

**Table A-21.B. Evaluation factors for in situ soil mixing and stabilization**

Remedial time frame	Concern	Low
	Discussion	Very short to short. Area and depth of treatment are the major factors on time.
Safety	Concern	High to moderate
	Discussion	Some potentially significant safety issues, but construction related and typically routine. Large equipment on site to mix the soils. If chemical oxidants or other amendments are added, there may be chemical mixing and injecting under pressure. Potential temporary ground surface instability.
Waste management	Concern	Low
	Discussion	No to minimal waste streams; possibly no soils removed from the site.
Community concerns	Concern	Low to moderate
	Discussion	Public generally familiar with and accustomed to construction excavations. Concerns may be significant due to volatile emissions, odors, traffic, exhaust, etc. Also, the public may see stabilization as not equal to cleanup.
Carbon footprint/ energy requirements	Concern	Moderate to high
	Discussion	Equipment emissions and energy requirements large. Fuel is used to power machinery to mix soils, and there may be some reaction if oxidants are injected.
Site restrictions	Concern	High
	Discussion	Disruptive technology, physical space and logistical demands significant. Heavy equipment operating on site. Due to the use of large, heavy equipment and the need for clearance on either side of the target zone, the working area could be limited due to buildings, facility requirements, utilities, and natural habitats.
LNAPL body size	Concern	High
	Discussion	Physical obstructions such as buildings will be a limiting factor. If there is a significant depth requirement, special equipment may be required.
Other regulations	Concern	Low
	Discussion	May be required to monitor air quality.
Cost	Concern	Moderate to high
	Discussion	Costs increase with increasing volume of LNAPL-impacted soil to be mixed and stabilized. Depends on area and depth of treatment and any special restrictions.
Other	Concern	
	Discussion	