

# Lines of Evidence Approach to Assess the Effectiveness of PFAS Remediation Technologies

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# Lines of Evidence – PFAS Remediation Technologies

- Introduction & Literature Review
  - Field demonstrated PFAS remediation technologies for liquids and solids
  - In-development PFAS remediation technologies for liquids and solids
- Lines of Evidence Evaluation Framework & Decision Tool

Geosyntec   
consultants

engineers | scientists | innovators

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## **LINES OF EVIDENCE TO ASSESS THE EFFECTIVENESS OF PFAS REMEDIAION TECHNOLOGIES**

*Prepared for*

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# Main Updates in 2024

- Updated introduction
- Treatment Trains
- Colloidal Activated Carbon (CAC)
- In-development to field demonstrated

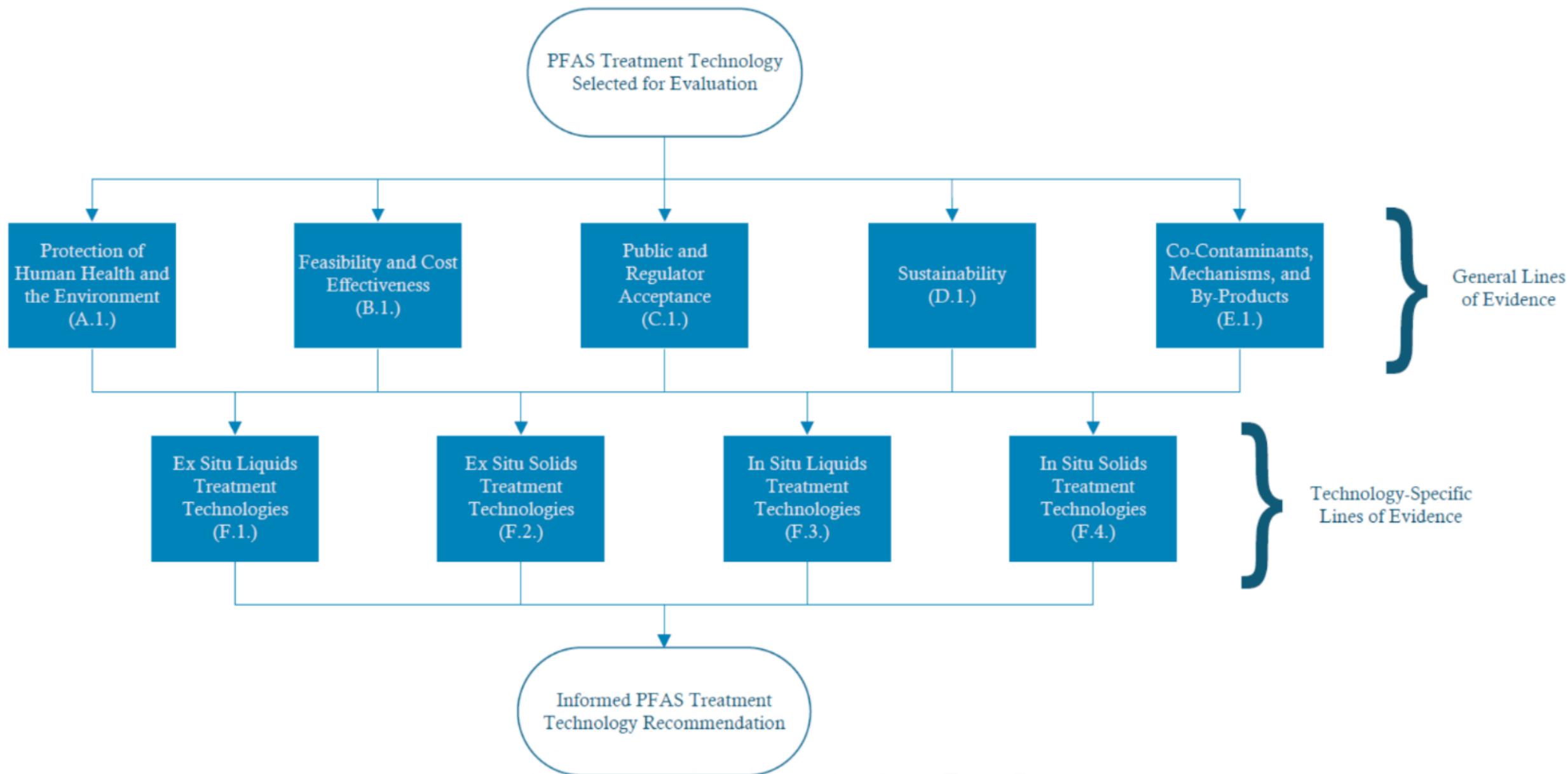
# Technologies

- Field-demonstrated

- Liquids: GAC, Ion exchange resin, reverse osmosis, membrane filtration, CAC, foam fractionation
- Solids: incineration, excavation and disposal, sorption and stabilisation, soil washing

- In-development

- Liquids: sorption technologies, precipitation/coagulation/flocculation, chemical oxidation and reduction, hydrothermal alkaline treatment, biodegradation
- Solids: smouldering and ball milling



## A.1. Protection of Human Health and the Environment

Applicable    Not Applicable

Site-Specific Notes & Clarifications:				
Lines of Evidence	<i>High Feasibility / Known</i>	<i>Intermediate Feasibility / Some Information</i>	<i>Low Feasibility / Not Known</i>	<i>Not Applicable</i>
1 – The technology can effectively treat the PFAS of concern to acceptable concentrations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Notes:			
2 – The technology does not have an adverse impact on the environment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Notes:			

## 3.0 Technology Evaluation Summary and Recommendation

### A.1. Technology Evaluation Summary and Recommendation

<b>Recommendation</b>	<i>Yes</i>	<i>Yes, after specific knowledge gaps are addressed</i>	<i>No</i>
The technology is appropriate for implementation at the site.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notes and Knowledge Gaps:			

# Next Steps

- Internal training
- Wider socialisation
- Robust, consistent and justifiable approach to our interactions with consultants and contractors
- *Further updates to the literature review aspect?*

# Questions?

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