

SOIL TECHNOLOGY:**Soil Flushing**

RACER PARAMETERS	Scenario A	Scenario B	Scenario C	Scenario D
	Small Site		Large Site	
	Easy	Difficult	Easy	Difficult
Media/Waste Type	Soil	Soil	Soil	Soil
Contaminant	High Level Radioactive Material	High Level Radioactive Material	High Level Radioactive Material	High Level Radioactive Material
Approach	In situ	In situ	In situ	In situ
Contaminated Area (SF)	2,500	2,500	10,000	10,000
Depth to Groundwater (ft)	15	15	15	15
Soil Permeability (cm/s)	0.1	0.001	0.1	0.001
Safety Level	D	D	D	D
Number of Flushes	10	10	10	10
Flushing Solution	Surfactants and water	Surfactants and water	Surfactants and water	Surfactants and water
Subtotal Costs	\$34,844	\$57,612	\$91,278	\$134,266
Remedial Design:				
Design Percentage	13% or \$10,000	12% or \$10,000	12%	11%
Design Cost	\$10,000	\$10,000	\$10,953	\$14,769
TOTAL MARKED-UP COSTS	\$44,844	\$67,612	\$102,231	\$149,035
CUBIC YARDS PROCESSED	1,388	1,388	5,550	5,550
COST PER CUBIC YARD	\$32	\$49	\$18	\$27
COST PER 1000 CUBIC YARDS	\$32,320	\$48,729	\$18,420	\$26,853