

## **PROJECT OVERVIEW REPORT**

- 1. UTC Identifying Number 69A3551847102
- 2. Center Identifying Number CAIT-UTC-REG44
- Project Title
  Assessment of Solidification / Stabilization as a Remedial Strategy for PFAS Contaminated Transportation Sites
- Principal Investigator & Contact Information Robert Miskewitz Associate Research Professor Rutgers, the State University Center for Advanced Infrastructure and Transportation 100 Brett Road Piscataway, NJ 08854
- 5. Rutgers/CAIT Project Manager Patrick Szary, Ph.D.
- 6. Customer Principal

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7. Project Description

This project seeks to determine if Solidification and Stabilization (S/S) is a viable remedial strategy for PFAS contaminated sediment. If the process is effective at the sequestration and elimination of contaminant pathways out of the stabilized matrix, then this previously harmful material can be beneficially used as geotechnical fill. Beneficial reuse of contaminated soils on-site can represent a significant cost savings for treatment while providing a value as a product.

8. Implementation of Research Outcomes (or why not implemented)

This project will be used to determine if S/S has the potential to sequester hazardous chemicals within a soil matrix. This process has not been used previously for PFAS contamination and if successful could open the path for innovative treatment technologies for contaminated soils at aviation facilities.



In addition to demonstrating the potential of S/S as a treatment process, during this project we will determine the binder/admixture type which provides the optimal PFAS sequestration and final material characteristics. This binder/admixture recipe could be patented.

- 9. Impacts/Benefits of Implementation (actual, not anticipated) To Be Determined
- 10. Dates and Budget

Start date: 1/1/2021 End date: 12/31/2021 UTC (CAIT) Dollars: \$45,000 Cost Sharing: \$0 Total Dollars: \$45,000

## 11. Keywords

PFAS, Solidification and Stabilization, Fire Fighting Foam

## 12. Web Links (Reports and Project Website)

https://cait.rutgers.edu/research/assessment-of-solidification-stabilization-as-aremedial-strategy-for-pfas-contaminated-transportation-sites/