This document is intended to support the understanding of the disclosed documents and data, which include materials that are already in the public domain as well as those yet to be released. For background, these disclosures specifically relate to the northern university's investigations (Newcastle, Hull, York, Durham), funded by the Fishmongers' Company and in association with the North East Fishing Collective. The disclosed information is as follows:

- 1. Interim North East Fishing Collective Investigation Report v 1.3 (September 2022)
- 2. Reanalysis of MMO landings data for north east ports
- 3. Toxicity of pyridine to Cancer pagurus preprint and associated data
- 4. Environmental pyridine data for Tees water and sediment
- 5. Possible point sources of pyridine input to Tees waters
- 6. Impacts on Staithes barnacle population (Natural England MarClim long term monitoring site)
- 7. Ongoing and near-term research plans

Folder	File
Interim North East Fishing	This folder contains the interim report that was submitted as
Collective Investigation Report v	evidence to the EFRA Select Committee. Additional data have
1.3 (September 2022)	been collected since this, e.g., further pyridine exposure
1. Interim NEFC Investigation	concentrations (presented in folder 3)
Report	North East Research Group October 2022 Report final (1).pdf
Reanalysis of MMO landings data	This folder contains a Powerpoint presentation outlining our
for north east ports	current progress in reanalysing the MMO landings data (lobster)
2. Reanalysis of MMO landings data	for north east ports. The original Inshore Fisheries and
for north east ports	Conservation Authority (IFCA) report was misleading as it did not
	distinguish between inshore and offshore vessels, and it
	inappropriately included visser vessels landings data (fishing many
	miles offshore for several days at a time, but landing their catch in
	NE ports) – this created a false impression of the recovery of the
	fishery.
	<u>Durham data 061222.pptx</u>
	We also provide the data and R-code should the Expert Panel wish
	to explore some of the analysis themselves.
	Durham data and code 051222.zip
Toxicity of pyridine to Cancer	This folder contains our draft manuscript that was deposited in a
pagurus preprint and associated	preprint repository
data	(https://www.biorxiv.org/content/10.1101/2022.11.17.516169v1).
3. Toxicity of pyridine to Cancer	At the time of writing (Dec 7 th), the manuscript has yet to be
pagurus preprint and associated	submitted for peer review as we are awaiting the pyridine data for
<u>data</u>	the exposure water and tissue body burden (due next week)
	Manuscript deposited in preprint archive.pdf
	We also proved the manuscript's supplementary materials
	Manuscript supplementary 1.docx, including the animation of the
	modelled pyridine plume Manuscript supplementary 2.mp4
	The raw data for the pyridine exposures are also provided Copy of
	Cancer pagarus pyridine raw data - Newcastle University -
	071222.xlsx
Environmental pyridine data for	This folder contains the pyridine analysis for Tees water and
Tees water and sediment	sediment undertaken by York University. All the sediment samples

A Forder managed a state of the state of	
4. Environmental pyridine data for Tees water and sediment	are surficial, with none coming from a depth greater than 20 cm. The samples were taken 7 months after the start of the mass mortalities. We have repeatedly requested permission to sample the deeper sediments using a vibro-corer, but all of our requests have been ignored. We have also offered to cover the costs of the sampling and analysis. We provide the chromatograms Pyridine sediment results - chromatograms.pdf
	the raw and processed data Pyridine Sediment Results raw and processed data.xlsx and we also provide the raw mass spec data should the panel choose to undertake their own analysis. 220916 Sediment MDLs.zip
Possible point sources of pyridine input to Tees waters 5. Possible point sources of pyridine input to Tees waters	In this folder we provide background context to three probable point sources of pyridine release into the Tees. This evidence was compiled through a combination of local knowledge, Fol submissions, and whistle-blower reports. The three main sources are ICI (historical and less likely to have a material effect on the 2021 mass mortalities), Vertellus Specialty Chemicals which was manufacturing pyridine and pyridine derivative on their Tees site, and SSI and Redcar steelworks, producing pyridine as a by-product of coking. Possible sources of major pyridine input to Tees regional watersdocx
Impacts on Staithes barnacle population (Natural England MarClim long term monitoring site) 6. Impacts on Staithes barnacle population (Natural England MarClim long term monitoring site)	This folder contains evidence submitted to the EFRA Select Committee. It shows that the barnacle population at the Staithes site (Natural England MarClim) which is roughly midway along the modelled plume trajectory, was all but eliminated. The sites immediately to the north and south were unaffected. At time of writing, we haven't had the time or resources to analyses the data for the numerous other taxa that we monitor for, however cursory examination indicates progression towards ecosystem collapse/regime change. Staithes Barnacle Data.docx
Ongoing and near-term research plans 7. Ongoing and near term research plans	This folder contains information on current research activity and that planned for the coming three months. Ongoing and near term research plans.docx