GW TECHNOLOGY: Dual-Phase Extraction

	Scenario A	Scenario B	Scenario C	Scenario D
RACER PARAMETERS	Small Site		Large Site	
	Easy	Difficult	Easy	Difficult
Media/Waste Type	Groundwater/Soil	Groundwater/Soil	Groundwater/Soil	Groundwater/Soil
Contaminant	VOCs	VOCs	VOCs	VOCs
Approach	In situ - Vacuum			
	Enhanced Dual	Enhanced Dual	Enhanced Dual	Enhanced Dual
	Phase Extraction	Phase Extraction	Phase Extraction	Phase Extraction
Contaminated Area (SF)	21,780	21,780	43,560	43,560
Depth to Groundwater (ft)	15	15	15	15
Soil Type	Sand-Silt/Silty-	Silt/Silty-Clay	Sand-Silt/Silty-	Silt/Silty-Clay
	Sand Mixture	Mixture	Sand Mixture	Mixture
Flow per Well (gpm)	5.0	1.0	5.0	1.0
Number of Vapor Extraction Wells	23	58	46	115
Vapor Flow Rate (cfm)	345	345	690	690
Safety Level	D	D	D	D
Bioslurping Cost	\$259,237	\$584,665	\$489,986	\$1,142,874
Carbon Adsorption Cost (Gas Treatment)	\$10,873	\$10,873	\$20,894	\$20,894
Carbon Adsorption Cost (Liquid	\$9,969	\$9,969	\$9,969	\$9,969
Treatment)	\$9,909	\$9,909	\$9,909	\$9,909
Subtotal Cost	\$280,079	\$605,507	\$520,849	\$1,173,737
Remedial Design:				
Design Percentage	10%	9%	9%	8%
Design Cost	\$28,012	\$54,483	\$46,873	\$93,894
TOTAL MARKED-UP COSTS	\$308,091	\$659,990	\$567,722	\$1,267,631
CUBIC YARDS TREATED	12,100	12,100	24,200	24,200
COST PER CUBIC YARD	\$25	\$55	\$23	\$52
COST PER 1000 CUBIC YARDS	\$25,462	\$54,545	\$23,460	\$52,381