

DEPARTMENT OF THE ARMY CAMP STANLEY STORAGE ACTIVITY, MCAPP 25800 RALPH FAIR ROAD, BOERNE, TX 78015-4800

September 28, 2007

U-110-07

Mr. Bryan Smith Texas Commission on Environmental Quality Industrial and Hazardous Waste Permits Section P.O. Box 13087 (MC-130) Austin, TX 78711-3087

Subject: Monthly Status Report of the Pilot Study Class V Aquifer Remediation Injection Wells at Camp Stanley Storage Activity, Boerne, Texas, TCEQ Authorization No. 5X2600431; WWC12002216; CN602728206/RN104431655

Dear Mr. Smith:

The Camp Stanley Storage Activity (CSSA), McAlester Army Ammunition Plant, U.S. Army Field Support Command, Army Materiel Command, U.S. Army, is submitting this monthly report summarizing the injection activities performed at the on-post Solid Waste Management Unit (SWMU) B-3 site. The activities performed are part of the planned SWMU B-3 Pilot Study being performed to evaluate the effectiveness of enhanced anaerobic biodegradation (EAB) for treatment of chlorinated compounds in groundwater. The pilot study activities include the injection of recovered groundwater into mulch/gravel filled bioreactor trenches.

This monthly report is for the period of July 30, 2007 through August 26, 2007. Due to elevated rainfall amounts during this period, the groundwater injection system was suspended. Therefore twice monthly samples of the injected groundwater for volatile organic concentrations and total dissolved solids were not collected. However monthly monitoring data were collected and are expected to be presented in the quarterly report as required by the UIC authorization.

If you have any questions regarding the information contained in this letter, please feel free to contact Glare Sanchez, CSSA Environmental Program Manager, at (210) 698-5208 or Ken Rice, Parsons, at (512) 719-6050.

Sincerely, Jason D. Shirley Installation Manager

Attachments

cc: Glare Sanchez, CSSA Environmental Program Manager Kent Rohlof, AFCEE Julie Burdey, Parsons Ken Rice, Parsons Brian Vanderglas, Parsons File: 744223.11000

Personnel S.Ellie	H + K. C	uskey							
			Mor	thly Moni	toring	an a			
MPMWs	Sample Date	Sample Time	pН	Temp	SpCond	ORP			Performance
CS-WB05-LGR-01	8/22/07	140.0	4.84	23.67	0.934	-24.2	4.22		
CS-WB05-LGR-02		1350	6.88	24.57	0.811	-45.5	4.03		
CS-WB05-LGR03A		1341	6.94	26.36	0.720	6.5	5,20		
CS-WB05-LGR03B		1045	7.11	34.34	0.848	-5.2	3.98		
CS-WB05-LGR04A		1034	7.06	23.47	0.603	-99.0	3.86		
CS-WB05-LGR04B		1025	6.85	23.06	0.567	1.9	4.90		
CS-WB05-BS-01		1013	7.01	23.29	0,576	-59.5	5.23		
CS-WB05-CC-01		1004	6.95	23.41	0.623	-86.2	4,40		
CS-WB05-CC-02	1	0954	4.86	23.96	0.635	-74.3	5.94		
CS-WB06-UGR-01	8/21/07	1445	6.87	25.07	0,715	13.0	3.37		
CS-WB06-LGR-01		1435	7,00	24.42	0,645	12.8	4.37		
CS-WB06-LGR-02		1425	7,10	24,28	0.622	2.8	3.64		
CS-WB06-LGR03A		1415	7.03	24.26	0.605	21.9	6.27		
CS-WB06-LGR03B		1355	7.07	24,74	0.613	-0.1	3,20		
CS-WB06-LGR-04		1340	6.93	24.03	0.590	10.9	4.64		
CS-WB07-UGR-01	8/22/07	1601	6.54	23,04	0.832	105.0	2,13		
CS-WB07-LGR-01	8/22/07	1555	6.90	22.97	0.720	7.9	3.53		
CS-WB07-LGR-02	8/22/07	1545	4.98	23.06	0.637	-21.3	4.74		
CS-WB07-LGR03A	8/22/07	1535	7.02	23.47	0.584	-34.3	5.29		
CS-WB07-LGR03B	8/22/07	1455	7.04	24.46	0.597	-21.1	6.06		
CS-WB07-LGR-04	8/22/07	1441	7.02	25.94	0.602	1.3	4.10		
CS-WB08-UGR-01	8/21/07	10.50	4.91	24.02	0.633	22.0	2.73		
CS-WB08-LGR-01	8/21/07	1043	7.01	23.74	0.773	9.5	3.15		
CS-WB08-LGR-02	8/21/07	1035	7,03	24,26	0.856		4.28		
CS-WB08-LGR03A	8/21/07	- 1032	6.93	23.60	0.605	40.2	6.42		
CS-WB08-LGR03B	8/21/07	1015	Ú.92	23.60	0.598		195,05		
CS-WB08-LGR-04 Notes As part of mon	8/21/07		7,00	23.30	0.557		1.68 C	¥	

Notes As part of monthly monitoring, Sumps 1-1, 1-2, 1-3, and uppermost saturated intervals of WB05 and WB-07 will be sampled for Performance list of analyses. Sumps in any trench that has been used during the previous 30 days will be sampled for Regulatory list of analyses. TDS has to be added to the list of analyses for Sumps 1-1, 1-2, and 1-3 if Trench 1 has been used in the previous 30 days.

Personnel 5.El	1.044 + K.	Cuskey				
<u> </u>	Week	ly Wate	er Leve	Monito	oring	
Well Interval	Sampling Port Depth (ft BTOC)		Sample Time	Pressure at TOC (psi)	Pressure in MP (psi)	Zone Pressure (psi)
CS-WB05-LGR-01	99	8/22/07	0945	14.10	14,17	30.93
CS-WB05-LGR-02	182		0944		14.21	70.10
CS-WB05-LGR-03A	216		0943		14.23	86.17
CS-WB05-LGR-03B	262		6942	-	26.01	106,13
CS-WB05-LGR-04A	277		0941		32,53	112.91
CS-WB05-LGR-04B	329		0939		55.15	135.45
CS-WB05-BS-01	362		0937		69:49	148.15
CS-WB05-CC-01	432		0936		99.88	164.84
CS-WB05-CC-02	460	V	0935		112.02	176.84
CS-WB06-UGR-01	20	8/21/07	1334	14.04	14.09	20.04
CS-WB06-LGR-01	93		1333		14.11	41.34
CS-WB06-LGR-02	174		1332		14.17	75.87
CS-WB06-LGR-03A	207		1331		14.18	86.37
CS-WB06-LGR-03B	260		1327		24.04	109,27
CS-WB06-LGR-04	320		1326		50.10	135.63
CS-WB07-UGR-01	14	8/22/07	1434	14.08	14.09	18,53
CS-WB07-LGR-01	90		1433		14,13	35,37
CS-WB07-LGR-02	175		1432	-	14.19	74.26
CS-WB07-LGR-03A	208		1431		14.19	87.15
CS-WB07-LGR-03B	257		1430	-	18.00	108.34
CS-WB07-LGR-04	318	V	1429		44.52	134.66
CS-WB08-UGR-01	38	8/21/07	0942	14.04	14.11	22.46
CS-WB08-LGR-01	115		0941	_	14.14	34.04
CS-WB08-LGR-02	193		0146		14.17	69.67
CS-WB08-LGR-03A	228		0939	_	14.19	85.75
CS-WB08-LGR-03B	273		0938		21.42	105,20
CS-WB08-LGR-04	341	V	0937		50.95	135.63

Permit SE (IbpH + K, & Ket Bioreactor Monitoring Mark Bioreactor Monitoring Bioreactor									
Bioreactor Monitoring Iranch Sumps Water Levels (BIOC) Sump Note: Sump View Date: Sum View Date: Date: <thdate:< th=""> <thdate:< th=""> <thdate:< th=""></thdate:<></thdate:<></thdate:<>		+							
Summing Summing Summing Summer Summer Summer Summer Summer Summer Summer Summer Summer				Bid Trench Sui	preactor Monit mps Water Le	oring evels ('BTOC)	1		ad of the second and t
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Sump Depth. (ft BTOC)	Sump Water Level (ft BTOC)	Hq	Temp	SpCond	ORP		TRANSPORT
83-11-1 129 $2,0/8$ $6,4/9$ $25,7/12,15$ 0.65 $-742,0$ $0.72,0$ $0.72,0$ 83-11-2 12.4 $2,2/3$ $0.74/3$ $0.75/3$ $29,4/3$ $28,7/1,15$ $0.67/3$ $0.72/3$ $0.67/3$ 83-11-1 9.66 $4,76,3$ $0.74/3$ $0.74/3$ $0.74/3$ $0.74/3$ $0.74/3$ 83-13-1 9.66 $4,76,3$ $0.74/3$ $28,7/1,12$ $0.74/6$ $0.74/6$ 83-13-1 9.96 $0.74/3$ $0.74/3$ $2.73/6$ $-171,2$ $0.74/6$ 83-13-2 1.06 $0.74/3$ $2.73/6$ $1.0/4$ $2.73/6$ $-171,2$ $0.74/6$ 83-13-2 1.06 $0.74/3$ $2.73/6$ $1.71/6$ $0.74/6$ $0.74/6$ 83-10-2 1.14.6 $0.1/6/3$ $2.73/6$ $1.71/2$ $0.74/6$ $0.74/6$ 83-10-2 1.23.4 $1.0/6$ $0.7/6$ $0.74/6$ $0.74/6$ $0.74/6$ 83-10-2 1.23.4 $1.0/6$ $0.7/6$ $0.7/6$ $0.7/6$ $0.7/6$ $0.7/6$ $0.7/6$	Date: 8/33				1				Alash Alaw
83-112 12.4 $\lambda.25$ $(i.35)$ $2.8et$ $i.37$ $(i.35)$ $2.8et$ $i.0.70$ 0.90 83-11-3 ser $i.0.7$ $i.37$ $i.0.70$ 0.90 0.90 83-12-1 ser $i.0.7$ $i.0.70$ 0.90 0.90 0.90 83-12-1 ser $i.0.70$ $i.47$ $i.0.73$ 0.46 0.90 83-13-1 ser $i.0.70$ $i.47$ $i.0.73$ 0.46 0.90 83-13-1 ser $i.0.70$ $i.43$ $i.3.5.7$ $1.0.93$ $i.9.6$ 0.46 83-15-1 $i.33$ $i.10$ $i.43$ 35.57 $1.0.93$ 0.46 9.4 83-15-1 $i.33$ $i.10$ $i.40$ $i.40$ $i.43$		12.9	2.68	6.49	5.		'!±!		
B3-T1-3 12.86 1 9.3 0.93 0.93 0.93 0.93 0.90	1 102 102 - A 846 21	12.4	3.28	6.35			152.	0.69	
B67 4^{0} {6} 6_{1} {5} $24,37$ $16,75$ $24,37$ $16,75$ $24,37$ $16,75$ 0.47 $24,97$ 3.365 -171.1 0.47		12.85	1.92	U-99	-	0		0.40	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	B3-T2-1	9.67	20%	6,35	29.39	1,678	5.451	\mathcal{N}	Ì
9.96 (30) (42) 35.57 $LOUS$ 7.4 (30) (40) 35.57 $LOUS$ 7.4 046 7.33 (90) (40) 31.05 (40) 31.05 046 7.33 $L.055$ (40) 31.05 046 7.9 7.33 $L.055$ $L.40$ 21.053 -199.6 046 7.33 $L.135$ $L.43$ $J.083$ 22.33 $J.083$ $Notes$ $Four incluse readings Four incluse readings Four incluse readings Pa.7 Pa.7 Pa.7 Data / Time Rate grambeol Total (gal) P2 Pa.4 Pa.4 Data / Time Rate grambeol Total (gal) P2 Notes Notes Pathododddddddddddddddddddddddddddddddddd$	B3-T2-2	10.01	04,4 01.10	le. 49	29.98	۲ <u>۱</u>	-171.7	0,48	ł
7.4 $[i, i]0$ i <t< td=""><td>B3-T3-1</td><td>96.6</td><td>0,8,0</td><td><i>6.42</i></td><td>as.57</td><td>LOWS</td><td>-148.2</td><td>0,46</td><td>+ 6,2'</td></t<>	B3-T3-1	96.6	0,8,0	<i>6.42</i>	as.57	LOWS	-148.2	0,46	+ 6,2'
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	B3-T3-2	7.4	(, f0						<i>1</i>
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	B3-T4-1	6.32	le.05	•					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	B3-T5-1	9.33	9.10						14.14
11.45 $ 1,15$ <th< td=""><td>B3-T5-2</td><td>7.98</td><td><i>ز.</i>٥۶</td><td>6.46</td><td>26.68</td><td>0.910</td><td>-124.6</td><td>0,47</td><td></td></th<>	B3-T5-2	7.98	<i>ز.</i> ٥۶	6.46	26.68	0.910	-124.6	0,47	
12.34 1.35 1.43 $2.4.33$ 1.033 -149.6 0.4% B-3 Transfer System Monitoring Flow meters readings Flow meters readings Flow meters readings Parameter System Monitoring Parameter System Monitoring Para flow meters readings Notes Para flow meters readings Notes Notes Para flow flow Cumulative P-4 Notes Notes Notes Notes Notes Notes Notes Para flow Notes Notes Notes Para flow Notes Notes Notes Notes Notes Para flow Notes Para flow Notes Para flow Para flow	B3-T6-1	11.45	11,15						170
Flow meters readings B-3 Transfer System Monitoring Pressure Readings Notes Flow meters readings Pressure Readings Data / Time Rate (parw) fed/ (provided) Cumulative p-2 P-1 Data / Time Rate (parw) fed/ (provided) Cumulative p-2 P-1 Data / Time Rate (parw) fed/ (provided) Cumulative p-2 P-1 Data / Time Rate (parw) fed/ (provided) Notes Data / Time PB-1: PB-2: PB-1: PB-2: PR-2: PB-1: PB-2: Fo/m	B3-T6-2	12.34	N.25 S	4.42	26.22	1.083	149	0.48	1 2 - 6
B-3 Transfer System Monitoring Flow meters readings Notes Flow meters readings Notes Flow meters readings Notes Data / Time Rate (grantyr teol) Cumulative P-1 P-3 Data / Time Rate (grantyr teol) Cumulative P-1 P-3 Data / Time Rate (grantyr teol) Cumulative P-1 P-3 I I P-3 P-3 P-3 I I P-3	B3-UIC								
Flow maters reacings Pressuic Readings Notes Data / Time Rate (gravity fed) (provide) Cumulative (provide) P-1 P-1 Data / Time Rate (gravity fed) (provide) Total (gal) P-2 Note Parte / P-3 P-3 Note Parte / P-4 Note P-4 Parte P-4 P-4 Note P-4 Parte P-4 P-4 P-4 P-4 P-4 P-				က္		Monitoring			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Flow meter	s readings		Pressure	Readings		Notes	
Data TilleNateTotal (gal)P-2P-3P-3 l l $P-3$ $P-3$ $P-3$ $NateRBag Fiter Pressure Drop is equallllP-3P-3NateRBag Fiter Pressure Drop is equallllP-3P-3NateRBag Fiter Pressure Drop is equallllP-3P-3NateRBag Fiter Pressure Drop is equalllllP-3P-3P-3llllP-3P-3P-3lllP-3P-3P-3lllP-3P-3P-3lllP-3P-3P-3lllP-3lllllP-3lllllP-3lllllP-3lllllP-3lllllP-3lllllP-3lllllP-3llllllllllllllllllllllll$	Matar	Data / Timo	Rate (gravity fed)/	Cumulative	P-1				
P-3P-3P-3IIP-4Nate: If Bag Filter Pressure Drop is equal greater than 20 psis Change filter.IIBag Filter Pressure Reading greater than 20 psis Change filter.IIPB-t: <t< td=""><td>ואובובו</td><td></td><td>(GPM)</td><td>Total (gal)</td><td>P-2</td><td></td><td></td><td></td><td></td></t<>	ואובובו		(GPM)	Total (gal)	P-2				
I $P.4$ $P.4$ I <td>T-1</td> <td></td> <td>_</td> <td></td> <td>P-3</td> <td></td> <td></td> <td></td> <td></td>	T-1		_		P-3				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Τ-2		/		P-4				
Image: Image of the second condition	Т-3		/				Note: If Bag	Filter Pressure Drop is equal to c	
I(Pressure Drop (PB-1)- (PB-2)=I Ho water added to any ofI $PB-t: PB-2: =$ PB-t: PB-2: = Ho fourtios, trench I overI $PB-t: PB-2: =$ F(Im 165) $Hurs dev s ran, endIPB-t: PB-2: =PB-t: PB-2: =Hor Ides for the second $	T-4		/		Bag Filter Pre	ssure Reading	greate	r than 20 psi. Change filter.	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	T-5		/			(PB-1)-(PB-2)=			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T-6		/					added to any	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	B-3 (Mon)		/					as , trench I overs	icha
PB-1: PB-2: =	B-3 (Tues)		1			11		duss	
Image: black in the second s	B-3 (Wed)		/						
/ PB-1: PB-2:	B-3 (Thurs)		~	£		I			
	B-3 (Fri)		~			U			

Week 17

S.

Personnel 5. Ell	liott + K.	Caskey	/			
	Week	ly Wat	er Leve	el Monito	pring	
WellInterval	Sampling Port. Depth (ft BTOC)	Sample Date	Sample Time	Pressure at TOC (psi)	Pressure in MP (psi)	Zone Pressure (psi)
CS-WB05-LGR-01	99	8/15/07	0927	14.01	14.10	29.97
CS-WB05-LGR-02	182	 	0926		14.13	45.63
CS-WB05-LGR-03A	216		0925		14.15	79.20
CS-WB05-LGR-03B	262		0923		25.95	99.14
CS-WB05-LGR-04A	277		0922		32.47	105.05
CS-WB05-LGR-04B	329		0921		55.D9	127.50
CS-WB05-BS-01	362		0920		69.44	142.22
CS-WB05-CC-01	432		0919	X	99,83	163.32
CS-WB05-CC-02	460	V	0.918		111.98	175.37
CS-WB06-UGR-01	20	8/15/07	0959	14.06	14.06	17.08
CS-WB06-LGR-01	93		0958		14,13	31.49
CS-WB06-LGR-02	174		0957		14.14	66.26
CS-WB06-LGR-03A	207		0956		14.17	80,80
CS-WB06-LGR-03B	260		0954		24.03	103,70
CS-WB06-LGR-04	320		0953		50,08	127.05
CS-WB07-UGR-01	14	8/15/07	0943	14.05	14.09	16.95
CS-WB07-LGR-01	90		0942		14,10	33.20
CS-WB07-LGR-02	175		0941		14.13	67.97
CS-WB07-LGR-03A	208		0940		14.16	80.64
CS-WB07-LGR-03B	257		0939		17.96	101.88
CS-WB07-LGR-04	318	V	0938	4.4	44.45	126,16
CS-WB08-UGR-01	38	8/15/07	1016	14.05	14.08	19,18
CS-WB08-LGR-01	115		1015		14.09	31.62
CS-WB08-LGR-02	193		7014		14.14	65,57
CS-WB08-LGR-03A	228		1013	-	14.16	78,34
CS-WB08-LGR-03B	273		1012	-	21.38	97.79
CS-WB08-LGR-04	341	V	1005-		14.17-	15,82-GD
			(01) Week 14)	50.91	127.66

Week 🔟

reactor
ä
Mulch
Tree
в.3
SWMU

Personnel: 5	5.Elliott +	K. Caskey					
	· ·		1	Bioreactor Monitoring Sumps Water Levels	Bioreactor Monitoring Trench Sumps Water Levels ('BTOC)		
Sump ID	Sump Depth (H.BTOC)	Sump Water Level (ft BTOC)	Ηđ	Temp	SpCand	ÓŘÞ	Trench DO Currently Being Used (v)
Date: <i>&/15</i>	40	Time: 0830					
B3-T1-1	12.9	8,02	Ú.44	26.73	1571	-162.0	56.0
B3-T1-2	12.4	7.67	457	30.34	1,502	- 150,2	0.53
B3-T1-3	12.85	7.43	(ø.S. 1	30.79	1.274	-181.4	0.37
B3-T2-1	29.6	8,98	6.59	28.68	1.714	-184.3	0.65
B3-T2-2	10.01	8.86	G. CO	arte	3.429	-178.5	0.42
B3-T3-1	96.6	8.99	6.49	26.26	1,034	-152,4	0.43
B3-T3-2	7.4	Po.F			r		
B3-T4-1	6.32	6.13					
B3-T5-1	9.33	9.1					
B3-T5-2	7.98	7.85					
B3-T6-1	11.45	11.14					
B3-T6-2	12.34	12.00				U.	
B3-UIC							
	ŝ		B-3 Trai	Transfer System Monitoring	Monitoring		
	Flow meter	Flow meters readings		Pressure	Pressure Readings		Notes
		Rate (gravity fed)/	Cumulativo				
Meter	Data / Time	Rate (pump fed) (GPM)	Total (gal)	P-2			
T-1		1 .		P-3			
T-2		/		P-4			
T-3		/				Note: If Bag	Note: If Bag Filter Pressure Drop is equal to or
1-4		/		Bag Filter Pre	Bag Filter Pressure Reading	greate	greater than 20 psi. Change filter.
T-5		1		(Pressure Drop	(PB-1) - (PB-2)=.		
T-6		1					
B-3 (Mon)		1.			n		
B-3 (Tues)		/			11		
B-3 (Wed)		/			11		
B-3 (Thurs)		/		1	11		
B-3 (Fri)		/		PB-1: PB-2:	=		

Week //

Parsons

Personnel 5.E/	lintt t k	. Rice				· · · · · · · · · · · · · · · · · · ·
	Week	ly Wat	er Leve	Monito	oring	
Well Interval	Sampling Port Depth (ft BTOC)	Sample Date	Sample Time	Bressure at TOC (psi)	Pressure in MP (psi)	Zone Pressure (psi)
CS-WB05-LGR-01	99	8/8/07	0919	14.07	14,13	30,12
CS-WB05-LGR-02	182		0918		14,19	68.64
CS-WB05-LGR-03A	216		0917		14,21	82.79
CS-WB05-LGR-03B	262		0916		26,02	102.73
CS-WB05-LGR-04A	277		0915		32,54	108.70
CS-WB05-LGR-04B	329		0914		55.16	131,15
CS-WB05-BS-01	362		0913		69.49	145.38
CS-WB05-CC-01	432		0912		99,91	166.28
CS-WB05-CC-02	460	V	0911		110.05	178.30
CS-WB06-UGR-01	20	818/07	0846	14.10	14,11	17,75
CS-WB06-LGR-01	93		0845		14.14	36,50
CS-WB06-LGR-02	174		0844		14,18	71.21
CS-WB06-LGR-03A	207		0843		14.20	84.59
CS-WB06-LGR-03B	260		0842		24.07	107,48
CS-WB06-LGR-04	320	V	0839		50.11	130.86
CS-WB07-UGR-01	14	8/8/07	0828	14.07	14.08	17.92
CS-WB07-LGR-01	90		0827		14.12	35.74
CS-WB07-LGR-02	175		0825		14.18	72.35
CS-WB07-LGR-03A	208		0824		14.17	84.87
CS-WB07-LGR-03B	257		0822		17.96	106.08
CS-WB07-LGR-04	318	V	0820		44.45	130.06
CS-WB08-UGR-01	38	8/8/07	6901	14.07	14.09	19,69
CS-WB08-LGR-01	115		0900		14.12	32.18
CS-WB08-LGR-02	193		0859		14.17	69.01
CS-WB08-LGR-03A	228		0858		14.20	81.74
CS-WB08-LGR-03B	273		0857		21.41	101,18
CS-WB08-LGR-04	341	V	0856		50.95	131,27

			PB-1: PB-2:		_		B-3 (Fri)
					\ \		B-3 (Thurs)
		11	PR-1. PR-2.				
		n	PB-1: PB-2:				B-3 (Wed)
		II	PB-1: PB-2:	<u> </u>	_		B-3 (Tues)
		11	PB-1: PB-2:		_		B-3 (Mon)
					-		T-6
		(PB-1) - (PB-2)=	(Pressure Urop		/		Т-5
greater than 20 psi unange filter	n Jateal6	Bag Filter Pressure Reading	Bag Filter Prei		_		T-4
ote If Bag Filter Pressure Drop is equal to or	Note: If Bag Fi				\		T-3
Bistertori	Water in		P-4		_		T-2
in Jection due to elevate	No Gw in		P-3	Ô	/		T-1
			P-1 P-2	Total (gal)	Rate (pump fed) (GPM)	Data / Time	Meter
Notes		Readings	Pressure Readings		rs readings	Flow meters readings	
		Nonitoring	Transfer System Monitoring	B-3 Trar			
				(B3-UIC
			(12.07	12.34	B3-T6-2
					11.15	11.45	B3-T6-1
		atch 1	/ NO / WO		7.72	7.98	B3-T5-2
					9.10	9.33	B3-T5-1
					6.10	6.32	B3-T4-1
					7.02	7.4	B3-T3-2
0.45	-190.9	1.017	25.52	6.48	8.28	9.96	B3-T3-1
0,64	-181.4	3.52	29,23	6.55	6.82	10.01	B3-T2-2
0.46	4.102 -	1.751		6.56	6.62	9.67	B3-T2-1
0.40	-209.9	1.130	31.25	7.13 .	4,26	12.85	B3-T1-3
0.47	-208.9	1.154	L .	6.62		12.4	B3-T1-2
0,71	-207.1	1.318	26.39	6.53	520	12.9	B3-T1-1
					Time: 0800	107	Date: 8/9
DO Currently Being Used (V)	ORP	SpCond	Temp	рH	Sump Water Level (ft BTOC)	Sump Depth (ft BTOC)	Sump ID
		oring vels ('BTOC)	Bioreactor Monitoring Trench Sumps Water Levels ('BTOC)	Bic Trench Sur			*
					Rice	Ken	Personnel:
							Í

Week___

Parsons

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SWMU B-3 Tree Mulch Bioreactor

			PB-1: PB-2:		/		B-3 (Fri)
		11			/		B-3 (Thurs)
	-				·/		B-3 (Wed)
		11			1		B-3 (Tues)
		11			/		B-3 (Mon)
					/		9-T
) (PB-1) - (PB-2)=	(Pressure Unor		/		T-5
greater than 20 psi Change filter	sei6	Bag Filter Pressure Reading	Bag Filter Pro		/		T-4
ag Filter Pressure Drop is equal to or	Note: If B				/		T-3
er levels in trenchs 142	y raperi		P-4		/		T-2
16	Bioreacto		P-3		/		T-1
Injectic system			P-2	Total (gal)	(GPM)		Meter
	-		P-1	Cumulative	Rate (gravity fed)/	Data / Time	Motor
Notes		Pressure Readings	Pressure		s readings	Flow meters readings	
		Monitoring	Transfer System Monitoring	B-3 Trai			
							B3-UIC
64,0	-170.8	0,978	54,45	6:42	54,9	12.34	B3-T6-2
+	4, 612-	1.127	25.41	6.35	05,0	11.45	B3-T6-1
0.55	7-621-		25.08	th:9	4,90	7.98	B3-T5-2
0	-194,6	0,975	25,64	6.54	8.18	9.33	B3-T5-1
	-193.9		28.52	b. b	5,5	6.32	B3-T4-1
6	1.181-		78,35	(0, (0)	6.33	7.4	B3-T3-2
r 0,49	-222.7	6	25.04	6,49	10:23	9.96	B3-T3-1
	9.881-		29.75	6,58	3,98	10.01	B3-T2-2
0.49	-189.7	086	28.68	6,41	1972	9.67	B3-T2-1
	-220.0	1.137	30.35	6.68	1.53	12.85	B3-T1-3
	-273.5	5,857	27.37	6.63	1,40	12.4	B3-T1-2
0.4	-215,0	0.691	25.2	6.54	2:28	12.9	B3-T1-1
				V	Time: 1000		Date: 8/2
Do Currently Being Used (/)	ORP	SpCond	Тетр	Hd	Sump Water Level (ft BTOC)	Sump Depth (ft BTOC)	Sump (D
		toring evels ('BTOC)	Bioreactor Monitoring Trench Sumps Water Levels	Bit Trench Su			
						RR/AL	Personnel: KRR

Week

Parsons

SWMU B-3 Tree Mulch Bioreactor