

PFAS Technical Officer Group

Meeting notes - 14/05/24

1. Clarity of roles in the group and PFAS work going forward.

- States Analyst representative – [REDACTED] is retiring. Group felt to call a rep into the meetings as and when required.
- Jersey Water – drinking water quality. Providing advice on quality, treatment options and challenges in achieving standards. Providing a chargeable service for the public to have their water tested. Public messaging.
- Land Resource Management (Natural Environment) – monitoring of PFAS in groundwater and surface water, and potentially other media.
- Pollution Control (Regulation) – regulator under Water Pollution Law and authority for issuing discharge permits (discharging to controlled waters, i.e. airport to off-site). Historic pollution/enforcement.
- Housing & Nuisance (Regulation) will regulate private water supplies in properties. Water 1972 Law.
- Food and Plant Security (Regulation) – primary production. Who sets the limits?
- Food & Public Health (Regulation) – regulate Jersey Water.
- Public Health (SPPP) – will provide updates and liaison with Scientific Advisory Panel. Liaison with affected islanders on health & the panel's work. Liaising with Health Minister.
- [REDACTED]
- Communications team - Communicating the work of this Group, advising Group on Comms strategy, advising Environment Minister during weekly meetings, liaising with web team.
- [REDACTED] works for Public Health and will be joining this group. Toxicology experience.
- **RISK:** [REDACTED] leaving. Group to understand who will replace. Who will provide the PFAS water results to islanders and water related advice to the public for their water. Who sets the limits?

• [REDACTED]

2. Minimisation of PFAS concentrations

- a) Update on catchment initiatives and hydrogeological studies. Expected timeline and outputs for the hydrogeological survey report- how does this fit in with the Water Strategy and JW 25-year plan?
- GoJ LRM Hydrogeological survey – water sampling phase completed which was 4 quarters of sampling groundwater and surface waters at approx 60 sites. Once final round of water analysis received, LRM will send this data out to homeowners.
 - Arcadis will want to engage with Jersey Water and others for next phases of project.

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b) Update on JW treatment options

- Project to cost up treatment & removal of PFAS. Part of 25 year water management plan. To review if wellfield boreholes and Pont Marquet could be abstracted from, what are the options/costs. UK advise at the moment that water companies should work towards 10ng/l for each individual PFAS compound. Report to hopefully be published end of 2024.
- No change on water source supplies. A1 has been not in use since 2015. Pont Marquet not in use since Nov 2022. Val de la Mare reservoir – slightly higher PFAS levels in east stream.

3. Performance

a) Summary of latest sampling results (JW, Government and Ports of Jersey)

4. Working with Stakeholders & External Communications

a) Visit of the PFAS Scientific Panel and status/discussion on the environment report (links with past and more recent emails from stakeholders on sea foam).

- [REDACTED] - Updates on work of the Panel and discussions with islanders. Panel are working on report 2 which will be ready for public review in early July. Report 2 will look at whether there are health effects from PFAS. Decision making for whether report will be accepted will go through CoM. [REDACTED] to provide background to ELT and CoM in June. Panel will commence work on report 3 and meet in June – report 3 is re-testing of affected islanders, testing of anyone else, and treatment.

- Panel to visit Jersey in July. Wed 10th July – event with islanders. Panel meeting on Thurs 11th July. [REDACTED]
- (Report 4 will be environmental considerations. No clarity on funding for this).
- [REDACTED] has met with two islanders since last meeting. [REDACTED] has four actions to respond to second islander on.

b) Coms and request of the Env Minister to issue a press release- [REDACTED]

- [REDACTED]

5. Media & social media interest

- One interview held regarding PFAS-potatoes but information not yet used by media.

6. Research and innovation

7. Regulatory requirements and changes

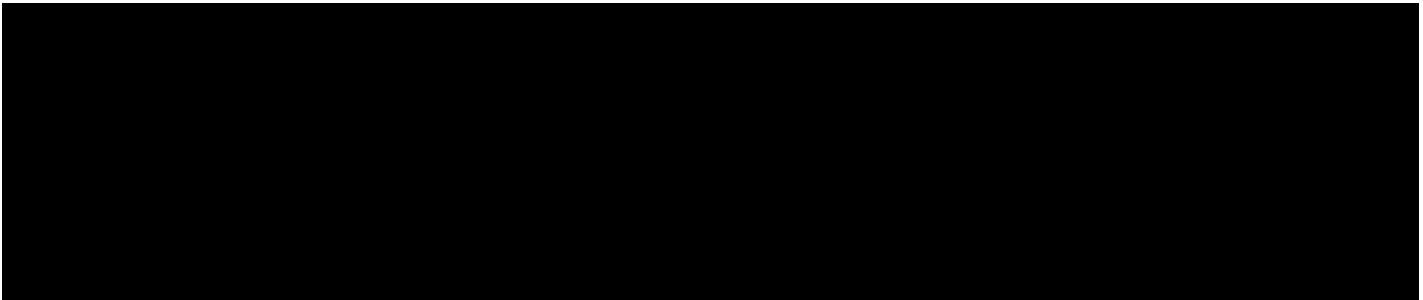
8. Any Other Business

- Add an agenda item for Ministerial Engagement.
- ECP – potatoes are being analysed for PFAS. Recent samples of Jersey Royal Potatoes. To include cooked analysis. Potatoes had recently been irrigated. Should this be repeated in the future, it needs a business case, resourcing and budget.

Meeting notes

PFAS Technical Officer Group - 11/06/24

1. Clarity of roles in the group and PFAS work going forward.



2. Minimisation of PFAS concentrations

a) Update on catchment initiatives and hydrogeological studies. Dissemination of the results to locations where we sampled and what others would like included, including appropriate contacts for support

GoJ hydrogeological project – final sampling run (4 of 4) completed and results recently received. Data will be sent to each property/land owner. Wording of email to be decided. Expectation setting required - individual data won't be interpreted. All data will be reviewed by Arcadis as part of wider hydrogeological project and next stages of modelling. Health questions in letter to be directed to environmentalhealth@gov.je - Environmental & Consumer Protection. Discussion about how to provide and explain data regarding TOP assay and other analysis undertaken, because its an environmental sample & advanced analysis for project not specifically for health/Totals comparison. Suggestion to include previously sent FAQs.

ACTION: LRM will send PFAS data to property/land owners.

ACTION: Draft letter will be sent to Group for comment.

3. Performance

a) Summary of latest sampling results (JW, Government and Ports of Jersey)

█ provided an update from **PoJ/GoJ routine quarterly PFAS meeting**: PoJ looking to continue their on-site PFAS investigations in Easter 2025. To look into hot spot areas and depths. PoJ soon to submit planning application for containment cells/bunds for storing PFAS-impacted soils. If approved, this will take soils from the airport, but also will have capacity for other PoJ site soils. Data sharing agreement with PoJ & GoJ being developed – this has been with PoJ for some time following █ drafting.

Jersey Water – █ circulated latest results. No operational changes. To kick start a project to look at treatment options and costs. UK use Granular Activated Carbon for PFAS treatment as one option – approved for use. Waste options/whole life total cost to be looked at. This project will feed into wider 25-year water management plan and optioneering. Sewage sludge – █ is a GoJ contact for PFAS analysis of sludge.

GoJ Hydrogeological survey – continued from above. Waste Management trigger levels for development in the plume – being reviewed by Arcadis. Meeting the waste regulator and waste operator next week to discuss.

GoJ LRM sampling with PoJ next week for their routine bi-annual PFAS sampling.

Proposal for GoJ to sample the two new Blanchés Banques wellfield monitoring boreholes. █

ACTION: LRM to discuss dates, suites, logistics with Jersey Water.

4. Working with Stakeholders & External Communications

a) Update from Latest public panel meeting

30 Islanders attended. Report 3 launched – clinical interventions and testing. Showed attendees report structure and asked for feedback. Asked attendees for input as experts by experience on testing and clinical interventions. Most questions around report 2 which will be published next month. Some environmental questions which couldn't all be answered as the meeting focus was health

b) Next Visit of the PFAS Scientific Panel and status/discussion on the environment report

10th July whole panel visit and next meeting. Report 2 recommendations to be discussed in public in late June. Report 4 environmental report meeting with LRM and Panel. Visit with Jersey Water also.

ACTION: Potato analysis results with ECP for review.

c) [REDACTED]

d) Media & social media interest

Nothing to add from Comms, but had been some FOI activity.

Nothing to add to website currently. Public meeting notes already uploaded.

5. Research and innovation

No comments.

6. Regulatory requirements and changes

Water 1972 Law Schedule to be updated but no action soon.

7. Any Other Business

[REDACTED] away 8th July for one week. [REDACTED] final working date is [REDACTED]

Meeting notes

PFAS Technical Officer Group - 09/07/24

1. Clarity of roles in the group and PFAS work going forward.



2. Minimisation of PFAS concentrations

a) Update on catchment initiatives and hydrogeological studies. Dissemination of the results to locations where we sampled and what others would like included, including appropriate contacts for support

GoJ hydrogeological project – Data will be sent to each property/land owner. Expectation setting required - individual data won't be interpreted. All data will be reviewed by Arcadis as part of wider hydrogeological project and next stages of modelling. Health questions in letter to be directed to environmentalhealth@gov.je - Environmental & Consumer Protection. [Redacted]

Jersey Water are looking to update their website and will share this in due course with the group

ACTION: LRM will send PFAS data to property/land owners, once feedback received.

3. Performance

a) Summary of latest sampling results (JW, Government and Ports of Jersey)

Government - LRM sampled last month with PoJ for their routine bi-annual PFAS sampling run. Data sharing agreement with PoJ & GoJ being reviewed. Borehole sampling from A1/A3 and new Government boreholes will be undertaken on a quarterly basis moving forward.

Jersey Water – [Redacted] circulated latest results. No operational changes. JW looking to undertake treatment sludge analysis for PFAS which is a non-accredited test, through ALS. Next round of sampling of streams/relevant abstraction points starts next week. JW continuing to look at the cost of treatment options including a possible trials. Conference was a very helpful/informative event looking at full lifecycle of treatment options.

GoJ Hydrogeological survey – Waste Management trigger levels for development in the plume – being reviewed by Arcadis. Continue to Meet with the waste regulator and waste operator to progress discussions.

4. Working with Stakeholders & External Communications

a) Update from Latest public panel meeting

11th July meeting has been postponed – consultation to be launched on 12th September. Report 3 is still progressing. A Public Meeting between residents and Ministers to be held on 31st July, officers welcome.

(Ministerial briefings occurring beforehand). Public Panel meetings (online) are in progress for report 3. Islanders and subject matter experts have been invited to contribute.

b) Next Visit of the PFAS Scientific Panel and status/discussion on the environment report

This meeting is now online, with [REDACTED] covering [REDACTED] area.

ACTION: Potato analysis results with ECP for review. (no update)

c) d) Media & social media interest

Jersey Water are looking to update their website and will share this in due course with the group

ACTION: JW will share details of any updates to their website

5. Research and innovation

Feedback from conference, Water companies are looking at carbon-based treatments and how to deal with the waste arisings .

6. Regulatory requirements and changes

Water 1972 Law Schedule to be updated but no action soon.

7. Any Other Business

Analysis data from sewage sludge and landfill leachate testing is still awaited from IE Operations department.

[REDACTED] asked for clarity on what the SOA role had been historically within the group, but will continue to attend

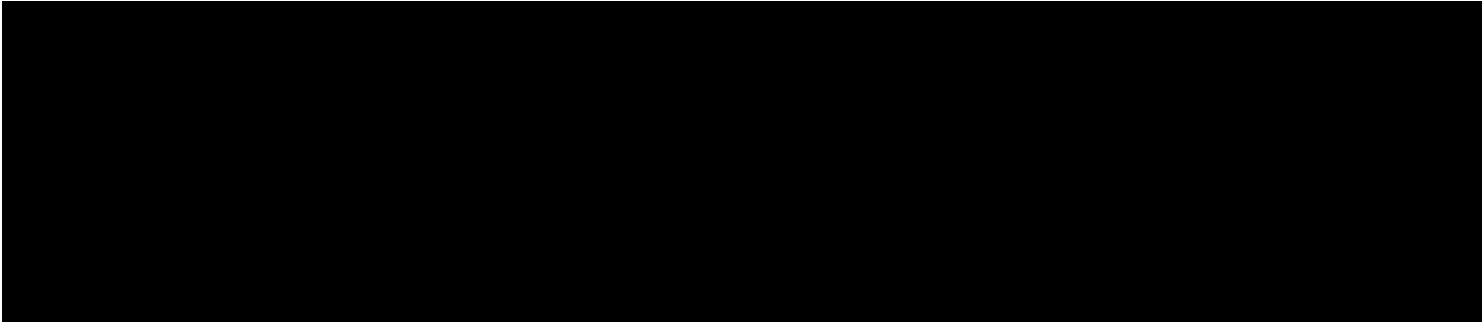
[REDACTED] asked about the indicative costs of PFAS Analysis on an annual basis, as there is potential for an on Island service if a business case could be made.

	Action	Responsibility
1	Brief CEOs Env and Health	██████████ Willie Peggie,
2	Organise briefing to ██████, MHSS and MENV on PFAS generally and results of subsidised sampling, request AG to join (JW to join).	██████████
3	Prepare a list of FAQs following subsidised sampling	██████████
4	Populate answers to the FAQs	All
5	Link up with ██████████ to inform the FAQs	██████████
6	Structure and make arrangements for confirmatory resampling (this needs some pre work)	████████████████████
7	Prepare letters to be sent to households ████████████████████	██████████
8	Draft press release to go out with results	██████████
9	Get MD signed off by MENV on law drafting time for new Water Law	██████████
10	Stop subsidised sampling for now and collect contact details for possible inclusion in structured sampling programme.	████████████████████

Meeting notes

PFAS Technical Officer Group - 13/08/24

1. Clarity of roles in the group and PFAS work going forward.



2. Minimisation of PFAS concentrations

a) Update on catchment initiatives and hydrogeological studies. Dissemination of the results to locations where we sampled and what others would like included, including appropriate contacts for support

GoJ hydrogeological project – Data will be sent to each property/land owner. Expectation setting required - individual data won't be interpreted. All data will be reviewed by Arcadis as part of wider hydrogeological project and next stages of modelling. Health questions in letter to be directed to environmentalhealth@gov.je - Environmental & Consumer Protection, but we will work together.

Jersey Water are looking to update their website and will share this in due course with the group

ACTION: LRM will send PFAS data to property/land owners, once feedback received.

3. Performance

a) Summary of latest sampling results (JW, Government and Ports of Jersey)

Government - Borehole sampling from A1/A3 and new Government boreholes was undertaken in late July.

Jersey Water – No operational changes. JW looking to undertake treatment sludge analysis for PFAS which is a non-accredited test, through ALS, awaiting results. Next round of sampling of streams/relevant abstraction points starts next week. JW continuing to look at the cost of treatment options including a possible trials.

GoJ Hydrogeological survey – Arcadis working through the data and inputting it into CSM model. Further data from POJ to be incorporated. Meetings with JW and POJ to be timetabled in. Waste Management trigger levels for development in the plume – being reviewed by Arcadis. Continue to Meet with the waste regulator and waste operator to progress discussions.

Regulatory Meeting tomorrow

4. Working with Stakeholders & External Communications

a) Update from Latest public meeting

Public meeting with Minister of Environment and Health. Islanders were able to discuss their concerns with the Ministers and this has led to more work and FOI's etc. Various workstreams are starting. [REDACTED]

[REDACTED] A delivery plan has been promised by Ministers which will need to be done. Jersey Water input is an option to consider.

Next panel meeting on 12th September with subsequent consultation period. To be finalised by year end. Report 3 is still progressing. Testing of blood wider across the Island is being considered as a priority.

Report 4 and the status of funding it is important for all parties so we need to clarify the position between [REDACTED] and [REDACTED] on this.

b) Next Visit of the PFAS Scientific Panel and status/discussion on the environment report

This meeting is now online, with [REDACTED] covering [REDACTED] area. Verifying the May potato results with the Laboratory. We may need to go back to resident

ACTION: Potato analysis results with ECP for review.

c) Media & social media interest

Communication team going through re-structure. [REDACTED] to provide handover notes. Potential to have Health Comms unit in the meeting or [REDACTED] direct replacement. Group agrees it is important to have communications support in this meeting.

Jersey Water are looking to update their website and will share this in due course with the group

ACTION: JW will share details of any updates to their website

5. Research and innovation

Nothing specific discussed

6. Regulatory requirements and changes

Water 1972 Law Schedule to be updated, discussions ongoing.

7. Any Other Business

- Analysis data from sewage sludge and landfill leachate testing is still awaited from IE Operations department. Still not received. Regulation may need to request formally.
- [REDACTED] asked about the indicative costs of PFAS Analysis on an annual basis, as there is potential for an on Island service if a business case could be made. Guernsey are looking at a possible service too.
- There are couple of live planning applications imminent with respect to Port developments.
- Thanks to [REDACTED] for all [REDACTED] input to the group and good luck for the future.

Recommendation no./traffic light	Status comment	Sampling program and further investigation	Actions, 2021	Actions, 2020	Notes	Timeline for completion	Outcomes and results	RAG status Red (behind schedule)/Amber (likely cause to concern) /Green (ahead on track of schedule)
Oct. 2021 Report Recommendations								
Sampling								
1	Complete but this will also form part of HRA	Shallow boreholes and wells close to Jubilee Hill, north (and south) of the airport that are used for drinking water are identified and sampled (including south of airport).		<ol style="list-style-type: none"> Identify boreholes/wells close to drainage and extending down the Port Marquet catchment to sample. COMPLETE Sample and analyse results. All now mapped out around the airport to give visual representation. 5th Dec. some requests for the public being received and these are being referred to JW for sampling (EH, EP and JW) ALS now offer a suite of PFAS analysis of 16 separate PFAS determinants. Cost is (exc shipping). Meeting agreed to sample 10 of the highest PFOS and PFOA private drinking water boreholes to assess where we are with respect to the sum of all PFAS and the current/proposed limit. To be done once EP sampler is back from sick leave. JW have sampled surface water and reservoirs for the x16 determinants to send through the results to <p>New sampling strategy received from Arcadis</p>	<ol style="list-style-type: none"> Until the results south of the airport are confirmed the phrase "that all boreholes/wells are within limits should be avoided". There could be higher levels in this area. Use borehole list developed by EP Funding still required to cover costs to date circa 			
2	Ongoing and linked with HRA	An investigation is undertaken to determine the sources of these higher levels of PFOS and PFOA, especially those emanating from the drainage of the airport. This is a view to potential remediation. As a result the formal regulatory position should at this stage be reserved.		<ol style="list-style-type: none"> Engage with Ports with an objective of identification and clean up of any hotspots using their resource Further sampling of airport drainage during various rainfall events to inform item 2 below. Complete and results mapped Use enforcement powers appropriately to achieve this. ONGOING Keep the informed through quarterly reports updated 6/12/2019 Write to Ports to see what they have done since last meeting. If nothing then raise with LoD to issue a formal notice requiring the site investigation work at the airport. Also include that this will be audited. Arcadis visit will inform this <p>Resources required to determine past working practices and events to inform the potential risk areas for sampling</p>	<p>July Update meeting with LoD</p> <p>17-07-19 First meeting with Ports</p> <p>19-07-19 Summary of meeting letter issued to Ports.</p> <p>20-08-19 Update to</p>			
3	Complete	More detailed testing of rainwater for PFAS is undertaken.		<p>Sample rainwater using advice from Jersey Met (glass beakers at Met sites). Ship with samples from South Airport. Scheduled 04/09/19</p> <p>Two samples of rainfall were taken with both showing small traces of PFOS and below detection traces of PFOA, 0.000145 & 0.00033ug/l resp</p>	<ol style="list-style-type: none"> This will inform whether background cross-island levels are possibly partly due to diffusion into rain. Strict control of contamination. <p>3. NOW COMPLETE</p>		To be sampled 04/09/19 (rain permitting)	
4	Ongoing as and when needs 16+ PFAS analysis, part of HRA	Further sampling and investigation of the efficacy of various household treatment systems is undertaken so that Environmental Health can advise the public. This should include the potential impact of waste streams from such systems.		<ol style="list-style-type: none"> Sample all available RO units before and after treatment. Possible extra samples via Sen. Moore. Ongoing as and when. Five households with RO sampled. Results show all units have below detection of PFOA and PFOS. Agreed that this is sufficient Talks with the water treatment companies will be important to garner public reaction to the report and trends in treatment. Waterways have had a numbers of calls after PFOS report. RO units now have a carbon filter to take out PFOS. Cylinders are also available. One whole house carbon treatment being fitted. It is worth talking to them to arrange meeting JW (EH) and <p>15 Jan 9am @</p>			<p>19-07-19 phoned JFTL. There has been some public reaction to the report with enquiries of what does my current treatment treat and some (less than 5) calls for RO Units to be fitted. Quoted cost per unit.</p> <p>Four more RO units (total six) tested in current sampling above</p>	
5	Charging?	A system is developed to enable private households and businesses to test their water for pesticides and PFAS and their derivatives.		<ol style="list-style-type: none"> Discuss with around public being able to take samples and receives results for PFAS and pesticide analysis through Go! Official Analyst. Immediate meeting with COMPLETE Ensure that EP/EH are able to access water test results brought in by the public to identify hotspots/trends etc. (tick box on form). FIRM UP NEXT MEETING to be a member of the PFAS technical group. Check invite Gap analysis of pesticide imports vs. determinants that are screened. Solutions need to be found for those pesticides that are not covered by the cheaper scanning suite offered Communicate to the public that JW can offer this service Recent meeting agreed. Tick box for testing pesticides (scan only) and PFAS to be included on Official Analyst sheet. Also include information sharing agreement. These will be passed to JW who will go out and sample and results when come back to Official Analyst. 	<p>22/07 Meeting with</p> <p>Post report, a number of enquiries for full chemistry and micro but little for PFAS and pesticides. Most people opt for full chemistry and micro. New front sheet for the request for water analysis being developed by</p> <p>This includes a paragraph that testing does not presently cover PFAS or pesticides. Minister wants a system of testing to be put in place (that the public have the option and facility to do these tests)</p>		<ol style="list-style-type: none"> Outcome of meeting with. Coms need to advise public of where they can test for PFAS and pesticides. Do this on web site and new leaflet. Difficult to judge long term uptake and hence required investment. PFAS relatively straight forward to do a test of over/under a prescribed limit. Probably too costly to do an actual level test. Short term provide a package and ship service on a monthly/7 timetable. If demand increases then look at on island testing. Provide recommendations to the public (leaflet and web site etc) of how to test and cost (again through a package and ship service on a monthly basis). Provide the public with what testing and the results of what we do now are on web site. As well as the simple nitrate test at SoJA dept.) provide a tick box for the public to share data with Gov. departments. Link this in with the Kisters database to store the data. Future talk on wording of reports that have impacted on public expectation of pollution in boreholes (for example small number of E.coli etc). invited to officer PFAS group (to be extended to once every month?) general screening at States Analysts for PFOs etc. More detailed analyses including PFOS quantitative test with Jersey Water. Need to update guidance/website etc. 	
WMP								
6	Outside scope	Further work is undertaken to lower nitrate and pesticide levels both in surface and groundwater. These areas were identified in the "Challenges for the water environment of Jersey" and the "Water Management Plan" which was agreed by the States in Dec. 2016. Certain elements of the implementation of the Plan have progressed. These are mainly through voluntary initiatives of the agricultural and dairy sectors through the Action for Cleaner Water Group. However, the easy wins have been made. The Water Management Orders and new Water Code brought in under the Water Pollution (Jersey) Law 2000 will shortly be enacted and these elements and the Plan now require adequate funding, if nitrates and pesticide pollution is to be properly addressed. Further work remains to be undertaken in terms of updating the Pesticides (Jersey) Law, 1991.		<ol style="list-style-type: none"> Deliverables are the objectives of the Government Water Management Plan 2017-2021 Need to keep the agricultural industry at the table for further improvements New post of Water and Environmental Officer. JD ready and funding now needs sourcing through ToM <p>P100. Business units and areas (EP-Water Resources/Agriculture, Rural and Diffuse Pollution/Action for cleaner water group) Dec 2019</p>	<p>Action needed to finalise and issue the appropriate provisions of the Water Quality Order and the Water Management Order. (By September)</p> <p>Further work needs to be done on the Code of Practice (by November)</p>			
7	Ongoing?	In the absence of a specific compliance parameter in the Water (Jersey) Law 1972 for PFAS, the wide variety of limits internationally and the proposals by the EU to adopt new parameters within the forthcoming Drinking Water Directive, the Government of Jersey should clarify its position in respect of acceptable PFAS concentrations in drinking water and consider the introduction of scientifically derived parameter compliance limits for PFAS within the forthcoming planned amendment to the Water (Jersey) Law 1972		<ol style="list-style-type: none"> Investigate a standard that is in line with EU and UK limits (given that these will likely reduce over time) to talk to can possibly input to contact to assess the current position of the EU. 	<p>1. This action came from the Chief Minister as it guides the level of Gov. intervention.</p>			
8	Critical	A hydrogeological study to determine the extent of the PFAS pollution in St Ouen's Bay, the likely direction of travel of the pollution plume and prognosis for the future is undertaken.		<ol style="list-style-type: none"> Understand present extent and likely future migration/behaviour of the main St Ouen's Bay plume. This might also need to include the plumes forecast response to greater groundwater abstraction by JW, development at Simon Sand etc. The study and modelling will involve outside expertise and be potentially costly to talk with political group). Shared funding approach given differing needs Discussions and visit by and on 13 Dec. To present work undertaken in Jersey and possible approaches for Jersey <p>This is a large and expensive piece of work - how do we take it forward, tender for this and secure funding?</p>	<ol style="list-style-type: none"> Need to make contact with technical experts - past expert from Airport (19-07-19 contact (email received), Arcadis etc. Need to secure budget and establish who should pay. 			
9	After HRA	Based on the output from the hydrogeological study, a study to investigate and implement options for the remediation of the PFAS pollution in St Ouen's Bay is undertaken.		<ol style="list-style-type: none"> Options appraisal of various treatment pump/treat options. JW pump and treat water for supply = clean up of aquifer (wider links here to above) to talk with political group and The visit from Arcadis (13 Dec) will inform the work for the St Ouen's plume (already some work) and the Port Marquet catchment (no information apart from the current sampling). The work around St Ouen and Port Marquet has large island implications for secure water supply and the meeting agreed that it needs to be progressed. Sequence of events to be all Arcadis visit, by Arcadis to produce a proposed methodology for phase 1 (the hydrological study), c) Produce final PFAS report (could be a summary of the 18 recommendations) d) present finding to CoM for funding 	<ol style="list-style-type: none"> Links in with JW 25 year resource plan Link with Island Plan Some experience might be gained from Guernsey. Consider wider benefits when undertaking cost/benefit analysis. 			

10	Critical	That a hydrogeological study to confirm the initial results and determine the extent of the PFAS pollution in the Port Marquet catchment (including the effect on boreholes and wells), the likely direction of travel of the pollution plume and prognosis for the future is undertaken.		This is a large and expensive piece of work - how do we take it forward, tender for this and secure funding?			
11	After HRA	Based on the output from the hydrogeological study, an investigation of the options for the remediation of the PFAS pollution in the Port Marquet catchment is undertaken.		as above	1. St Ouen well fields and Port Marquet is 7% of island supply		
12	Strat Reserve bid?	To permanently offset the inherent risk to the pollution of groundwater and to safeguard public health, the island-wide distribution of both mains drains and mains water is recommended. Noting that this will have implications for water resources in the island.		1. New model needs to be developed. Discussions needed with Political group and treasury/GHE operations on possible funding/loan mechanism. This needs to be chased with [redacted] and a meeting fixed up.	1. Mains water is pumped and foul drainage is usually gravity. Therefore they cannot always go in the same trench.		
13	Status?	That any on-island use of shorter chained PFAS compounds is identified and a precautionary approach for early withdrawal of those products is undertaken.		1. Discussion and action plan with Ports. Recommendation contained in Ports letter above. Need to follow up on letter to Ports [redacted]	1. Precautionary approach 2. 19-07-19 Letter sent to Ports to ask what they use for emergency and practise		
Health impacts							
14	Status?	With their own and families health as the main concern, Islanders with private water supplies should ensure they are tested regularly, and pursue measures recommended by their water treatment company to ensure their water is as safe as possible. Environmental Health will continue to produce and update information leaflets and webpages about water quality in private supplies. Individuals with any health concerns should consult their general practitioner.		1. Update health leaflets, web sites and advice [redacted] 2. Household leaflet now completed. Small work left for the pregnant mothers leaflet [redacted]		September	
15	Ongoing?	Government does not need at this point to intervene in the water supply from a public health standpoint as tests show that levels of PFAS are generally well within expected regulatory levels. This message will need to be communicated to residents at the same time of the publication of this report, and an ongoing engagement be designed on all issues relating to water quality.		1. Depends on the results of sampling for all 16 PFAS (total PFAS and compliance with current standards)	1. Until the results south of the airport are confirmed the phrase "that all boreholes/wells are within limits should be avoided". There could be higher levels in this area.		
Public Engagement							
16	Ongoing	Improve awareness of the need to register boreholes and ensure that those with private water supplies are aware of the possibility of pollution, and the importance of regular testing and management of their source (leaflets are in the process of being produced which will support this).		as above			
17	Ongoing, but needs resourcing	Ensure that gov.je is a reliable source of information on pollution and testing methods, and direct those seeking information to the gov.je using social media and traditional media where necessary. This will need to be supplemented by activity for those who do not use digital communication channels.		as above. Inc. other communications messages for those not on digital [redacted]			
18	Complete	Subject to Data Protection and other regulations, create a database of emails of registered borehole users, to be held by Environmental Health, so that users can be contacted quickly and directly in the event of issues being found.		1. The total list of all borehole/well users is held by Environmental Protection. These are already used to inform of pollution events etc. and are available to all.	1. A requirement of registration under the Water Resources (Jersey) Law 2007		
Nov. 2020 Report Recommendations							
19		Publish the results on-line of the monitoring undertaken by Jersey Water (some raw water sources and pre and post treatment water quality) and the monitoring undertaken by Infrastructure, Housing and Environment (IHE), so that the public are kept informed of current levels and trends.					
20		Implement a targeted risk-based programme of long-term sampling of surface and groundwater across the island to inform the ongoing trend at identified sentinel sites for all PFAS determinands deemed relevant, including St Ouen's Bay and the Airport. This will be in coordination with Ports.					
21		Identify remediation strategies alongside the hydrogeological study, especially from a water resources perspective.					
22		Concurrent investigation into remediation of water resources in the catchment through [redacted]					
23		[redacted]					
24		The Officer Technical Group to keep updated on any changes to regulatory limits regarding PFAS, developments in understanding of PFAS compounds and changes to the ability to analyse for separate PFAS compounds. Where extra compounds can be analysed, then the monitoring program should, where appropriate, immediately reflect these.					
25		To continue to sample in-situ reverse osmosis systems and in doing so analyse for all PFAS compounds.					
26		Sampling to determine the impact of the waste streams from osmosis systems on controlled water.					
27+E31D1A31 D32A31:H31		The Officer Technical Group to keep updated on any changes that increase the understanding and efficacy of testing blood for PFAS.					

Topic	Background	Current Status	Next Steps	Responsible Party	Timeline	Notes	Other	Comments	Attachments
Topic 1	Background information for Topic 1.	Current status of Topic 1.	Next steps for Topic 1.	Responsible party for Topic 1.	Timeline for Topic 1.	Notes for Topic 1.	Other for Topic 1.	Comments for Topic 1.	Attachments for Topic 1.
Topic 2	Background information for Topic 2.	Current status of Topic 2.	Next steps for Topic 2.	Responsible party for Topic 2.	Timeline for Topic 2.	Notes for Topic 2.	Other for Topic 2.	Comments for Topic 2.	Attachments for Topic 2.
Topic 3	Background information for Topic 3.	Current status of Topic 3.	Next steps for Topic 3.	Responsible party for Topic 3.	Timeline for Topic 3.	Notes for Topic 3.	Other for Topic 3.	Comments for Topic 3.	Attachments for Topic 3.
Topic 4	Background information for Topic 4.	Current status of Topic 4.	Next steps for Topic 4.	Responsible party for Topic 4.	Timeline for Topic 4.	Notes for Topic 4.	Other for Topic 4.	Comments for Topic 4.	Attachments for Topic 4.
Topic 5	Background information for Topic 5.	Current status of Topic 5.	Next steps for Topic 5.	Responsible party for Topic 5.	Timeline for Topic 5.	Notes for Topic 5.	Other for Topic 5.	Comments for Topic 5.	Attachments for Topic 5.
Topic 6	Background information for Topic 6.	Current status of Topic 6.	Next steps for Topic 6.	Responsible party for Topic 6.	Timeline for Topic 6.	Notes for Topic 6.	Other for Topic 6.	Comments for Topic 6.	Attachments for Topic 6.
Topic 7	Background information for Topic 7.	Current status of Topic 7.	Next steps for Topic 7.	Responsible party for Topic 7.	Timeline for Topic 7.	Notes for Topic 7.	Other for Topic 7.	Comments for Topic 7.	Attachments for Topic 7.
Topic 8	Background information for Topic 8.	Current status of Topic 8.	Next steps for Topic 8.	Responsible party for Topic 8.	Timeline for Topic 8.	Notes for Topic 8.	Other for Topic 8.	Comments for Topic 8.	Attachments for Topic 8.
Topic 9	Background information for Topic 9.	Current status of Topic 9.	Next steps for Topic 9.	Responsible party for Topic 9.	Timeline for Topic 9.	Notes for Topic 9.	Other for Topic 9.	Comments for Topic 9.	Attachments for Topic 9.
Topic 10	Background information for Topic 10.	Current status of Topic 10.	Next steps for Topic 10.	Responsible party for Topic 10.	Timeline for Topic 10.	Notes for Topic 10.	Other for Topic 10.	Comments for Topic 10.	Attachments for Topic 10.
Topic 11	Background information for Topic 11.	Current status of Topic 11.	Next steps for Topic 11.	Responsible party for Topic 11.	Timeline for Topic 11.	Notes for Topic 11.	Other for Topic 11.	Comments for Topic 11.	Attachments for Topic 11.
Topic 12	Background information for Topic 12.	Current status of Topic 12.	Next steps for Topic 12.	Responsible party for Topic 12.	Timeline for Topic 12.	Notes for Topic 12.	Other for Topic 12.	Comments for Topic 12.	Attachments for Topic 12.
Topic 13	Background information for Topic 13.	Current status of Topic 13.	Next steps for Topic 13.	Responsible party for Topic 13.	Timeline for Topic 13.	Notes for Topic 13.	Other for Topic 13.	Comments for Topic 13.	Attachments for Topic 13.
Topic 14	Background information for Topic 14.	Current status of Topic 14.	Next steps for Topic 14.	Responsible party for Topic 14.	Timeline for Topic 14.	Notes for Topic 14.	Other for Topic 14.	Comments for Topic 14.	Attachments for Topic 14.
Topic 15	Background information for Topic 15.	Current status of Topic 15.	Next steps for Topic 15.	Responsible party for Topic 15.	Timeline for Topic 15.	Notes for Topic 15.	Other for Topic 15.	Comments for Topic 15.	Attachments for Topic 15.
Topic 16	Background information for Topic 16.	Current status of Topic 16.	Next steps for Topic 16.	Responsible party for Topic 16.	Timeline for Topic 16.	Notes for Topic 16.	Other for Topic 16.	Comments for Topic 16.	Attachments for Topic 16.
Topic 17	Background information for Topic 17.	Current status of Topic 17.	Next steps for Topic 17.	Responsible party for Topic 17.	Timeline for Topic 17.	Notes for Topic 17.	Other for Topic 17.	Comments for Topic 17.	Attachments for Topic 17.
Topic 18	Background information for Topic 18.	Current status of Topic 18.	Next steps for Topic 18.	Responsible party for Topic 18.	Timeline for Topic 18.	Notes for Topic 18.	Other for Topic 18.	Comments for Topic 18.	Attachments for Topic 18.
Topic 19	Background information for Topic 19.	Current status of Topic 19.	Next steps for Topic 19.	Responsible party for Topic 19.	Timeline for Topic 19.	Notes for Topic 19.	Other for Topic 19.	Comments for Topic 19.	Attachments for Topic 19.
Topic 20	Background information for Topic 20.	Current status of Topic 20.	Next steps for Topic 20.	Responsible party for Topic 20.	Timeline for Topic 20.	Notes for Topic 20.	Other for Topic 20.	Comments for Topic 20.	Attachments for Topic 20.

<p>14</p> <p>15</p> <p>16</p> <p>17</p>	<p>The African Continental Free Trade Agreement (AfCFTA) is a landmark trade agreement that will create a single continental market for goods and services, a free zone for investments and a single continent-wide currency union. It is the largest trade agreement in the world by number of countries, covering 54 African countries and covering 12% of the world's population and 30% of the world's landmass. The agreement is expected to create 30 million new jobs and increase Africa's GDP by 30% over the next 10 years.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>	<p>to the AfCFTA, the Commission will continue to work closely with the African Union and the African Continental Free Trade Area (AfCFTA) Secretariat to ensure that the Commission's policies and actions are aligned with the AfCFTA's objectives and priorities.</p>
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