

UTC Project Information	
Project Title	MPC-683 – Beneficial Reuse of Landfilled Fly Ash in Transportation Infrastructure
University	Colorado State University University of Wyoming
Principal Investigator	Mahmoud Shakouri, Ph.D. Khaled Ksaibati, Ph.D., P.E. Chengyi "Charlie" Zhang, Ph.D., P.E.
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Funding Source(s) and Amounts Provided (by each agency or organization)	<p>USDOT, Office of the Assistant Secretary for Research and Technology \$40,000</p> <p>Colorado State University \$48,000</p>
Total Project Cost	\$88,000
Agency ID or Contract Number	69A3551747108
Start and End Dates	December 17, 2021 to July 31, 2023
Brief Description of Research Project	In this study, researchers from Colorado State University and the University of Wyoming will work jointly with the concrete industry partners in the region to understand the role that landfilled fly ash (LFA) plays in controlling concrete properties in the fresh and hardened state. The overarching goal of this study is to determine if LFA that may not

	<p>meet the prescriptive limits set forth in ASTM C618 and AASHTO M295 can show adequate performance in service and whether a new classification can be introduced based on their inherent heterogeneity in physicochemical properties and performance data.</p>
<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	<p>Our tests are still in progress. Once we get some data, we will publish them.</p>
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	<p>The cost-effective beneficiation of landfilled fly ash proposed in this study can be an answer to the shortage of quality fly ash in the market. If performance testing proves that beneficiated off-spec fly ash can be used as a potential SCM, we can tap into an unused resource that has been considered as waste material for decades.</p>
<p>Web Links</p> <ul style="list-style-type: none"> • Reports • Project Website 	