	EPA	MDNR	Republic (at stations)	Republic (at excavation)
General Location	community	fenceline	onsite	at open trench
# of Stations	5	3	13 (proposed)	mobile handhelds
Purpose	ambient air	CERCLA release	OSHA worker	OSHA worker/release control
Levels to expect	non-detect to barely detectable	non-detect to low detections	non-detect to moderate detections	moderate to elevated
Radiation				
Laboratory samples				
TLD	gamma/monthly		gamma/quarterly	gamma/quarterly
Particulates	alpha-beta/weekly		alpha-beta/monthly	
Alpha-track detector			radon/quarterly	
Eperms	radon/weekly			
PICs	gamma/weekly			
ECAM	α/β/Υ as needed			
Portable field monitoring	uR/hr	uR/hr		uR/hr
Genitron	gamma			
GammaRae	gamma	gamma		
ECAM	gamma			
Ludlum model 192				gamma
Ludlum model 3				alpha-beta
Identifinder		gamma		

	EPA	MDNR	Republic (at stations)	Republic (at excavation)
Volatile Organic Compounds				
Laboratory samples	Analytes/method	Analytes/method	Analytes/method	
Summas - VOCs	EPA TO-15	VOCs		
Radiellos - VOC + H2S	Radiello Code 130		Radiello Code 130	
Portable field monitoring	Sensors/detection limits/measurement frequency	Sensors/detection limits/measurement frequency	Sensors/detection limits/measurement frequency	
AreaRae	CO - 1ppm	CO - 1ppm	N/A	
	VOCs - 1ppm	VOCs - 1ppm		
	H2S - 1ppm	H2S - 1ppm		
	SO2 - 1 ppm	SO2 - 1 ppm		
		O2		
		LEL - %		
MultiRae		VOCs - ppm		VOCs - ppm
		LEL - %		LEL - %
		H2S - ppm		H2S - ppm
		CO -ppm		CO -ppm
		O2 - %		O2 - %
		SO2 - 1 ppm		
ppbRae		VOCs		
ultraRae 3000		benzene		
Jerome H2S		H2S/0.1 ppm/as needed		
Nasal Ranger field Olfactometer		odor/variable/as needed		
Atmospheric conditions	NOAA/AWAS St. Louis International	Weatherpak at trailer	Model 05305 Wind Monitor-AQ	
Measurements tracked	wind speed	wind speed	wind speed	
	wind direction	wind direction	wind direction	
	precipitation	precipitation		
Telemetry	Viper	Rae systems		

	Rae System			