

Table 1. Monitoring Parameters

	A	B	C	D	E
1	Chemistry Suites for all Matrices,				
2	Field A and Fixed Laboratory(ies) B, C, D (Sheet 2)	Field Parameters A	Fixed Laboratory B	Fixed Laboratory C	Fixed Laboratory D
3					
4					
5					
6					
7	Initial Sample SG1,2,3 and BW1,5,7,8,9,10 (Chem A, B, C)	X	X	X	
8					
9	sample and analyze 1/2extracted water (Chem A and B)	X	X		
10					
11	Sample and analyze BW1 immed. before inject (Chem C)	X	X		
12	sample and analyze SG1,2,3 immed after inject (Chem A and C)	X		X	
13	sample and analyze BW1 immed after inject (Chem A and B)	X	X		
14					
15	*Sample SG1,2,3 and BW1—1 month after inject* (Chem A, B, and C)	X	X	X	
16					
17	remove and test Biotrap from BW1 before next sampling (Chem A and D)	X			X
18	*Sample SG1,2,3 and BW1—2 month after inject* (Chem A, B, C, and D)	X	X	X	X
19					
20	*Sample SG1,2,3 and BW1,5,7,8,9,10—3 month after inject* (Chem A, B, and C)	X	X	X	
21					
22	*Sample SG1,2,3 and BW1,5,7,8,9,10—6 months after inject* (Chem A, B, and C)	X			
23					
24	*Sample SG1,2,3 and BW1,5,7,8,9,10—9 months after inject* (Chem A, B, and C)	X	X	X	
25	*Flexibility in all above F(H2S, CH4, VC)*				
26					
27					
28					
29					
30					
31					
32	Field Parameters (A): Groundwater = Temperature, pH, Specific Conductance, Dissolved Oxygen, Oxidation Reduction Potential, Visual and Odor				
33	Field Parameters (A): Air/Vapor = Visual and Odor, PID, Methane, Carbon Dioxide, Hydrogen Sulfide, Lower Explosive Limit, Percent Oxygen				
34					
35					
36	Fixed Laboratory (B): Groundwater = Chlorinated Volatile Organic Compounds (USEPA 8260), Alkalinity, Total Organic Carbon, Dissolved Organic Carbon, Total Dissolved Solids, Total Sodium, Dissolved Sodium, Total and Dissolved Ferrous Iron, Total and Dissolved Manganese, dissolved 17 CAM Metals, Total and dissolved Nitrate and Nitrite, Total and Dissolved Sulfate and Sulfide, <i>Dissolved Carbon Dioxide, Dissolved Methane, Dissolved Ethene, Dissolved Ethane BW-1 only??</i>				
37	<i>Dissolved 17 CAM metals only analyzed for in BW1,5,7,8,9,10 prior to injection and at the 9 month after injection sampling.</i>				
38					
39					
40	Fixed Laboratory (C): Air/Vapor = Chlorinated Volatile Organic Compounds (US EPA TO15), Carbon Dioxide, Methane, Hydrogen Sulfide, Ethene, Ethane, Carbon Dioxide, Oxygen, and 2-propanol.				
41					
42					
43	Fixed Laboratory (D): BioTrap in BW-1 only for Dechlorinating Bacteria Enumeration. In BW1, 2 months after injection, quantify cis-1,2-DCE using Compound Specific Isotope Analysis.				