



THE UNIVERSITY OF  
**SYDNEY**

**PJ Cullen**

The University of Sydney  
School of Chemical and Biomolecular Engineering

09 July 2020

PFAS Sub-committee  
Joint Standing Committee on Foreign Affairs  
Defence and Trade (JSCFADT)

Dear PFAS Sub-committee members,

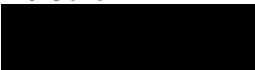
I would like to provide you with a brief status update on the project '*Plasma Bubble Column for one step remediation of PFAS*' funded by the Australian Research Council's PFAS Remediation Research Program through the Special Research Initiatives scheme.

With regards to our research to date, we have developed a number of prototype plasma bubble columns and have commenced testing their efficacy against PFAS. The early results are encouraging in terms of overall PFAS destruction and our understanding the relevant phenomena which could support larger scale plasma bubble columns. We are working on further understanding the mechanisms of action of the technology, improving destruction efficiency and determining any by-products formed before increasing the scale of the experiments.

We have recruited two PhD students as allowed for by the grant, and the first student has commenced laboratory work. The second student is currently delayed by travel restrictions. We are currently in the process of recruiting a research assistant so that we can undertake the majority of the analytical work at the University.

There are weekly meetings between the University of Sydney researchers and the project's industry collaborator; ICD/Broadspectrum.

Kind regards  
PJ Cullen



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