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	Technology	Description	Effectiveness
	Hand excavation	Digging individual anomalies using commonly available hand tools.	Medium: It can be thorough and provides good data on MEC collected.
	Mechanized removal of individual anomalies	This method uses commonly available mechanical excavating equipment, such as a backhoe or excavator.	Medium: Used in conjunction with hand excavation when soil is hard. Method works well for excavation of single anomalies or larger areas of heavy ferrous metal concentration.
33	Mass excavation and screening	Armored excavation and transportation is earth moving equipment that has been armored to protect the operator and equipment from unintentional detonation.	High: Process works very well in areas of heavy concentration of MEC. Can separate several different sizes of material, allowing for large quantities soil to be returned with minimal screening for MEC.







Detailed Analysis of Remedial Actions

•Once a limited number of viable alternatives have been developed and Applicable Relevant and Appropriate Requirements (ARARs) have been identified, the alternatives are evaluated against the EPA 9 criteria



Remotely-operated subsurface MEC removal. Photo courtesy of US Navy.



		Remedial Alternative				
	Criteria	No Action	LUCs	LUCs with Construction Support	Surface Clearance of Accessible Land with LUCs	Surface and Subsurfa Clearance of Accessil Land with LUCs
Threshold Criteria	Overall Protection of Human Health and the Environment	Yes	Yes	Yes	Yes	Yes
Ęō	Compliance with ARARs	Yes	Yes	Yes	Yes	Yes
eria	Long-Term Effectiveness and Permanence	1	2	2	4	5
Balancing Criteria	Reduction of Toxicity, Mobility, or Volume	1	1	2	4	5
anci	Short-Term Effectiveness	4	4	3	2	1
Ba	Implementability	5	4	4	3	1
	Comparative Cost	5	4	4	3	1
	Relative Overall Rating		15	15	16	13
Fs	Estimated Cost of Alternative		\$1,470,000	\$1,840,000	\$2,960,000	\$5,130,000





