

Table E.1
Results of Natural Attenuation Parameter Sampling - Off-post Monitoring Program
Field Analysis
Camp Stanley Storage Activity

Method Analyte	Sample ID Sample Date Sample Type Lab Sample ID					JW-14 09/16/02 N 14PAR1					LS-7 09/16/02 N 14PAR2					LS-6 09/16/02 N 14PAR3					RFR-10 09/16/02 N 14PAR4				
	Result	Flag	SQL	DL	RL	Result	SQL	Flag	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL					
<i>VFAs 8015M (mg/L)</i>																									
Acetic Acid	2.8	U	0.08	1.0	1.0	1.0	0.1	U	1.0	1.0	4.4		0.08	1.0	1.0	4.2		0.08	1.0	1.0					
Butyric Acid	1.0	U	0.40	1.0	1.0	1.0	0.4	U	1.0	1.0	1.0	U	0.40	1.0	1.0	1.0	U	0.40	1.0	1.0					
Formic Acid	1.0	U	0.05	1.0	1.0	1.0	0.1	U	1.0	1.0	1.0	U	0.05	1.0	1.0	1.7		0.05	1.0	1.0					
Lactic Acid	1.0	U	0.06	1.0	1.0	1.0	0.1	U	1.0	1.0	1.4		0.06	1.0	1.0	1.5		0.06	1.0	1.0					
Propionic Acid	1.0	U	0.10	1.0	1.0	1.0	0.1	U	1.0	1.0	1.0	U	0.10	1.0	1.0	1.0	U	0.10	1.0	1.0					
Pyruvic Acid						4.0	0.3	U	1.0	4.0	4.0	U	0.25	1.0	4.0	4.0	U	0.25	1.0	4.0					
<i>DH (nM)</i>																									
Dissolved Hydrogen	1.0			1.0		1.6			1.0		0.9			1.0		1.6				1.0					
<i>PLFA</i>																									
Anaerobic Metal	0.0			1.0		0.0			1.0		0.0			1.0		0.0				1.0					
Environmental Stress	0.0			1.0		0.0			1.0		0.0			1.0		0.0				1.0					
Eukaryotes (% total)	10.8			1.0		2.6			1.0		4.6			1.0		6.4				1.0					
Genera (Nsats) (% total)	56.0			1.0		33.6			1.0		41.2			1.0		55.2				1.0					
Gram (monos) (% total)	33.3			1.0		48.7			1.0		54.3			1.0		30.0				1.0					
Gram+/Anaerobic Gram- (% total)	0.0			1.0		13.0			1.0		0.0			1.0		0.0				1.0					
Growth	1.7			1.0		0.8			1.0		0.3			1.0		1.7				1.0					
Srb/Actinomyc	0.0			1.0		2.2			1.0		0.0			1.0		8.4				1.0					
Total Biomass (Pmole/mL)	0.2			1.0		0.3			1.0		0.1			1.0		0.1				1.0					
<i>M2720C (ug/L)</i>																									
Methane	0.2	F	0.07		0.5	0.2	0.1	F		0.5	0.2	F	0.07		0.5	0.4	F	0.07		0.5					
Ethane	0.0	U	0.09		0.5	0.0	0.089	U		0.5	0.0	U	0.09		0.5	0.0	U	0.09		0.5					
Ethene	0.0	U	0.08		0.5	0.0	0.083	U		0.5	0.0	U	0.08		0.5	0.0	U	0.08		0.5					
<i>SW9056 (mg/L)</i>																									
Chloride	17.0		0.12		1.0	14.0	0.1			1.0	20.0		0.12		1.0	16.0		0.12		1.0					
<i>Method SW9060</i>																									
DOC	5.5	M	0.29		1.0	6.9	0.29			1.0	5.6		0.29		1.0	5.7		0.29		1.0					

All samples were analyzed by Severn Trent Laboratories (STL) and Microbial Insights.

Abbreviations/Notes:

- FD - Field Duplicate
- MDL - Method Detection Limit
- N - Environmental Sample
- DL - Dilution
- RL - Reporting Limit

Data Qualifiers:

- F- The analyte was positively identified but the associated numerical value is below the RL.
- J- The analyte was positively identified, the quantitation is an estimation.
- U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
- M- Matrix Effect Present

Table E.1
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Camp Stanley Storage Activity

Method	Sample ID	Sample Date	Sample Type	Lab Sample ID	RFR-11					OFR-3					LS-1					LS-2				
					Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL
					09/16/02 N 14PAR6					09/16/02 N 14PAR5					09/17/02 N 14PAR12					09/17/02 N 14PAR10				
<i>VFAs 8015M (mg/L)</i>																								
Acetic Acid					2.9		0.08	1.0	1.0	5.5		0.08	1.0	1.0	3.0		0.08	1.0	1.0	2.4		0.08	1.0	1.0
Butyric Acid					1.0	U	0.40	1.0	1.0	1.0	U	0.40	1.0	1.0	1.0	U	0.40	1.0	1.0	1.0	U	0.40	1.0	1.0
Formic Acid					1.0	U	0.05	1.0	1.0	1.8		0.05	1.0	1.0	1.0	U	0.05	1.0	1.0	1.0	U	0.05	1.0	1.0
Lactic Acid					1.0		0.06	1.0	1.0	1.8		0.06	1.0	1.0	1.0	U	0.06	1.0	1.0	1.0	U	0.06	1.0	1.0
Propionic Acid					1.0	U	0.10	1.0	1.0	1.0	U	0.10	1.0	1.0	1.0	U	0.10	1.0	1.0	1.0	U	0.10	1.0	1.0
Pyruvic Acid					4.0	U	0.25	1.0	4.0	4.0	U	0.25	1.0	4.0	4.0	U	0.25	1.0	4.0	4.0	U	0.25	1.0	4.0
<i>DH (nM)</i>																								
Dissolved Hydrogen					1.3			1.0		1.8			1.0		1.4			1.0		3.9			1.0	
<i>PLFA</i>																								
Anaerobic Metal					1.5			1.0		0.0			1.0		0.0			1.0		0.0			1.0	
Environmental Stress					0.1			1.0		0.0			1.0		0.0			1.0		0.0			1.0	
Eukaryotes (% total)					2.7			1.0		0.0			1.0		0.0			1.0		5.0			1.0	
Genera (Nsats) (% total)					27.4			1.0		43.7			1.0		53.2			1.0		50.5			1.0	
Gram (monos) (% total)					53.6			1.0		35.6			1.0		46.8			1.0		40.2			1.0	
Gram+/Anaerobic Gram- (% total)					10.6			1.0		0.0			1.0		0.0			1.0		0.0			1.0	
Growth					0.5			1.0		1.3			1.0		0.0			1.0		1.0			1.0	
Srb/Actinomyc					4.1			1.0		20.7			1.0		0.0			1.0		4.3			1.0	
Total Biomass (Pmole/mL)					0.8			1.0		0.1			1.0		0.1			1.0		0.1			1.0	
<i>M2720C (ug/L)</i>																								
Methane					0.2	F	0.07		0.5	0.2	F	0.07		0.5	0.3	F	0.07		0.5	0.2	F	0.07		0.5
Ethane					0.0	U	0.09		0.5	0.0	U	0.09		0.5	0.0	U	0.09		0.5	0.0	U	0.09		0.5
Ethene					0.0	U	0.08		0.5	0.0	U	0.08		0.5	0.0	U	0.08		0.5	0.0	U	0.08		0.5
<i>SW9056 (mg/L)</i>																								
Chloride					16.0		0.12		1.0	11.0		0.12		1.0	14.0		0.12		1.0	20.0		0.12		1.0
<i>Method SW9060</i>																								
DOC					4.8		0.29		1.0	5.2		0.29		1.0	5.0		0.29		1.0	7.1	M	0.29		1.0

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Method Analyte	Sample ID Sample Date Sample Type Lab Sample ID					LS-3 09/17/02 N 14PAR11					LS-4 09/17/02 N 14PAR7					HS-2 09/17/02 N 14PAR8					JW-9 09/17/02 N 14PAR9				
	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL					
<i>VFAs 8015M (mg/L)</i>																									
Acetic Acid	3.2		0.08	1.0	1.0	3.9		0.08	1.0	1.0	4.0		0.08	1.0	1.0	3.6		0.08	1.0	1.0					
Butyric Acid	1.0	U	0.40	1.0	1.0	1.0	U	0.40	1.0	1.0	1.0	U	0.40	1.0	1.0	1.0	U	0.40	1.0	1.0					
Formic Acid	1.0	U	0.05	1.0	1.0	1.0	U	0.05	1.0	1.0	1.0	U	0.05	1.0	1.0	1.5		0.05	1.0	1.0					
Lactic Acid	1.4		0.06	1.0	1.0	1.2		0.06	1.0	1.0	1.5		0.06	1.0	1.0	1.7		0.06	1.0	1.0					
Propionic Acid	1.0	U	0.10	1.0	1.0	1.0	U	0.10	1.0	1.0	1.0	U	0.10	1.0	1.0	1.0	U	0.10	1.0	1.0					
Pyruvic Acid	4.0	U	0.25	1.0	4.0	4.0	U	0.25	1.0	4.0	4.0	U	0.25	1.0	4.0	4.0	U	0.25	1.0	4.0					
<i>DH (nM)</i>																									
Dissolved Hydrogen	2.2			1.0		2.0			1.0		3.1			1.0		2.6			1.0						
<i>PLFA</i>																									
Anaerobic Metal	0.0			1.0		0.0			1.0		0.0			1.0		0.0			1.0						
Environmental Stress	0.0			1.0		0.0			1.0		0.0			1.0		0.0			1.0						
Eukaryotes (% total)	0.0			1.0		2.3			1.0		0.8			1.0		22.3			1.0						
Genera (Nsats) (% total)	55.6			1.0		44.3			1.0		30.0			1.0		38.5			1.0						
Gram (monos) (% total)	44.4			1.0		53.4			1.0		64.4			1.0		43.2			1.0						
Gram+/Anaerobic Gram- (% total)	0.0			1.0		0.0			1.0		2.3			1.0		13.1			1.0						
Growth	1.4			1.0		1.3			1.0		0.2			1.0		0.9			1.0						
Srb/Actinomyc	0.0			1.0		0.0			1.0		2.5			1.0		2.8			1.0						
Total Biomass (Pmole/mL)	0.1			1.0		0.2			1.0		0.9			1.0		0.4			1.0						
<i>M2720C (ug/L)</i>																									
Methane	0.5	F	0.07		0.5	0.5	F	0.07		0.5	1.0		0.07		0.5	0.3	F	0.07		0.5					
Ethane	0.0	U	0.09		0.5	0.0	U	0.09		0.5	0.0	U	0.09		0.5	0.0	U	0.09		0.5					
Ethene	0.0	U	0.08		0.5	0.0	U	0.08		0.5	0.0	U	0.08		0.5	0.0	U	0.08		0.5					
<i>SW9056 (mg/L)</i>																									
Chloride	18.0		0.12		1.0	14.0		0.12		1.0	12.0		0.12		1.0	21.0		0.12		1.0					
<i>Method SW9060</i>																									
DOC	6.3		0.29		1.0	5.4		0.29		1.0	6.3		0.29		1.0	6.1		0.29		1.0					

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