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					and paddleboarding at Largs and Fairlie.	
		_		I		
waters around d these areas are used by someone who swims in these waters, want Families will. It want children exposed to	·	-		-		
swimmers and people who are on the water using a huge variety of watercraft. chemicals int he water, recreational water users will also not want to be exposed.		to be exposed to them.				

Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
District Salmon Fishery Boards have a	This and two other proposed Dawnfresh		Scotland's wild salmon and sea trout are at	As above, this farm, alongside the other two	de épon tontoch mee
statutory responsibility to protect and	sites lie on an important migration pathway		crisis point with many populations below	proposed CAR licences in this area, has the	
improve salmon and sea trout fisheries in	for Atlantic salmon which all fish arising		conservation limits, particularly on the West	potential to impact fisheries management	
their district and are statutory consultees in	from the inner Clyde will utilise. We would		Coast within the 'Aquaculture zone'. Whilst	and angling activities in a number of	
the planning process for fish farms. Whilst	emphasise that both Atlantic salmon and		wild salmon face a range of pressures,	important rivers and fisheries.	
Argyll DSFB do not routinely respond to CAR	sea trout are Priority Marine Features – the		specific pressures from the aquaculture		
licence applications for fish farms, we	habitats and species of greatest		industry include impacts from escapes and		
believe that the proposed location for this	conservation importance in inshore waters.		sea lice. Salmon and sea trout fisheries are		
development is inappropriate from the			an important component of Scotland's rural		
perspective of migratory salmonids and the	The proposed development, taken together		economy. These fisheries and associated		
interests of other water users. There are a	with the other two proposed CAR licences in		infrastructure rely on healthy populations of		
number of important rivers and fisheries that would be affected by the proposed	this area by the same company, represent a significant additional biomass of farmed fish		fish returning to Scotland's rivers. Scottish salmon rivers are categorised by Marine		
farm site, including those in Argyll and	in an area of the inner Clyde with no history		Scotland Science under the salmon		
Arran, the Clyde and Loch Lomond (which includes the Endrick Water Special Area of	of open cage fish farming. This will represent a highly significant addition of		conservation regulations according to the likelihood of them meeting their		
Conservation -	host fish for sea lice on an important		conservation limits. The gradings of rivers		
https://sitelink.nature.scot/site/8252),	migratory pathway for wild fish. It is		have been published for 2021. 104 rivers		
which are not covered by a District Salmon	important to emphasise that the total lice		across Scotland are graded as Category 3,		
Fishery Board. Our primary concern are	load arising from a marine fish farm is a		meaning there is a less than 60% probability		
impacts on wild salmonid fish and this is	function of the number of lice per farmed		of meeting their conservation limit. Where		
covered in the section below.	fish, and the total number of fish maintained		salmon populations are below their		
	in the cages. Maximum biomass consented		conservation limits, any additional pressure,		
	via the CAR licensing system therefore has a		including from sea lice, cannot be		
	direct influence on the number of larval sea		considered sustainable.		
	lice released into the environment. As set		Whilst Argyll DSFB do not routinely respond		
	out above, we therefore consider that SEPA		to CAR licence applications for fish farms,		
	must take the potential impacts on wild fish,		we believe that the proposed location for		
	and the associated impact on interests of		this development is inappropriate based on		
	other users of the water environment fully		the aforementioned impacts on the water		
	into account when considering these		environment, which will have a knock-on		
	applications. Fish arising from many important local rivers, inevitably must		effect on other water users, including fisheries managers and anglers.		
	migrate directly past the proposed		As mentioned previously, the impacts of sea		
	developments on their migration through		lice and farmed fish escapes can be		
	the inner Clyde, placing those fish at risk		detrimental to the water environment.		
	from lethal or damaging infestation from sea		Experience from previous escapes of		
	lice.		rainbow trout from Dawnfresh farms,		
	We would also highlight the potential risk of		particularly in Loch Etive where at least		
	the effects of escaped farmed species on		35,000 fish have escaped since 2015, have		
	wild fish populations which is widely		shown that in addition to these potential		
	recognised within peer reviewed scientific		ecological impacts, the escapes create a		
	literature (e.g. Glover et al. 2017). A recently		significant nuisance to fishery owners and		
	recorded instance at the Mowi Scotland Ltd.		angling businesses. We therefore consider		
	Carradale North site saw 48,834 farmed		that SEPA must take the potential impacts		
	salmon escape during a storm event in		on wild fish, and the associated impact on		
	August 2020. A study of scale samples		interests of other users of the water		
	monitored the distribution of the escaped		environment fully into account when		
	fish and found widespread dispersion of the farmed salmon. There were documented		considering this application.		
	cases of farmed fish found within 17 rivers,				
	the majority of which were captured within				
	the Clyde and Loch Lomond systems and a				
	number of rivers in Ayrshire and Argyll				
	(Fisheries Management Scotland, 2021).				
	Rainbow trout are a non-native species and				
	have the potential to impact on native fish				
	species through competition and predation.				
	In addition, rainbow trout in the wild are not				
	covered by wild fisheries legislation.				
	Experience from previous escapes of				
	rainbow trout from Dawnfresh farms,				
	particularly in Loch Etive where at least				

	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will
	impact the water environment Q5 - open text	impact the water environment Q5 - open text	impact the water environment Q5 - open text	impact on people who use the water	impact on people who use the water	impact on people who use the water
	box one	box two	boxthree	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
		35,000 fish have escaped since 2015, have shown that in addition to these potential				
		ecological impacts, the escapes create a				
		significant nuisance to fishery owners and				
		angling businesses. Dawnfresh have refused				
		to recognise or compensate for these				
		impacts. SEPA have direct responsibility for				
		non-native species in rivers, so it is				
		important that this potential impact is fully				
		considered in determining this CAR licence.				
		We have attached a short summary of the				
		science which underpins our objection.				
		Whilst the impacts of sea lice arising from				
		farms may be mitigated by strategically				
		planning farm locations, there is no current				
		strategic plan within which this can happen.				
		We are conscious that SEPA, Marine				
		Scotland, NatureScot and local authorities are developing a strategic framework				
		related to sea lice impacts on wild fish, but				
		this is still in development. In the meantime,				
		the precautionary principle should apply,				
		and Argyll DSFB strongly object to a licence				
		being granted for each of the three				
		proposed farms.				
		References				
		Fisheries Management Scotland (2021).				
		Monitoring for the presence of farmed				
		salmon in West Coast Scottish rivers				
		following an escape from the Carradale				
		North salmon farm.				
		Half a century of genetic interaction				
		between farmed and wild Atlantic salmon: Status of knowledge and unanswered				
		questions. Fish and Fisheries, 18(5), 890–				
		927. https://doi.org/10.1111/faf.12214				
		327. 11(1)3.77 401.016/ 10.1111/141.12211				
6	The insecticides and waste feed used in fish	Ballochmartin and Kames Bays are close by	Deltamethrin - highly toxic to aquatic	Langoustine/crab fishermen: cypermethrin	High number of wild swimmers, bathers,	Cypermethrin
J	farming will enter the local water course.	SSSIs with a variety of invertebrates that	organising and honey bees	is toxic to crustaceans, could impact fishing	sailing school boats, jet skiers, paddle	azamethiphos
	This will have an adverse impact on local	support bird life such cormorants, shags,	Cypermethrin - toxic to aquatic insects and	stocks directly or indirectly via aquatic	boarders, kayakers in the local waters, they	Deltamethrin
	sealife and the wildlife that feed in the	oystercatchers, lapwings and redshanks.	crustaceans	organisms that crustaceans feed on.	could become ill from swallowing waste	
	waters. In addition, the livelihoods of local	Dolphins, basking sharks, harbour porpoises,	Azamethiphos - highly toxic to birds and	High number of wild swimmers, bathers, jet	feed, fish faeces, insecticides	
	fishermen could be threatened if	seals, minke whales and otters also feed on	aquatic species	skiers, paddle boarders, kayakers in the local		
	langoustine stocks are affected. I've read	marine life and organisms in these waters.	Waste Feed	waters, they could become ill from		
	the modelling document and although the	Polluting the water/marine organisms with		swallowing waste feed, fish faeces,		
	concentrations are predicted to be low, it is	insecticides would have a disastrous effect		insecticides.		
	just that, a prediction, not fact. Better to be	on the whole food chain.				
	safe than sorry. Plus the wind data they were using was from Glasgow Airport, not					
	local to the area.					
7	Chemicals added to the water for lice	Seals will be discouraged, zooplankton will	CYPERMETHRIN AND DELTAMETHRIN both	Local fish stocks will be depleted, and sea	Tourism in general, natural history	CYPERMETHRIN AND DELTAMETHRIN both
,	prevention are carcinogenic and detrimental	be killed by some of the chemicals, thus	recognised carcinogens and AZMETHIPHOS	bed will be polluted, thus affecting	enthusiasts in particular. Fishermen.	recognised carcinogens and AZMETHIPHOS
	to the natural organisms in the sea. Seals	discouraging basking sharks and other	is a killer of plankton.	fishermen. Tourism will be affected due to	, and a second second	is a killer of plankton.
	will be discouraged from this area and	plankton eaters.		reduction of various sea mammals.		,
	surrounding areas. The concentrated	·		Mankind will be affected due to yet more		
	excreta from all these fish will pollute the			pollution as a result of man's detrimental		
	sea bed.			influences.		
8	The chemicals being used will impact the					
	wildlife and sea creatures					
9	I strongly object to this. It will destroy our					
	beautiful landscape amd kill off our marine					
	life.					

Tell us about why you think the applicati impact the water environment Q5 - op box one		Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open textbox three
Argyll and Bute Council Opinion respote the Dawnfresh 19/00233/SCRSCO screening/scoping application on the May 2019 This opinion from the ABCouncil state proposed fish farm is likely to give riss significant environmental effects" Fish faecal matter will affect water query 67 94 years, from 1904 until 31 Dece 1998, the sewage sludge from Glasgo shipped down the Clyde and dumped Garroch Head of the south of Bute. O SEPA website the water quality of the area around Arran, Bute and the Cumwas only moderate and the website cisewage as the reason. Only in the last several years has the water quality in area been upgraded to good. How car sensible to now allow three fish farms allow untreated faeces from tens of thousands of caged fish enter this fragarea? Dr Luxmore, who before retiring senior nature conservation officer at 1 National Trust Scotland said that one farm of the size proposed produces the sewage equivalent of a town twice the of Oban. With three farms proposed the mouth of the Clyde we would be allowing waste equivalent to that of 1 enter the waters. That is not acceptate No other form of farming would be allowing waste equivalent to that of 1 enter the waters. That is not acceptate No other form of farming would be allowing waste equivalent to that of 1 enter the waters and pollute the environm The idea that faeces and/or chemicals be dispersed is not an acceptable argudispersal does not equal disappearant simply means it will be moved somewelse. Use of highly toxic chemicals will affe other species in the area: The applicant plans to use azamethip cypermethrin, deltamethrin. These are highly toxic chemicals to the aquatic environment according to the Europec Chemicals Agency. They're utility in filice by causing the destruction of thei will also affect other crustaceans in the The South Bute site is already fished the and there is a young lobsterman who a CFA member who works that exact. For the Cumbrae applications, it seem ridiculous that £1.8m is being spent to reintroduce oysters, including placi	The otters that live and feed all around Bute but particularly those near Hawks Neb, photos of which can be seen on the Isle of Bute Facebook Group page, which are enjoyed by many The fishing grounds at Hawks Neb of the lobsterman and of members of the CFA The wild salmonids that are leaving/returning to their spawning grounds at the Endrick Water SAC The newly installed oysters at the Largs Yacht Marina and Fairlie Quay Marina The water quality of the general area due to faecal and food waste this it be to faecal and food waste this estimate is a size cross D5,000 let. owed als ent. will ment: e – it here there there there there there there there a of	The three bath treatment chemicals that have been mentioned in the CAR application – azamethiphos, cypermethrin, and deltamethrin Faecal waste from such a large number of fish for such an extended period of time I would like to say that in reading the application I am concerned overall by the slip shod science that has been used in producing the applications – this casts doubt upon any assertions Dawnfresh makes. In particular, I do not understand why we are consulting on information/data that was gathered almost three years ago. I do not understand why the required amount of current data gathering days is not met for South Bute – if there were difficulties due to weather or accidental dislodging due to another water user, surely it is up to Dawnfresh to spend the time and money to gather the appropriate amount of data. I do not understand why Glasgow airport wind data and Inverkip meteorological data is used in the modelling. Any of us who live in this area know that the winds and weather we face here are completely different to Inverkip and even more so to Glasgow airport. And after the ECCLR report in 2018 chastised SEPA for lack of oversight and SEPA reformed its application standards, why are these applications being allowed to use old data input to outdated modelling systems to submit this application?	I think it will cost some people part or all of their livelihood- and/or Clyde Fisherman Association members I think it will inhibit the success of the reintroduction of oysters to the area, a project that will improve the water quality rather than negatively impact it as the proposed fish farms would The proposed fish farms are directly in the highest use areas for kayaking, sailing and merchant navy activity so any of these users will be impacted. The Cumbrae farms would affect the livelihoods of all the charter companies that use the area for wildlife sight-seeing tours. Wild swimmers would lose a stretch of the Bute coastline for their swimming activities. Please refer to the Bute Outdoor Swimming Society FB group page (approx. 500 members) and see the swims that have taken place from Kilchattan Bayto Glencallum Bay. Also, there is currently no knowledge of the possible effects of the toxic bath treatments on humans, so again the precautionary principle should be applied. The newly established paddle boarding company on Bute would lose a stretch of coast line for its customers.	As above in 6A	The three bath treatment chemicals that have been mentioned in the CAR application – azamethiphos, cypermethrin, and deltamethrin Faecal waste from such a large number of fish for such an extended period of time As above, I again would like to say that in reading the application I am concerned overall by the slip shod science that has been used in producing the applications – this casts doubt upon any assertions Dawnfresh makes. In particular, I do not understand why we are consulting on information/data that was gathered almost three years ago. I do not understand why the required amount of current data gathering days is not met for South Bute – if there were difficulties due to weather or accidental dislodging due to another water user, surely it is up to Dawnfresh to spend the time and money to gather the appropriate amount of data. I do not understand why Glasgow airport wind data and Inverkip meteorological data is used in the modelling. Any of us who live in this area know that the winds and weather we face here are completely different to Inverkip and even more so to Glasgow airport. And after the ECCLR report in 2018 chastised SEPA for lack of oversight and SEPA reformed its application standards, why are these applications being allowed to use old data in put to outdated modelling systems to submit this application?

Tell us	about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will
impact	t the water environment Q5 - open text	impact the water environment Q5 - open text	impact the water environment Q5 - open text	impact on people who use the water	impact on people who use the water	impact on people who use the water
box on		box two	box three	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
	European protected species and SEPA					
	n obligation to apply the precautionary ple here to protect them. These will be					
	ed directly by absorbing the chemicals					
	are in the water at the time of					
	ments and indirectly through eating					
	ish that have been affected by the					
chemi						
	s own study in 2018 in Shetland					
	ed that chemical dispersion could be					
	than modelled as well as chemicals					
lasting	g longer than expected. Why should					
we bel	lieve this will not happen in the Clyde?					
https:/	//consultation.sepa.org.uk/sector-					
plan/f	finfishaquaculture/supporting_docume					
nts/Fis	sh%20Farm%20Survey%20Report.					
	oup will be created in the Clyde,					
	cting wild salmonids					
	ng 2500t of fish in an open cage will					
	up a concentration of lice which will be					
	rbated by the relatively close proximity					
	three proposed farms across the					
	nce of the Clyde. This will impact on					
	ild salmonids exiting and re-entering yde as they leave and return to their					
	ning grounds at the Endrick Waters, a					
	ean designated Special Area of					
	rvation. *The Scottish Government,					
	nus SEPA as its agent, is obliged to					
	ct these wild salmonid as they travel					
	gh Scottish waters. It has recently been					
_	lished that lice from fish farms can					
	ct wild salmonids and any doubt about					
	agnitude of such impact should be					
	cted to the precautionary principle and					
	oplication rejected.					
	e refer to this model for impact of lice					
from f	fish farms and thus the impact on the					
water	environment					
https:/	//vimeo.com/496948354					
The ch	hemicals will spread around the area	All species and habitats	All chemicals	Tourism will suffer as they won't want to go	Water sports and swimming	All chemicals
with th	he tide			into the water due to chemicals		

	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
12	Argyll and Bute Council Opinion response to	The otters that live and feed all around Bute	The three bath treatment chemicals that	I think it will cost some people part or all of	I think it will cost some people part or all of	The three bath treatment chemicals that
	the Dawnfresh 19/00233/SCRSCO	but particularly those near Hawks Neb,	have been mentioned in the CAR application	their livelihood- and/or Clyde Fisherman	their livelihood- and/or Clyde Fisherman	have been mentioned in the CAR application
	screening/scoping application on the 17	photos of which can be seen on the Isle of	– azamethiphos, cypermethrin, and	Association members	Association members	– azamethiphos, cypermethrin, and
	May 2019	Bute Facebook Group page, which are	deltamethrin	I think it will inhibit the success of the re-	I think it will inhibit the success of the re-	deltamethrin
	This opinion from the ABCouncil stated the	enjoyed by many	Faecal waste from such a large number of	introduction of oysters to the area, a project	introduction of oysters to the area, a project	Faecal waste from such a large number of
	proposed fish farm is likely to give rise "to	The fishing grounds at Hawks Neb of the	fish for such an extended period of time	that will improve the water quality rather	that will improve the water quality rather	fish for such an extended period of time
	significant environmental effects"	lobsterman and of members of the CFA	I would like to say that in reading the	than negatively impact it as the proposed	than negatively impact it as the proposed	As above, I again would like to say that in
	Fish faecal matter will affect water quality:	The wild salmonids that are	application I am concerned overall by the	fish farms would	fish farms would	reading the application I am concerned
	For 94 years, from 1904 until 31 December	leaving/returning to their spawning grounds	slip shod science that has been used in	The proposed fish farms are directly in the	The proposed fish farms are directly in the	overall by the slip shod science that has
	1998, the sewage sludge from Glasgow was	at the Endrick Water SAC	producing the applications – this casts doubt	highest use areas for kayaking, sailing and	highest use areas for kayaking, sailing and	been used in producing the applications –
	shipped down the Clyde and dumped at	The newly installed oysters at the Largs	upon any assertions Dawnfresh makes. In	merchant navy activity so any of these users	merchant navy activity so any of these users	this casts doubt upon any assertions
	Garroch Head of the south of Bute. On the	Yacht Marina and Fairlie Quay Marina	particular, I do not understand why we are	will be impacted.	will be impacted.	Dawnfresh makes. In particular, I do not
	SEPA website the water quality of the whole	The water quality of the general area due to	consulting on information/data that was	The Cumbrae farms would affect the	The Cumbrae farms would affect the	understand why we are consulting on
	area around Arran, Bute and the Cumbraes	faecal and food waste	gathered almost three years ago. I do not	livelihoods of all the charter companies that	livelihoods of all the charter companies that	information/data that was gathered almost
	was only moderate and the website cited		understand why the required amount of	use the area for wildlife sight-seeing tours.	use the area for wildlife sight-seeing tours.	three years ago. I do not understand why
	sewage as the reason. Only in the last		current data gathering days is not met for	Wild swimmers would lose a stretch of the	Wild swimmers would lose a stretch of the	the required amount of current data
	several years has the water quality in this		South Bute – if there were difficulties due to	Bute coastline for their swimming activities.	Bute coastline for their swimming activities.	gathering days is not met for South Bute – if
	area been upgraded to good. How can it be		weather or accidental dislodging due to	Please refer to the Bute Outdoor Swimming	Please refer to the Bute Outdoor Swimming	there were difficulties due to weather or
	sensible to now allow three fish farms to		another water user, surely it is up to	Society FB group page (approx. 500	Society FB group page (approx. 500	accidental dislodging due to another water
	allow untreated faeces from tens of		Dawnfresh to spend the time and money to	members) and see the swims that have	members) and see the swims that have	user, surely it is up to Dawnfresh to spend
	thousands of caged fish enter this fragile		gather the appropriate amount of data. I do	taken place from Kilchattan Bay to	taken place from Kilchattan Bay to	the time and money to gather the
	area? Dr Luxmore, who before retiring was		not understand why Glasgow airport wind	Glencallum Bay. Also, there is currently no	Glencallum Bay. Also, there is currently no	appropriate amount of data. I do not
	senior nature conservation officer at the		data and Inverkip meteorological data is	knowledge of the possible effects of the	knowledge of the possible effects of the	understand why Glasgow airport wind data
	National Trust Scotland said that one fish		used in the modelling. Any of us who live in	toxic bath treatments on humans, so again	toxic bath treatments on humans, so again	and Inverkip meteorological data is used in
	farm of the size proposed produces the		this area know that the winds and weather	the precautionary principle should be	the precautionary principle should be	the modelling. Any of us who live in this area
	sewage equivalent of a town twice the size		we face here are completely different to	applied.	applied.	know that the winds and weather we face
	of Oban. With three farms proposed across		Inverkip and even more so to Glasgow	The newly established paddle boarding	The newly established paddle boarding	here are completely different to Inverkip
	the mouth of the Clyde we would be		airport. And after the ECCLR report in 2018	company on Bute would lose a stretch of	company on Bute would lose a stretch of	and even more so to Glasgow airport. And
	allowing waste equivalent to that of 105,000		chastised SEPA for lack of oversight and	coast line for its customers.	coast line for its customers.	after the ECCLR report in 2018 chastised
	enter the waters. That is not acceptable.		SEPA reformed its application standards,			SEPA for lack of oversight and SEPA
	No other form of farming would be allowed		why are these applications being allowed to			reformed its application standards, why are
	to let the untreated waste of its animals freely enter and pollute the environment.		use old data input to outdated modelling			these applications being allowed to use old data in put to outdated modelling systems
	The idea that faeces and/or chemicals will		systems to submit this application?			to submit this application?
	be dispersed is not an acceptable argument:					to submit this application:
	dispersal does not equal disappearance – it					
	simply means it will be moved somewhere					
	else.					
	Use of highly toxic chemicals will affect					
	other species in the area:					
	The applicant plans to use, cypermethrin,					
	deltamethrin. These are all highly toxic					
	chemicals to the aquatic environment					
	according to the European Chemicals					
	Agency. They're utility in fighting lice by					
	causing the destruction of their shells will					
	also affect other crustaceans in the area.					
	The South Bute site is already fished by CFA					
	and there is a young lobsterman who is not					
	a CFA member who works that exact area.					
1	For the Cumbrae applications, it seems					
1	ridiculous that £1.8m is being spent to					
1	reintroduce oysters, including placing 1300					
	in the Largs Yacht Haven and Fairlie Quay					
1	Marina, and then fish farms will be					
	introduced adjacent to these sites so that					
	these toxic chemicals will impact those					
	oysters. The oysters are touted as purifiers of water and a boon to the environment but					
	if these neuro toxins affect them the money					
	and project overall will be in vain.					
1	*There are otters that swim in the area of					
	the proposed South Bute fish farm. Otters					
L	the proposed south bute histilanii. Ottels	1	<u>l</u>		1	

Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will
impact the water environment Q5 - open text box one	impact the water environment Q5 - open text box two	impact the water environment Q5 - open text box three	impact on people who use the water environment Q6 - open textbox one	impact on people who use the water environment Q6 open comment box two	impact on people who use the water environment Q6 - open text box three
are a European protected species and SEPA	JOA LWO	NOT THE	Charlonnient Qu - open textbox one	charlonnent - Qu open comment box two	Chandinent - Qu-open textbox timee
has an obligation to apply the precautionary					
principle here to protect them. These will be					
affected directly by absorbing the chemicals					
if they are in the water at the time of					
treatments and indirectly through eating					
shellfish that have been affected by the					
chemicals.					
SEPAs own study in 2018 in Shetland showed that chemical dispersion could be					
wider than modelled as well as chemicals					
lasting longer than expected. Why should					
we believe this will not happen in the Clyde?					
https://consultation.sepa.org.uk/sector-					
plan/finfishaquaculture/supporting_docume					
nts/Fish%20Farm%20Survey%20Report.					
Lice soup will be created in the Clyde,					
impacting wild salmonids					
Holding 2500t of fish in an open cage will					
build up a concentration of lice which will be					
exacerbated by the relatively close proximity					
of the three proposed farms across the					
entrance of the Clyde. This will impact on					
the wild salmonids exiting and re-entering the Clyde as they leave and return to their					
spawning grounds at the Endrick Waters, a					
European designated Special Area of					
Conservation. *The Scottish Government,					
and thus SEPA as its agent, is obliged to					
protect these wild salmonid as they travel					
through Scottish waters. It has recently been					
established that lice from fish farms can					
impact wild salmonids and any doubt about					
the magnitude of such impact should be					
subjected to the precautionary principle and					
this application rejected.					
Please refer to this model for impact of lice					
from fish farms and thus the impact on the					
water environment https://vimeo.com/496948354					
13 As per Argyll and Bute Council Opinion	The otters that live and feed all around Bute	All chemicals and their potential impact.	I think it will cost some people part or all of	As above	The three bath treatment chemicals that
response to the Dawnfresh	but particularly those near Hawks Neb,	The three bath treatment chemicals that	their livelihood- and/or Clyde Fisherman	7.5 4.5670	have been mentioned in the CAR application
19/00233/SCRSCO screening/scoping	photos of which can be seen on the Isle of	have been mentioned in the CAR application	Association members		 azamethiphos, cypermethrin, and
application on the 17 May 2019 I believe	Bute Facebook Group page, which are	– azamethiphos, cypermethrin, and	I think it will inhibit the success of the re-		deltamethrin
that the proposed fish farm is likely to give	enjoyed by many	deltamethrin	introduction of oysters to the area, a project		Faecal waste from such a large number of
rise "to significant environmental effects"	The fishing grounds at Hawks Neb of the	Faecal waste from such a large number of	that will improve the water quality rather		fish for such an extended period of time
that will not be recoverable.	lobsterman and of members of the CFA	fish for such an extended period of time	than negatively impact it as the proposed		As above, I again would like to say that in
	The wild salmonids that are	I would like to say that in reading the	fish farms would		reading the application I am concerned
	leaving/returning to their spawning grounds	application I am concerned overall by the	The proposed fish farms are directly in the		overall by the slip shod science that has
	at the Endrick Water SAC	slip shod science that has been used in	highest use areas for kayaking, sailing and		been used in producing the applications –
	The newly installed oysters at the Largs	producing the applications – this casts doubt	merchant navy activity so any of these users		this casts doubt upon any assertions
	Yacht Marina and Fairlie Quay Marina The water quality of the general area due to	upon any assertions Dawnfresh makes. In particular, I do not understand why we are	will be impacted. The Cumbrae farms would affect the		Dawnfresh makes. In particular, I do not understand why we are consulting on
	faecal and food waste	consulting on information/data that was	livelihoods of all the charter companies that		information/data that was gathered almost
	Taccarana rood waste	gathered almost three years ago. I do not	use the area for wildlife sight-seeing tours.		three years ago. I do not understand why
		understand why the required amount of	Wild swimmers would lose a stretch of the		the required amount of current data
		current data gathering days is not met for	Bute coastline for their swimming activities.		gathering days is not met for South Bute – if
		South Bute – if there were difficulties due to	Please refer to the Bute Outdoor Swimming		there were difficulties due to weather or
		weather or accidental dislodging due to	Society FB group page (approx. 500		accidental dislodging due to another water
		another water user, surely it is up to	members) and see the swims that have		user, surely it is up to Dawnfresh to spend
		Dawnfresh to spend the time and money to	taken place from Kilchattan Bayto		the time and money to gather the
		gather the appropriate amount of data. I do	Glencallum Bay. Also, there is currently no		appropriate amount of data. I do not
		not understand why Glasgow airport wind	knowledge of the possible effects of the		understand why Glasgow airport wind data

	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
			data and Inverkip meteorological data is used in the modelling. Any of us who live in this area know that the winds and weather we face here are completely different to Inverkip and even more so to Glasgow airport. And after the ECCLR report in 2018 chastised SEPA for lack of oversight and SEPA reformed its application standards, why are these applications being allowed to use old data input to outdated modelling systems to submit this application?	toxic bath treatments on humans, so again the precautionary principle should be applied. The newly established paddle boarding company on Bute would lose a stretch of coast line for its customers.	Charles and Charle	and Inverkip meteorological data is used in the modelling. Any of us who live in this area know that the winds and weather we face here are completely different to Inverkip and even more so to Glasgow airport. And after the ECCLR report in 2018 chastised SEPA for lack of oversight and SEPA reformed its application standards, why are these applications being allowed to use old data in put to outdated modelling systems to submit this application?
14	This application is only a short distance away from the application for a fish farm near Bute, that is too many fish farms with their potention pollution of the water in one area.	Seals, otters, oystercatchers and many other seabirds live in the area. It is used as fishing grounds for the Gannets from Ailsa Craig. It will be a negative visual impact for any one walking, sailing, swimming in the area. A fish farm is not a thing of natural beauty, which will be an obstruction which will have to be avoided as I am sure the owners will not like anyone passing close to their fish farm.	Fish farms are by their very nature pens with many fish living in close company, which according to modern methods will need all kinds of medication and/or hormones which will eventually enter the water of the Clyde. Fish farms have also been known to use audio signals to keep seals away, causing distress.	The area depends rather heavily on tourism and any developments which will cause a negative impact are not really desirable. Fish farms do not employ many people, the fish does not get processed locally, so there are really no positive advantages to have a fish farm in the area, only negative ones. Pollution, in the form of water pollution, visual pollution and added traffic on the roads as the fish will have to be taken to the factory for processing somewhere.	Sswimmers, leisure fishermen, birdwatchers, walkers, sailers, kayakers, paddle boarders and anyone else in the area and/or on the banks of the Clyde will all be negatively impacted by this development. Including the roads as the fish, when ready to be processed, will have to be taken to the factory by lorry.	As I said before, a lot of fish together will add pollution, as well as whatever medication is used, it will all end up in the river. Farmers have been working hard to stop any pollution reaching streams, rivers and the sea. There have been cases of fines for these offences, so why allow in the 21st century a fish farm with all its possible pollution in an area which will have no economic benefit or any other benefit from it.
15	This proposal from Dawnfresh three more fish farms at the in this small area of the Firth of Clyde will bring a negative environmental change to the waters and to extensive marine life in the area. The company plan to use highly toxic chemicals, Azamethiphos, Cypermethrin and Deltamethrin, which have an adverse effect on marine life and, with two of the chemicals having a carcinogenic compound, this will make its way into the marine life and humans alike.	The waters are home to the Common Grey Seals, Otters, Porpoises, Whales, Basking Sharks and many other smaller marine life. Otters are strictly protected by the Wildlife and Countryside Act of 1981.	Azamethiphos, Cypermethrin and Deltamethrin, which have an adverse effect on marine life and, with two of the chemicals having a carcinogenic effect on humans	Open water swimmers, paddle boarding and all those who partake in other water sports, together with those who use the beaches for recreation, children playing and dogs swimming	See above	Azamethiphos, Cypermethrin and Deltamethrin and the large volume of faecal matter
16	Fish food and fecal matter are known pollutants and the modelling shows impact around the whole coastal area. The chemical dosing is very concerning resulting in carcinogenic chemicals that impact zooplankton being dispersed along the coast. I think we need to ask ourselves if our desire to eat chemically dosed fish or drive business growth is worth the absolute impact this will cause to the marine environment. Although I have seen modelling, I have not seen a comprehensive impact assessment of this on SSSI, marine food chain, long term chemical imbalance of the water on local nature. We have to stop this!!	I'm worried about the whole marine environment and food chain, from algae onwards. Seagrass, shellfish, ultimately to marine mammals.	The food and fecal waste along with the lice chemicals. Highly toxic to marine life and known carcinogenic.	Wild swimming, paddle boarding, sailing. All increasingly popular and many more people using the coastal area. What is the incremental impact of regular sea bathers? Skin as well as potential ingestion.		Lice chemicals and pollution from food and feces

	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
17	it is understood from looking at the	Clearly the recently announced intention to	As this pro forma offers no flexibility for	The toxic chemicals employed in intensive	The Clyde islands concerned in the three	Azamethiphos, an organophosphate, a
17	screening / scoping response from Argyll	establish oyster beds at Fairlie Quay and	introducing other comments outside the	industrial salmon and sea trout fish farming	development proposals from Dawnfresh	chemical group of pesticides well known
	and Bute Council relating to the Dawnfresh	Largs Marina would be a major source of	two questions asked I am raising additional	to keep diseases and pests at bay and also	have for many decades been popular with	throughout on-land agriculture as
	proposal for South Bute that benthic surveys	concern that in future chemicals release in	points here	the excreted wastes, mainly faeces are all	day trippers and holiday visitors who take to	carcinogens. This chemical is included in the
	exist for that site and have been submitted	this confined area of the Clyde Estuary from	points nere	released untreated into the marine	the beaches and shores for recreation	chemicals listed in the SEPA CAR application
	to SEPA but such information has not been	all three Dawnfresh developments would	1. It is inappropriate that the CAR	environment and dispersed widely in	including sea bathing, kayaking and boating.	form but its dispersion characteristics are
	made available within this consultation for	put this oyster project at considerable risk of	application is supported by outdated	confined areas of sea raising issues of public	These locations more than most in the West	not recorded along with other chemicals in
	Little Cumbrae. Neither is there any	failure	evaluation processes and supporting	health for those who come into contact with	of Scotland will bring large numbers of	the Xodus hydrographics report. Is this
	reference to benthic survey work in the		documentation dating back to the original	this pollution	people in contact with toxic chemicals and	because concentrations arriving on the
	screening / scoping conducted by North Ayrshire Council planners. How can the		submission in late 2018. I am referring specifically the use of AUTODEPOMOD and		contaminated organic wastes.	shores of Greater Cumbrae around Millport Bay present an unacceptable risk to bathers
	public comment on the quality and richness		guidelines including the acquisition of site		Although the north west coast of Little	and other recreational water users as
	of this substrate and what damage might be		conditions, water column hydrology etc		Cumbrae is not frequently visited dispersion	appears to be the case with deltamethrin?
	done by both chemical treatments and		which are now recognised as inadequate or		modelling would suggest that there is a	appears to be the case with deltametimin.
	solids discharge and deposition if there is no		flawed and now replaced in the application		serious risk of human contact with water	Overall, and in particular taking into account
	reference to this important baseline study		process by a new evaluation model coupled		contamination in Millport Bayon Greater	what appears from the patchwork of
	component		with more stringent data requirements		Cumbrae	technically compromised briefing material
			including hydrographical survey work using			made available for public consultation, my
	It is also clear from this same		recognised methodology.			view is that SEPA would be well advised to
	screening/scoping exercise that SEPA has					turn down the licence application on this
	asked for information on nitrogen and		2. There is no explanation for the time lapse,			occasion and ask the company to reapply
	phosphorus containing substances that		only a more recent hydrography report			this time with a new set of documents
	would emanate from the development		employing a DELFT3D model with little or no			designed to meet the need of the regulator
	proposed. There is no indication in the reports supporting the application that		description of the model construction or the data inputs to back up the dispersion and			as specified in the latest sectoral guidance.
	provides any perspective on either		deposition situation. Neither is there any			
	quantities or level of risk of enhancement of		more convincing discussion of the results			
	eutrophication taking into account existing		related to SEPA's own specifically defined			
	levels of these plankton bloom promoting		objectives regarding sea bed diversity			
	elements in waters with already elevated		condition or environmental quality			
	levels of these elements.		standards making it impossible to verify the			
			findings.			
			3. The three Dawnfresh developments are in			
			close proximity and cumulative assessment			
			of environmental impact is an important			
			aspect that justifies evaluation. Apparently			
			no study of this kind has either been			
			conducted or even required at this stage by			
			SEPA, a serious omission in the permitting			
			process.			
			4. The proximity of all three development			
			proposals introduces a heightened risk of			
			spreading of disease vectors and infestation			
			throughout the linked operations by natural			
			transmission pathways and by human			
			contact with service vessels and personnel.			
			The low stocking density will help but there is no evidence provided that suggests SEPA			
			has thought to engage with the company in			
			examining how the hydrodynamic			
			characteristics around these clustered Clyde			
			islands could promote such adverse			
			interactions. Specifically this same			
			proximity could result in a continuous			
			barrier of potential infection stretching			
			across the very important wild salmon			
			migration route to Loch Lomond and the			
			Endrick catchment, sea lice population			
			growth within the sea-trout cages being a			
			crucial risk. SEPA as the guardian of water			
			quality needs to play its part in removing or			

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Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
		preventing this risk becoming a reality in its			
		evaluation of any relevant strategy yet to be			
		published by the company			
		5. Stocking density figures presented in the			
		Biomass Modelling Report are inconsistent			
		and the outcome regarding maximum			
		biomass at this site would suggest that the low recorded current and water movement			
		velocity would result in poor dispersion and			
		therefore render the site inappropriate.			
		the ere remain the end mappings and			
I					
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	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
18	The water environment would be polluted	According to the website of the owners of	Faecal waste from such a large concentrated	It will impact on the livelihoods of the boat	My comments to this question are the same	Cypermethrin, deltamethrin, azamethiphos,
	by high concentrations of fish faecal matter,	Little Cumbrae, there are over 75 species of	quantity of fish over a long period of time is	charter companies which do wildlife sight-	as to the above question - please see my	faecal waste, food waste, fish lice,
	food waste, dead fish, concentrated lice	birds that nest on Little Cumbrae, many of	harmful to the marine environment.	seeing tours around the coast of Little	comments above - tourism, oyster farming,	
	infestation which will impact on the wild	them rare and endangered species including		Cumbrae and will impact on future tourism	peaceful island retreat, boating, kayaking,	
	salmonids which travel in and out of the	the Cormorants at Cormorant Perch.	The three bath treatment chemicals -	to the area and the island because they	marine traffic, swimming, wildlife watching,	
	Clyde to their spawning grounds at the	Harbour Porpoises and Dolphins are	Cypermethrin, deltamethrin, and	want to come to see nature and history, not	preserving the natural environment, and the	
	Endrick Waters, a European designated	regularly spotted in the upper reaches of the	azamethiphos are all environmental	fish farms with their noise and feed boats	economy of Millport.	
	Special Area of Conservation, the highly	firth and in summer 2009, a new baby	hazards, very toxic to aquatic life with long	and equipment.		
	toxic chemicals, Cypermethrin, deltamethrin	dolphin was welcomed to the Firth. Basking	lasting effects, and acute hazards to the			
	and azamethiphos, which are detrimental	sharks are also living within the Firth in small	aquatic environment, as well as long-term	It will impact on the owners of Little		
	and very toxic to aquatic life with long lasting effects, and acute hazards to the	numbers and are occasionally seen along with the elusive but present Minke whale.	hazards. Cypermethrin is a possible human carcinogen. As well as the potential health	Cumbrae who have plans to use it as a meditation retreat.		
	aquatic environment , as well as long-term	with the elusive but present willike whale.	risks of consuming fish which have been	meditation retreat.		
	hazards. Cypermethrin is a possible human	The wild salmonids which leave and return	treated with these chemicals, there is actual	It will impact on the people who have begun		
	carcinogen and reduces zooplankton density	to their spawning grounds at the Endrick	danger to the marine environment and	raising oysters on the nearby mainland in		
	and biodiversity. Dawnfresh claim that a six	Water SAC will be impacted by the	aquatic life which live and/or feed in the	Largs and Fairlie where the dispersion of the		
	week rest period after farming for 22.5	concentration of lice around the farm pens	waters. Cypermethrin also reduces	chemicals will end up based on the		
	months will recover the environment from	and from escapees which will transfer lice	zooplankton density and biodiversity.	dispersion modelling, which will be harmful		
	the drugs, faecal waste and food waste from	and also breed with the wild fish and		to the health and success of the oysters.		
	4,875 tonnes of food per year producing	causing genetic changes and weakening of				
	2,500,00kg of fish stock. That does not	the species.		The proposed farms are directly in the		
	seem probable or even possible. Even if all the waste is dispersed, it does not disappear	The cumulative effects of the dispersion of		highest use areas for kayaking, sailing and merchant navy and all other marine traffic in		
	- it will have moved elsewhere causing	the pharmaceutical treatments from all		the Clyde. Therefore it will impact on all of		
	detrimental impact elsewhere.	three proposed fish farms will have		those people who travel through this area		
		detrimental effect on the mainland coastal		for recreational, military, or economic		
		environment where there are newly		reasons.		
		installed oysters being bred and raised at				
		Largs Yacht Marina and Fairlie Quay Marina.		The dispersion modelling for the chemical		
				treatments on Little Cumbrae will have a		
		The water quality for any and all aquatic life		very serious detrimental effect on the		
		in the area will be harmed by the faecal and food waste.		residents and visitors to Great Cumbrae. The modelling report shows that all of the		
		rood waste.		treatments of highly toxic chemicals from		
				Little Cumbrae will land directly into		
				Newtown Bay and Kames Bay at Millport.		
				Kames Bay has been recognised as a Site of		
				Special Scientific Interest (SSSI) by Scottish		
				Natural Heritage, for its educational value		
				especially. As such it is illegal to damage the		
				integrity of this beach. Kames Bay is special		
				in having a source of freshwater upwelling from beneath it (hence why the sand is		
				always wet, even when it is not raining!)		
				caused by drainage down the Great		
				Cumbrae Fault (which is responsible for the		
				valley up which the Ferry Road runs). That		
				effectively creates an estuarine character to		
				the biota of this marine beach, probably a		
				unique feature in Britain. It is actually		
				shocking to me that Dawnfresh would even		
				consider this farm when their own		
				modelling shows that all of the toxic chemicals will land directly in this bay! This		
				is an area that is extremely popular with		
				Cumbrae residents and visitors for paddling,		
				wading and swimming and fishing. The bays		
				surrounding Millport are the lifeblood of the		
				economy of the Isle of Cumbrae. If the farm		
				at Little Cumbrae is permitted, the owners		
				of Dawnfresh will have destroyed the economy and future of. Millport and		
				therefore the entire Isle of Cumbrae, as well		

Tell us about why you think the application wil impact the water environment Q5 - opentex box one	t impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment O6 - open text box one	Tell us about why you think the application will impact on people who use the water environment O6 open comment box two	Tell us about why you think the application will impact on people who use the water environment O6 - open text box three
box one	boxtwo	box three	as the value of the property of Little Cumbrae to its owners and any possible future owners.	environment Q6 open comment box two	environment Q6 - open textbox three
Pollution under the farms and surrounding area due to tonnes of fish excrement and chemicals used to treat the fish in the nets also are not good for the water quality and certainly not good for anything living close to the area infected.	lice infections ever in wild fish in Loch Etive. A year later, in 2016 the Argyll District Salmon Fishery Board reported that it could not catch ANY sea trout to sample. This was followed by a very poor grilse run in 2016 and 2017 which was the worst recorded run on the Awe by a considerable margin. HOW ELSE CAN ONE MEASURE THIS! It is common sence that if you pour chemicals into the water or have it in fish food which is excreted, it is not natural and can not be good for any living creature anywhere near, I know it has been said that sea lice can travel 20 miles from these fish cages - I suppose the chemicals are probably	Any chemical is bad for the environment, but you have to add benthic pollution (uneaten fish feed, faeces, and general detritus.)	It has to impact on divers, creel fishers and any type of sport anywhere close. Divers - as no fish will be close by Creel fishers - all crustations will die Sport - the smell will put people off.		one should be very wary of ALL chemicals! Unfortunately there is nothing in this consultation to say anything about Dawnfresh, they have failed routine benthic surveys often, had a very mixed bag of results in SEPAs Compliance Assesment Scheme (CAS) had breaches of planning permission etc!
This development will adversely affect the marine environment and is not acceptable this local community area.	worse.		This development will impact safe navigation of the local very busy sailing and water sports area.	Sailing	

i	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open textbox three
21	Argyll and Bute Council Opinion response to the Dawnfresh 19/00233/SCRSCO screening/scoping application on the 17 May 2019 This opinion from the ABCouncil stated the proposed fish farm is likely to give rise "to significant environmental effects" Fish faecal matter will affect water quality: For 94 years, from 1904 until 31 December 1998, the sewage sludge from Glasgow was shipped down the Clyde and dumped at Garroch Head of the south of Bute. On the SEPA website the water quality of the whole area around Arran, Bute and the Cumbraes was only moderate and the website cited sewage as the reason. Only in the last several years has the water quality in this area been upgraded to good. How can it be sensible to now allow three fish farms to allow untreated faeces from tens of thousands of caged fish enter this fragile area? Dr Luxmore, who before retiring was senior nature conservation officer at the National Trust Scotland said that one fish farm of the size proposed produces the sewage equivalent of a town twice the size of Oban. With three farms proposed across the mouth of the Clyde we would be allowing waste equivalent to that of 105,000 enter the waters. That is not acceptable. No other form of farming would be allowed to let the untreated waste of its animals freely enter and pollute the environment. The idea that faeces and/or chemicals will be dispersed is not an acceptable argument: dispersal does not equal disappearance — it simply means it will be moved somewhere else. Use of highly toxic chemicals will affect other species in the area: The applicant plans to use azamethiphos, cypermethrin, deltamethrin. These are all highly toxic chemicals to the aquatic environment according to the European Chemicals Agency. They're utilityin fighting lice by causing the destruction of their shells will also affect other crustaceans in the area. The South Bute site is already fished by CFA and there is a young lobsterman who is not a CFA member who works that exact area. For the Cumbrae applications, it seems ridicul	The otters that live and feed all around Bute but particularly those near Hawks Neb, photos of which can be seen on the Isle of Bute Facebook Group page, which are enjoyed by many The fishing grounds at Hawks Neb of the lobsterman and of members of the CFA The wild salmonids that are leaving/returning to their spawning grounds at the Endrick Water SAC The newly installed oysters at the Largs Yacht Marina and Fairlie Quay Marina The water quality of the general area due to faecal and food waste	The three bath treatment chemicals that have been mentioned in the CAR application – azamethiphos, cypermethrin, and deltamethrin Faecal waste from such a large number of fish for such an extended period of time I would like to say that in reading the application I am concerned overall by the slip shod science that has been used in producing the applications – this casts doubt upon any assertions Dawnfresh makes. In particular, I do not understand why we are consulting on information/data that was gathered almost three years ago. I do not understand why the required amount of current data gathering days is not met for South Bute – if there were difficulties due to weather or accidental dislodging due to another water user, surely it is up to Dawnfresh to spend the time and money to gather the appropriate amount of data. I do not understand why Glasgow airport wind data and Inverkip meteorological data is used in the modelling. Any of us who live in this area know that the winds and weather we face here are completely different to Inverkip and even more so to Glasgow airport. And after the ECCLR report in 2018 chastised SEPA for lack of oversight and SEPA reformed its application standards, why are these applications being allowed to use old data input to outdated modelling systems to submit this application?	I think it will cost some people part or all of their livelihood- and/or Clyde Fisherman Association members I think it will inhibit the success of the reintroduction of oysters to the area, a project that will improve the water quality rather than negatively impact it as the proposed fish farms would The proposed fish farms are directly in the highest use areas for kayaking, sailing and merchant navy activity so any of these users will be impacted. The Cumbrae farms would affect the livelihoods of all the charter companies that use the area for wildlife sight-seeing tours. Wild swimmers would lose a stretch of the Bute coastline for their swimming activities. Please refer to the Bute Outdoor Swimming Society FB group page (approx. 500 members) and see the swims that have taken place from Kilchattan Bayto Glencallum Bay. Also, there is currently no knowledge of the possible effects of the toxic bath treatments on humans, so again the precautionary principle should be applied. The newly established paddle boarding company on Bute would lose a stretch of coast line for its customers.	As above in 6A	The three bath treatment chemicals that have been mentioned in the CAR application – azamethiphos, cypermethrin, and deltamethrin Faecal waste from such a large number of fish for such an extended period of time As above, I again would like to say that in reading the application I am concerned overall by the slip shod science that has been used in producing the applications – this casts doubt upon any assertions Dawnfresh makes. In particular, I do not understand why we are consulting on information/data that was gathered almost three years ago. I do not understand why the required amount of current data gathering days is not met for South Bute – if there were difficulties due to weather or accidental dislodging due to another water user, surely it is up to Dawnfresh to spend the time and money to gather the appropriate amount of data. I do not understand why Glasgow airport wind data and Inverkip meteorological data is used in the modelling. Any of us who live in this area know that the winds and weather we face here are completely different to Inverkip and even more so to Glasgow airport. And after the ECCLR report in 2018 chastised SEPA for lack of oversight and SEPA reformed its application standards, why are these applications being allowed to use old data in put to outdated modelling systems to submit this application?

	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact on people who use the water	Tell us about why you think the application will impact on people who use the water	Tell us about why you think the application will impact on people who use the water
	box one	box two	box three	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
	are a European protected species and SEPA					
	has an obligation to apply the precautionary					
	principle here to protect them. These will be					
	affected directly by absorbing the chemicals					
	if they are in the water at the time of					
	treatments and indirectly through eating shellfish that have been affected by the					
	chemicals.					
	SEPAs own study in 2018 in Shetland					
	showed that chemical dispersion could be					
	wider than modelled as well as chemicals					
	lasting longer than expected. Why should					
	we believe this will not happen in the Clyde?					
	https://consultation.sepa.org.uk/sector-					
	plan/finfishaquaculture/supporting_docume					
	nts/Fish%20Farm%20Survey%20Report.					
	Lice soup will be created in the Clyde,					
	impacting wild salmonids					
	Holding 2500t of fish in an open cage will					
	build up a concentration of lice which will be					
	exacerbated by the relatively close proximity					
	of the three proposed farms across the					
	entrance of the Clyde. This will impact on					
	the wild salmonids exiting and re-entering					
	the Clyde as they leave and return to their					
	spawning grounds at the Endrick Waters, a					
	European designated Special Area of					
	Conservation. *The Scottish Government,					
	and thus SEPA as its agent, is obliged to					
	protect these wild salmonid as they travel					
	through Scottish waters. It has recently been					
	established that lice from fish farms can					
	impact wild salmonids and any doubt about					
	the magnitude of such impact should be					
	subjected to the precautionary principle and					
	this application rejected.					
	Please refer to this model for impact of lice					
	from fish farms and thus the impact on the					
	water environment					
	https://vimeo.com/496948354					
22	Any fish farm located in the Firth of Clyde	Any chemical is an alien substance to the	Migratory fish is decreasing sharply and one	Withy covid we have had an increase of	There should not be any chemical in the sea.	
	will create a localised concentration of	sea; chemicals should not be discharged into	of the causes is pollution.	people doing water sports. We need a clean	Unfortunately the sea is already polluted by	
	waste alonf the coastline, similar to sewage	the water. The water are already	SEPA should help to improve the water	sea for the swimmers I see every morning	fuel, oil, plastic etc. so we must limit the	
	waste, and chemical pollution. This will have	contaminated by fuel, oils, plastic, inland farm animal waste	quality and to do so SEPA should block all	(also in the winter) along the Prestwick	damage and to do so I hope SEPA will block	
	long term impact on the sea flora and fauna.	i aiiii alliiilai waste	those projects.	beach, and for the people doing paddle	the craetion of those trout farms. Trout	
	The Firth of Clyde is already polluted by rivers, especially the Ayrshire rivers, due to			boarding, kayaking, surfing etc. It is time to	farms and salmon farms should be built on	
				priority to the environment and not to those	inland like they rae already doing in Norway,	
	the inland farms, so we do not need to make			who want to exploit the environment, by	Debmark and the U.S.	
	it the situation worse.			making money and polluting the sea.		
	_					
	the problem is pollution.					
	There's an undeniable decreasing number of migratory fish entreing the rivers and part of			making money and polluting the sea.		

	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
23	The impact on the water environment under these applications could easily be a disaster Highly toxic chemicals, which are used to treat the fish in open pens, will be dumped into the water. These chemicals do not 'disperse' as is suggested. Proposals are based on weather information irrelevant to Little Cumbrae. On Thursday 21st May I had great difficulty standing upright on the shore due to the gale force southerly winds howling through. A fish farm at Little Combrae would have problems surviving without damage on such a day — damage resulting in escaped fish infected by sea lice. These fish will in turn infect the wild species. The ferries from Rothesay to Weymss Bay managed to run to schedule on that same day. They were only seven miles away but obviously operating in a considerably different weather conditions How can these applications be taken seriously when they use weather data from Inverkip, 9 miles away and Glasgow airport 25 miles away? This makes weather data on the proposals	Species that depend the clean water they currently enjoy will disappear. Pollution by chemicals and fish faeces will mean seals, otters, dolphins, whales and other aquatic life will disappear	The chemicals listed, Azamethiphos, Cypermethrin and Deltamethrin, are long lasting and highly toxic. An even more important fact is that two of them are carcinogenic, endangering human life These will pollute the whole width of the Clyde estuary in this area. So the coastline of Ayr, the two Cumbraes and Bute will all be no go areas at the affected stretches. This means a barrier is formed and no aquatic life, including wild salmon, will get through to the upper reaches of the Clyde.	The beaches will become no go areas, unsafe for all the current recreational activities. No children playing in rock pools, building sand castles and paddling, swimmers or surfers, canoes or dinghies, sailing boats, water scooters etc. All fishing will be affected, including scallops, lobsters, crabs, mussels and other crustaceans.	All activities in the surrounding waters [see above] will be endangered	Azamethiphos, Cypermethrin and Deltamethrin – all highly toxic Fish faeces in vast quantities
	irrelevant and a nonstarter.					

	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will
	impact the water environment Q5 - open text box one	impact the water environment Q5 - open text box two	impact the water environment Q5 - open text box three	impact on people who use the water environment Q6 - open textbox one	impact on people who use the water environment Q6 open comment box two	impact on people who use the water environment Q6 - open text box three
24	For 94 years, from 1904 until 31 December	The wild salmonids that are	The three bath treatment chemicals that	I think it will inhibit the success of the re-	I think it will inhibit the success of the re-	The three bath treatment chemicals that
	1998, the sewage sludge from Glasgow was	leaving/returning to their spawning grounds	have been mentioned in the CAR application	introduction of oysters to the area, a project	introduction of oysters to the area, a project	have been mentioned in the CAR application
	shipped down the Clyde and dumped at	at the Endrick Water SAC	– azamethiphos, cypermethrin, and	that will improve the water quality rather	that will improve the water quality rather	 azamethiphos, cypermethrin, and
	Garroch Head of the south of Bute. On the	The newly installed oysters at the Largs	deltamethrin	than negatively impact it as the proposed	than negatively impact it as the proposed	deltamethrin
	SEPA website the water quality of the whole	Yacht Marina and Fairlie Quay Marina	Faecal waste from such a large number of	fish farms would	fish farms would	Faecal waste from such a large number of
	area around Arran, Bute and the Cumbraes	The water quality of the general area due to	fish for such an extended period of time	The proposed fish farms are directly in the	The proposed fish farms are directly in the	fish for such an extended period of time
	was only moderate and the website cited	faecal and food waste.	I would like to say that in reading the	highest use areas for kayaking, sailing,	highest use areas for kayaking, sailing,	As above, I again would like to say that in
	sewage as the reason. Only in the last	The seal population at Millport Bay who will	application I am concerned overall by the	coastal rowing, sea fishing and merchant	coastal rowing and merchant navy activity	reading the application I am concerned
	several years has the water quality in this	be shot as predators because they will see	slip shod science that has been used in	navy activity so any of these users will be	so any of these users will be impacted.	overall by the slip shod science that has
	area been upgraded to good. How can it be	the fish farm as a food source.	producing the applications – this casts doubt	impacted.	The Cumbrae farms would affect the	been used in producing the applications –
	sensible to now allow three fish farms to	The local resident dolphin "Kyle" who may	upon any assertions Dawnfresh makes. In	The Cumbrae farms would affect the	livelihoods of all the charter companies that	this casts doubt upon any assertions
	allow untreated faeces from tens of	receive the same fate.	particular, I do not understand why we are	livelihoods of all the charter companies that	use the area for wildlife sight-seeing tours.	Dawnfresh makes. In particular, I do not
	thousands of caged fish enter this fragile	The local population of porpoise.	consulting on information/data that was	use the area for wildlife sight-seeing tours.		understand why we are consulting on
	area? Dr Luxmore, who before retiring was		gathered almost three years ago. I do not	The visual impact would also affect tourism		information/data that was gathered almost
	senior nature conservation officer at the		understand why the required amount of	in the area.		three years ago. I do not understand why
	National Trust Scotland said that one fish		current data gathering days is not met for			the required amount of current data
	farm of the size proposed produces the		South Bute – if there were difficulties due to			gathering days is not met for South Bute – if
	sewage equivalent of a town twice the size		weather or accidental dislodging due to			there were difficulties due to weather or
	of Oban. With three farms proposed across		another water user, surely it is up to			accidental dislodging due to another water
	the mouth of the Clyde we would be		Dawnfresh to spend the time and money to			user, surely it is up to Dawnfresh to spend
	allowing waste equivalent to that of 105,000		gather the appropriate amount of data. I do			the time and money to gather the
	enter the waters. That is not acceptable.		not understand why Glasgow airport wind			appropriate amount of data. I do not
	No other form of farming would be allowed		data and Inverkip meteorological data is			understand why Glasgow airport wind data
	to let the untreated waste of its animals		used in the modelling. Any of us who live in			and Inverkip meteorological data is used in
	freely enter and pollute the environment.		this area know that the winds and weather			the modelling. Any of us who live in this area
	The idea that faeces and/or chemicals will		we face here are completely different to			know that the winds and weather we face
	be dispersed is not an acceptable argument:		Inverkip and even more so to Glasgow			here are completely different to Inverkip
	dispersal does not equal disappearance – it		airport. And after the ECCLR report in 2018			and even more so to Glasgow airport. And
	simply means it will be moved somewhere		chastised SEPA for lack of oversight and			after the ECCLR report in 2018 chastised
	else.		SEPA reformed its application standards,			SEPA for lack of oversight and SEPA
	Use of highly toxic chemicals will affect		why are these applications being allowed to			reformed its application standards, why are
	other species in the area:		use old data input to outdated modelling			these applications being allowed to use old
	The applicant plans to use azamethiphos,		systems to submit this application?			data in put to outdated modelling systems
	cypermethrin, deltamethrin. These are all		, , , , , , , , , , , , , , , , , , , ,			to submit this application?
	highly toxic chemicals to the aquatic					
	environment according to the European					
	Chemicals Agency. They're utility in fighting					
	lice by causing the destruction of their shells					
	will also affect other crustaceans in the area.					
	The South Bute site is already fished by CFA					
	and there is a young lobsterman who is not					
	a CFA member who works that exact area.					
	For the Cumbrae applications, it seems					
1	ridiculous that £1.8m is being spent to					
	reintroduce oysters, including placing 1300					
	in the Largs Yacht Haven and Fairlie Quay					
	Marina, and then fish farms will be					
	introduced adjacent to these sites so that					
	these toxic chemicals will impact those					
	oysters. The oysters are touted as purifiers					
	of water and a boon to the environment but					
	if these neuro toxins affect them the money					
	and project overall will be in vain.					
	*There are otters that swim in the area of					
	the proposed South Bute fish farm. Otters					
	are a European protected species and SEPA					
	has an obligation to apply the precautionary					
	principle here to protect them. These will be					
	affected directly by absorbing the chemicals					
	if they are in the water at the time of					
	treatments and indirectly through eating					
1	shellfish that have been affected by the					
	chemicals.					
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	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact on people who use the water	Tell us about why you think the application will impact on people who use the water	Tell us about why you think the application will impact on people who use the water
	SEPAs own study in 2018 in Shetland showed that chemical dispersion could be wider than modelled as well as chemicals lasting longer than expected. Why should we believe this will not happen in the Clyde? https://consultation.sepa.org.uk/sector-plan/finfishaquaculture/supporting_docume nts/Fish%20Farm%20Survey%20Report. Lice soup will be created in the Clyde, impacting wild salmonids Holding 2500t of fish in an open cage will build up a concentration of lice which will be exacerbated by the relatively close proximity of the three proposed farms across the entrance of the Clyde. This will impact on the wild salmonids exiting and re-entering the Clyde as they leave and return to their spawning grounds at the Endrick Waters, a European designated Special Area of Conservation. *The Scottish Government, and thus SEPA as its agent, is obliged to protect these wild salmonid as they travel through Scottish waters. It has recently been established that lice from fish farms can impact wild salmonids and any doubt about the magnitude of such impact should be subjected to the precautionary principle and this application rejected. Please refer to this model for impact of lice from fish farms and thus the impact on the water environment https://vimeo.com/496948354	box two	box three	environment Q6 - open text box one	impact on people who use the water environment Q6 open comment box two	environment Q6 - open text box three
25	Waste material from fish pens dropping to the sea bed in the immediate area. Faeces and uneaten food pellets. I am old enough to remember the disgusting smell in the area off Garroch Head when the sewage sludge boats from Glasgow dumped their toxic waste. It has taken years for the area to recover and reduce the heavy metal pollution. Why would we consider recommencing pollution in this area. The use of highly toxic chemiclas for fish treatment is not acceptable. The three stated chemicals, azamethiphos, cypermethrin and deltamethrin are all toxic in the marine environment as stated by the European Chemicals Agency. The use of such materials will probably be the subject of enquiry in future years, just as the disastrous impact which many previously used land based herbicides has had on bee populations. People will then be shocked that such behaviour was sanctioned by regulators.	Impact on the already low numbers of native salmon and sea trout in the area. The impact on seal populations which if they have the temerity to try to eat any farmed salmon which have suddenly arrived in their environment will be forced away by constant underwater noise methods, or be shot if they fail to comply. This proposed fish farm is within a mile of two major resident seal populations. One is on the Broad Islands off the East coast of Little Cumbrae. The other is on the various rocks and islets in Millport Bay. Impact of underwater noise on cetaceans in the area. The Cumbrae Pass channel is a known hot spot for Harbour Porpoise.	The three sea lice treatment chemicals quoted in the CAR. The degradation products from faecal waste and unused food pellets. Any anti-fouling treatments for the nets and pens.	All water users in the area. Boating, sailing, kayaking, diving, fishing. Anyone who visits the beautiful wild island of Little Cumbrae or who travels by boat through the Cumbrae Pass from the Largs Channel. Anyone who wants to swim in clean unpolluted waters in the adjacent Clyde area. It is particularly noted that the dispersion models show the three toxic chemicals being directed to the beaches in Millport Bay on Great Cumbrae. This is an area used by thousands of tourist each year who expect to be able to access clean, pollution free sea water for swimming and paddling. The modelling takes no account of the proposed Flood Defence Scheme which is about to be implemented in Millport Bay. How can approval be granted without taking account of this major chande to the hydrography? Surely the reduced water exchange behind the flood defences will lead to significant accumulation of the three toxic sea lice treatment chemicals in the bay where people access the water to swim and	Anyone who wants to swim in clean unpolluted waters in the adjacent Clyde area. It is particularly noted that the dispersion models show the three toxic chemicals being directed to the beaches in Millport Bay on Great Cumbrae. This is an area used by thousands of tourist each year who expect to be able to access clean, pollution free sea water for swimming and paddling. The modelling takes no account of the proposed Flood Defence Scheme which is about to be implemented in Millport Bay. How can approval be granted without taking account of this major change to the hydrography? Surely the reduced water exchange behind the flood defences will lead to significant accumulation of the three toxic sea lice treatment chemicals in the bay where people access the water to swim and take their children to paddle. This has surely got to be re-evaluated?	The three sea lice treatment chemicals quoted in the CAR. The degradation products from faecal waste and unused food pellets. Any anti-fouling treatments for the nets and pens.

	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one take their children to paddle. This has surely got to be re-evaluated?	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
26	The negative impact of industrial levels of fish farming on the water and shoreline environment has been well documented. Recent reports highlight a vast increase of lice infestation in the fish pens of existing farms, and the subsequent increased use of chemicals. These chemicals – which are toxic to humans and to aquatic life – together with hormones used to treat the fish, untreated fish faeces and uneaten food etc will stay in the waters of the Firth of Clyde for years, swilling back and forth with the tides, polluting our sea and our shores. Reports from Norway state that the environmental damage caused by open pen fish farming is now so critical that the Norwegian government no longer issues licences to the companies involved. As a result, Norwegian fish farming companies have now come to Scotland. The Firth is already circled by existing fish farms that require far stricter regulation than is currently exercised. To contemplate more farms in these circumstances would be the utmost folly. An environmental disaster driven by short term financial gain.	All marine and shore life in the area around the Cumbraes and between the Cumbraes and Bute is liable to be adversely affected. £1.8m is being spent to reintroduce oysters to the Largs Yacht Haven and Fairley Quay Marina. The toxic chemicals in use in the fish pens, together with the pollution caused by the fish faeces and uneaten food, will impact these oysters and all the money and effort spent will have been in vain.	The application seeks permission to use Cypermethrin, Deltamethrin and Azamethiphos as bathing treatments, all of which are highly toxic and hazardous to the aquatic environment, and to humans. Two of these chemicals are human carcinogens. This proposal involves dumping large quantities of untreated fish faeces, hormones and carcinogenic chemicals into the waters around Bute and the Cumbraes. Toxic chemicals will be in the water column for decades, long after the fish farms have gone. The chemicals will be ingested by all fish in the vicinity, which are then sold for human consumption. How can this be acceptable?	All water and shore based activity, both leisure and commercial, would be impacted by pollution from the vast quantity of untreated faeces and toxic chemicals dumped into the water. This level of pollution would be an environmental disaster for the area.	See above	Cypermethrin, Deltamethrin and Azamethiphos are all used in 'bathing' the fish pens and are all highly toxic, a danger to both aquatic life and to humans. This proposal involves dumping large quantities of untreated fish faeces, hormones and carcinogenic chemicals into the waters around Bute and the Cumbraes, damaging the environment for many years.

	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
27	District Salmon Fishery Boards have a	All three proposed Dawnfresh sites lie on an		Scotland's wild salmon and sea trout are at	As above, this farm, alongside the other two	The second secon
	statutory responsibility to protect and	important migration pathway for Atlantic		crisis point with many populations below	proposed CAR licences in this area, has the	
	improve salmon and sea trout fisheries in	salmon which all fish arising from the inner		conservation limits, particularly on the West	potential to impact fisheries management	
	their district and are statutory consultees in	Clyde, including the Clyde and Lomond		Coast within the 'Aquaculture zone'. Whilst	and angling activities in a number of	
	the planning process for fish farms. Whilst	systems, will utilise. It is also high likely that		wild salmon face a range of pressures,	important rivers and fisheries, including	
	Fisheries Management Scotland do not	Atlantic salmon and sea trout arising from		specific pressures from the aquaculture	those in North Ayrshire, the Clyde and Loch	
	routinely respond to CAR licence	rivers in North Ayrshire will utilise this area.		industry include impacts from escapes and	Lomond (which includes the Endrick Water	
	applications for fish farms, we believe that	We would emphasise that both Atlantic		sea lice. Salmon and sea trout fisheries are	SAC), which are not covered by a District	
	the proposed location for this development	salmon and sea trout are Priority Marine		an important component of Scotland's rural	Salmon Fishery Board.	
	is inappropriate from the perspective of migratory salmonids and the interests of	Features – the habitats and species of greatest conservation importance in inshore		economy. These fisheries and associated infrastructure rely on healthy populations of		
	other water users. There are a number of	waters. We also highlight that the Endrick		fish returning to Scotland's rivers. Scottish		
	important rivers and fisheries that would be	Water is a Special Area of Conservation		salmon rivers are categorised by Marine		
	affected by the proposed farm site,	(SAC) with Atlantic salmon as a qualifying		Scotland Science under the salmon		
	including those in North Ayrshire, the Clyde	interest. The Endrick Water SAC is already		conservation regulations according to the		
	and Loch Lomond (which includes the	rated as being in an 'unfavourable' condition		likelihood of them meeting their		
	Endrick Water Special Area of Conservation -	by NatureScot site condition categorisation.		conservation limits. The gradings of rivers		
	https://sitelink.nature.scot/site/8252),	The Habitats Directive (article 6) requires		have been published for 2021. 104 rivers		
	which are not covered by a District Salmon	that Member States shall take appropriate		across Scotland are graded as Category 3,		
	Fishery Board. On that basis, Fisheries	steps to avoid, in the special areas of		meaning there is a less than 60% probability		
	Management Scotland will be fully engaged	conservation, the deterioration of natural		of meeting their conservation limit. Where		
	with the licensing and wider planning	habitats and the habitats of species as well		salmon populations are below their		
	process. Our primary concern are impacts on wild salmonid fish and this is covered in	as disturbance of the species for which the		conservation limits, any additional pressure,		
	the section below.	areas have been designated, in so far as such disturbance could be significant in		including from sea lice, cannot be considered sustainable.		
	the section below.	relation to the objectives of this Directive. It		considered sustainable.		
		also states: In the light of the conclusions of		Whilst Fisheries Management Scotland do		
		the [appropriate] assessment of the		not routinely respond to CAR licence		
		implications for the site and subject to the		applications for fish farms, we believe that		
		provisions of paragraph 4, the competent		the proposed location for this development		
		national authorities shall agree to the plan		is inappropriate based on the		
		or project only after having ascertained that		aforementioned impacts on the water		
		it will not adversely affect the integrity of		environment, which will have a knock-on		
		the site concerned and, if appropriate, after		effect on other water users, including		
		having obtained the opinion of the general public.		fisheries managers and anglers.		
		public.		As mentioned previously, the impacts of sea		
		The proposed development, taken together		lice and farmed fish escapes can be		
		with the other two proposed CAR licences in		detrimental to the water environment.		
		this area by the same company, represent a		Experience from previous escapes of		
		significant additional biomass of farmed fish		rainbow trout from Dawnfresh farms,		
		in an area of the inner Clyde with no history		particularly in Loch Etive where at least		
		of open cage fish farming. This will		35,000 fish have escaped since 2015, have		
		represent a highly significant addition of		shown that in addition to these potential		
		host fish for sea lice on an important		ecological impacts, the escapes create a		
		migratory pathway for wild fish. It is		significant nuisance to fishery owners and		
		important to emphasise that the total lice load arising from a marine fish farm is a		angling businesses. We therefore consider that SEPA must take the potential impacts		
		function of the number of lice per farmed		on wild fish, and the associated impact on		
		fish, and the total number of fish maintained		interests of other users of the water		
		in the cages. Maximum biomass consented		environment fully into account when		
		via the CAR licensing system therefore has a		considering this application.		
		direct influence on the number of larval sea				
		lice released into the environment. As set				
		out above, we therefore consider that SEPA				
		must take the potential impacts on wild fish,				
		and the associated impact on interests of				
		other users of the water environment fully				
		into account when considering these				
		applications. Of particular relevance is the				
		close proximity of the Endrick Water SAC. Fish arising from this SAC, and many other				
		important local rivers, inevitably must				
		important local rivers, mevitably must				

Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact on people who use the water	Tell us about why you think the application will impact on people who use the water	Tell us about why you think the application will impact on people who use the water
box one	boxtwo	box three	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
	migrate directly past the proposed				
	developments on their migration through				
	the inner Clyde, placing those fish at risk				
	from lethal or damaging infestation from sea lice.				
	lice.				
	We would also highlight the potential risk of				
	the effects of escaped farmed species on				
	wild fish populations which is widely				
	recognised within peer reviewed scientific				
	literature (e.g. Glover et al. 2017). A recently				
	recorded instance at the Mowi Scotland Ltd.				
	Carradale North site saw 48,834 farmed				
	salmon escape during a storm event in				
	August 2020. A study of scale samples				
	monitored the distribution of the escaped				
	fish and found widespread dispersion of the				
	farmed salmon. There were documented				
	cases of farmed fish found within 17 rivers,				
	the majority of which were captured within				
	the Clyde and Loch Lomond systems and a				
	number of rivers in Ayrshire and Argyll				
	(Fisheries Management Scotland, 2021).				
	Rainbow trout are a non-native species and				
	have the potential to impact on native fish				
	species through competition and predation.				
	In addition, rainbow trout in the wild are not				
	covered by wild fisheries legislation.				
	Experience from previous escapes of				
	rainbow trout from Dawnfresh farms,				
	particularly in Loch Etive where at least				
	35,000 fish have escaped since 2015, have				
	shown that in addition to these potential				
	ecological impacts, the escapes create a significant nuisance to fishery owners and				
	angling businesses. Dawnfresh have refused				
	to recognise or compensate for these				
	impacts. SEPA have direct responsibility for				
	non-native species in rivers, so it is				
	important that this potential impact is fully				
	considered in determining this CAR licence.				
	<u> </u>				
	We have attached a short summary of the				
	science which underpins our objection.				
	Whilst the impacts of sea lice arising from				
	farms may be mitigated by strategically				
	planning farm locations, there is no current				
	strategic plan within which this can happen.				
	We are conscious that SEPA, Marine				
	Scotland, NatureScot and local authorities				
	are developing a strategic framework				
	related to sea lice impacts on wild fish, but				
	this is still in development. In the meantime,				
	the precautionary principle should apply,				
	and Fisheries Management Scotland				
	strongly object to a licence being granted for				
	each of the three proposed farms.				
	Defenses.				
	References				
	Fisheries Management Costley 1 (2024)				
	Fisheries Management Scotland (2021).				
	Monitoring for the presence of farmed salmon in West Coast Scottish rivers				
	Sammonini vvest COdst SCOttisiiiiveis				<u> </u>

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Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - opentext box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
	following an escape from the Carradale North salmon farm.				
	Half a century of genetic interaction between farmed and wild Atlantic salmon:				
	Status of knowledge and unanswered questions. Fish and Fisheries, 18(5), 890–				
	927. https://doi.org/10.1111/faf.12214				

	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
28	This opinion from the ABCouncil stated the proposed fish farm is likely to give rise "to	The otters that live and feed all around Bute but particularly those near Hawks Neb,	The three bath treatment chemicals that have been mentioned in the CAR application	I think it will cost some people part or all of their livelihood- and/or Clyde Fisherman	As above in 6A	The three bath treatment chemicals that have been mentioned in the CAR application
	significant environmental effects"	photos of which can be seen on the Isle of	– azamethiphos, cypermethrin, and	Association members		– azamethiphos, cypermethrin, and
	Fish faecal matter will affect water quality:	Bute Facebook Group page, which are	deltamethrin	I think it will inhibit the success of the re-		deltamethrin
	For 94 years, from 1904 until 31 December	enjoyed by many	Faecal waste from such a large number of	introduction of oysters to the area, a project		Faecal waste from such a large number of
	1998, the sewage sludge from Glasgow was	The fishing grounds at Hawks Neb of the	fish for such an extended period of time	that will improve the water quality rather		fish for such an extended period of time
	shipped down the Clyde and dumped at Garroch Head of the south of Bute. On the	lobsterman and of members of the CFA The wild salmonids that are	I would like to say that in reading the application I am concerned overall by the	than negatively impact it as the proposed fish farms would		As above, I again would like to say that in reading the application I am concerned
	SEPA website the water quality of the whole	leaving/returning to their spawning grounds	slip shod science that has been used in	The proposed fish farms are directly in the		overall by the slip shod science that has
	area around Arran, Bute and the Cumbraes	at the Endrick Water SAC	producing the applications – this casts doubt	highest use areas for kayaking, sailing and		been used in producing the applications –
	was only moderate and the website cited	The newly installed oysters at the Largs	upon any assertions Dawnfresh makes. In	merchant navy activity so any of these users		this casts doubt upon any assertions
	sewage as the reason. Only in the last	Yacht Marina and Fairlie Quay Marina	particular, I do not understand why we are	will be impacted.		Dawnfresh makes. In particular, I do not
	several years has the water quality in this	The water quality of the general area due to	consulting on information/data that was	The Cumbrae farms would affect the		understand why we are consulting on
	area been upgraded to good. How can it be sensible to now allow three fish farms to	faecal and food waste	gathered almost three years ago. I do not	livelihoods of all the charter companies that		information/data that was gathered almost
	allow untreated faeces from tens of		understand why the required amount of current data gathering days is not met for	use the area for wildlife sight-seeing tours. Wild swimmers would lose a stretch of the		three years ago. I do not understand why the required amount of current data
	thousands of caged fish enter this fragile		South Bute – if there were difficulties due to	Bute coastline for their swimming activities.		gathering days is not met for South Bute – if
	area? Dr Luxmore, who before retiring was		weather or accidental dislodging due to	Please refer to the Bute Outdoor Swimming		there were difficulties due to weather or
	senior nature conservation officer at the		another water user, surely it is up to	Society FB group page (approx. 500		accidental dislodging due to another water
	National Trust Scotland said that one fish		Dawnfresh to spend the time and money to	members) and see the swims that have		user, surely it is up to Dawnfresh to spend
	farm of the size proposed produces the sewage equivalent of a town twice the size		gather the appropriate amount of data. I do not understand why Glasgow airport wind	taken place from Kilchattan Bay to Glencallum Bay. Also, there is currently no		the time and money to gather the appropriate amount of data. I do not
	of Oban. With three farms proposed across		data and Inverkip meteorological data is	knowledge of the possible effects of the		understand why Glasgow airport wind data
	the mouth of the Clyde we would be		used in the modelling. Any of us who live in	toxic bath treatments on humans, so again		and Inverkip meteorological data is used in
	allowing waste equivalent to that of 105,000		this area know that the winds and weather	the precautionary principle should be		the modelling. Any of us who live in this area
	enter the waters. That is not acceptable.		we face here are completely different to	applied.		know that the winds and weather we face
	No other form of farming would be allowed		Inverkip and even more so to Glasgow	The newly established paddle boarding		here are completely different to Inverkip
	to let the untreated waste of its animals freely enter and pollute the environment.		airport. And after the ECCLR report in 2018 chastised SEPA for lack of oversight and	company on Bute would lose a stretch of coast line for its customers.		and even more so to Glasgow airport. And after the ECCLR report in 2018 chastised
	The idea that faeces and/or chemicals will		SEPA reformed its application standards,	coast file for its castofficis.		SEPA for lack of oversight and SEPA
	be dispersed is not an acceptable argument:		why are these applications being allowed to			reformed its application standards, why are
	dispersal does not equal disappearance – it		use old data input to outdated modelling			these applications being allowed to use old
	simply means it will be moved somewhere		systems to submit this application?			data in put to outdated modelling systems
	else. Use of highly toxic chemicals will affect					to submit this application?
	other species in the area:					
	The applicant plans to use azamethiphos,					
	cypermethrin, deltamethrin. These are all					
	highly toxic chemicals to the aquatic					
	environment according to the European Chemicals Agency. They're utility in fighting					
	lice by causing the destruction of their shells					
	will also affect other crustaceans in the area.					
	The South Bute site is already fished by CFA					
	and there is a young lobsterman who is not					
	a CFA member who works that exact area. For the Cumbrae applications, it seems					
	ridiculous that £1.8m is being spent to					
	reintroduce oysters, including placing 1300					
	in the Largs Yacht Haven and Fairlie Quay					
	Marina, and then fish farms will be					
	introduced adjacent to these sites so that these toxic chemicals will impact those					
	oysters. The oysters are touted as purifiers					
	of water and a boon to the environment but					
	if these neuro toxins affect them the money					
	and project overall will be in vain.					
	*There are otters that swim in the area of					
	the proposed South Bute fish farm. Otters are a European protected species and SEPA					
	has an obligation to apply the precautionary					
	principle here to protect them. These will be					
	affected directly by absorbing the chemicals					

	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will
			•		· · · ·	• • •
	Tell us about why you think the application will impact the water environment Q5 - open text box one if they are in the water at the time of treatments and indirectly through eating shellfish that have been affected by the chemicals. SEPAs own study in 2018 in Shetland showed that chemical dispersion could be wider than modelled as well as chemicals lasting longer than expected. Why should we believe this will not happen in the Clyde? https://consultation.sepa.org.uk/sectorplan/finfishaquaculture/supporting_docume nts/Fish%20Farm%20Survey%20Report. Lice soup will be created in the Clyde, impacting wild salmonids Holding 2500t of fish in an open cage will build up a concentration of lice which will be exacerbated by the relatively close proximity of the three proposed farms across the entrance of the Clyde. This will impact on the wild salmonids exiting and re-entering the Clyde as they leave and return to their spawning grounds at the Endrick Waters, a European designated Special Area of Conservation. *The Scottish Government, and thus SEPA as its agent, is obliged to protect these wild salmonid as they travel	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
29	through Scottish waters. It has recently been established that lice from fish farms can impact wild salmonids and any doubt about the magnitude of such impact should be subjected to the precautionary principle and this application rejected. Please refer to this model for impact of lice from fish farms and thus the impact on the water environment https://vimeo.com/496948354	The otters that live and feed all around Bute	The three bath treatment chemicals that	I think it will cost some people part or all of	See 6A	The three bath treatment chemicals that
	to let the untreated waste of its animals freely enter and pollute the environment. The idea that faeces and/or chemicals will be dispersed is not an acceptable argument: dispersal does not equal disappearance – it simply means it will be moved somewhere else.	but particularly those near Hawks Neb, photos of which can be seen on the Isle of Bute Facebook Group page, which are enjoyed by many The fishing grounds at Hawks Neb of the lobsterman and of members of the CFA The wild salmonids that are leaving/returning to their spawning grounds at the Endrick Water SAC The newly installed oysters at the Largs Yacht Marina and Fairlie Quay Marina The water quality of the general area due to faecal and food waste	have been mentioned in the CAR application – azamethiphos, cypermethrin, and deltamethrin Faecal waste from such a large number of fish for such an extended period of time	their livelihood- and/or Clyde Fisherman Association members I think it will inhibit the success of the reintroduction of oysters to the area, a project that will improve the water quality rather than negatively impact it as the proposed fish farms would The proposed fish farms are directly in the highest use areas for kayaking, sailing and merchant navy activity so any of these users will be impacted. The Cumbrae farms would affect the livelihoods of all the charter companies that use the area for wildlife sight-seeing tours. Wild swimmers would lose a stretch of the Bute coastline for their swimming activities. Please refer to the Bute Outdoor Swimming Society FB group page (approx. 500 members) and see the swims that have taken place from Kilchattan Bay to Glencallum Bay. Also, there is currently no knowledge of the possible effects of the toxic bath treatments on humans, so again the precautionary principle should be applied.		have been mentioned in the CAR application – azamethiphos, cypermethrin, and deltamethrin Faecal waste from such a large number of fish for such an extended period of time

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	JOA ONE	DOX (WO	box tinee	The newly established paddle boarding company on Bute would lose a stretch of coast line for its customers.	environment. • Qo open comments ox two	environment Qu-open textbox timee
20	Dans the affection the wild fish and at inc			Degraphething muliture		
30	Parasites affecting the wild fish populations. Chemicals in the water affecting bathing quality			Poorer bathing quality		
31	Environment - Over the last 50 years there			Tourism - This area benefits from and		
	has been great progress in cleaning up the			depends heavily on tourism. Sailing,		
	Clyde, industrial effluent now greatly reduced, new sewage treatment plants			canoeing, kayaking, paddle boarding, windsurfing etc attract visitors to the area.		
	installed to improve water quality, dumping			Our beaches host a range of activities such		
	of Glasgow's sewage sludge off the South of			as rock pooling, wild swimming, paddling,		
	Bute discontinued. Not long ago SEPA registered the water quality around Arran,			fishing and diving which also enhance the visitor experience for those onshore.		
	Bute and the Cumbraes as only moderate			visitor experience for those orishore.		
	but in more recent years this has been			The sandy areas and beaches are used for		
	upgraded to good. The river is no longer considered a dumping ground for waste.			family swimming and picnics, dog walking and dog swimming etc.		
	considered a damping ground for waster			Our Largs and Millport proms are amongst		
	How can it now be sensible to allow three			the best used in Scotland by locals and		
	new fish farms to deposit untreated faeces from tens of thousands of caged fish to			visitors alike. Wildlife such as seals, porpoise, dolphin,		
	enter our waters. No other form of farming			otters, swans, herons and ducks to name a		
	would be allowed to let untreated waste			few add to the enjoyment of our shores.		
	enter our river system. The idea that the river will disperse the effluent and chemicals			Any degradation of water quality, either biological or chemical contamination will		
	is not an acceptable argument, it only			affect the users of these waters both in the		
	means that it will be moved in diluted form			short and long term. Surely this is a most		
	to other areas, in this case the beaches and waters of the islands and North Coast which			important consideration when there in no material or financial benefit to offset loss of		
	our public enjoy.			amenity.		
	These three proposed farms are either in or					
	very close to the migratory run of salmon going up the Clyde and risk the salmon being					
	contaminated by lice on their journey.					
	Unintentional releases of large numbers of					
	farmed fish into the rivers from fish farms in the past have also caused problems to wild					
	stock and the businesses they support.					
	The chemicals proposed for use to treat sea lice are forms of insecticides.					
	Due to the enclosed nature of fish farms sea					
	lice, a natural inhabitant of our waters in					
i	low numbers, proliferated and need treated, hence the chemical treatments used. Dead					

Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact on people who use the water	Tell us about why you think the application will impact on people who use the water	Tell us about why you think the application will impact on people who use the water
 box one	box two	box three	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
and decaying fish can also be a problem.					
As previously said huge effort, through EU					
and Government controls, have been					
applied to clean up our waters, is this now					
sensible or correct to take a backward step?					
Especially as the local area has nothing to					
gain and much to lose if such developments go ahead.					
go aneau.					
 Etal farma have have moved to be	Contract release we desired Conflorer	and the second s	third. the ill and a second and a set on all of	La alcana analta a and anal Calcina And annal	and the second s
Fish farms have been proved to be detrimental to the collapse of wild fish	Sea trout, salmon, mackerel. Sea floor habitat in and around the farmsHey	azamethiphos, cypermethrin, and deltamethrin, Which will not even prevent	think it will cost some people part or all of their livelihood- and/or Clyde Fisherman	In shore angling and creel fishing And much more	azamethiphos, has this even been proved to prevent sealice numbers In open water with
stocks in the Argyll and Bute area over the	nabitat iirana arouna the farmshey	sealice in the sea around the nets.	Association members	more	tidal flow.
last 20year and adding another fish farm will		Seame in the sea around the nets.	I think it will inhibit the success of the re-		tidal flow.
further damage stocks. Sealice alone will			introduction of oysters to the area, a project		
give smolts absolutely no chance of return.			that will improve the water quality rather		
Please stop installing these inshore and			than negatively impact it as the proposed		
demand that they are build a minimum			fish farms would		
1mile offshore.	All and life will be 1	Fish forms and the second second	The considerated the least terms of the considerate and the consid	Construence Late C. I	Mild and and an in the state of
The Bute News (Argyll Media Ltd) of Friday	All sea life will be harmed in some way by	Fish farms are the marine form of battery	The area depends rather heavily on tourism	Sswimmers, leisure fishermen,	Wild swimming, kayaking and other
30.04.2021 carried an advertisement of Sepa re the application for the fish farm	more pollution added to the river, from the smallest to the largest such as porpoises,	hens, many animals penned up in a small area, heavily dosed up with all kinds of	and leisure, therefor any developments which will cause a negative impact are not	birdwatchers, walkers, sailers, kayakers, paddle boarders and anyone else in the area	watersports which are in close contact with the water are becoming more popular. At
near Bute, but the description given, see	seals, or otters. The whole area acts as a	treatments, including medication, hormones	really desirable.	and/or on the banks of the Clyde will all be	the moment we can offer them a good
below, will also apply to this application.	feeding ground for many birds, including	and sealice treatment. Anyone or anything		negatively impacted by this development.	experience with clean water, this will
, and approximation	Gannets from Ailsa Craig.	coming in touch with these substances not	Not many people are employed to work at	This part of the Clyde from Gourock to	change if they have even the smallest
'The discharge to the water environment of	- -	meant for them is potentially harmed by	fish farms, so there is no benefit of extra	Ardrossan for instance, has many marinas,	chance of getting in contact with pollution
fish excreta, uneaten food and other	Fish farms use audio methods to scare off	them.	employment. The fish do not get processed	good for the leisure industry but if the area	as mentioned in Box 5.
substances resulting from the operation of a	any would-be predators, and by doing so		locally, Dawnfresh is based in Uddingston,	becomes less attractive with fewer marinas,	
new marine pen fish farm' seems enough to	causing distress to many animals.	Over the years a lot of work has gone into	again no additional benefit for the area.	or boats, than this will impact negatively on	
warrant objection.	It will be a pagetive viewel in the form	cleaning up rivers, seas and any other	Pollution of the cost of and income	the local economies.	
There is already a fish form in Loch Striver	It will be a negative visual impact for any one walking, sailing, swimming in the area. A	surface water, farmers get into big trouble if	Pollution of the water environment	Greenock has a cruise terminal, now with	
There is already a fish farm in Loch Striven, at the north end of Bute, there are further	fish farm is not a thing of natural beauty,	they accidentally discharge anything harmful to the environment, so it seems a	including the river banks, visual pollution of an industrial fish farm in what is up to now a	the Corona epidemic lessening, cruises	
applications for two more fish farms in the	which will be an obstruction which	contradiction to what is practiced in	relatively unspoilt area with perhaps	around Britain are starting up again. Not	
area, i.e. Cumbrae and South Bute, as well	will have to be avoided as I am sure the	conservation and a negation of risks to allow	increased road traffic of having to move the	very pretty for the passengers to have to sail	
as a fish farm near Arran, besides this one	owners will not like anyone passing close to	fish farms, not just one but several in one	fish to the processing plant near Glasgow.	past fish farms to get to the terminal.	
which seems a heavy concentration of fish	their fish farm.	area.		-	
farms in a relatively small area, which is NOT			There many be positive benefits for the	There is also commercial fishing in the Clyde	
open sea but a river. All those fish farms	Not only the water quality will be impacted		Uddingston area, extra employment, extra	of prawns, crabs etc, providing employment	
combined will discharge a lot of pollution into an area which is used for leisure, as well	by the many fish farms, but also the riverbanks as the Clyde is comparatively		sales and trade all over the world which will improve that area, but there do not seem to	to local people, who may find that it is no longer possible to fish these waters.	

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	box one	box two	box three	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
	as for commercial fishing of crabs, prawns, etc.	narrow in this area with several island, so many miles of coast line.		be any positive benefits for the areas where the fish farms will be sited.	Tourism is already under stress from encroachment from all sides, it is getting much harder to find unspoilt seascapes (think windturbines for instance) as well as landscapes. There is still some present in the Clyde area, why not keep this for tourism and develop that with local people rather than adding industrial fish farms which do not benefit the local economy.	
34	Fish faecal matter from a fish farm this size will have a derimental impact on the marine ecosystems in the surrounding area and also adversley affect the natural habitats of marine mammals. Faecal matter and fish farm chemical use will have a negative impact on the recently introduced oysters in the Fairlie and Largs area.	Otters, seals, dolphin, porpoise, whales and basking sharks are all either resident or commonly occuring species in the area. Also Oysters.	Azamethiphos, cypermethrin, deltamethrin are all toxic chemicals which will have a detrimental effect on the natural environment, the flaura and fauna close by and humans who use the waters and coastline for recreational purposes.	The fish farm if it is allowed to go ahead will adversley affect kayakers and sailors who use this area extensively.	Sailors from local marinas and moorings at Largs Fairlie and Millport will be adversley affected by the location of the fish farm as it will impede thier passage through the passage between the two Cumbrae isles and around Little Cumbrae.	Azemithiphos, cypermethrin and deltamethrin, are all toxic chemicals which will have a detrimental effect on the marine mammals mentioned previously and to the natural flora and fauna in the area, also the mussels which have just been introduced in the Largs and Fairlie areas.
35	It will be a blight on the relatively wild coastline of that part of Bute which is enjoyed by sailors, kayakers, wild swimmers, and walkers. It is very close to the West Island Way, one of the most popular walks on Bute. Pollution from uneaten fish food and faeces will impact the water environment. There would be an impact in terms of pollution from waste and chemicals being washed up on the shore which would adversely affect water species and also land based organisms. This is a particularly stormy part of the coast and if moorings broke as happened last year in another part of Argyll and Bute there would be massive pollution. This area has been particularly prone to serious erosion during stormy weather. The West of Scotland Walling Association spent a number of days 4 or 5 years ago building up a protective wall against the raised shore but this was washed away a couple of years later as was another bit of the raised shore. This demonstrates the strength of wave power in the area which I am sure would inevitably damage fish tanks.	There is serious concern about the long term, cumulative effect of uneaten fish food and faeces, especially beneath the cages. Over a year this could amount to approximately 10kg/m2. It is noted from the map that this can spread for at least 2.5 km albeit in different concentrations. This cannot be good for any marine life. The proposed use of acoustic deterrents will detrimentally affect seals and cetaceans, as this is a relatively narrow part of the channel. If the other two fish farm proposals are allowed on the opposite side of the channel, only about 3.5 km away, this might even stop them coming up or down the Clyde at this point. High numbers of sea lice associated with fish farms may well impact wild populations of fish.	It is known that Azamethiphos and Deltamethrin are toxic to lobster larvae, and no doubt other organisms. Cypermethrin is also toxic. No matter what reassurances we get, mistakes, and accidents happen.	This part of the coast is used by people engaging in leisure pursuits such as sailing, kayaking and more recently paddle boarding. This would divert them to the deeper and stormier waters which are also used for commercial fishing and is also close to a main shipping channel for the whole Firth of Clyde including for nuclear submarines based at Coulport and Faslane.	There would have to be access movement in this area and any such industrial activity would seriously damage an already fragile coastline.	

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		Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact on people who use the water	Tell us about why you think the application will impact on people who use the water	Tell us about why you think the application will impact on people who use the water
		box one	box two	box three	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
-	36	The discussion of the models associated	The proposed area is frequented by many	In addition to the chemical concerns listed	The supplied models and discussion, states	In addition to that listed above, it should	The proposed applications of azamethiphos,
		with this application state: "The chemicals	cetacean species and the deep waters,	above, well known in the industry is the rise	that the bulk of discharge has been: "shown	also be noted that the proposed	cypermethrin, deltamethrin are deeply
		are shown to accumulate on the south and	immediately offshore often lead to basking	of lice that are resistant to our current	to accumulate on the south and	development will have a significant	concerning and addressed elsewhere in this
		southwestern coastline of Greater Cumbrae.	sharks feeding within meters of the	arsenal of pesticides. A recent study	southwestern coastline of Greater Cumbrae.	deleterious impact on the areas creel	response. The need for further, as yet
		All the chemical discharges modelled	foreshore. Basking Sharks are listed as	highlights the unique role of fish farms,	All the chemical discharges modelled	fisherman with crustaceans most	unidentified, chemicals is also of concern
		resulted in plumes in the vicinity of Millport	Endangered on the IUCN Red List and are	leading to heritable pesticide resistance and	resulted in plumes in the vicinity of Millport	susceptible to the proposed chemical	and again addressed in detail elsewhere in
		and Kames Bay, which is a Site of Special	domestically protected under Schedule 5 of	consequently widespread infestations in the	and Kames Bay, which is a Site of Special	applications. The associated decline in these	this response.
		Scientific Interest (SSSI) due to it being the	the Wildlife and Countryside Act 1981, the	north-eastern Atlantic ocean. Resistant	Scientific Interest (SSSI) due to it being the	marine invertebrates can be very	Civan the stated increast on the level CCL the
		only example of a shore dominated by sand on Great Cumbrae. The sands at Kames Bay	Countryside Rights of Way Act 2000 and the Nature Conservation (Scotland) Act 2004.	genes have spread through populations from Scandinavia to Greenland, and even up	only example of a shore dominated by sand on Great Cumbrae" . This attractive beach	significant1,2,3 and therefore damaging to this small local industry.	Given the stated impact on the local SSI, the impacts on cetaceans within the area and
		are constantly wet and even in summer	The proposal directly impacts their feeding	into Iceland where chemical pesticides are	and area is well used by locals and tourists	this sman local moustry.	accumulation of discharge on popular
		never experience severe drying, resulting in	grounds, not just with physical obstruction	not used1. These results demonstrate the	alike for bathing, swimming and a host of	1:	bathing spots, this application appears
		a high faunal population, including large	but also in altering the marine environment	speed to which this parasite can develop	water sports. The impact of effluent and	https://doi.org/10.1016/j.envpol.2020.1147	wholly unsuitable.
		numbers of the lugworm Arenicolamarina	through effluent discharge and chemical	widespread multiresistance, illustrating why	chemical discharge, will have a significant	25	, , , , , , , , , , , , , , , , , , , ,
		and the bivalve Tellina tenuis(SNH,2000).	application. Further, the proposed use of	the aquaculture industry has repeatedly lost	deleterious impact and create health/safety	2:	
		Therefore, there is a potential for chemicals	sonic deterrents with significantly negatively	the arms race with this highly problematic	concerns for those who use the water.	https://doi.org/10.1016/j.marenvres.2020.1	
		to impact the fauna within this area"	impact cetacean populations and not just in	parasite1. Thus, the chemicals and		05007	
			the immediate vicinity but in a much	modelling highlighted in this report are not	The supplied models show dispersal of	3:	
		The proposed chemicals: azamethiphos,	broader area, as well document in	relevant to the functioning of the proposed	azamethiphos, cypermethrin, deltamethrin	https://doi.org/10.1016/j.chemosphere.201	
		cypermethrin and deltamethrin will be	previously published localised marine	fish farm, where different chemicals and at	concentrating in localised bathing spots,	7.07.108	
		significantly deleterious to sea life. With well	mammal reports. There are a number of	differing concentrations will be needed in	causing significant concerns for the health of		
		demonstrated toxicity to lobster larve1, high	protected cetacean species that will be	order for the fish farm to be economically	those using the water.		
		toxicity to other crustacea such as shrimp2 and 100% toxicity to sea crabs, at	impacted and these are well documented in	viable. The impacts of these unknown treatments will be significantly different to			
		concentrations lower than that proposed3.	localised marine mammal reports.	that outlined in the proposal and impacting			
		The impact on the SSI, which the models	The discussion of the models associated	at different spatiotemporal scales, including			
		show will receive a high volume of the	with this application state: "The chemicals	on the locally designated and vulnerable SSI.			
		discharge, is significant and should not be	are shown to accumulate on the south and	6			
		allowed under SSI protective legislation.	southwestern coastline of Greater Cumbrae.	1. https://doi.org/10.1098/rsos.210265			
		Effluent discharge (and associated	All the chemical discharges modelled				
		eutrophication) noted in the proposal at	resulted in plumes in the vicinity of Millport				
		25kg/m2 are very significant not just for the	and Kames Bay, which is a Site of Special				
		marine environment and the species that	Scientific Interest (SSSI) due to it being the				
		live there, but also on water quality for	only example of a shore dominated by sand				
		those that use the area for swimming and various water sports, including on the	on Great Cumbrae.The sands at Kames Bay are constantly wet and even in summer				
		popular sandy beach of greater Cumbrae.	never experience severe drying, resulting in				
		popular samely beach of greater cumbrae.	a high faunal population, including large				
			numbers of the lugworm Arenicolamarina				
		1:	and the bivalve Tellina tenuis(SNH,2000).				
		https://doi.org/10.1016/j.envpol.2020.1147	Therefore, there is a potential for chemicals				
		25	to impact the fauna within this area"				
		2:					
		https://doi.org/10.1016/j.marenvres.2020.1	The proposed chemicals: azamethiphos,				
		05007	cypermethrin and deltamethrin will be				
		3: https://doi.org/10.1016/j.chemosphere.201	significantly deleterious to sea life. With well demonstrated toxicity to lobster larve1, high				
		7.07.108	toxicity to other crustacea such as shrimp2				
		7.07.100	and 100% toxicity to sea crabs, at				
			concentrations lower than that proposed3.				
			The impact on the SSI, which the models				
			show will receive a high volume of the				
			discharge, is significant and should not be				
			allowed under SSI protective legislation.				
			Effluent discharge (and associated				
			eutrophication) noted in the proposal at				
			25kg/m2 are very significant not just for the				
			marine environment and the species that				
			live there, but also on water quality for those that use the area for swimming and				
			various water sports, including on the				
			popular sandy beach of greater Cumbrae.				
			F-F- 20 2000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 0000 3 00000 3 0000 3 0000 3 0000 3 000000				

	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
		1: https://doi.org/10.1016/j.envpol.2020.1147 25 2: https://doi.org/10.1016/j.marenvres.2020.1 05007 3: https://doi.org/10.1016/j.chemosphere.201 7.07.108				
37	The waters around Cumbrae are popular for watersports (sailing, rowing, canoeing, paddle boarding and open water swimming), participation in which contributes to health and well being as well as employment in the marine activities and tourism industries. The proposed installation of fish farms in these waters would be a significant deterrent and impediment to such activity as they would present navigational challenges and waters contaminated with chemicals and pathogens potentially harmful to humans	The waters around Cumbrae are particularly rich in sealife, which again is a major attractant to sailors and other watersports enthusiasts. Seals around Cumbrae will inevitably be attracted to the proposed fish farms and could be in danger of becoming caught up in the lines/ equipment around the installations. Dolphins and porpoises, as well as sea birds, which make up this rich marine habitat, will all likely be impacted and risk infection and injury, which would be highly detrimental to for the region as a recreational boating destination	The pathogens such as lice as well as cancerogenic chemicals associated with fish farms are of particular concern when these waters are extensively accessed by watersports enthusiasts. This includes children and young adults, who benefit hugely from such outdoor activity and would very likely be deterred from doing it by the presence of the proposed fish farms	The waters around Cumbrae are popular for watersports, participation in which contributes to health and well being. The proposed installation of fish farms in these waters would be a significant deterrent and impediment to such activity. Specifically for sailing, these waters are the base for 2 of Scotland's largest and most active Marinas: Largs Yacht Haven and Kip Marina. Recreational and competitive sailing from these sites is a regular activity contributing to the local economy and supporting many jobs. Boat owners form across the UK choose to keep their vessels in these marinas because of the excellent sailing opportunities in safe clean waters. The presence of the proposed fish farm will lead to loss of anchorages (for recreational and safe haven purposes), present navigational challenges and negatively impact water quality as chemicals and pathogenic organisms are released	The waters around Cumbrae, which are particularly rich in sealife, are a major attractant to sailors and other watersports enthusiasts. The risk of infection and injury to many species of birds, seals, porpoises and dolphins, which would be highly detrimental to the region as a recreational boating destination. Largs Sailing Club (LSC) who are lodging this objection, is a site for major National sailing championships, which bring significant economic benefit to the community. These events come to Largs because of the clean and available racing waters, much of which would be lost to the proposed fish farms Sail training of children and young adults also takes place out of LSC and the proposed installations would significantly reduce available clean, safe waters to run such programmes which are recognised as being highly beneficial to health and well being	The pathogens such as lice as well as cancerogenic chemicals associated with fish farms are of particular concern when these waters are extensively accessed by watersports enthusiasts. This includes children and young adults, who benefit hugely from such outdoor activity and would very likely be deterred from doing it by the presence of the proposed fish farms

	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
38	Argyll and Bute Council Opinion response to	The otters that live and feed all around Bute	The three bath treatment chemicals that	I think it will cost some people part or all of	As above	The three bath treatment chemicals that
	the Dawnfresh 19/00233/SCRSCO	but particularly those near Hawks Neb,	have been mentioned in the CAR application	their livelihood- and/or Clyde Fisherman	7.0 0.0000	have been mentioned in the CAR application
	screening/scoping application on the 17	photos of which can be seen on the Isle of	– azamethiphos, cypermethrin, and	Association members		 azamethiphos, cypermethrin, and
	May 2019	Bute Facebook Group page, which are	deltamethrin			deltamethrin
	This opinion from the ABCouncil stated the	enjoyed by many		I think it will inhibit the success of the re-		
	proposed fish farm is likely to give rise "to		Faecal waste from such a large number of	introduction of oysters to the area, a project		Faecal waste from such a large number of
	significant environmental effects"	The fishing grounds at Hawks Neb of the	fish for such an extended period of time	that will improve the water quality rather		fish for such an extended period of time
	Fish faecal matter will affect water quality:	lobsterman and of members of the CFA	Louis del Physics and Abert Colors allow the	than negatively impact it as the proposed		As above the sale would like the savethet in
	For 94 years, from 1904 until 31 December 1998, the sewage sludge from Glasgow was	The wild salmonids that are	I would like to say that in reading the application I am concerned overall by the	fish farms would		As above, I again would like to say that in reading the application I am concerned
	shipped down the Clyde and dumped at	leaving/returning to their spawning grounds	slip shod science that has been used in	The proposed fish farms are directly in the		overall by the slip shod science that has
	Garroch Head of the south of Bute. On the	at the Endrick Water SAC	producing the applications – this casts doubt	highest use areas for kayaking, sailing and		been used in producing the applications –
	SEPA website the water quality of the whole		upon any assertions Dawnfresh makes. In	merchant navy activity so any of these users		this casts doubt upon any assertions
	area around Arran, Bute and the Cumbraes	The newly installed oysters at the Largs	particular, I do not understand why we are	will be impacted.		Dawnfresh makes. In particular, I do not
	was only moderate and the website cited	Yacht Marina and Fairlie Quay Marina	consulting on information/data that was			understand why we are consulting on
	sewage as the reason. Only in the last		gathered almost three years ago. I do not	The Cumbrae farms would affect the		information/data that was gathered almost
	several years has the water quality in this	The water quality of the general area due to	understand why the required amount of	livelihoods of all the charter companies that		three years ago. I do not understand why
	area been upgraded to good. How can it be	faecal and food waste	current data gathering days is not met for	use the area for wildlife sight-seeing tours.		the required amount of current data
	sensible to now allow three fish farms to allow untreated faeces from tens of		South Bute – if there were difficulties due to weather or accidental dislodging due to	Wild swimmers would lose a stretch of the		gathering days is not met for South Bute – if there were difficulties due to weather or
	thousands of caged fish enter this fragile		another water user, surely it is up to	Bute coastline for their swimming activities.		accidental dislodging due to another water
	area? Dr Luxmore, who before retiring was		Dawnfresh to spend the time and money to	Please refer to the Bute Outdoor Swimming		user, surely it is up to Dawnfresh to spend
	senior nature conservation officer at the		gather the appropriate amount of data. I do	Society FB group page (approx. 500		the time and money to gather the
	National Trust Scotland said that one fish		not understand why Glasgow airport wind	members) and see the swims that have		appropriate amount of data. I do not
	farm of the size proposed produces the		data and Inverkip meteorological data is	taken place from Kilchattan Bay to		understand why Glasgow airport wind data
	sewage equivalent of a town twice the size		used in the modelling. Any of us who live in	Glencallum Bay. Also, there is currently no		and Inverkip meteorological data is used in
	of Oban. With three farms proposed across the mouth of the Clyde we would be		this area know that the winds and weather we face here are completely different to	knowledge of the possible effects of the toxic bath treatments on humans, so again		the modelling. Any of us who live in this area know that the winds and weather we face
	allowing waste equivalent to that of 105,000		Inverkip and even more so to Glasgow	the precautionary principle should be		here are completely different to Inverkip
	enter the waters. That is not acceptable.		airport. And after the ECCLR report in 2018	applied.		and even more so to Glasgow airport. And
	No other form of farming would be allowed		chastised SEPA for lack of oversight and			after the ECCLR report in 2018 chastised
	to let the untreated waste of its animals		SEPA reformed its application standards,	The newly established paddle boarding		SEPA for lack of oversight and SEPA
	freely enter and pollute the environment.		why are these applications being allowed to	company on Bute would lose a stretch of		reformed its application standards, why are
	The idea that faeces and/or chemicals will		use old data input to outdated modelling	coast line for its customers.		these applications being allowed to use old
	be dispersed is not an acceptable argument: dispersal does not equal disappearance – it		systems to submit this application?			data in put to outdated modelling systems to submit this application?
	simply means it will be moved somewhere					to submit this application:
	else.					
	Use of highly toxic chemicals will affect					
	other species in the area:					
	The applicant plans to use azamethiphos,					
	cypermethrin, deltamethrin. These are all					
	highly toxic chemicals to the aquatic environment according to the European					
	Chemicals Agency. They're utility in fighting					
	lice by causing the destruction of their shells					
	will also affect other crustaceans in the area.					
	The South Bute site is already fished by CFA					
	and there is a young lobsterman who is not					
	a CFA member who works that exact area.					
	For the Cumbrae applications, it seems ridiculous that £1.8m is being spent to					
	reintroduce oysters, including placing 1300					
	in the Largs Yacht Haven and Fairlie Quay					
	Marina, and then fish farms will be					
	introduced adjacent to these sites so that					
	these toxic chemicals will impact those					
	oysters. The oysters are touted as purifiers of water and a boon to the environment but					
	if these neuro toxins affect them the money					
	and project overall will be in vain.					
	*There are otters that swim in the area of					
	the proposed South Bute fish farm. Otters					

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box one	box two	boxthree	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
are a European protected species and SEPA					
has an obligation to apply the precautionary					
principle here to protect them. These will be					
affected directly by absorbing the chemicals					
if they are in the water at the time of					
treatments and indirectly through eating					
shellfish that have been affected by the					
chemicals.					
SEPAs own study in 2018 in Shetland					
showed that chemical dispersion could be					
wider than modelled as well as chemicals					
lasting longer than expected. Why should					
we believe this will not happen in the Clyde?					
https://consultation.sepa.org.uk/sector-					
plan/finfishaquaculture/supporting_docume					
nts/Fish%20Farm%20Survey%20Report.					
Lice soup will be created in the Clyde,					
impacting wild salmonids					
Holding 2500t of fish in an open cage will					
build up a concentration of lice which will be					
exacerbated by the relatively close proximity					
of the three proposed farms across the					
entrance of the Clyde. This will impact on					
the wild salmonids exiting and re-entering					
the Clyde as they leave and return to their					
spawning grounds at the Endrick Waters, a					
European designated Special Area of					
Conservation. *The Scottish Government,					
and thus SEPA as its agent, is obliged to					
protect these wild salmonid as they travel					
through Scottish waters. It has recently been					
established that lice from fish farms can					
impact wild salmonids and any doubt about					
the magnitude of such impact should be					
subjected to the precautionary principle and					
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Please refer to this model for impact of lice					
from fish farms and thus the impact on the					
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	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
39	Argyll and Bute Council Opinion response to	The otters that live and feed all around Bute	The three bath treatment chemicals that	I think it will cost some people part or all of	As above	The three bath treatment chemicals that
	the Dawnfresh 19/00233/SCRSCO	but particularly those near Hawks Neb,	have been mentioned in the CAR application	their livelihood- and/or Clyde Fisherman	7.5 4.50 **C	have been mentioned in the CAR application
	screening/scoping application on the 17	photos of which can be seen on the Isle of	– azamethiphos, cypermethrin, and	Association members		– azamethiphos, cypermethrin, and
	May 2019	Bute Facebook Group page, which are	deltamethrin			deltamethrin
	This opinion from the ABCouncil stated the	enjoyed by many		I think it will inhibit the success of the re-		
	proposed fish farm is likely to give rise "to		Faecal waste from such a large number of	introduction of oysters to the area, a project		Faecal waste from such a large number of
	significant environmental effects"	The fishing grounds at Hawks Neb of the	fish for such an extended period of time	that will improve the water quality rather		fish for such an extended period of time
	Fish faecal matter will affect water quality:	lobsterman and of members of the CFA		than negatively impact it as the proposed		
	For 94 years, from 1904 until 31 December		I would like to say that in reading the	fish farms would		As above, I again would like to say that in
	1998, the sewage sludge from Glasgow was	The wild salmonids that are	application I am concerned overall by the			reading the application I am concerned
	shipped down the Clyde and dumped at	leaving/returning to their spawning grounds	slip shod science that has been used in	The proposed fish farms are directly in the		overall by the slip shod science that has
	Garroch Head of the south of Bute. On the	at the Endrick Water SAC	producing the applications – this casts doubt	highest use areas for kayaking, sailing and		been used in producing the applications –
	SEPA website the water quality of the whole		upon any assertions Dawnfresh makes. In	merchant navy activity so any of these users		this casts doubt upon any assertions
	area around Arran, Bute and the Cumbraes	The newly installed oysters at the Largs	particular, I do not understand why we are	will be impacted.		Dawnfresh makes. In particular, I do not
	was only moderate and the website cited sewage as the reason. Only in the last	Yacht Marina and Fairlie Quay Marina	consulting on information/data that was gathered almost three years ago. I do not	The Cumbrae farms would affect the		understand why we are consulting on information/data that was gathered almost
	several years has the water quality in this	The water quality of the general area due to	understand why the required amount of	livelihoods of all the charter companies that		three years ago. I do not understand why
	area been upgraded to good. How can it be	faecal and food waste	current data gathering days is not met for	use the area for wildlife sight-seeing tours.		the required amount of current data
	sensible to now allow three fish farms to	raccarana rood waste	South Bute – if there were difficulties due to	use the area for whalife sight seeing tours.		gathering days is not met for South Bute – if
	allow untreated faeces from tens of		weather or accidental dislodging due to	Wild swimmers would lose a stretch of the		there were difficulties due to weather or
	thousands of caged fish enter this fragile		another water user, surely it is up to	Bute coastline for their swimming activities.		accidental dislodging due to another water
	area? Dr Luxmore, who before retiring was		Dawnfresh to spend the time and money to	Please refer to the Bute Outdoor Swimming		user, surely it is up to Dawnfresh to spend
	senior nature conservation officer at the		gather the appropriate amount of data. I do	Society FB group page (approx. 500		the time and money to gather the
	National Trust Scotland said that one fish		not understand why Glasgow airport wind	members) and see the swims that have		appropriate amount of data. I do not
	farm of the size proposed produces the		data and Inverkip meteorological data is	taken place from Kilchattan Bayto		understand why Glasgow airport wind data
	sewage equivalent of a town twice the size		used in the modelling. Any of us who live in	Glencallum Bay. Also, there is currently no		and Inverkip meteorological data is used in
	of Oban. With three farms proposed across		this area know that the winds and weather	knowledge of the possible effects of the		the modelling. Any of us who live in this area
	the mouth of the Clyde we would be		we face here are completely different to	toxic bath treatments on humans, so again		know that the winds and weather we face
	allowing waste equivalent to that of 105,000		Inverkip and even more so to Glasgow	the precautionary principle should be		here are completely different to Inverkip
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	No other form of farming would be allowed		chastised SEPA for lack of oversight and			after the ECCLR report in 2018 chastised
	to let the untreated waste of its animals		SEPA reformed its application standards,	The newly established paddle boarding		SEPA for lack of oversight and SEPA
	freely enter and pollute the environment. The idea that faeces and/or chemicals will		why are these applications being allowed to	company on Bute would lose a stretch of coast line for its customers.		reformed its application standards, why are these applications being allowed to use old
	be dispersed is not an acceptable argument:		use old data input to outdated modelling	coast line for its customers.		data in put to outdated modelling systems
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	in the Largs Yacht Haven and Fairlie Quay					
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40	At the broadest level, the use of three	The newly installed oysters at the Largs	Azamethiphos, deltamethrin and	The Cumbrae farms would affect the	I believe the response here is covered by the	The three bath treatment chemicals that
	chemical treatments and the deposition of	Yacht Marina and Fairlie Quay Marina.	cypermethrin. All three are highly	livelihoods of all the charter companies that	response to the question immediately	have been mentioned in the CAR application
	huge amounts of fish excrement from three	The wild salmonids that are	poisonous chemicals which have the	use the area for wildlife sight-seeing tours.	above, which I will restate for convenience:	_
	closely sited farms will inevitably affect the	leaving/returning to their spawning grounds	potential to harm many forms of marine life	This proposal is alongside two other	The Cumbrae farms would affect the	azamethiphos, cypermethrin, and
	water environment. Given all the good work	at the Endrick Water SAC.	- any doubts around these cannot be set	proposals (Bute and Large Cumbrae) so it is	livelihoods of all the charter companies that	deltamethrin - and the amounts of these
	that has taken place in recent years to help	Crustaceans generally that may come into	aside. in fact should deltamethrin and	critical that the combined impact of these 3	use the area for wildlife sight-seeing tours.	and where they end up.
	restore the water quality of this area of the	contact with treatment chemicals which	cypermethrin be permitted at all when	fish farms in a small area of the Clyde should	This proposal is alongside two other	Faecal waste from such a large number of
	Clyde (after it had been in a poor condition	work by penetrating crustacean shells.	MOWI are on record as claiming that they	be considered - it is surely not viable to just	proposals (Bute and Large Cumbrae) so it is	fish for such an extended period of time -
	for many years certainly in part due to	Possibly any shore wildlife that are part of	are no longer effective against sea lice.	consider impact of each individually, given	critical that the combined impact of these 3	again, the amounts of this and where ends
	human sewage dumping), it is surely a step	the food chain.	Additionally, the biochemical effects of such	their proximity. It follows that they each	fish farms in a small area of the Clyde should	up.
	backwards by now allowing untreated		large deposits of waste, rich in ammonia,	impact on the locations of the other - the	be considered - it is surely not viable to just	Please allow the Clyde the chance to
	faeces from tens of thousands of caged fish		phosphates and nitrates are by no means	proposed Bute fish farm will impact on both	consider impact of each individually, given	continue to grow back to full health, and not
	enter this fragile area.		agreed - again, is the evidence robust	Cumbrae islands, as well as their individual	their proximity. It follows that they each	allow for the introduction of these proposed
	There are already simply too many fish		enough to allow these applications to	fish farms, and so on. Therefore this Little	impact on the locations of the other - the	fish farms to usher in long term damage.
	farms in the Clyde and these are placed at a		continue? - surely not	Cumbrae fish farm could impact a range of	proposed Bute fish farm will impact on both Cumbrae islands, as well as their individual	
	very damaging position. I also believe it is		the modelling undertaken on behalf of Dawnfresh is now 3 years old, with	people using the water environment around	fish farms, and so on. Therefore this Little	
	important that the impact of the 3 proposed		•	Bute and Large Cumbrae:	•	
	applications (Bute + Cumbraes) should be considered collectively, since they are		potentially irrelevant weather data from a remote and different location - this is	There is a local lobster fisherman who fishes the waters in question, as do members of	Cumbrae fish farm could impact a range of people using the water environment around	
	relatively close and the sum of the dispersal		grounds for unreliable conclusions having	the Clyde Fisherman's Assn	Bute and Large Cumbrae:	
	of fish waste and treatment chemicals		been submitted by Dawnfresh.	Sea swimmers would lose a stretch of the	There is a local lobster fisherman who fishes	
	should be considered as a whole - not		Also, the faecal waste itself, from such a	Bute coastline for their swimming activities.	the waters in question, as do members of	
	individually - i.e. it is not appropriate to		large number of fish and for such an	The Bute Outdoor Swimming Society	the Clyde Fisherman's Assn	
	consider each proposed fish farm in		extended period of time, is not a good thing!	(approx. 500 members) have organised	Sea swimmers would lose a stretch of the	
	isolation, given their proximity.		More generally the use of Glasgow airport	swims from Kilchattan Bay to Glencallum	Bute coastline for their swimming activities.	
	I also believe that the proposed fish farms		wind data and Inverkip meteorological data	Bay - see their Facebook site for evidence of	The Bute Outdoor Swimming Society	
	will impact the water environment because		in the modelling undertaken is	this.	(approx. 500 members) have organised	
	Dawnfresh have a record of poor behaviour		inappropriate: i have lived in the Clyde area	Similarly the newly formed paddle boarding	swims from Kilchattan Bay to Glencallum	
	in Loch Etive with a similar group of farms.		for 20+ years and am adamant that the	company on Bute would lose a stretch of	Bay - see their Facebook site for evidence of	
	This is highly relevant.		winds and weather we face here are	coast line for its customers.	this.	
	Dawnfresh intend to use azamthiphos,		completely different out on these local	The proposed fish farms are directly in one	Similarly the newly formed paddle boarding	
	cypermethrin, deltamethrin. These are all		islands - it is a local weather pattern. And	of the highest use areas for kayaking, sailing	company on Bute would lose a stretch of	
	highly toxic chemicals to the aquatic		given that the ECCLR report in 2018	and merchant navy activity so any of these	coast line for its customers.	
	environment according to the European		criticised SEPA for lack of oversight, why are	users will be impacted.	The proposed fish farms are directly in one	
	Chemicals Agency. They fight lice by causing		these applications now being allowed to use	The dispersion modelling for the Bute	of the highest use areas for kayaking, sailing	
	the destruction of their shells, but this will		old data input to outdated modelling	fishfarm but also the 2 Cumbrae fishfarms	and merchant navy activity so any of these	
	also affect other crustaceans in the area.		systems as part of this application? This is	shows that the coast of Big Cumbrae,	users will be impacted.	
	The South Bute site is already fished by CFA		highly relevant to the addition of treatment	particularly Millport Bay and the western	The dispersion modelling for the Bute	
	and there is a young lobsterman who is not		chemicals to our local waters, given the	shore, and the waterfront of Largs will have	fishfarm but also the 2 Cumbrae fishfarms	
	a CFA member who works that exact area.		doubts around the modelling undertaken.	the three toxic chemicals washing up and	shows that the coast of Big Cumbrae,	
	SEPA carried out a study in 2018 in Shetland that showed that chemical dispersion could			accumulating after bath treatments. Can people be sure that water quality on these	particularly Millport Bay and the western	
	be wider than modelled, in addition to				shore, and the waterfront of Largs will have	
	chemicals lasting longer than expected. Why			shorelines, which are often used by families to swim and paddle, will not be affected -	the three toxic chemicals washing up and accumulating after bath treatments. Can	
	should we believe this will not happen in the			surely this cannot be guaranteed. How these	people be sure that water quality on these	
	Clyde?			chemicals can be allowed to impact	shorelines, which are often used by families	
	The Scottish Government and SEPA is			populated areas, without some expectation	to swim and paddle, will not be affected -	
	obliged to protect wild salmonid as they			of impact on locals.	surely this cannot be guaranteed. How these	
	travel through Scottish waters. It has				chemicals can be allowed to impact	
	recently been established that lice from fish				populated areas, without some expectation	
	farms can impact wild salmonids and any				of impact on locals.	
	doubt about the magnitude of such impact				•	
	should not be ignored. The concentrations					
	of lice, from the proposed 3 sites in close					
	proximity, will impact on the wild salmonids					
	exiting and re-entering the Clyde as they					
	leave and return to their spawning grounds					
	at the Endrick Waters, a European					
	designated Special Area of Conservation.					

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41	I am extremely concerned that any further					
	expansion of aquaculture open cage					
	production in the area will do great further					
	damage to the very fragile stocks of wild					
	salmon and seatrout in the area. There is a					
	mass of scientific evidence showing the					
	catastrophic effects which sea lice					
	emanating from open cages have on					
	migratory fish and 3 Government					
	established Committees have all agreed that					
	the status quo in respect of aquaculture regulations is 'not an option'.					
	Hence, until at least the recommendations					
	of the Salmon Interactions Working Group					
	contained in their ReportdatedMay2020					
	have been implemented in full, no further					
	expansion of the aquaculture industry ought					
	to be approved in the area of the Firth of					
	Clyde/Argyll waters.					
42	The obvious reasons are if you feed	Vital scallop and nethrop and most	Chemical and waste also disturbing the	Fishermen of all kinds and pleasure crafts	As above	Both
	something it produces wast and the	important herring spawning ground	natural habitat	never mind ruining a place of outstanding		
	chemicals add to treat .			beauty		
	Also taking vital sheltered water away from					
	fisheries for the safety and financial impact					
	to those fishing it .					
43	Fish farms using open nets discharge all	see above re wild salmonids	All the fish farm pesticides are of concern:	Many fishermen in the Greater Clyde catch	See above	All the licensed fish farm bath chemicals are
	their organic particulate waste, all the	There seems to be no suitable place to address the inadequacy of the pollution	azamethiphos, cypermethrin, deltamethrin and hydrogen peroxide. Peer-reviewed	crabs, prawns and lobsters. Fish farm pesticides are intended to kill crustaceans,		a threat to commercially-fished crustaceans and to people in the water near the farms or
	dissolved nutrients excreted by the fish, and all the pesticides used to treat the fish into	modelling submitted by DawnFresh, so I	science shows that they are all toxic to	so these species are vulnerable to harm.		well boats, at the concentrations used in fish
	the water. They can all affect the water	have included it here:	marine life at the levels used in fish farms. It	Norwegian shrimp fishermen have reported		farm cages and potentially at considerable
	quality and seabed life. Fish farms also	DF first applied for CAR licences for its Firth	seems to be impossible to load more than	falling catches around fish farms, and so		distances beyond.
	discharge sea lice larvae, threatening wild	of Clyde farms before NewDepomod	one document in the box below - the	have fishermen in Wester Ross and the		anstantes seyona.
	salmon and trout which are a valuable part	replaced AutoDepomod but this is no excuse	attached is just one example.	Hebrides.		SEPA does not limit the quantities of
	of the water environment. The number of	for not submitting NewDepomod modelling	Emamectin benzoate is also of concern but	Anne Anderson (02/08/2018), then at SEPA,		hydrogen peroxide discharged by fish farms.
	sea lice larvae discharged depends on the	as well.	is not part of this application.	told us that she was aware of this but that:		Modelling by Mowi for its proposed Canna
	licensed fish biomass of the farm, which is	SEPA has acknowledged that the		'SEPA does not collect or produce data on		farm show that 122 tonnes of this highly
	set by SEPA. SEPA used to take responsibility	assumptions and simplifications inherent in		crustacean fisheries or on the stocks that		reactive oxidant are dumped in the sea
	for sea lice emissions but now declines to do	AutoDepomod only make it suitable for		are pursued by fishermen. SEPA has been		every time a farm is treated. Its half-life is 14
	so. It ought to take responsibility again, in	broad risk assessment. It assumes the		aware either through direct reports or		days. Peer-reviewed research shows that
	particular for the cumulative impact of lice	seabed is flat for instance and that all		through information provided indirectly - for		hydrogen peroxide kills shrimps, kelp and
	from multiple farms in the same waterbody,	material transported further than 500m		example in media stories of a possible		the polychaete worms needed to aerate the sediment under fish farm cages.
	regardless of ownership.	from the farm will vanish forever and not return on the next tide. It underestimates		change in crustacean abundance which may have been anecdotally linked to the use of		Escobar-Lux et al 2020 (Short-term exposure
		the dispersion of waste from the vicinity of		sea louse medicines such as emamectin		to hydrogen peroxide induces mortality and
		the farm.		benzoate.' This threatens jobs.		alters exploratory behaviour of European
		SEPA says that it has performed its own		,		lobster (Homarus gammarus)
		NewDepomod modelling for this farm, but		Fish farm workers must have regular blood		https://doi.org/10.1016/j.ecoenv.2020.1111
		this is not provided in the application		tests if they handle the organophosphate		11) concluded that:
		package on which we are being consulted.		pesticide azamethiphos. It would clearly be		'Exposure to H2O2 was toxic to all pelagic
		This is not acceptable. How can we assess		reckless to discharge this and other bath		larval stages tested, with estimated median
		the risk without seeing the NewDepomod		chemicals at the concentrations used in		lethal concentrations (LC50) of 177, 404, 665
		modelling? It must be provided to the public		treatments when swimmers were nearby.		and 737 mg/L for stage I, II, III and IV,
		for comment before this proposal is		Treating the two farms that have applied to		respectively. These concentrations
		assessed by SEPA.		use azamethiphos would take ten days each		represent approximately 10, 23, 40 and
		The three proposed farms are close		time (one cage per day), so		43%, of the recommended H2O2
		together. There is potential for cumulative		swimmers/marine animals would be		concentrations used for delousing salmon
		impacts yet SEPA has not provided its own assessment of this risk, as it has done for		exposed to this chemical every day for ten days each time (3 days at a time for the		on Norwegian fish farms, respectivelyNumerous behavioural
		instance for proposals in Kilbrannan Sound.		other chemicals). Mowi states that 'Over the		parameters including distance travelled to
		This is inadequate.		past 5 years (2016 – 2020 inclusive), a total		shelter, time to locate shelter and the
		SEPA has asked DF for hydrodynamic		of 102 individual cage treatments using		number of shelter inspections, were
		modelling of the larger area, and says it gave		azamethiphos have taken place at		negatively affected in lobsters exposed to
		DF advice on what this modelling should		Carradaleon 78 days during that 5-year		H2O2 when assessed immediately after the

Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will
impact the water environment Q5 - open text box one	impact the water environment Q5 - open text box two	impact the water environment Q5 - open text box three	impact on people who use the water environment Q6 - open text box one	impact on people who use the water environment Q6 open comment box two	impact on people who use the water environment Q6 - open text box three
DOX ONE	include. It would be more normal for DF to	box tinee	period.' https://portal360.argyll-	environment Qu open comment sox two	exposure period. However, no differences
	have submitted a modelling method		bute.gov.uk/my-requests/document-		between control and exposed lobsters were
	statement in advance, for SEPA approval.		viewer?DocNo=22437057 Many regular		detected after a 24 h post-exposure period.
	The modelling advice has not been		swimmers swim every day. The likelihood of		Our results demonstrate that short term
	published but the resulting hydrodynamic		swimming through an organophosphate		exposures to H2O2 are lethal to pelagic H.
	modelling is of poor quality and is not fit for		pesticide plume from Carradale on 78		gammarus life stages and can negatively
	the purpose of assessing the cumulative risk		occasions in five years does not sound		affect the shelter seeking behaviour of
	of these three farms. Presumably SEPA will		infrequent at all. Swimmers are allowed to		benthic life stages, though these
	agree and ask for better modelling.		swim anywhere, including in fish farm		behavioural changes may be short-lived.'
	For instance DF's modelling report refers to the potential for plumes of pesticides from		pollution mixing zones. They care about the highest dose of pesticides they might		SEPA must assess the impact of hydrogen
	farms to interact ('The modelling indicates		encounter, even once.		peroxide on marine life. It must also
	that there is the potential for the bath		Plumes of fish farm pesticides are allowed		reassess the EQS for other bath chemicals,
	medicines to interact with treatments form		by SEPA to disperse over 72 hours to		and apply pollution mixing zones
	South Bute along the western coast of Great		Environmental Quality Standards		consistently to these chemicals, as it would
	Cumbrae, if treatments conducted		established to protect lobsters but SEPA has		to other industries discharging waste into
	simultaneously.') but then models each		recently confirmed that it does not know		the sea.
	farm's discharges separately. Why not map		the safety thresholds for swimmers exposed		
	all three farms' discharges at the same		to these pesticides when they are dumped		NB: Not providing documents as it seems
	time?		in the sea. Wild swimming has grown greatly		only possible to upload one.
	DF's conclusion that 'It is not predicted that		in popularity in Scotland in recent years. It is		
	the discharges from the Isle of Little		a major reason for tourists to visit this area.		
	Cumbrae will interact with those from		The risk of exposure to organophosphate		
	Greater Cumbrae' is not justified by this		nerve agents is not appealing to tourists.		
	modelling report. The report does not use scientific notation -		This also threatens jobs.		
	for instance, how does 0.0000001 kg/m3				
	compare to the 100,000 ng/L concentration				
	for azamethiphos at the point of release				
	(quoted in Mowi's N Kilbrannan modelling)?				
	The report does not refer to, or model,				
	pesticide concentrations with reference to				
	SEPA's EQSs for the different chemicals.				
	Fundamentally, the report undermines its				
	own conclusions by saying 'the predicted				
	relative highs in concentrations on the				
	coastline are primarily due to particle				
	accumulation, with particles not being				
	decayed or biodegraded', and 'in the Delft3D model the particles are not acted				
	upon once they interact with the coastline.				
	This includes processes such as decay and				
	bioturbation, and therefore the predicted				
	coastal chemical densities should be				
	considered as worst case', in other words				
	the report says that the high concentrations				
	of chemicals at the coastline are an artefact				
	of the modelling rather than a real effect.				
	The coastline is where wild swimmers are				
	most likely to encounter these chemicals				
	and where most creel fishermen operate.				
	How can DF use this model to assess those				
	impacts or impacts on PMFs, all of which depend on knowing the concentrations of				
	bath chemicals?				
	This is not acceptable.				
	Why was hydrogen peroxide dispersion not				
	modelled, as Mowi has done at Canna?				
	Other flaws with DawnFresh's				
	AutoDepomod modelling include:				
	References to the Allowable Zone of Effect				
	(AZE) which has been consigned to history -				
	new farms have mixing zones.				

box one	In the preamble (p3) the report says, 'the mid-range speeds observed at the site during a 90 day ADCP deployment were used in the modelling'. The main body of the document says that just 15 days of sampled tidal data are used to simulate where the waste will go (p4). This analysis proposes just one seabed sampling transect. SEPA now requires more sampling for all new sites, with four transects. More than 20kg of waste are expected to fall per metre squared per year, under the cages. 916 tonnes of solid particulate waste would be released per year (page 11), 196t of which will leave the modelled domain (0.5km from farm) each year - this is almost certainly an underestimate, due to AutoDepomod's flaws. The BathAuto modelling also uses a model that SEPA acknowledges is over-simplistic. Even so, for azamethiphos it found that 'the	box three	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
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	that SEPA acknowledges is over-simplistic.				
	long term model did not iterate to a				
	compliant pass therefore Azamethiphos				
	cannot be used at the site.'				
	This farm is in a critically important location				
	for migrating wild salmon smolts from the				
	Endrick Water SAC, which must be				
	protected beyond reasonable scientific				
	doubt.				
	How can DF expect to keep sea lice on its				
	fish at a very low level during the wild smolt				
	migration if this farm cannot use				
	azamethiphos or emamectin benzoate?				
	The Rural Economy and Connectivity				
	Committee's 2018 report on salmon farming				
	recommended that farms are not sited in				
	wild salmon migration routes. This and the				
	other DF proposals fly in the face of that				
	recommendation. They should be turned				
	down.				
	DF's hydrodynamic modelling argues that				
	SEPA's standard modelling methods are too				
	conservative: 'it is acknowledged by SEPA,				
	and demonstrated by site surveys, that for				
	some sites with higher biomass loading in				
	high energy locations the standard				
	modelling does not sufficiently predict the				
	deposition in the far-field and is unable to				
	model cumulative impacts. Therefore,				
	Dawnfresh Farming Ltd. (Dawnfresh)				
	commissioned Xodus Group (Xodus) to develop a Delft3D hydrodynamic model for				
	their aquaculture sites in the Firth of Clyde.				
	The model more accurately predicts and				
	assesses deposition within high energy				
	environments and therefore is better at				
	determining the maximum biomass that				
	sites are capable of supporting without				
	adversely impacting the benthic				
	environment.'				
	How can SEPA compare particulate waste				

Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application w
impact the water environment Q5 - open text	impact the water environment Q5 - open text	impact the water environment Q5 - open text	impact on people who use the water	impact on people who use the water	impact on people who use the water
box one	box two	box three	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
	modelling in this Dispersion Modelling				
	report, when it uses a different system to				
	SEPA's NewDepomod system under its				
	default settings?				
	How can SEPA compare the resulting				
	impacts on the quality of seabed ecology				
	when the DF hydrodynamic modelling				
	doesn't predict benthic impact at all.				
	One of key aims of this Dispersion Modelling				
	report is said to be to assess 'to what extent				
	are the SSSIs and PMFs situated in proximity				
	to the proposed sites impacted by the				
	discharges.' It has not attempted to do this				
	seriously.				
	Some of the language used in this report				
	makes no sense, for instance what on earth				
	does this mean? 'It was decided that the				
	decision to run in-combination disharge				
	models (i.e. Greater Cumbrae + Isle of Little				
	Cumbrae + South Bute) would be based on				
	the results of the individual discharges.'				
	And this? 'Bath treatments – Neap and				
	Spring tide model runs				
	The model results for the chemical				
	dispersion model runs are presented below.				
	In all models the maximum concentration of				
	approximately 0.0000001 kg/m3 (0.0001				
	ppm). These densities are generally evident				
	in the initial releases (7th June 2020 12:30				
	(Neaps) and 2nd June 2020 0800 (Springs))				
	and were chemicals are shown to				
	accumulate at the coastline.'				
	Why have DF assumed the same starting				
	concentrations for all three chemicals? That				
	seems unrealistic and must be justified.				
	Why have DF not modelled sea lice				
	dispersion while they were at it?				
	The modelling submitted is not fit for				
	purpose and should be redone and				
	published for public comment before any				
	decision is made on these licences.				
	NewDepomod modelling must also be				
	provided to the public for comment before				
	this proposal is assessed by SEPA.				

Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
44 1. Release of untreated fish farm waste	1. Benthic marine species and benthic	1. The three bath treatment chemicals that	1. There are a wide range of people who will	See comments above	1. The three bath treatment chemicals that
(faeces & waste food) and the toxic	Priority Marine Features – impact from	have been mentioned in the CAR application	be impacted by this proposed fish farm as a		have been mentioned in the CAR application
chemicals used as sea lice treatments will	waste and chemicals. There is insufficient	 azamethiphos, cypermethrin and 	result of the release of waste and toxic		 azamethiphos, cypermethrin and
smother seabed habitats and affect water	information provided with the consultation	deltamethrin.	chemicals, and the disturbance due to the		deltamethrin.
quality for marine life and all users of the	documents to enable a more detailed		presence of the fish farm – noise and		
area.	comment on this point. The seabed survey	2. The faecal waste and waste from uneaten	physical presence of the structure. There are		2. The faecal waste and waste from uneaten
2. For this proposed farm alone, the	data for the area needs to be made publicly	fish food that will be discharged, untreated,	both direct and indirect impacts on the		fish food that will be discharged, untreated,
untreated fish waste that will be discharged	available and be available for public scrutiny	into the sea.	quality of people's enjoyment, health and		into the sea.
is equivalent to the sewage produced by a	and comment alongside the other		livelihoods.		
town of over 10,000 people. Such a discharge would not be allowed for any	application documents.		Impact on marine life impacts people's wellbeing but also directly affects any		
other food production industry and should	2. Wild salmonids. Salmon and sea trout are		businesses (tourism, fishing, snorkelling,		
not be acceptable practice in the sea.	Priority Marine Features and are protected		diving) that rely on a healthy marine		
3. The overall environmental health of the	under national and international legislation		environment.		
Clyde region is not good as is shown in the	(Atlantic Salmon are listed in: Annex III of		CHAIRGINITERIC.		
2017 Clyde Marine Region Assessment.	the Bern Convention and Annex II of the EC		The following interests/businesses operate		
Historic dumping of sewage sludge in the	Habitats Directive; the UK Biodiversity		within the area/vicinity of the farm and will		
Clyde seriously impacted water quality, the	Action Plan (BAP), the Scottish Biodiversity		be negatively impacted by this proposed		
effects of which are only recently being	List and the IUCN Red List of threatened		farm:		
reversed. The siting of this and two other	species. Sea trout are also listed as a BAP		- Swimmers & beach users		
open cage fish farms in close proximity to	species.)		- Wildlife watching businesses		
each other will again lead to dumping of			- Kayakers/sailers/paddlboarders		
huge volumes of untreated waste into the	Migrating wild salmon will be impacted by		- Fishermen – locally based and Clyde		
sea with consequent negative impacts.	this proposed farm when leaving/returning		fishermen's Association members. Loss of		
4. The modelling of the impacts of	to their spawning grounds and will pass		ground and impact of chemicals and waste		
discharges from the farm is inadequate and	through the areas of the proposed fish farm		on target species (crustaceans)		
does not meet current standards. The old	and sea lice plumes resulting from the fish		- Scuba divers / snorkellers		
AutoDEPOMOD model that has been used in	farm (alone and in combination with sea lice		The dispersion modelling for this application		
the modelling has been shown to be flawed in terms of describing sediment transport	from other fish farms). There are many important salmon rivers within the Clyde		and the two other Dawnfresh farm applications nearby shows that there will be		
and deposition, meaning that the results of	catchment that all risk being affected by this		toxic chemicals washing up in areas of the		
the waste modelling presented for this	proposed farm and the others nearby being		coast, particularly Millport Bay and the		
application are therefore unacceptable and	proposed concurrently by Dawnfresh.		western shore and the waterfront of Largs.		
cannot be relied upon. It is not acceptable					
that this outdated and discredited modelling	Wild salmon that are a feature of the				
approach is considered adequate to assess	Endrick Water Special Area of Conservation				
the likely impacts of this proposed farm, or	(SAC) are at risk of being adversely affected				
the other two farms proposed by Dawnfresh	by this proposed farm. As part of the CAR				
in the nearby locality. Issuing a CAR licence	licencing process (a plan/project), a Habitats				
on the basis of this outdated modelling	Regulations Appraisal (HRA) should be				
methodology is unacceptable and contrary	prepared by SEPA that assesses the impact				
to current modelling and regulatory	of sea lice and other impacts of the				
requirements.	proposed farm (alone and in combination)				
5. We can see that additional hydrodynamic	on the Endrick Water SAC. The HRA should be made publicly available as part of the				
modelling (Delft-3D) has been presented by Dawnfresh. Was the modelling approach	documentation for this application. The				
approved by SEPA? How does the modelling	· ·				
of particulate waste dispersal by this	reasonable scientific doubt that the plan or				
different system compare to the	project that is being assessed will not				
NewDepomod approach accepted by SEPA?	adversely affect the integrity of the SAC.				
How do the model outputs presented in the	Processing the CAR application should not				
documents compare to assessment of	proceed without the HRA being completed				
seabed quality using IQI standards? Only	and available for public comment.				
limited current data has been applied to the					
model. We cannot see that the	3. Otters (A European Protected Species) -				
hydrodynamic modelling enables a realistic	present in the coastal area. Feed in the				
prediction of benthic impacts. All this	coastal waters and will be affected by				
further highlights the flaws in the modelling	impacts of waste and toxic chemicals				
and questions the validity of the model	directly and indirectly.				
outputs to assess impacts on seabed ecology					
and biodiversity.	4. Commercially important shellfish, e.g.				
6. Where are the reports of benthic seabed	lobster, crab. Significant risk from effects of				
surveys? It is impossible to see how	toxic chemicals and impact of waste on				

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assessment of impact on benthic marine	seabed habitats and ecology.		The second secon	To open commence working	Que open tenteun tinee
communities and any Priority Marine	seased habitats and ecology.				
Feature benthic habitat and species has	5. Oysters – native oysters recently				
been addressed as this information has not	introduced to Largs Yacht Marine and Fairlie				
been made publicly available as part of the	Quay Marina				
consultation documents. The seabed survey	Quay Marina				
reports need to be part of the consultation	6. Humans – impact of toxic chemicals and				
•	·				
documents so that everyone can see, and	waste on wellbeing and livelihoods of				
assess, the adequacy of the information that	existing businesses that rely on a healthy,				
is being used. The modelling report is dated	productive and attractive marine				
2018. Has any more recent survey data been	environment.				
collected and, if it has, how has it been					
incorporated into the assessment of					
impacts?					
7. The applicant proposes to use chemicals					
that are all highly toxic to the aquatic					
environment (azamethiphos, cypermethrin,					
deltamethrin). These chemicals will affect					
other marine life (in particular crustaceans)					
in the area and post a health risk to sea					
users. The assessment of chemical					
dispersion from the farms is fundamentally					
flawed. The modelling report acknowledges					
that the method cannot accurately predict					
what happens near the coast where, it could					
be argued, understanding the fate of the					
chemicals is most critical in terms of impact					
on many sea users. The report seeks to					
undermine the significance of coastal					
chemical concentrations by saying that the					
model outputs reflect a worst case scenario.					
For any sea users in the area, whether they					
are swimmers, kayakers, fishermen or scuba					
divers, understanding the full implications of					
the discharge of these toxic chemicals and					
levels of contamination along the shore and					
inshore areas is paramount for their safety					
and livelihoods. The information presented					
does not enable an accurate assessment of					
potential risk and therefore should not be					
accepted as a justification for licencing these					
applications. The modelling assumes the same starting					
concentrations for all chemicals considered.					
Why is this? What are the real					
concentrations at the point of discharge and					
how are these worked out? How do the					
chemical concentration over time relate to					
the SEPA EQS thresholds? This should be					
clearly shown on the information presented.					
8. There are three farms proposed in close					
proximity to each other but there is no					
assessment of cumulative effects of the					
discharges from these farms in combination.					
The dispersion modelling predicts that there					
will be some interaction between discharges					
from the farms but does not investigate this					
further. A proper cumulative assessment is					
required.					
9. There appears to be no consideration of					
the likely overlapping of Disease					
Management Areas (DMAs). The National					
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Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open textbox three
sites should not bridge DMAs, so how is this			·	·	·
requirement being addressed?					
10. There is a significant and high likelihood					
of adverse impact on wild salmonids as a					
result of this proposal alone and in					
combination with the other two Dawnfresh					
open cage fish farm proposals that are being					
consulted on. This is due to the thousands of					
farmed fish that would be present in the					
cages acting as hosts for sea lice, creating a					
significant source for sea lice that are					
dispersed into the surrounding area and on					
to infect wild salmon and trout within the					
water body. The total sea lice load arising					
from a marine fish farm is a function of the					
number of lice per farmed fish, and the total					
number of fish maintained in the cages.					
Maximum biomass consented via the CAR					
licensing system directly influences the					
number of larval sea lice released into the					
environment. There is a cumulative impact					
from farms within the same water body –					
this is not just the three Dawnfresh					
proposals but also the overall sea lice					
burden arising from other open cage fish					
farms within the Clyde Region. This					
cumulative impact needs to be assessed. I					
refer you to this animation of modelled sea					
lice burden which indicates the very					
significant risk from this proposed farm and					
in combination with other open cage fish					
farms: https://vimeo.com/496948354					

Tell us about why you think the application will impact the water environment. - Q5 - open text box one

- Individually, all 3 fish farm proposals are likely to have 'significant environmental effect'
- Faecal and food waste deposited from the fish farm cages will adversely increase organic and nutrient enrichment of the Clyde estuary reducing its water quality.
- There are increased concerns over extensive areas of Beggiaot spp. smothering sub littoral sediments in Fairlie Roads, Hunterston and Largs Channels . This species is an indicator of polluted marine environments and sign of environmental degradation which will be exacerbated by organic enrichment from the farm sites.
- The area around fish farm sites are a known hotspot for invasive species and pose significant risk to Scotland biodiversity. The carpet sea squirt (Didemnum vexillum) is a high priority INNS species and further spread likely lead to a failure to meet water quality standards. The fish farms and attendant vessels will provide attachment surface and act as transmission vector for this species.
- Hydrodynamic models developed by Strathclyde University (FVCOM Models) indicates that waste and chemical pollutants are unlikely to be dispersed into open sea from this area of the Clyde estuary. The hydrodynamic parameters and environment in Clyde estuary are in a constant state of flux, and seasonally changes occur depending on wind direction, influx of fresh water and thermalise stratification. The Dawnfresh models fail to properly attend to dynamic changes.
- Nutrient enrichment will increase occurrence and severity of deleterious algal blooms. This significant issue in some Clyde sea lochs (Loch Fyne, Striven & Loch Long) and of increasing concern in the outer estuary during periods of thermal stratification and reduce mixing.

Tell us about why you think the application will impact the water environment. - Q5 - open text box two

- The Cumbraes Marine Consultation Area is noted for its diverse benthic communities and assemblages of macroalgae. Two farms are located within this designation but effluent from all three will severely impact biota located there.
- Southannan SSSI is noted for its diversity of infauna species and substantial areas of dwarf eelgrass (Zostera noltei). It is also home to biogenic reefs listed as OSPAR Priority Marine features including native oyster and mussel biotopes. Any additional nutrient enrichment and chemical pollution pose a substantial threat to these internationally and highly protected habitats.
- Kames Bay SSSI is in the direct path of the effluent plumes modelled from Little Cumbrae. The chemical effluents will have deleterious impact on crustacea and molluscs studied there and impact is usefulness and purpose of notification as a SSSI. Intelligent decision making about how best to manage SSSIs, and coasts in general, in a sensitive and sustainable way in order to conserve biodiversity, requires basic science at the heart of an integrated Coastal Zone Management policy (Moore 2020). The Dawnfresh applications offend basic concepts enshrined within ecosystem approach to marine spatial planning. • Ballochmartin Bay SSSI will be impacted and home to diverse range of macrofauna and denuded native oyster population which will be impacted from proposed fish farm
- Loch Goil MPA is distant to the proposed fish farm locations but widely known and accepted that prevailing winds force litter and effluents towards the heads of Loch Long and Goil and consequences for protected features located there.

effluents.

- Endrick Water SAC. The fish farms are located on migratory pathway for Endrick Water SAC.
- European Protected Species o Otters are protected species. All 3 fish farms are located within the home range and prime foraging locations of known otter populations. Otters will be displaced from natural foraging grounds, bioaccumulate toxins and resultant predator management issues.
- o Harbour Porpoise are year round residents and utilise the areas where fish farms will be located. Passive Acoustic Monitoring survey data indicates that these areas are persistent hotspots for this species. Scottish Marine Animal Stranding's toxicological data indicate that harbour porpoise populations are accumulating biotoxins and susceptible to chemicals listed in the CAR applications. o A resident common dolphin has a home

Tell us about why you think the application will impact the water environment. - Q5 - open text box three

- o The applicant plans to use azamethiphos, cypermethrin, deltamethrin are recognised to have high levels of toxicity and harmful to most forms of marine life.
- o The chemical dispersion modelling is inadequate and likely to be much wider and more persistent than that reported in CAR application.
- o Faeces and waste food will exacerbate eutrophication on Clyde estuary water body. o Sea lice can be considered a biogenic effluent and poses a significant and unacceptable risk to migratory and wild salmonids.
- o The application proposes to deposit 25kg/square metre per annum of food and faeces below the farm cages. This is wholly unacceptable within Cumbraes MCA are which is designated for assortment of benthic biota, PMFs and algae communities. o Fishfarm companies (MOWI) have stated in recent applications that Cypermethrin and Deltamethrin are no longer effective and that only Azamethiphos works. This raises a legitimate question as to why Dawnfresh should be given permission by SEOA to introduce these chemicals into the environmen.

Tell us about why you think the application will impact on people who use the water environment. - Q6 - open text box one

o Commercial and hobby fishers will be impacted both directly and indirectly. The fish farm locations are heavily utilised by static gear fisherman who will be displaced from these areas and result in further conflict with other water users and mobile sector. The toxic chemical listed in application are known to have deleterious impact on crustacea shell formation with resultant economic impact to fishers. o The dispersion modelling for the three farms indicates that the North Coast area, particularly Millport Bay and the waterfront of Largs will be exposed to toxic chemicals. This exposure is unacceptable to all water users and children who visit these areas. o All three farm sites present an significant obstruction to vessels, the safe passage of sailing vessels and present an unecessary risk to navigation.

o There is currently no knowledge of the possible effects of the toxic bath treatments on humans, so again the precautionary principle should be applied.

Tell us about why you think the application will impact on people who use the water environment. - Q6 open comment box two

o Wild Oyster Project – The projects areas of interest and proposed sites for biogenic reef and native oyster restoration will be impacted by effluents from proposed fish farm sites. Considerable investment has been made to identify potential sites and fish farms locations present an unacceptable risk to further development and investment in the area.

o Environmental Education – The coastal sites around Cumbrae and Hawks Nebb are heavily utilised by eco tourism businesses and used for environmental education purposes which will be economically impacted and substantially reduce quality of eco-tourism offering.

o All of the proposed fish farm sites are high recreational use areas and will impact quality of experience and pose significant health risk to coastal swimmers, kayakers, anglers and non-commercial water users. o The children from our communities will be exposed to carcinogenic and toxic chemicals.

Tell us about why you think the application will impact on people who use the water environment. - Q6 - open text box three

o The fish farm application does not address any cumulative impacts between the farms. It is our understanding that the AutoDepomod modelling presented in the application has been superseded by NewDepomod which should have been used in the application and impossible to properly predict discharge impacts without it.
o The report plays 'lip-service' to combined effects from the various farms and dismisses importance of modelling cumulative impacts.

o The farm sites are in close spatial proximity to each other but hydrodynamic modelling fails to indicate pollution source interactions across the sites.

o The modelling reports state that the method used produces artefacts close to the shore and exactly where concentrations of pollutants are of most concern and highest risk to human receptors.

o Our communities endure nuclear contamination from Hunterston effluent outflows and irresponsible not to acknowledge cumulative impacts to receptors.

o The meteorological data used in modelling is not fit for purpose and resolution does not properly describe meteorological situation at the fish farm sites.

o Some of the surrounding communities have experienced an increase in population (Fairlie +25%) but waste water infrastructure has not been updated with more effluent and increasing frequency of storm overflow discharge events. The environment is under considerable pressure from eutrophication yet no mention of eutrophication baseline and/or assessment of cumulative impacts from fish farms. o The waters around these sites are heavily utilised by water users who will become exposed to azamethiphos. Calls have been made for independent assessment of the impacts of these chemicals on people immersed in the sea. SEPA is required to take responsible for this assessment. o The proposed farm sites will bridge the

Loch Striven and Arran Disease
Management Areas but no indication in
license applications on increases in
pollutants that will be required to control
disease events spreading across
management areas.
o The hydrodynamic modelling makes no

reference to planned coastal flood defence works in Millport Bay which will greatly modify the currents and pollutant exposure from fish farm sites.

o Newton Beach in Kames Bay is North Ayrshire only award winning beach and will be heavily and directly impacted by organic and chemical pollution plumes from the

Tell us about why you think the application will impact the water environment Q5 - opentext box one	Tell us about why you think the application will impact the water environment Q5 - opentext box two	Tell us about why you think the application will impact the water environment Q5 - opentext box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application vimpact on people who use the water environment Q6 - open text box three
	range within meters of the Cumbrae fish				Little Cumbrae fish farm proposals. The
	farm site. This animal will be impacted by				criteria for awarding this status hinges on
	chemical toxins from fish farms and effluent				the demonstration of outstanding beach
	from attendant vessels.				management and environmental practice
	o Basking Sharks are known to utilise the				Community wealth building on Cumbrae
	currents at the Wee Cumbrae and Hawks				depends on this type of recognition which
	Nebb sites and likely to assimilate chemicals				has been designed in partnership and to
	pollution from the farm sites.				complement the work undertaken by SE
	 Common and grey Seals haul-out sites and 				This good work will be undone if these (
	foraging areas are located near and within				licenses are granted approval.
	the modelled effluent streams				o It is clear from the license submissions
	 Non Native Species - Rainbow trout and 				that Dawnfresh fail to comprehend the
	species proposed for fish farm sites are non-				complex hydrodynamic environment of
	native species and derived from hatcheries				Hunterston and Largs Channel with no
	in Denmark and South Africa. Escaped fish,				mention of any expected impacts to Fa
	either diploid or triploid, present an				Beach or impact to increasing amount of
	unacceptable risk to native and wild stocks.				visitors that utilise it for recreational
	Dawnfresh have very poor track record and				purposes.
	cannot guarantee fish will not escape and				
	interact with wild population and in natural				This response has been forwarded to
	habitat including Endrick Water SAC and				following elected representatives:
	other important river fisheries that are				o Mairi McAllan MSP - Environment
	confluent to the Clyde estuary.				Minister,
	Salmon and Sea Trout are Priority Marine				o Mairi Gougeon MSP - Rural Economy
	Features				Minister,
	o All three farm sites are located on				o Kenneth Gibson MSP Cunningham No
	migratory pathway for Salmon entering the				MSP
	Lomond and Endrick Waters SAC.				o Ross Greer MSP – West Region
	o The biomass and stocking density pose an				o Katy Clark MSP – West Region
	unacceptable risk to salmonid and smolt				o Jamie Greene MSP – West Region
	PMFs. SEPA should assess the impact of				o All North Ayrshire Council Councillors
	consenting almost 7500t of additional				Officers
	biomass to migrating pathway and smolt				
	corridor.				

	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
46	The application uses AutoDepomod for its	The absence of the submission of any	It is noted that Dawnfresh's own long term	To be clear the azamethiphos dispersion	The Clyde islands concerned in the three	Azamethiphos, an organophosphate, a
	waste dispersion and benthic effect	benthic survey data mean that the public	model did not iterate to a compliant pass for	modelling in the application fails to meet	development proposals from Dawnfresh,	chemical group of pesticides well known
	modelling, which SEPA has stated is not fit	cannot comment in an informed manner on	the use of azamethiphos in the supplied	the SEPA requirements and therefore should	and the mainland nearby, have for many	throughout on-land agriculture as
	for this purpose, and the applicant should have used NewDepomod for the waste	the quality and richness of this substrate and what damage might be done by both	modelling. As the application cannot pass SEPA's thresholds for dispersing the	not be licensed for this site. However, if the use of azamethiphos is considered by SEPA	decades and continue to be popular with day trippers and holiday visitors who take to	carcinogens has already been covered in some detail in the section above.
	modelling under the current regulations.	chemical treatments and solids discharge	azamethiphos quickly enough to pass its	to be licensed from its own modelling, if	the shores for recreation including	some detail mane section above.
	The Allowable Zone of Effect (AZE) referred	and deposition if there is no reference to	environmental standards for the quantities	undertaken, then I wish to state the	swimming, snorkelling, diving, kayaking and	
	to in the results is out of date as the	the data from the benthic study. These	being requested, the applicant concludes	following.	boating.	
	regulations now state that Mixing Zone	survey data and interpretation needs to be	that 'The results of the long term model	The distance to shore of the cages is less	All I I I I I I I I I I I I I I I I I I	
	modelling is required. The model presented is not consistent with the NewDepomod	made available to this consultation.	override those of the short term and therefore Azamethiphos cannot be used at	than 200m and to treat all the cages with azamethiphos will take 10 days. This plume	Although the north west coast of Little Cumbrae may not be as frequently visited	
	system and the modelled impacts on the	The recently announced project to establish	the site.'	will spread along the shore and will come	as the Bute and Cumbrae sites it is still used	
	seabed benthic ecology are not comparable	oyster beds at Fairlie Quay and Largs Marina		into contact with coastal water users as	by in and on-water users and the marine	
	(e.g. SEPA uses IQI to measure this rather	would be a major source of concern that in	As a result of this it is unclear how the	indicated in the presented dispersion	dispersion modelling also indicates that	
	than the ITI predicted by AutoDepomod).	future chemicals and organic waster release	applicant proposes to treat sea lice as no	modelling report.	there is a serious risk of human contact with	
	The hydrodynamic modelling presented	in this confined area of the Clyde Estuary	application to use emamectin benzoate as	The published data sheets for azamethiphos,	water contamination from this site in	
	does not, of course, model benthic impact. All in all the modelling is inadequate, non-	from all three Dawnfresh developments would put this oyster project at considerable	an alternative has been submitted: this needs clarification.	an organophosphorus pesticide, state that it should not be released into the	Millport Bay on Greater Cumbrae	
	compliant with the current SEPA regulations	risk of failure.	needs claimcation.	environment, but SEPA's licences tolerate		
	and therefore not fit for purpose.		Irrespective of this result I wish to state the	and permit a specified level of harm to		
		The proximity of all three development	concerns regarding azamethiphos in	marine life and the environment. There is no		
		proposals introduces a heightened risk of	particular in case this chemical use is	such tolerable level of harm permitted for		
		spreading of disease vectors and infestation throughout the linked operations by natural	reapplied for at a lower dose.	humans. This chemical is toxic as it disrupts the nervous system. The data sheets require		
		transmission pathways and by contact with	Azamethiphos is particularly toxic to	unnecessary staff to be cleared from the		
		service vessels and personnel.	crustaceans. These include the crabs,	area when applying the chemical, operators		
		·	lobsters and prawns caught by Clyde	should wear full protective clothing and it is		
		Specifically this same proximity could result	fishermen.	dangerous enough to require regular blood		
		in a continuous barrier of potential infection stretching across the very important wild	Azamethiphos in particular is also referred	tests. Numerous scientific studies have shown that		
		salmon smolt migration bottleneck from	to in a following section which covers the	poisoning can result from one large dose or		
		Loch Lomond and the Endrick Water SAC	effect on users of the water environment.	repeated very small doses of		
		catchment, sea lice population growth		organophosphates which cause		
		within the sea-trout cages and widespread	The fact that SEPA has not undertaken a	acetylcholine to build up in the human body		
		dispersal and concentration along current interfaces being a crucial risk and barrier.	scientific assessment on the risk to health of in and on-water marine users of this	over time. Organophosphates in sheep dip and insecticides have been blamed for		
		interfaces being a crucial risk and barrier.	chemical or any other chemicals which enter	degenerative neurological illness in		
			the water from the fish farm operations is a	agricultural workers and it is an offence for		
			matter for grave concern and does not	farmers to allow organophosphates to		
			appear compliant with the Water	contaminate a water-course.		
			Environment (Controlled Activities) (Scotland) Regulations 2011.	In SEPA's response to community Freedom of Information Requests asking SEPA and		
			(Scotiand) Regulations 2011.	Marine Scotland how they assessed the		
				safety of swimmers nearby it was stated		
				that they hold no data or studies on safe		
				levels of exposure for people swimming in		
				water containing this chemical. It is also understood that SEPA have never assessed		
				this risk before issuing CAR Licences for any		
				other site in Scotland.		
				If azamethiphos is dangerous for the users		
				wearing protective clothing, then it is self-		
				evidently be even more dangerous for unprotected swimmers or kayakers in the		
				immediate vicinity of a farm or well-boat		
				discharging azamethiphos over a 10 day		
				period.		
				This risk is not mitigated; attempting to stop		
				the public approaching the farm is denying them their right of access to the sea and		
				there is no law that permits an exclusion		
				zone. Exposure to repeated low doses		
				further from the farm is also understood to		

Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application will	Tell us about why you think the application wil
impact the water environment Q5 - open text	impact the water environment Q5 - open text	impact the water environment Q5 - open text	impact on people who use the water	impact on people who use the water	impact on people who use the water
box one	boxtwo	box three	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
			be dangerous, particularly for small children		
			with a small body mass, anyone suffering		
			from neurodegenerative diseases and		
			others who are susceptible to		
			organophosphates.		
			Anyone swimming along the coast will not		
			know when the water is contaminated, so		
			there should be no traces of harmful		
			chemicals where humans may be swimming		
			and it should not be forgotten that the		
			published data sheets for this chemical		
			treatment state that it should not be		
			released into the environment.		
			As well as individually the proposed Bute		
			and Cumbrae farms need to have their		
			effects assessed cumulatively along with the		
			other existing farms in the Clyde region to		
			ensure the health of the public is protected.		
			chounce the neutrinor the pastic is protested.		
			Azamethiphos is particularly toxic to		
			crustaceans. These include the crabs,		
			lobsters and prawns caught by Clyde		
			fishermen. Can SEPA to clarify whether it is		
			certain that there will be no possible impact		
			on commercially fished species and		
			therefore the livelihood of local creel		
			fishermen, despite SEPA's concerns about the cumulative impact of azamethiphos		
			plumes at other farms in the Clyde.		
			A mant forms that the standard and a second and the		
			Apart from the toxic chemicals employed in		
			intensive industrial salmon and sea trout		
			fish farming to keep diseases and pests at		
			bay and also the excreted wastes, mainly		
			faeces, are released untreated into the		
			marine environment and dispersed widely in		
			confined areas of sea raising issues of public		
			health for those who come into contact with		
			this pollution. The potential impact of the		
			waste and all chemical treatments on the		
			public health of in water and on water users		
			of the environment has not been assessed.		
I grew up sailing on the Clyde when the					
sludge boats dumped their waste. From					
studies presented online this project seems					
to be taking us back into an age when our					
respect for the environment was minimal					
and we're paying the price now.					

Tell us about why you think the application will Tell us about why you think the application will Tell us about why you think the application will Tell us about why you think the application will Tell us about why you think the application will Tell us about why you think the application will impact the water environment. - Q5 - open text impact the water environment. - Q5 - open text impact the water environment. - Q5 - open text impact on people who use the water impact on people who use the water impact on people who use the water box three environment. - Q6 - open text box one environment. - Q6 open comment box two environment. - Q6 - open text box three Fish faecal matter will affect water quality: The waterquality of the general area will be The three bath treatment chemicals that I think it will cost some people all or a part as above As in question 5, part 3: Fish faecal matter will affect water quality, impacted due to faecal and food waste. have been mentioned in the CAR application of their livelihoods - local fishermen, the The three bath treatment chemicals that just as the dumping of Glasgow's sewage new oyster farm, local have been mentioned in the CAR application - azamethiphos, cypermethrin and sludge off south Bute at Garroach Head did. The toxic chemicals used will affect other deltamethrin. hoteliers/shopkeepers as people become - azamethiphos, cypermethrin and When this process began in 1904 dispersion species both at the site and for some aware f the toxic chemicals being used deltamethrin. might have been an accepted theory, but distance around as your own study in I did not see Formaldehyde or hydrogen around the beaches, particularly in Millport surely in modern times we must realise that Shetland in 2018 showed that dispersion can peroxide mentioned in the papers we were and Largs and decide to go somewhere else I did not see Formaldehyde or hydrogen dispersion does not equal disappearance, be wider than previoulsy thought. The allowed to see but they would also be of for their day trip/paddle peroxide mentioned in the papers we were potential victims of such impacts would concern if they are mentioned in other allowed to see but they would also be of the problem just moves somewhere else while the creator/s of the problem take no include all the fishermen currently fishing in documents. I think it will impact on the success of the reconcern if they are mentioned in other responsibility for creating it or cleaning it up. the area, the newly installed oysters at Largs introduction of oysters to the area, a project documents. It is only in the past few years that the water Yacht Marina and Fairlie Quay, and guite Faecal waste from a large number of fish that will improve the water quality rather around the Cumbraes has reached 'good' possibly the humans who wade or swim or over an extended period of time - after all than degrade it as the proposed fish farms Faecal waste from a large number of fish quality again, so it seems absurd to allow use the waters around Cumbrae for other we know what happens to a fish tank, even over an extended period of time - after all this farm, in combination with 2 other water sports. As well, according to the a goldfish bowl, if not cleaned every few we know what happens to a fish tank, even Dawnfresh dispersion modelling, KAmes Bay proposed Dawnfresh sites nearby, to again The proposed fish farm sites are all in the a goldfish bowl, if not cleaned every few put untreated faecal matter equivalent to SSSI will be impacted. Documents in the heaviset use areas for kayaking, sailing and approximately 105,000 people into the Register of Scotland describe Kames Bay as I do not understand why we are being given merchant navy activity so anyone participating in these activities would be waters - you wouldn't allow even a small 'the classic Scottish site for the study of data to look at from 2018 that has been put I do not understand why we are being given into outdated modelling software. I also do data to look at from 2018 that has been put island population to put their untreated intertidal marine biology, having contributed impacted. This could have a knock on effect not understand why Dawnfresh have been as sailors want to avoid the cages and their into outdated modelling software. I also do faecal matter into the sea, would you? And more to the understanding of marine no form of land farming would be allowed to allowed to create the model they have not understand why Dawnfresh have been biology than any other stretch of beach in extended anchoring systems and sail to do this, would it? So it is unacceptable that Scotland'. These documents also say that based on an insufficient amount of current places without these, as kayakers decide to allowed to create the model they have fish farms are allowed to exploit a resource gathering days if there were difficulties due based on an insufficient amount of current 'operations likely to damage the speacial go to a less environmentally degraded area that belongs to all of us to do it. interest' include '16b Changes in coastal to weather, an instrument being dislodged to enjoy their day paddling. two ships broke gathering days if there were difficulties due fishing practice or fisheries management by another water user or a glitch in the loose from Hunterston Jetty a few months to weather, an instrument being dislodged Use of highly toxic chemicals: and seafood or marine life collection equipment, then surely it is up to Dawnfresh ago, holding the two vessels in place and she by another water user or a glitch in the The applicant plans to use azamethiphos, including the use of trap or fish cages'. to spend the time and money to gather the said they would have been sitting on or equipment, then surely it is up to Dawnfresh cypermethrin and deltamethrin. These are appropriate amount of data. If I as an running into the fish farm if it had been to spend the time and money to gather the all highly toxic chemicals to the aquatic The lice problem that will be created by this individual am applying for planning there. appropriate amount of data. If I as an environment according to the European proposed site, exponentially increased by permission to build a house I am not able to individual am applying for planning Chemicals Agency. Their utility in fighting the other two proposed sites, will have a gloss over problem areas or cut corners in As well, it is a detraction from the scenic permission to build a house I am not able to lice will be harmful to other crustaceans. A beauty of the area so might impact the huge impact on the wild salmon and trout making the application; why should a gloss over problem areas or cut corners in lot of money is being spent to reintroduce populations as has recently been accepted. charter companies running tours of the company get to do that when there is so making the application; why should a oysters to the local area with farms at Largs Does SEPA not have an obligation to protect much at stake? I do not understand why company get to do that when there is so Yacht Haven and Fairlie Quay Marina. These the salmon as they swim to and from the Glasgow airport wind data and Inverkip much at stake? I do not understand why creatures will filter the water, improving the Endrick Waters SAC? How can these meteorological data is used in the Also, it is hard to think that the community Glasgow airport wind data and Inverkip water quality overall. Why allow the fish applications even be considered? modelling. It may be what is available now on Wee Cumbrae with a mission to meteorological data is used in the farm that will only add faeces and toxic (though there was Inverkip wind data promote healthy living will benefit from modelling. It may be what is available chemicals, to impact this much more available, I checked the site they referenced having a fish farm directly adjacent to its (though there was Inverkip wind data worthwhile project. in the application) but any of us living in the shoreline, available, I checked the site they referenced area know that the winds and weather we in the application) but any of us living in the face are completely different to that in area know that the winds and weather we The Wee Cumbrae application on its own either of the other two locations mentioned. face are completely different to that in would create a lice problem that does not My husband has been on the tugs on the either of the other two locations mentioned. Clyde since 1974 and can definitively tell you exist at that site at the moment, but taken in My husband has been on the tugs on the conjunction with the other two Dawnfresh that! After the ECCLR report chastised SEPA Clyde since 1974 and can definitively tell you proposed sites at the Cumbrae and South rather rigorously for lack of oversight and that! After the ECCLR report chastised SEPA Bute there would be a lice cloud formed SEPA reformed its application standards, rather rigorously for lack of oversight and across the entire expanse of the Clyde from why are these applications being allowed to SEPA reformed its application standards, south Bute to the mainland. This is not my use old, irrelevant data input to outdated why are these applications being allowed to opinion but the modelling of Dr Tom use old, irrelevant data input to outdated modelling systems in their submission? Scanlon, a hydrodynamicist, university modelling systems in their submission? lecturer for 25 years and MD of a fluid modelling company. The video resulting from his study of the Clyde waters and how their movements would disperse lice can be seen at https://vimeo.com/496948354. Again, this would be a problem that does

not naturally exist but is created directly as a

result of Dawnfresh's own action of corralling tens of thousandsof fishinto one

	Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment O6 - open text box three
	site and then putting multiple sites in close proximity to one another.	box two	box three	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
49	This project will introduce pollution, discharges and possible disease into an otherwise natural environment. This area of water is also well used by recreational sailors, boaters and fishermen who have had access to it for centuries. It is a thoroughfare for these same sailors, boaters and fishermen.	Native fish and seal population.		This project will introduce pollution, discharges and possible disease into an otherwise natural environment. This area of water is also well used by recreational sailors, boaters and fishermen who access to it for centuries. It is a thoroughfare for these same sailors, boaters and fishermen. All watersports. Inshore fishermen also use this area for sustainable fishing.	Native seal and fish population.	
50	Fish excreta and uneaten food will build up on the seabed below the cages, destroying the seabed, and requiring the farm to be moved on infuture years. Much capital has been spent in recent years around the Clyde on improving treatment and reducing human sewage discharge - why should we now allow unfettered fish excreta discharges on a huge scale? By-discharges of highly toxic chemicals will contaminate the water for miles around, as shown by the modelling studies. Sea lice will very likely infect wild fish.	All wild species, both resident, and transiting the area.	In particular, all the chemicals listed (azamethiphos, cypermethrin, deltamethrin), all of which are stated to be very toxic to aquatic life, and have long- lasting side effects. Also fish excreta, and uneaten food.	Existing commercial fishermen will lose access to the area and vicinity of the farm. Open water swimmers, kayakers and paddle boarders, which are increasingly popular activities. Swimming is surely a particular risk, as there is significant exposure to the water. Leisure sailors (larger boats) - restriction to navigation in one of the most highly transited parts of the Clyde. Tourists - fish farms aren't exactly very attractive, and wildlife tours around Wee Cumbrae are particularly popular.	As above - loss of existing commercial fishing grounds, plus restrictions on recreational use of the area, and tourism.	In particular, all the chemicals listed (azamethiphos, cypermethrin, deltamethrin), all of which are stated to be very toxic to aquatic life, and have long-lasting side effects. It seems their long term toxicology on humans has not been established. Fish excreta.

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	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact the water environment Q5 - open text	Tell us about why you think the application will impact on people who use the water	Tell us about why you think the application will impact on people who use the water	Tell us about why you think the application will impact on people who use the water
	box one	box two	box three	environment Q6 - open text box one	environment Q6 open comment box two	environment Q6 - open text box three
51	Please see COAST's response to this	Please see COAST's response to this	Please see COAST's response to this	Please see COAST's response to this	Please see COAST's response to this	Please see COAST's response to this
	application. I am a resident of the Isle of	application. I agree with the technical	application. Lagree with the technical	application. Lagree with the technical	application. Lagree with the technical	application. Lagree with the technical
	Arran and agree with the technical	objections put forward in their response.	objections put forward in their response.	objections put forward in their response.	objections put forward in their response.	objections put forward in their response.
52	objections put forward in their response. District Salmon Fishery Boards have a	All three proposed Downfresh sites lie on an	n/a	Scotland's wild salmon and sea trout are at	As above this form alongside the other two	n/o
52	statutory responsibility to protect and	All three proposed Dawnfresh sites lie on an important migration pathway for Atlantic	П/а	crisis point with many populations below	As above, this farm, alongside the other two proposed CAR licences in this area, has the	n/a
	improve salmon and sea trout fisheries in	salmon which all fish arising from the inner		conservation limits, particularly on the West	potential to impact fisheries management	
	their district and are statutory consultees in	Clyde, including the Clyde and Lomond		Coast within the 'Aquaculture zone'. Whilst	and angling activities in a number of	
	the planning process for fish farms. Whilst	systems, will utilise. It is also high likely that		wild salmon face a range of pressures,	important rivers and fisheries, including	
	Fisheries Management Scotland do not	Atlantic salmon and sea trout arising from		specific pressures from the aquaculture	those in North Ayrshire, the Clyde and Loch	
	routinely respond to CAR licence	rivers in North Ayrshire will utilise this area.		industry include impacts from escapes and	Lomond (which includes the Endrick Water	
	applications for fish farms, we believe that	We would emphasise that both Atlantic		sea lice. Salmon and sea trout fisheries are	SAC), which are not covered by a District	
	the proposed location for this development	salmon and sea trout are Priority Marine		an important component of Scotland's rural	Salmon Fishery Board.	
	is inappropriate from the perspective of	Features – the habitats and species of		economy. These fisheries and associated		
	migratory salmonids and the interests of other water users. There are a number of	greatest conservation importance in inshore		infrastructure rely on healthy populations of		
	important rivers and fisheries that would be	waters. We also highlight that the Endrick Water is a Special Area of Conservation		fish returning to Scotland's rivers. Scottish salmon rivers are categorised by Marine		
	affected by the proposed farm site,	(SAC) with Atlantic salmon as a qualifying		Scotland Science under the salmon		
	including those in North Ayrshire, the Clyde	interest. The Endrick Water SAC is already		conservation regulations according to the		
	and Loch Lomond (which includes the	rated as being in an 'unfavourable' condition		likelihood of them meeting their		
	Endrick Water Special Area of Conservation -	by NatureScot site condition categorisation.		conservation limits. The gradings of rivers		
	https://sitelink.nature.scot/site/8252),	The Habitats Directive (article 6) requires		have been published for 2021. 104 rivers		
	which are not covered by a District Salmon	that Member States shall take appropriate		across Scotland are graded as Category 3,		
	Fishery Board. On that basis, Fisheries	steps to avoid, in the special areas of		meaning there is a less than 60% probability		
	Management Scotland will be fully engaged	conservation, the deterioration of natural		of meeting their conservation limit. Where		
	with the licensing and wider planning	habitats and the habitats of species as well		salmon populations are below their		
	process. Our primary concern are impacts on wild salmonid fish and this is covered in	as disturbance of the species for which the areas have been designated, in so far as		conservation limits, any additional pressure, including from sea lice, cannot be		
	the section below.	such disturbance could be significant in		considered sustainable.		
	line section selow.	relation to the objectives of this Directive. It		Whilst Fisheries Management Scotland do		
		also states: In the light of the conclusions of		not routinely respond to CAR licence		
		the [appropriate] assessment of the		applications for fish farms, we believe that		
		implications for the site and subject to the		the proposed location for this development		
		provisions of paragraph 4, the competent		is inappropriate based on the		
		national authorities shall agree to the plan		aforementioned impacts on the water		
		or project only after having ascertained that		environment, which will have a knock-on		
		it will not adversely affect the integrity of		effect on other water users, including		
		the site concerned and, if appropriate, after having obtained the opinion of the general		fisheries managers and anglers. As mentioned previously, the impacts of sea		
		public.		lice and farmed fish escapes can be		
		Pasito		detrimental to the water environment.		
		The proposed development, taken together		Experience from previous escapes of		
		with the other two proposed CAR licences in		rainbow trout from Dawnfresh farms,		
		this area by the same company, represent a		particularly in Loch Etive where at least		
		significant additional biomass of farmed fish		35,000 fish have escaped since 2015, have		
		in an area of the inner Clyde with no history		shown that in addition to these potential		
		of open cage fish farming. This will		ecological impacts, the escapes create a		
		represent a highly significant addition of		significant nuisance to fishery owners and		
		host fish for sea lice on an important migratory pathway for wild fish. It is		angling businesses. We therefore consider that SEPA must take the potential impacts		
		important to emphasise that the total lice		on wild fish, and the associated impact on		
		load arising from a marine fish farm is a		interests of other users of the water		
		function of the number of lice per farmed		environment fully into account when		
		fish, and the total number of fish maintained		considering this application.		
		in the cages. Maximum biomass consented				
		via the CAR licensing system therefore has a				
		direct influence on the number of larval sea				
		lice released into the environment. As set				
		out above, we therefore consider that SEPA				
		must take the potential impacts on wild fish,				
		and the associated impact on interests of other users of the water environment fully				
		into account when considering these				
L	1	mito account when considering these	l .			<u> </u>

Tell us about why you think the applicatio impact the water environment Q5 - ope box one		Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
	applications. Of particular relevance is the			20 open commenced at the	
	close proximity of the Endrick Water SAC.				
	Fish arising from this SAC, and many other				
	important local rivers, inevitably must				
	migrate directly past the proposed				
	developments on their migration through				
	the inner Clyde, placing those fish at risk				
	from lethal or damaging infestation from sea				
	lice.				
	We would also highlight the potential risk of				
	the effects of escaped farmed species on				
	wild fish populations which is widely				
	recognised within peer reviewed scientific				
	literature (e.g. Glover et al. 2017). A recently				
	recorded instance at the Mowi Scotland Ltd.				
	Carradale North site saw 48,834 farmed				
	salmon escape during a storm event in				
	August 2020. A study of scale samples				
	monitored the distribution of the escaped				
	fish and found widespread dispersion of the				
	farmed salmon. There were documented				
	cases of farmed fish found within 17 rivers,				
	the majority of which were captured within				
	the Clyde and Loch Lomond systems and a				
	number of rivers in Ayrshire and Argyll				
	(Fisheries Management Scotland, 2021).				
	Rainbow trout are a non-native species and have the potential to impact on native fish				
	species through competition and predation.				
	In addition, rainbow trout in the wild are not covered by wild fisheries legislation.				
	Experience from previous escapes of				
	rainbow trout from Dawnfresh farms,				
	particularly in Loch Etive where at least				
	35,000 fish have escaped since 2015, have				
	shown that in addition to these potential				
	ecological impacts, the escapes create a				
	significant nuisance to fishery owners and				
	angling businesses. Dawnfresh have refused				
	to recognise or compensate for these				
	impacts. SEPA have direct responsibility for				
	non-native species in rivers, so it is				
	important that this potential impact is fully				
	considered in determining this CAR licence.				
	We have attached a short summary of the				
	science which underpins our objection.				
	Whilst the impacts of sea lice arising from				
	farms may be mitigated by strategically				
	planning farm locations, there is no current				
	strategic plan within which this can happen.				
	We are conscious that SEPA, Marine				
	Scotland, NatureScot and local authorities				
	are developing a strategic framework				
	related to sea lice impacts on wild fish, but				
	this is still in development. In the meantime,				
	the precautionary principle should apply,				
	and Fisheries Management Scotland				
	strongly object to a licence being granted for				
	each of the three proposed farms.				
	References				
	Fisheries Management Scotland (2021).				
	Monitoring for the presence of farmed				
	salmon in West Coast Scottish rivers				

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Tell us about why you think the application will impact the water environment Q5 - open text box one	Tell us about why you think the application will impact the water environment Q5 - open text box two	Tell us about why you think the application will impact the water environment Q5 - open text box three	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box one	Tell us about why you think the application will impact on people who use the water environment Q6 open comment box two	Tell us about why you think the application will impact on people who use the water environment Q6 - open text box three
	following an escape from the Carradale North salmon farm. Half a century of genetic				
	interaction between farmed and wild				
	Atlantic salmon: Status of knowledge and				
	unanswered questions. Fish and Fisheries, 18(5), 890–927.				
	https://doi.org/10.1111/faf.12214				