for the first few days of smolt migration. Thereafter, smolts will come into contact with salmon feedlot effluent, lice, chemicals, disease, pathogens, viruses etc.	



Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 text box information	https://besjournals.onlinelibrary.wiley.com/doi/full/10.1111/1365-2664.14085	Not all rivers in Ayrshire have been subjected to smolt migration/emigration research. Therefore, we are only able to provide limited data. However, under the precautionary principle, we assume what happens in one local river may happen in all. In 2021, ART captured salmon smolts as late as 16th June in the middle reaches of the River Ayr some 32km upstream of the estuary. Low water may have delayed emigration during 2021 however, with climate change increasingly leading to dry springs on the west coast, there must be consideration that the proposed sea lice threshold period covering April and May is inadequate. The aquaculture industry's own 'Code of Good Practice' defines the sensitive period for wild salmon as the 1st February to 30th June inclusive. ART believe this is also inadequate as we have proven smolts continue to emigrate from the Ayrshire coastline throughout June. It is unclear why SEPA didn't propose the industry's own accepted sensitive period as a minimum lice threshold. By extending the sensitive period to year round, this would allow SEPA to set appropriate lice exposure levels/lice thresholds and better enable the industry to achieve compliance year-round. It would also allow post smolts from the southern west coast rivers to migrate beyond northern protection zones safely. As migration routes from the Ayrshire coastline are unknown, we can only assume that the potential is there for Ayrshire smolts to migrate northwards through several/many west coast areas where they could be subjected to close contact with aquaculture facilities and at risk of increased and cumulative lice loads. Therefore, there seems little point in setting threshold sthat apply only at peak smolt emigration times when control measures to keep lice levels below the threshold levels may be required in the period running up to and beyond the peak period of smolts emigration and when post smolts continue to migrate northwards to open seas. Extending to a year round threshold would also benefit sea trout until a stra
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	Not Answered	Not Answered
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	Scamon Scotland https://scottishscamon.co.uk SARNS University of Stirling Marine Conservation Society Salmon & Trout Conservation Inside Scottish Salmon Feedlots issf.org	ART believes Fishery Management Scotland and representatives from the Fishery Trust's network of biologists would be suitable to be included on the technical advisory groups.

Do you have relevan expertise or experience that you would be happy to share with us durin implementation planning to help us develop modelling protocols? - 10 radi buttons	Possibly	Yes
If yes, please tell us about your area of expertise: - Q11 tex box for information	N/A.	We have no lice modelling expertise but Ayrshire Rivers Trust has expertise monitoring wild experience of netting fish. With our local knowledge of the Ayrshire Coastline, we may be able data and monitoring lice on wild salmonids as part of the overall monitoring re-
If you would like to be involved, are you happy for us to contact you by the email address you have provided? - Q1 radio buttons	Yes	Yes
Do you have any suggestions for how SEPA could most efficiently and effectively assess compliance? - Q13 text box for information	Unnanounced visits. Develop a resistance to lobbying. Carry out "Environment Protection" and pursue a moratorium rather than expansion.	It is unclear from the consultation how SEPA intends to deliver this proposed framework at Reliance on the aquaculture industry to self regulate would be entirely inappropriate. SEPA in to regulate effectively and take enforcement action at every failure. This should include ur inspections by trained SEPA staff. Non-compliance is unacceptable and enforcement action consistent and transparent manner without exceptions by SEPA. This is in line with our ex- regulatory responsibilities across their range of operation. It is essential that SEPA also consider the life stage of lice used to establish lice thresholds a on wild salmonids. Restricting counts to gravid female lice is inappropriate. All female adul determine the thresholds. This also reduces the opportunities for counting errors by farm st females but instead count them as female.
Do you have any suggestions on how we should develop monitoring plan to assess the effectiveness of the framework and wha it should include? Q14 radio buttons	Yes	Yes
Do you have any suggestions on how we should develop monitoring plan to assess the effectiveness of the framework and wha it should include? Q14 text box for information	Why do you allow these companies to pollute? A licence to kill. For monitoring compliance, speak to any local authority Environmental Health section on how they monitor compliance at food premises. They will have a database of businesses they have to inspect - all of the visits are unannounced.	SEPA should consider using local expertise independent of the aquaculture sector to assist collection. Establishing base line data may still be possible within the Firth of Clyde prior to the plan aquaculture industry within this area. This is an opportunity that has long been ignored by the monitoring further north on the west coast.

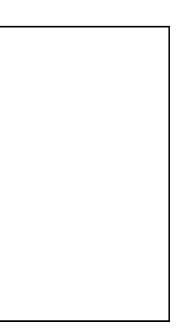
ing wild salmonids and extensive be able to contribute to gathering oring requirement.
ework and assess compliance. SEPA must ensure they are able clude unannounced visits and nent action must be taken in a th our expectations of SEPA's on.
sholds and their potential impacts ale adult lice should be used to a farm staff that may miss gravid
o assist with monitoring and data the planned expansion of the ed by those coordinating sea lice

Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Yes	Yes
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information	Publicly denounce the farms that are failing to comply on social media. Make it public that their animals are suffering and that they are acting as vectors for lice infestation in wild fish. The salmon farming industry is a bully, disseminating disinformation and greenwashing a polluting industry as a benign "friend of the sea". The national Regulator must act in the public's interest.	The Ayrshire coastline has to date, never been included in any sea lice monitoring on sea despite aquaculture facilities operating in relatively close proximity. With the planned expa Firth of Clyde and North Ayrshire, this situation should be addressed and the entire Ayrsh any wider monitoring strategies. While monitoring sea trout will not provide the same results as monitoring salmon within the be possible to gather valuable data on lice levels occurring on wild salmonids. These dat changes occurring and understand direct relationships between sea lice levels recorded of and those occurring on wild salmonids within the Firth of Clyde The framework should be extended to include sea trout as soon as po Ayrshire Rivers Trust have experience of netting procedures and knowledge of the coastli may be possible. This is something we may be able to assist with and are k
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Yes	Yes
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Yes	Yes
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 text box for information	Adapt the protection zones to cover the full migratory routes of salmon and sea trout.	A consistent approach to modelling sea lice dispersal should be adopted. This would requadult female lice rather than just gravid female lice are used to inform the The industry and other stakeholders may already have well developed modelling approach within the framework to allow faster implementation and protection of wild The inclusion of sea trout within the framework as soon as possible Consideration of the impacts of climatic conditions affecting different regions in real time. The setting lice thresholds seems appropriate as does extending the period of protection of the threshold period year-round.
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18a radio buttons	Yes in a negative way	I'm not sure

ea trout that we are aware of
pansion of aquaculture in the shire coastline included within
the marine environment, it may ata could be used to assess d on nearby aquaculture sites de. possible. tline where netting operations
keen to do so.
quire agreements on whether ne modelling. Inches that could be integrated Id salmonids.
sible.
Taking this into account when ffered by increasing the lice

Do you think the design of the proposed framework, or how it is implemented, could affect your community or pusiness interests? - Q18b text box	The proposed protection zones are not nearly large enough. Wild salmon will continue to be pressured by salmon farming. ALL communites on the west coast will suffer from this contunual loss of species. While alternative employment ideas are not being researched, the pressure on wild fish continues.	Whether the framework has positive or negative effects on business and community interest SEPA, when applying the framework, are at delivering effective regulation and the protection aquaculture industry is regulated under the new framework, there is an expectation that wild this should help with conserving a species that is widely acknowledged to be in crisis. Howe it is able to regulate consistently and in a transparent manner if public confidence in this achieved. Protecting wild salmonids from lice associated impacts will benefit the angling sector and ru come.
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19a radio buttons	Yes	No
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19b text box for information		
Do you have any suggestions how potential positive effects delivered or enhanced without compromising the environmental protection purpose of the proposed framework? - Q20a radio buttons	Not sure	No
Do you have any suggestions how potential positive effects delivered or enhanced without compromising the environmental protection purpose of the proposed framework? - Q20b text box	Question 20 does not make sense. However, assuming it is a "positive" version of Q19, I have many doubts over the proposed framework's ability to protect wild salmonids. It is a token gesture towards protection - a gesture and not a solution. You know fine well that salmonid finfish feedlots have to be removed to offer any meaningful solution to the extinction event now in progress on the west coast.	

nterests will depend on how able tection of wild salmon. Once the at wild salmon are protected and However, SEPA must ensure that in this new approach is to be			
and rural economies for years to			



D	~	
Respondent Number	33	34
What is your name? - Name		
What is your email address? - Email		
What is your		
organisation? (if		
applicable) -	Scottish Wildlife Trust	Aquascot
Organisation		
Do you think that		
there are important		
areas for wild		
salmon post-smolt		
migration that we	No	Yes
have not identified as wild salmon		
protection zones?		
- Q4 radio buttons		
If yes, please identify these areas,		
explaining why they		Examples of East coast rivers should be included as sentinel sites. Reduction in salmon abundance in these rivers is clear
should be protection		also. The argument central to this proposed regulatory framework is that lice is not a selection pressure impacting survivability
zones and the	n/a	on the east coast. If that is the case then demonstrating parity (or difference) to lice burdens is a key calibrator for west coast
evidence to support		management, equally demonstrating difference in wild salmon survival against the two areas will be key to validating the approach proposed
this Q5 text box for		approach proposed
information		
Do you think that any		
of areas we are		
proposing as wild		
salmon protection		
zones should not be	No	Not sure
so identified?		
- Q6 radio buttons		
If yes, please identify		
these areas,		
explaining why they		
are not important for wild salmon post-		
smolt migration and	n/a	
the evidence to		
support this Q7		
text box for		
information		
Do you have any		
scientific evidence		
that should be considered to ensure		
the sea lice exposure		
threshold is effective		
in protecting wild	No	No further comment
salmon populations?		
This includes any		
evidence for a		
refinement of the		
threshold - Q8 text		
box information		

Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	Not Answered	Not Answere
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	Scottish Environment LINK Fisheries Management Scotland Salmon Scotland Crown Estate Scotland Local Authorities Marine Scotland Science Marine Scotland Licensing Operations Team NatureScot SAIC Coastal Community Groups	A balanced selection of stakeholders inclusive of representation from would be vital that there is independent scientific advisors from wit meaningful cont
Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	No	No
If yes, please tell us about your area of expertise: - Q11 text box for information	n/a	
If you would like to be involved, are you happy for us to contact you by the email address you have provided? - Q12 radio buttons	No	No

ered

om the production sector as well as wild fisheries but also it within the UK as well as Norway (to provide objective and ontext).

Do you have any suggestions for how SEPA could most efficiently and effectively assess compliance? - Q13 text box for information	The Scottish Wildlife Trust considers the proposed framework could prevent additional risk to wild salmon caused by sea lice from new salmon farm developments, and also lead to improved sea lice management of existing farms during the smolt run. However, compliance by the salmon farming industry will be essential for reducing the risk sea lice from salmon farms pose to wild fish, and to also ensure the framework is given the best chance of being successful. The Trust consider it essential that sea lice monitoring and reporting is either fully or partly carried out by an independent party. This should be carried out prior to and during the smolt run. Likewise, the Trust also considers it vital that any farm management measures agreed to be implemented during the smolt run are assessed and monitored by regulators. Firstly, to ensure they are being implemented as agreed and, secondly, to assess whether they are having the desired impact. The Trust recognises that additional monitoring to ensure compliance will require additional resources (i.e. funding, time, and qualified staff) and that the cost should, at least in part, be covered by the salmon farming industry. It is important to recognise that reliable and accurate data collection and monitoring benefits both the regulators and the industry, as it will determine whether measures implemented by the industry are successfully reducing sea lice levels and the associated risk to wild fish.	The requested farm data is readily available through the current re suggested that lice abundance checks independent of farm data wo approach. Equally benchmarking comparable information for "non a compliance with the intended s
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 radio buttons	Yes	Yes
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information	One of the key components for demonstrating the effectiveness of the framework, with regards to reducing the impact of sea lice on wild Atlantic salmon, is a well-resourced monitoring programme. One of the key objectives of the framework is to reduce the risk to wild fish from farm-borne sea lice, specifically during the smolt run. An important outcome of this would be an increase in the number of salmon returning to rivers and, subsequently, healthier populations. It is, therefore, essential to have a good understanding of current population health, and also the capacity to monitor changes in the number of salmon leaving and returning to rivers over time. It is important to recognise that there are a number of other factors that impact wild salmon populations, such as natural predation in rivers and at sea, river pollution, unnatural barriers (e.g. hydroelectricity), and climate change. All of these pressures need to be addressed, but it is important to be able to determine the impact of the sea lice framework. Therefore, monitoring across multiple river systems (and catchment areas) in Scotland, which contain different pressures on wild salmon, must be included in the monitoring plan to enable the impact of the sea lice framework to be identified. The Trust considers it important to identify a realistic timeframe for determining whether the sea lice framework is being effective, and the number of wild salmon returning to rivers is increasing. It is likely that different rivers will experience different levels of success and, therefore, it is important that the monitoring and action plan is developed and agreed to by all stakeholders, to ensure buy-in and compliance. The Trust believes it is important that, if the approval of a new farm development is dependent on other farms in the same wild salmon protection zone reducing their sea lice levels, a trial period covering multiple farm cycles is carried out first to demonstrate the new measures work. If the new measures do not reliably reduce sea lice levels, th	See feedback provided previously but to reiterate if such a framework and balances. The framework r •Providing validation of free living (infective) lice abundance within t capture: To calibrate modelling approad •A similar approach as above needs to be applied in non-aquaculture need for regulatory fr •An appropriate wild salmon stock mortality surveillance scheme to be the Aquaculture zones which is capable of empirically and unquestic salmon survivability. The impact of lice abundance on wild salmon st feedback on, and ultimately justify th
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Not sure	No

reporting on Scotland's Aquaculture website. It would be would be an important validation of compliance/modelling on aquaculture regions" would be essential to demonstrate ed scientific outcome.

ork were to be implemented it requires the necessary check rk must be capable of:

n the proposed protection zones independent of farm data bach and regulatory decisions.

ure zones to validate differences in lice abundance and thus y framework

be applied in "sentinel" catchments both within and out with stionably determining and tracking causative factors to wild a stocks within the protection zones must be accountable to by the proposed regulation.

Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information		
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Yes	No
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Yes	Yes
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 text box for information	 Inclusion of other management measures that aim to address the other pressures wild Atlantic salmon face beyond salmon farming (Wild Salmon Conservation Strategy). This will be important for identifying the effectiveness of the sea lice framework. Spatial management plans for environmental conservation and other sector plans for marine industries. The sea lice framework may direct salmon farming into certain areas, but environmental conservation measures, in particular the proposed Highly Protected Marine Areas, may prevent development. 	There is a need to develop, validate and utilise monitoring techn abundance of free-living sea lice stages. Such techniques thereaft independently of farms, across the protection zones as well as cro aquaculture zones (E.g. east coast locations). The ultimate intentio abundance in the west coast of Scotland through the management of based on the premise that lice abundance differs between such loca accountable and capable of demonstrating (independent of farm aquaculture and non-aquaculture zones Evidence from scientific studies for prioritising the diverse array (1 abundance across Scotland. To thereafter generate appropriate "sentinel" catchments both within and out with the Aquaculture zone and in subsequent years wild salmon abundance continued to declir causative factors (which could well be independent of lice abundance one proposed causative factor without the means to account for al lacks accountability and
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18a radio buttons	No	Yes in a negativ

chniques independent of farm surveillance to determine eafter should be utilised to both monitor sea lice abundance cross validation, i.e. sentinel monitoring sites, out with the ation of this regulatory framework is to enhance wild salmon nt of sea lice abundance in the wild salmon protection zones ocations. Such a regulatory framework therefore needs to be arm data capture) differences in lice abundance between es to validate its central premise.

r (12 groups) of drivers impacting wild salmonid population ate stock mortality surveillance schemes to be applied in ones. If the proposed regulatory framework was established cline, it will be necessary to provide clear evidence as to the ance) of this decline (and vice versa). To attempt to regulate r all other potential drivers influence means this framework and thus validity.

tive way

Do you think the design of the proposed framewor or how it is implemented, coul- affect your community or business interests? Q18b text box		Positives: As a seafood business supplying the retail sector with a pa farmed fish we source, if implemented effectively this proposal has f chain e.g.: 1) Further reduction of perceived negative 2) Evidence of progress and transparent regulation adopting modern sector. 3) Increased abundance o Negatives: It is essential that this regulatory framework has demonstr of wild salmonids. Currently it is not evident within the proposal how impact on production practices ranging from farm development to farr on rural communities (i.e. impacting developments in the future). It n process will become a focal point for activists that will have broader in accountability is essential to success. To reiterate, if this framework continued to decline in the regulated zones how can SEPA confirm th justify continuing with the regulation. It has the potential to bec With respect to the implementation of such a framework, it is being pr the recommendations of the Griggs Independent review of the current should be a cohesive approach to developing and implementing a ne implement the current framework independently brings confusion and not cast the sector in a good light in the
Do you have suggestions how an potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19a radio buttons	No	Yes
Do you have suggestions how an potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q198 text box for information		As outlined previously it would be essential that any such approach h all drivers of wild salmon survivability to be capable of vali Furthermore the validity in the modelling approach would be central to in appropriate resolution, incorrect assumptions, lack in calibrating da be brought into question. Model validity needs to be c The ultimate positive outcome is a demonstrable increase in wild sa regulation put in place. It is not clear h With respect to the regulatory landscape, this process which evidently brought into the wider sector regulatory review to ensure there is a component parts work in
Do you have any suggestions how potential positive effects delivered o enhanced without compromising the environmental protection purpose of the proposed framework? - Q20a radio buttons	No	Not sure

a particular emphasis on the ethics and sustainability of the as further positive impacts on the credentials of our supply g.:

ive impacts of salmon farming.

lern scientific approaches improving the credentials of the

of Wild salmon

Istrable impact on its intended outcome. I.e. the abundance how this accountability will be realised. The proposals will farming practices. It may have inadvertent negative impacts It may also impact on the sectors scale of production. This is impacts on the sector i.e. consumer behaviour. Therefore, work was implemented and wild salmon stock abundance in that the lice abundance is the major causative factor and become a real focal point of contention for the sector.

proposed at a challenging time with the sector reflecting on rrent regulatory framework for Scottish Aquaculture. There new state of the art regulatory framework for the sector. To and potential for subsequent regulatory conflicts which does in the eyes of the consumers.

n has the means to account for and differentiate empirically validating the impact of the proposed regulation.

to this regulatory framework. If the model is flawed (lacking data) then the model based regulatory approach can easily e challenged openly before implementation.

I salmonid abundance that can be definitively linked to the ar how this will be achieved.

ntly needs further development and consultation, should be s a broad and effective framework put in place where all in synchrony.

Do you have any suggestions how potential positive effects delivered of enhanced withou compromising the environmental protection purpos of the proposed framework? - Q20 text box		
Do you have any additional feedbac on the proposed framework? - Q21 text box fo information	 The Trust considers that the process for developing the sea lice framework has been inclusive and provided multiple opportunities, for all stakeholders, to contribute towards its development. We consider the information used to develop the model to be the most up-to-date information available, and the adaptive approach built into the framework will allow for any additional data to inform and optimise the framework, whether the data comes from the scientific literature or on-site monitoring. The Trust considers it important that any adaptation to the sea lice framework (or model) is evidence based, and that a well-planned and resourced monitoring plan is essential. The Trust recognises that the proposed sea lice framework focuses on reducing the impact on wild Atlantic salmon, but considers it important that further work is carried out to assess the impact sea lice have on sea trout populations. Further research is required to determine the current health of sea trout populations in Scotland, including a better understanding of their behaviour, home range, and site fidelity, and also the risk sea lice pose. Given the long-term decline of sea trout (Scotland's Marine Assessment 2020) and the important role they play in the life cycle of freshwater pearl mussels (protected under the Wildlife and Countryside Act 1981 (as amended) and the Nature Conservation Act 2004)), the Trust would like to see a commitment to assess the risk sea lice pose to sea trout and the development of a plan/framework to manage that risk. We consider an important step to protecting sea trout from sea lice would be to assess whether sea trout can be integrated into the proposed sea lice framework for Atlantic salmon, or if a separate framework is required that reflects their different behaviour and life cycle. If a separate framework is required, we consider the steps to develop the framework should be actioned in a timely manner. The Scottish Wildlife Trust welcomes this cons	A balance needs to be struck between protecting wild salmonids w Aquaculture industry. Reform of regulation needs to be proportionate balances in this process to demonstrate that impacts on the industry stocks?

s while also ensuring the sustainable development of the ate to the demonstrable impact. i.e. where are the check and stry are to the positive outcome of protection of wild salmon

Respondent Number	35
What is your name? -	
Name	
What is your email address? - Email	
What is your	
organisation? (if	
applicable) -	Crown Estate Scotland
Organisation	
Do you think that	
there are important	
areas for wild	
salmon post-smolt migration that we	Not Answered
have not identified as	
wild salmon	
protection zones?	
- Q4 radio buttons	
If yes, please identify	
these areas,	
explaining why they	
should be protection	
zones and the	
evidence to support this Q5 text box for	
information	
Do you think that any	
of areas we are	
proposing as wild	
salmon protection zones should not be	Not Answered
so identified?	
- Q6 radio buttons	
If yes, please identify	
these areas,	
explaining why they	
are not important for wild salmon post-	
smolt migration and	
the evidence to	
support this Q7	
text box for	
information	
Do you have any	
scientific evidence that should be	
considered to ensure	
the sea lice exposure	
threshold is effective	The area-based approach to managing risks posed by fish farms to wild salmon populations should over time facilitate localised determination of sea lice exposure thresholds
in protecting wild	appropriate to the local farm presence and wild fish population dynamics. Measures to collect locally relevant scientific data to enable this should be included and used to
salmon populations?	implement necessary refinements.
This includes any	
evidence for a refinement of the	
threshold - Q8 text	
box information	

Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	Not Answered
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	Crown Estate Scotland would like to be a member of the technical advisory group. Decisions made around this framework may influence how seabed leases for finfish developments are granted and there may be opportunities for Crown Estate Scotland to complement the work being done through this spatial tool. Generally, Crown Estate Scotland is keen to understand and contribute to the implementation of the proposed framework. It is assumed that this framework will be kept under periodic review and we are keen to be involved with any review process.
Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	Yes
If yes, please tell us about your area of expertise: - Q11 text box for information	Crown Estate Scotland has worked with Fisheries Management Scotland to develop a monitoring protocol for the assessment of sea lice levels on wild fish using fyke nets. This offers a more flexible monitoring method for assessing infestation on wild fish, often using sea trout as a proxy for wild salmon, noting that sea trout are a receptor in their own right that should also be monitored and that fyke nets can also be used to do this. Fyke nets are easy to install, cost effective and can be used in a variety of locations. Rights to install them can be added to existing Crown Estate Scotland leases as ancillary equipment, free of charge.
If you would like to be involved, are you happy for us to contact you by the email address you have provided? - Q12 radio buttons	Yes
Do you have any suggestions for how SEPA could most efficiently and effectively assess compliance? - Q13 text box for information	The most effective way of assessing compliance is likely to be auditable reporting of the number of sea lice on both farmed fish and wild fish at selected monitoring locations, using an agreed protocol, during the high-risk period (April-May). Other methods such as surveillance monitoring points downstream of farms to monitor sea lice on wild fish may also serve as an efficient way of assessing compliance, if deemed appropriate. The industry should be encouraged, if not required, to undertake monitoring of lice levels on wild fish at identified locations within protection zones/management areas. SEPA will need to consider whether there is a need for additional infrastructure or to rely on industry monitoring. We would suggest that independent verification of monitoring should be considered.

Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 radio buttons	Yes
Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information	The monitoring of sea lice on wild fish is a complex issue but necessary as real data is needed to help validate any assumptions and to understand what is happening in the environment. The monitoring plan should therefore include monitoring of sea lice on wild fish to properly understand the interaction between farmed and wild stock in relation to sea lice. Consideration should be given to the need for strategic monitoring of sea lice on wild fish upstream, downstream, and next to farm sites. This monitoring could be used to help validate sea lice dispersal models as well as develop evidence of the nature and prevalence of impacts of sea lice on wild fish. This should be undertaken on an area-based platform, as referred to. Identification of discrete areas or zones where farms can be identified as having a clear effect on lice levels seen on locally sampled wild fish will be integral to enabling mitigation where this is required. Effective review and transparent reporting are necessary to instil confidence in the science and ensure compliance with the measures introduced. We would recommend consideration of 'built in' mitigation measures to be adopted in the event of any inability to meet prescribed thresholds that can serve to test the validity and continued use of these thresholds.
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Not Answered
Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information	
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Yes
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Yes

Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 text box for information	If not already done, investigate and review the use of established monitoring points and data from the various fisheries boards and trusts as a long-term data set that would give an indication of baseline monitoring results for the numbers of sea lice on wild fish. Establish a monitoring network to gather field data for assessing the risk to wild fish from sea lice. Correlate data from farm fish sea lice levels with wild fish sea lice levels to understand effects. The map given in the consultation document shows the shortest path to sea but it is unclear whether this is the actual route the wild fish take? Data collected from the smolt tracking project - https://atlanticsalmontrust.org/our-work/the-west-coast-tracking-project/ - on wild salmon migratory routes should be used to verify this map.
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18a radio buttons	Not Answered
Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18b text box	The effects could be both positive and negative. The framework is a major step in offering protection to wild fish populations from farmed fish and associated sea lice. Depending on how the industry manage change, there may be a need to support the industry to relocate sites or investigate further site swops. There is potential to impact revenues that are received from finfish production that are fed back to local authorities via the Scottish Government Consolidation fund. For example, reducing biomass (fish) on site is a an option for managing risks from sealice. However harvesting sites at less than optimum yield could mean reduced rents to the public purse. It's not clear at the moment what the risk framework is going to mean and what strategy the industry is going to adopt to deal with the changes being introduced.
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19a radio buttons	Yes
Do you have suggestions how any potential negative effects could be	The new data that is available both through this framework and from sea lice dispersal models should be used to reassess current farm management area maps as shown in the Code of Good Practice Code of Good Practice Salmon Scotland. The purpose of these farm management areas is to manage the cumulative impacts from the finfish industry at an appropriate area scale, rather than on a site-by-site basis. These areas were delineated in 2015 and should be reassessed given new data available to ensure they are fit for purpose. Synchronised fallowing and coordinated medicine use across an area allows for the sea lice population to be managed and not cause sea lice displacement to another site(s). Once a site is treated for sea lice, there is a risk that sea lice will travel to another site, unless a coordinated approach is taken. A coordinated approach across a relevant scale management area will lead to a reduction in the need to treat for sea lice and in turn reduce discharges of medicine or bath treatment residues to the environment. Managing areas and not individual sites for disease and sea lice risk is a logical and efficient way of reducing negative impacts to the environment, whilst maximising productivity. Managing areas in this way is key to the industry becoming truly sustainable. Establishing area management zones where finfish farms are present in Scotland and facilitating management agreements will compliment efforts to reduce cumulative impacts from farms on other activities such as shellfish sites (impacts from medicine use). Farmed fish will still need to be treated for sea lice infestation regardless of whether they sit within a salmon protection zone, for fish welfare reasons. The management of areas for finfish production in this way will offer opportunity to go over and above addressing the high-risk areas identified for wild fish and will encourage optimal use of resources and minimise discharges across cotland's marine environment where finfish developments are present. Without clarity on which

Do you have any	
suggestions how	
potential positive	
effects delivered or	
enhanced without	
	Not Answered
compromising the	Not Answered
environmental	
protection purpose	
of the proposed	
framework? - Q20a	
radio buttons	
Do you have any	
suggestions how	
potential positive	
effects delivered or	
enhanced without	
compromising the	
environmental	
protection purpose	
of the proposed	
framework? - Q20b	
text box	
Do you have any	
additional feedback	
on the proposed	
framework?	
- Q21 text box for	
information	

Respondent Number	36
What is your name? -	Lash Duart Ltd
Name	Loch Duart Ltd
What is your email	
address? - Email	
What is your	
organisation? (if	Lash Duart Ltd. colorer producer (marine & freehunter forms and processing)
applicable) -	Loch Duart Ltd - salmon producer (marine & freshwater farms and processing)
Organisation	
Do you think that	
there are important	
areas for wild	
salmon post-smolt	
migration that we	Yes
have not identified as	
wild salmon	
protection zones?	
- Q4 radio buttons	
If yes, please identify these areas,	Not enough is known about wild salmon post-smolt migration routes to be able to identify protection zones with great certainty. The approach of identifying zones from Salmon Conservation Regu areas known to be important to the post-smolt phase of the wild salmon lifecycle. We do however strongly believe that a whole-lifecycle approach must be taken. Other pressures and locations – n stage underpinning the production of post-smolts – should be identified so activities within those areas can be managed. These recognised high-level pressures are as follows: exploitation, predation
explaining why they should be protection zones and the	native species, water quality, water quantity, thermal habitat, instream habitat, riparian habitat, barriers to migration, coastal & marine.
evidence to support this Q5 text box for information	We also note that large areas of protection zone - according to the criteria cited in the framework proposal - exist around the north and east coasts of Scotland, which have been excluded simply be there is a presumption against marine finfish development. These areas equate to a protective zone already being in place for approximately 80% of Scotland's wild salmon population, throwing extensive protection areas, along with wider considerations to encompass all pressures in all habitats, should be included in any wild salmon framework to ensure that a comprehensive assessm effective actions identified.
Do you think that any of areas we are proposing as wild salmon protection zones should not be so identified?	Yes
- Q6 radio buttons	
If yes, please identify these areas, explaining why they are not important for wild salmon post- smolt migration and the evidence to support this Q7 text box for information	therefore not clear why the whole Sound of Harris waterbody, consisting of 139km2 of open coastal waters, has been classed as a protection zone rather than a 5km radius from the river mouth or a enters open coastline. This would be consistent with the stated methodology and indeed the protection zones immediately adjacent to the west of Sound of Harris (North
	Similarly, Bagh nam Faoliean protection zone originates from a single river mouth, the Loch Bi system (MS River ID 79). This is located to the far west of the Bagh nam Faoliean waterbody. In p appear this protection zone should consist of a 5km radius from the river mouth rather than the whole Bagh nam Faoliean waterbody, the majority of which lies to the east of the South Ford causev passage from west to east. As such it is suggested that inclusion of the entire Bagh nam Faoliean waterbody as a protection zone is not consistent of the south ford causever passage from west to east.
	Stepping back from the detail of individual proposed protection zones, we are concerned about the principle of including freshwater pearl mussel SAC / SSSI designations in any framework. While SACs / SSSIs where mussels are dependent on trout rather than salmon are not included, as confirmed by SEPA during discussions 22/02/22, the inclusion of freshwater pearl mussel (FWPM) design wild salmon. In discussion with SEPA 22/02/22 we asked what the rationale for including FWPM was, and no clear reasoning was provided. As an operator with several farms adjacent to FWP schemes to mitigate risk to the FWPM populations and better understand potential interactions. This work is relatively newly established (2020) in relation to areas which have been farmed for de salmonids of the FWPM from aquaculture activity - and is work we believe should be continued. The inclusion of FWPM designations in the proposed framework complicates, duplicates are

ulations River Mouths appears a reasonable one, as these are most fundamentally those impacting the freshwater reproductive ion / competition, fish health, genetic introgression, invasive none.

ecause they are remote from aquaculture activity in areas where g into question the need for the proposed framework. These ment of pressures is made and proportionate, prioritised and

nd of Harris and Bagh nam Faoliean. The query could not be onsidered a protection zone where rivers enter the sea on open waterbody, The Obbe, and then the wider Sound of Harris. It is at most the point where the more constrained Obbe waterbody th Uist, North, MS River IDs 6 & 89).

parity with the MS River IDs 6 & 89 examples above, it would way. Furthermore, the post-smolt swim path does not indicate t or appropriate.

e we understand from A.5(b) of the consultation document that esignations at all appears inconsistent for a framework focussed PM interests we are participating in monitoring and management ecades - indicative that there is no catastrophic impact on host nd potentially disrupts this already established process.

Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 text box information	As stated in point B.6 of the consultation document, the proposed exposure threshold has been derived from Norwegian studies. While the models behind these studies may be impressively adva larval lice behaviour, they are inherently tied to the specific study locations they were developed around. The Sandvik et al. (2020) study from which we understand the 0.7 sea lice-days m-2 has b with the model being calibrated by on-fish lice levels from sentinel cages. With the threshold therefore being specific to this system, we question the validity of applying it directly to Scottis We also note the significant impact of selected values – such a sea lice exposure level, smolt swimming speed, lice infection efficacy etc – set as thresholds or assumed values within a system su figures underpin the whole output of the framework, and small changes in value would have a great impact on output; as such it is essential that these values are robustly defined. As recomm evaluation of the Norwegian Traffic Light System, undertaking appropriate sensitivity analysis and identifying, quantifying and recognising sources of uncertainty is essential for any framework s February 2022 report, that all scientific evidence be subject to independent scrutiny, and as noted by the Evaluation Committee that a clear process be in place for th Finally, we query the detail of Table B1 of the consultation document. Point B.3 states studies to have indicated that above 0.1 mobile sea lice per gram of host fish stress-related effects and imp would mean up to 0.099 lice per gram, equating to 1.98 lice per 20g post-smolt. Table B1 however states 1.0 lice per fish, which appears inconsistent with the facts stated in B.3. We would also lik and the 0.7 sea lice-days m-2, for example how is infection efficacy of larvae which encounter a host fish taken into account, which studies have shown ra
Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 File upload	Not Answered
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	First and foremost any progression of the framework needs to be within the context of recommendations from the Griggs report (February 2022), aligned with Scottish Government's Aquaculture 1 finfish sector. For future developments in this area, the finfish aquaculture sector – operators, industry bodies and associated groups with fish health and environmental modelling functions - should be centra Inspectorate and Marine Scotland Science, would also clearly be involved. While it is appreciated that other stakeholders such as fisheries managers will have a strong interest in working arrangements for any framework, their role in relation to the twelve identified pressu of their involvement be considered. Just as the aquaculture sector may have a vested interest in what happens in freshwater habitats for reasons of wild fish conservation to which they have common forum developing the detail of how fisheries and land are managed as this is neither their direct remit nor area of expertise. Dialogue and cooperation between interests and potential pressures environment, however it is important that in developing the detail of any regulatory system the appropriate, contributing parties in terms of regulators and sect
Do you have relevant expertise or experience that you would be happy to share with us during implementation planning to help us develop modelling protocols? - 10 radio buttons	Yes
If yes, please tell us about your area of expertise: - Q11 text box for information	As a finfish operator we have significant experience in fish production and sea lice management relevant to the development of any future framework. We work closely with third-party modelling sp modelling work). We also have established relationships with wild fish stakeholders through existing agreements and experience of developing and implem

vanced, for example taking into account the impact of salinity on been derived specifically focusses on the Hardangerfjord system, ish coastal waters as proposed by the draft framework.

uch as the proposed framework. As proposed a small number of hended by the Evaluation Committee in their December 2021 such as the proposed. It is also fundamental, as per Griggs' the inclusion of expert judgement.

baired swimming ability can occur. Applying this conservatively ke to better understand the link between this mobile sea lice level anges from 50 - 70%.

Vision and following reviewed consenting arrangements for the

al. Relevant regulators, such as Marine Scotland Fish Health

ures on wild salmonids must be recognised and appropriateness mitment (for example via EMPs), they would not expect to sit in a s is of course important given the shared nature of the aquatic tor expertise be prioritised.

pecialists (currently undertaking NewDepomod and hydrodynamic nenting monitoring plans.

	If you would like to	
	be involved, are you	
	happy for us to	
	contact you by the	Yes
	email address you	
h	have provided? - Q12	
Ľ	radio buttons	
	Do you have any	
	suggestions for how	As for all regulatory programmes and compliance assessment schemes it is important that any future framework does not result in duplication of other regimes. Specifically in this instance Marine
	SEPA could most	Businesses (Reporting) (Scotland) Order 2020 & Aquaculture & Fisheries (Scotland) Act 2007 and Scottish Government's sea lice policy (reporting and enforcement). To this end, and as per our
	efficiently and	compliance assessment must be developed within the context of Grigg's report. As well as avoiding duplication, it is key that any framework be appropriately resourced in order that compliance can be appropriately resourced in order to appropriately resourced
	effectively assess	framework as it stands would require significant knowledge development for SEPA as an entirely new area of responsibility. Alongside the more familiar aspects of the framework – modelling, dat
	compliance? - Q13	inspections would need to be covered. This would require knowledge of fish health monitoring for involved parties, and a sound understanding of wider fish health management. While sea lice
	text box for	management is not an isolated topic and sits within an often complex fish health context.
	information	
	Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 radio buttons	Yes
	Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information	As an operator currently involved in Environmental Monitoring Plans (EMPs) for existing operations we can provide some thoughts. Our current EMPs are focussed on freshwater pearl mussels (FWPM) within SAC / SSSI designations. While the EMPs include reporting of sea lice mitigation & management plans and on-farm sea populations are at risk is the density of juvenile salmonids within the relevant freshwater system, on which FWPM are dependent for recruitment. This is tracked on an annual basis through juvenile are likely, any trend of long-term decline would represent a threat to FWPM reproductive success. The EMPs aim to examine the likelihood that a decline in juvenile salmonids is linked to sea lice in which monitor sea lice levels on wild fish. These results can then be considered in the context of sea lice management at the farm, with adaptation to farm practice f In parity with the above it would seem a logical form of monitoring for the proposed framework would be sea lice levels on wild salmon post-smolt in appropriate locations. This information would need associated farms, to evaluate the likelihood of a connection. However, while this type of monitoring is undertaken in other countries, we appreciate the significant practical difficulties of such a progri during a key stage. An alternative could be to look at planktonic lice levels at appropriate locations, although being a step removed from 'lice on fish' factors relevant to settlement success would salmon numbers in a freshwater setting would not be appropriate as many other factors such as feed resources at sea, predation, fishing pressure and freshwater habitat will play a role and to context of sea lice as a pressure this would afford establishment of a baseline, allowing comparison to farming areas rather than simply singling out specific aquaculture regions with nothing to refer question 5, we strongly believe that a whole-lifecycle and Scotland-wide approach needs to be taken in any framework and therefore any monitoring programme. Wh
,	Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Yes

ine Scotland Fish Health Inspectorate functions, Fish Farming ur response to question 9, any framework and accompanying can effectively be assessed; as well as staffing, the proposed data handling, returns - additional elements to site and record ce are the central focus of the proposed framework, sea lice

ea lice levels, the ultimate measure to determine whether FWPM ile surveys, and while short-term fluctuations in fry/parr numbers e infection pressure through annual coastal netting programmes e for future cycles if necessary.

eed to be viewed in the context of sea lice levels from potentially ogramme as well as the potential additional pressure to wild fish Id need to be taken into account. Certainly monitoring of wild and their relevant impacts would not be distinguishable.

rth and east coasts should be taken into consideration. In the eference against. Wider still, and again as per our response to s, multi-sector undertaking, we feel this is the only way that tages of the salmon cycle.

Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information	As a finfish operator we will, like any business, be seeking improvement and development of sites and so will be affected by the framework as currently proposed. It seems a given that as the response be involved in the resultant effectiveness monitoring programme, with delivery of such involving provision of information from our operation
If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q10 radio buttons	Yes
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Yes
Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 text box for information	As per our response to question 5 we strongly suggest that a whole-lifecycle approach needs to be taken for any framework aiming to protect wild salmon. We accept sea lice interactions pose one potential sea lice interactions, for example barriers to migration and sub-optimal freshwater conditions (habitat condition and human activity) which will disrupt the reproductive success of wild salm such that actions required of various stakeholders are proportionate and effective; this lifecycle or system-wide assessment and resultant management plan should be regularly review.
Do you think the design of the proposed framework or how it is implemented, could affect your community or business interests? Q18a radio buttons	Yes in a negative way

ponsible party for sites included in any future framework we would tions.

one risk, yet a further 11 pressures exist which may well outweigh almon. Such factors need to be prioritised within any framework viewed to adapt to changes within the catchment.

Do you think the design of the proposed framework, or how it is implemented, could affect your community or business interests? - Q18b text box	The proposed framework in its current format would have a significant negative impact on our business and communities in fragile rural areas (Highlands & Islands) by affecting development. This is itself of supporting human health & wellbeing and achieving sustainable economic growth. It is also contrary to Scotland's National Strategy for Economic Transformation (Scottish Government, N including being the best place to grow a business, with opportunity distributed fairly across all geographical regions. Directly at odds with this Strategy for the coming 'decisive decade' the proposed for the coming 'decisive decade' the proposed to construct the basis of the framework is not clear in the consultation document. Wording of points 1.5, 6.2 and C. 14 suggests the framework is proposed to construct the base into the principal issue, the purpose and scope of the framework is not clear in the consultation document. Wording of points 1.5, 6.2 and C. 14 suggests the framework is proposed to construct the longer term, Syr+, existing operations within protection zones would be brought into the system with baseline conditions being added into permits. This Isdo of Carlir ground the fundaming while confirmed by SEPA it should not be the case, proposals from the framework will be referenced by other official bodies, stakeholders and 60% of our Highland locations are within identified proposed framework. As the proposal stands all of our Western Isles farms and 60% of our Highland locations are within identified proposal directed by the proposal framework. As the proposal stands allo our development of the sexisting sites and restricting the siting of new farms within our operational areas, we would also be disproportionately affected by the proposed framework. As the proposal stands allo for western isles farms and 60% of our Highland locations are within identified profile conomic from shale acongrite in the development of the sexisting sites and restricting the siting of new farms within our operational areas, we would al
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19a radio buttons	Yes
Do you have suggestions how any potential negative effects could be reduced or avoided without compromising the environmental protection purpose of the proposed framework? - Q19b text box for information	First and foremost the principle of the framework must be considered in the context of recommendations from Griggs' Review of Aquaculture Regulatory Process in Scotland published by Scot recommendations from this report include: •Scottish Government to set and own its policy in relation to the industry, developed from a Vision for Aquaculture in Scotland •A 10-year framework for the finfish sector to be created, with corresponding review of the regulatory and consenting process to follow •Independent review of science and evidence to ensure it is best available and up to date •Creation of a central science and evidence base to inform regulatory decision processes •Action on the above to take place within the next 12 months As such it would seem appropriate that work on the framework subject of this consultation be paused and future progression be aligned with the wider-scale review recommended, as supported in pro- As a very minimum the next stage of any process in relation to this consultation needs to clearly set out the intended scope of the framework as conveyed to us by SEPA 22/02/22 i.e. applying communication is also needed from SEPA with regards to the draft status of the framework to prevent its misuse during consideration of current develop As per our response to question 18 a full socio-economic impact assessment also needs to be undertaken. In order to enable this to take place we understand that more detail of any framework wo consultation with finfish operators.

is contrary to objectives stated within the consultation document t, March 2022), which sets out the vision for Scotland's future bosed framework would cripple an innovative industry, part of uch as the circular economy.

cover all farming sites interacting with the identified protection t they will potentially interact with protection zones. It was stated nentals of where, when and how the framework would be applied jing to relations with other stakeholders. It is also a reality that, proposals. This creates loss of confidence by businesses and

farming operations across two regions – Highland and Western rotection zones. As well as significantly constraining future ed with the framework. As per our response to question 11 we do is ourselves.

with such impact on a key Scottish industry, particularly relevant ed and this detail is required to allow a thorough assessment of r any future progression of the framework, within the context of edefine aspects of the framework should the socio-economic

cottish Government in February 2022. Key comments and

principle by the Cabinet Secretary for Rural Affairs and Islands.

ing to development rather than existing operations. Clear opment proposals.

would need to be drafted, and this should be completed in close

Do you have any	
suggestions how	
potential positive	
effects delivered or	
enhanced without	
compromising the	Yes
environmental	
protection purpose	
of the proposed	
framework? - Q20a	
radio buttons	
Do you have any	
suggestions how	
potential positive	
effects delivered or	As per our response to questions 5 & 17 we strongly suggest that a life-cycle approach be taken for any framework aiming to protect wild salmon. This should include the further 11 pressures ider
enhanced without	migration and sub-optimal freshwater conditions (habitat condition and human activity) which are disrupters to wild salmon reproductive succ
compromising the	We would also like to see consideration of wider mitigation actions, which take into account a whole-system approach to wild salmon conservation. For example removal of barriers to migration or re
environmental	recruitment. Such 'offsetting' measures could be considered particularly appropriate as pressures elsewhere in the aquatic system may be having greater, more fundamental impacts on wild salmon
protection purpose	based approach it is fundamental that these wider issues be identified, assessed and proportionately addressed so that successful conservation actions can be
of the proposed	
framework? - Q20b	
text box	
Do you have any additional feedback on the proposed framework? - Q21 text box for information	Yes. Firstly, we wish to state that we do not support the proposed framework as we have significant concerns regarding the principles and evidence on which it is based. To participate fully in the consul clarify that does not signify our acceptance of the proposed framework; indeed we find the questions presumptive and leading rather than neutral, and they fail to address the fundamental principle As captured elsewhere in our responses, the proposed framework must be considered in the context of recommendations from Griggs' Review of Aquaculture Regulatory Process in Scotland publish principle by the Cabinet Secretary for Rural Affairs & Islands. It would seem appropriate that work on the proposed framework be paused so that any future progression can be aligned within the wic the report. As the proposal stands we have significant concerns about duplication and further complication of the regulatory system, for example in relation to Fish Health Inspectorate functions, Mar to existing wild fish monitoring programmes and local stakeholder relationships. Of equal importance is the need for a system-wide approach to wild salmon conservation and proportionality in terms of actions being required by various sectors and stakeholders. As the proposal focus for action, whereas there are a further 11 recognised pressures influencing wild salmon conservation status. The weighting of each of these pressures needs to be evaluated, at various scale balance in a socio-economic sense as well as delivering greatest conservation impact. As a sector already contributing significantly to investigation of wild-fish interactions and conservation, the bu both unjustified and ill-evidenced in terms of proven scale of impact from aquaculture activities. Finally, within the proposal itself appears very early stage, lacking in critical detail and without assessment of impact on a key Scottish sector. The stated context of 'no deterioration' principle and propr consultation documents. Finally, within the proposal there is hu
	In conclusion we feel that the principle, proportionality and detail of the proposed framework requires considerable revision, and that any progression should be in the co

dentified by Scottish Government, and could include barriers to uccess.

r restoration of freshwater habitat to support breeding and juvenile almon populations than sea lice risk in coastal waters. In a riskbe taken across the piece.

sultation process we have answered the questions above, but to iples of the framework which should be part of the consultation.

lished by Scottish Government in February 2022 and supported in wider-scale review of consenting for the finfish sector called for in Marine Scotland policy and reporting requirements, and in relation

osal stands the finfish sector is very much being singled out as a ales, so that proportionate actions can be agreed. This achieves bureaucratic and restrictive nature of the proposed framework is

pposed scope in relation to existing sites is simply not clear in the

ertise capacity and accessibility aside - the point remains that the ce needs to be verified by real world measurements. Unlike ce of individual metrics as assumptions or thresholds is amplified. lently scruitinised in order that a framework is fit for purpose.

context of wider regulatory review.

Respondent Number	37	38
What is your name? - Name		
What is your email address? - Email		
What is your organisation? (if applicable) - Organisation	British Trout Associatation	River Doon District Salmon Fishery Board
Do you think that there are important areas for wild salmon post-smolt migration that we have not identified as wild salmon protection zones? - Q4 radio buttons	No	Yes
If yes, please identify these areas, explaining why they should be protection zones and the evidence to support this Q5 text box for information	please see written Response	We understand that smolts emigrating from Ayrshire rivers have never been subject to research. Consequently, the direction these young salmon take and the protected zones is unknown. Assumptions have been made that all smolts leave and will swim at the same rate as they head for open seas. The progression through the zones cannot safely be assumed at the rates indicated. Research elsewhere indicates a high degree of variability in the rate at which smolts progress to open seas. We reference and adopt the Response to the Consequently, we submit that it is necessary, adopting the precautionary principle, to extend the protection zones further into the Firth of Clyde, beyond the model data is available.
Do you think that any of areas we are proposing as wild salmon protection zones should not be so identified?	Not sure	No
If yes, please identify these areas, explaining why they are not important for wild salmon post- smolt migration and the evidence to support this Q7 text box for information	please see written Response	

e rate at which they leave the proposed n speeds of wild salmon post-smolts

onsultation b y Fisheries Management

ouths of the Ayrshire rivers, until more

Do you have any scientific evidence that should be considered to ensure the sea lice exposure threshold is effective in protecting wild salmon populations? This includes any evidence for a refinement of the threshold - Q8 text box information	please see our written response	We refer to the submission made by Ayrshire Rivers Trust ("ART"), who are the Scientific Advisers to the River Doon DSFB. Not all rivers in Ayrshire have been subjected to smolt migration/emigration research. Therefore, we understand that there is limited data available. However, add is a reasonable assumption to make that what happens in one Ayrshire river may happen in all. We understand that, in 2021, ART captured salmon smolts as late as 16 June 2021, in the middle reaches of the River Ayr some 32km upstream of the estuary. likely have been delayed due to low water conditions experienced last summer. Whilst one may say that last year's low water conditions were perhaps some of the worst in recent times, due to climate change, we are experiencing increa coast/Ayrshire rivers. In the circumstances, with this clear evidence, whilst we support the submissions made by Fisheries Management Scotland (and adopt the reasoning in their sub to be applied, we strongly propose that the proposed sea lice threshold period covering April and May is inadequate. We note that the aquaculture industry's own 'Code of Good Practice' defines the sensitive period for wild salmon as the 1st February to 30th June inclusive. We there is demonstrable evidence from ART that smolts continue to emigrate from the Ayrshire coastilne throughout June. We agree with ART's submission that, by extending the sensitive period to year-round, this would allow SEPA to set appropriate lice exposure levels/lice threshol achieve compliance year-round. It would also allow post smolts from the southern west coast rivers (which include the River Doon) to migrate beyond northern protection z there seems little point in setting thresholds that apply only at peak smolt emigration times, when control measures to keep lice levels may be required in the peak period. The principle of this proposition appeared to be accepted by SEPA in the discussions sessions organised by FMS, but we are responding to w document, which provisions are inadequate to protect all wi
the sea lice exposure threshold is effective in protecting wild salmon populations?	https://consultation.sepa.org.uk/reg ulatory-services/protection-of-wild- salmon/consultation/download_file ?squid=question-2021-11-25- 9063656368- filesubquestion&user=ANON-G44V 9KEZ-8	Not Answered
Which groups and organisations do you think we should include on technical advisory groups to assist us with the development of the detailed working arrangements and methods needed to implement the framework? - Q9 text box for information	please see our written response ref the Prof Griggs report .	Fisheries Management Scotland and their members, including the District Salmon Fishery Boards, Trusts and others, such as the River Doon District Salmon Fishery Boards, Trusts and others, such as the River Doon District Salmon Fishery Boards, Trusts and others, such as the River Doon District Salmon Fishery Boards, Trusts and others, such as the River Doon District Salmon Fishery Boards, Trusts and others, such as the River Doon District Salmon Fishery Boards, Trusts and others, such as the River Doon District Salmon Fishery Boards, Trusts and others, such as the River Doon District Salmon Fishery Boards, Trusts and others, such as the River Doon District Salmon Fishery Boards, Trusts and others, such as the River Sottland and their Member Scotland. Other organisations representing members of the public and their rural communities affected by the impact of aquaculture e.g. angling club Scotland. Other organisations representing members of the public and their rural communities affected by the impact of aquaculture e.g. angling club We also recognise that representatives of the aquaculture industry should be invited to participate, but it is important that they are not seen to dominate any te clearly have a vested interest in the detailed working arrangements and methods to be adopted to implement the framework. So, for example, we consider it is clearly have a vested interest in the detailed working arrangement unannounced visits/inspections to fish farms, so that robust monitoring can be enforced.

dopting the precautionary principle, it

. We understand this emigration may

easingly dry springs on the west

ubmission) for year round thresholds

Ve also believe this is inadequate, as

nolds and better enable the industry to

zones safely.

period running up to and beyond the what is noted in the Consultation

le and the UK's commitment to meet ease in sea lice loads or lice-induced

Fishery Board. Ayrshire Rivers Trust bers. Salmon & Trout Conservation ubs and organisations etc.

technical advisory groups, as they critical that the regulatory framework

exp wo sha in pla de	you have relevant expertise or perience that you build be happy to are with us during mplementation anning to help us evelop modelling tocols? - 10 radio buttons	Possibly	Yes
ab exp	res, please tell us bout your area of bertise: - Q11 text x for information	please see our written response	Ayrshire Rivers Trust ("ART"), scientific advisers to the River Doon DSFB and a number of other DSFBs for the Ayrshire rivers, has expertise monitoring wild salm netting fish. With their local knowledge of the Ayrshire Coastline, they may be able to contribute to gathering data and monitoring lice on wild As a Board, we would support the gathering of relevant data and the monitoring of sea lice on wild salmonids in the Ayrshire rivers, particularly We consider this would be extremely helpful in determining the extent of protection zones to be implemented, in order to protect wild sal
be f co en hav	you would like to involved, are you happy for us to intact you by the nail address you e provided? - Q12 radio buttons	Yes	Yes
sug SI ef	bo you have any gestions for how EPA could most efficiently and fectively assess mpliance? - Q13 text box for information	please see our written response	Like the submission from our scientific advisers, Ayrshire Rivers Trust ("ART"), we are unclear from the consultation how SEPA intends to deliver this proposed for the strongly submit that reliance on the aquaculture industry to self-regulate would be entirely inappropriate. SEPA must ensure they are able to regulate effective every failure. This should include unannounced visits and inspections by trained SEPA staff. Non-compliance is unacceptable and enforcement action taken in a consistent exceptions, by SEPA is critical to protect wild salmonids. We agree with the submissions made by Salmon & Trout Conservation Scotland that, if there are concerns regarding resourcing of such unannounced visits (critical to protect should be and unannounced visits), then the industry should bear any such additional costs. If individual farms are found to be in breach of the regulatory regime, then SEPA should use i bring the relevant farm into compliance as soon as possible (as the damage may already have been done), but to penalise their non-compliance, if necessary Licences. We adopt the technical submissions made by ART and Fisheries Management Scotland regarding the importance of all female adult lice being used to determin supported by unannounced visits and inspections, with absolute thresholds being regulated proactively by SEPA. Again, this must be based on the preventative SEPA's regulatory responsibilities across their range of operation.
sug we mo effe fran it s	o you have any ggestions on how should develop a onitoring plan to assess the ectiveness of the nework and what hould include? - 14 radio buttons	Not sure	Yes

almonids and extensive experience of wild salmonids.

arly the River Doon.

d salmonids.

ed framework and assess compliance.

ctively and take enforcement action at

ent and transparent manner, without

(critical to ensure compliance by the se its powers to the fullest - not just to sary, by withdrawal of their CARs or

nine thresholds, but this must also be ative principle and in accordance with

	Do you have any suggestions on how we should develop a monitoring plan to assess the effectiveness of the framework and what it should include? - Q14 text box for information	please see our written response	SEPA should consider using local expertise, independent of the aquaculture sector, to assist with monitoring and data collection. We refer to the technical s Management Scotland and others who have technical expertise in this area. We also adopt the submissions of Ayrshire Rivers Trust that establishing base line data may still be possible within the Firth of Clyde prior to the planned expansio this area. This provides is an opportunity that has long been ignored by those coordinating sea lice monitoring further north on the wes We consider adopting such measures and being transparent in the sharing of data is essential to effectiveness monitoring of the framework; with proactive actio non-compliance is encountered.
	Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 radio buttons	Not sure	Yes
	Do you think there are components that should be included in an effectiveness monitoring programme that you would be able to help deliver? - Q15 text box for information	please see our written response	We adopt the submissions made by Ayrshire Rivers Trust ("ART"), who are the scientific advisers to the River Doon DSFB. We understand the Ayrshire coastline has to date, never been included in any sea lice monitoring on sea trout, despite aquaculture facilities operating in relatively expansion of aquaculture in the Firth of Clyde and North Ayrshire, this situation should be addressed and the entire Ayrshire coastline included within any wider salmonids. While monitoring sea trout will not provide the same results as monitoring salmon within the marine environment, it may be possible to gather valuable data of salmonids. These data could be used to assess changes occurring and understand direct relationships between sea lice levels recorded on nearby aquaculture salmonids within the Firth of Clyde. The framework should be extended to include sea trout as soon as possible. Indeed, we would go far as to adopt the submission of Fisheries Management Scot are included in the monitoring of sea lice from the outset, rather than being effectively 'left behind' as SEPA proposes to develop the framework for Atlant Ayrshire Rivers Trust ("ART") have experience of netting procedures and knowledge of the coastline where netting operations may be possible. This is something and are keen to do so, subject to available funding being identified and made available.
	If you would like to be involved in the development of a monitoring plan, are you happy for us to contact you by the email address you have provided? - Q16 radio buttons	Yes	Yes
	Are there other types of information that you think could usefully inform the adaptive development of the proposed framework? - Q17 radio buttons	Yes	Yes

I submissions made by Fisheries

ision of the aquaculture industry within vest coast.

tion being required by SEPA, where

vely close proximity. With the planned der monitoring strategies for all wild

ta on lice levels occurring on wild ure sites and those occurring on wild

cotland, that it is critical that sea trout antic salmon only at this time.

ng that ART may be able to assist with

Are there other typ of information the you think could usefully inform the adaptive development of the proposed framework? - Q1 text box for information	t please see our written response	 We agree with the submission by Ayrshire Rivers Trust ("ART"), scientific advisers to the River Doon DSFB, that a consistent approach to modelling sea lice dispertitive should include adopting requirements that all adult female lice, rather than just gravid female lice, are used to inform the model We also submit that the sea trout should be within the framework as soon as possible, preferably from the outset, as noted and recommended by Fisheries Mana equal protection, as wild salmonids. As noted elsewhere, due to demonstrable changes in the behaviour of smolts, due to low water conditions caused by climate change, consideration of the impact to be made in real time. Taking this into account when setting lice thresholds seems appropriate, as does extending the period of protection offered by increasi round. We note that the industry and other stakeholders may already have well developed modelling approaches that could be integrated within the framework to allow far of wild salmonids. However, (as the Fisheries Management Scotland submission concluded), it is the primary responsibility of SEPA (not the aquaculture industry itself) to develou "must deliver on our International Commitments and meet the tests set out in the Salmon Interactions Working Group of being robust, transparent, error
Do you think the design of the proposed framewo or how it is implemented, cou affect your community or business interests Q18a radio buttor	rk, Id Yes in a negative way	I'm not sure
Do you think the design of the proposed framewo or how it is implemented, cou affect your community or business interests Q18b text box	rk, Id please see our written response	 Whether the framework has positive or negative effects on business and community interests will depend on how able SEPA, when applying the framework, are a the protection of wild salmonids. Once the aquaculture industry is regulated under the new framework, there is an expectation that wild salmonids (particularly wild Atlantic salmon However, in order to make that a reality, SEPA must ensure that it is able to regulate consistently and in a transparent manner, if public confidence in this ne We submit that, as noted in the Fisheries Management Scotland submission, in order for the public to have acceptance (in fact, better still, confidence) in the framework will be implemented rigorously. By necessity, we submit that requires to include unannounced visits to fish farms; and proactive action by SEPA, if non-compliance with the regulate Our Board considers that the stakes are high, as our priority to conserve species which are widely acknowledged are in crisis. If the necessary protections can be put in place to protect wild salmonids from lice associated impacts, this will benefit the angling sector and rural econd.
Do you have suggestions how a potential negativ effects could be reduced or avoide without compromising th environmental protection purpos of the proposed framework? - Q19 radio buttons	d No e	Not sure

- persal should be adopted. We submit delling.
- anagement Scotland, as they require
- acts affecting different regions needs asing the lice threshold period year-
- a faster implementation and protection
- elop a regulatory framework which enforceable and enforced."

- e at delivering effective regulation and
- mon) are protected.
- new approach is to be achieved.
- ramework, it requires the public to be
- lations is encountered.
- is.
- conomies for years to come.

Do you have		
suggestions how any		
potential negative		
effects could be		
reduced or avoided		
without		
compromising the	please see our written response	see above
environmental		
protection purpose		
of the proposed		
framework? - Q19b		
text box for		
information		
Do you have any		
suggestions how		
potential positive		
effects delivered or		
enhanced without		
compromising the	No	Not sure
environmental		
protection purpose		
of the proposed		
framework? - Q20a		
radio buttons		
Do you have any		
suggestions how		
potential positive		
effects delivered or		
enhanced without		
compromising the	please see our written response	see above
environmental		
protection purpose		
of the proposed		
framework? - Q20b		
text box		
Do you have any		
additional feedback		The manner in which the questions are framed can lead to somewhat disjointed responses. We trust that SEPA will take on board the relevant points we have
on the proposed		ignoring them as a poor fit to the question in which they are included.
framework?	please see our written response	
		We are also arranging to send a unified response to the aquaculture.regulation@sepa.org.uk inbox, which is based primarily on the Response prepared by F
- Q21 text box for		our Board supports, but with particular comments as we consider are relevant to the interests of our stakeholders in the River Doon DSFB and to the
information		

ave raised in our answers, rather than

Fisheries Management Scotland, which the Ayrshire rivers generally.