Table A-21.C. Technical implementation considerations for in situ soil mixing and stabilization

Data requirements	Site-specific data for technology evaluation	Soil type(s)/lithology	
		Depth to LNAPL zone	
		Site access	Including locations of utilities and foundations.
	Bench-scale testing	Leachability testing	
	Pilot-scale testing	N/A	
	Full-scale design	Soil type(s)/lithology	
		Homogeneity	
		Depth to LNAPL zone	
	Performance metrics	LNAPL thickness	Monitoring wells downgradient of barrier to verify no occurrence of LNAPL.
		Downgradient concentrations	LNAPL constituent meets standard at point of compliance.
		Mass flux	Estimated dissolved mass discharge less than goal.
		LNAPL saturation	Direct analysis of soil to measure changes in LNAPL saturation profile.
Modeling tools/ applicable models			
Further information		FRTR. n.d. “Remedial Technology Screening and Reference Guide, Version 4.0, “Solidification and Stabilization.” www.frtr.gov/matrix2/section4/4-8.html	
		Portland Cement Association. Guide to improving the effectiveness of cement-based stabilization/solidification. https://trid.trb.org/view/477950	
		EPA. 1999. Solidification/Stabilization Resource Guide. EPA/542-B-99-002. https://cncement.org/wp-content/uploads/2017/05/S-S-Resource-Guide-EPA.pdf	
		Swedish Deep Stabilization Research Centre. https://civil-engg-world.blogspot.com/2011/07/swedish-deep-stabilization-research.html	