



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

October 26, 2007

U-061-08

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 (Month 5 - September 2007) 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:

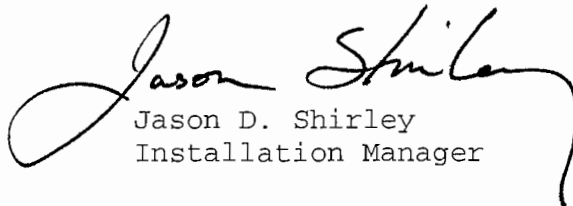
The Camp Stanley Storage Activity (CSSA), McAlester Army Ammunition Plant, U.S. Army Field Support Command, Army Materiel Command, U.S. Army, is submitting this monthly report summarizing the injection activities performed at the on-post Solid Waste Management Unit (SWMU) B-3 site. The activities performed 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 contains data as specified by the subject Texas Commission on Environmental Quality (TCEQ) Underground Injection Control (UIC) permit for the month of September 2007 (Month 5). The monthly reporting data includes twice monthly samples of the injected groundwater for volatile organic concentrations (VOCs) and total dissolved solids (TDS) and field collected parameters including injection volumes, injection pressures and the pH of recovered groundwater.

Between August 27, 2007 and September 30, 2007, approximately 224,500 gallons of groundwater from well CS-MW16-CC, were injected into SWMU B-3 bioreactor trench 1. A total of 799,175 gallons of recovered groundwater from CS-MW16-LGR and CS-MW16-CC have been injected into the bioreactor trench 1 since startup of the bioreactor. Samples of the injected groundwater were collected on September 6, 2007 and September 18, 2007. A historical summary of injection sampling is provided in Table 1. This table includes the results from September 2007. The laboratory data packages for the September sampling events are attached. Field forms which contain operating pressures and pH readings for the reporting period are also attached.

If you have any questions regarding the information contained in this letter, please feel free to contact Glaré 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: Glaré Sanchez, CSSA Environmental Program Manager
Kent Rohlof, AFCEE
Julie Burdey, Parsons
Ken Rice, Parsons
Brian Vanderglas, Parsons
File: 744223.11000

Table 1
B3 - UIC Analytical Results

Sample ID	Sample Date	Sample Type	Sampling Method	Lab ID	B3-UIC		B3-UIC		B3-UIC		B3-UIC		B3-UIC		B3-UIC		B3-UIC		
					Lab	Criteria (RCRA R42)	Results	Flags	Dilution	Results	Flags	Dilution	Results	Flags	Dilution	Results	Flags	Dilution	Results
SW8260B																			
Cis-DCE	0.16	1.2																	
Trans-DCE	0.19	0.6																	
TCE	0.16	1.0	500																
PCE	0.15	1.4	700																
Toluene	0.17	1.1																	
Vinyl Chloride	0.23	1.1	200																
EPA 160.1 (mg/L)	4.4	10																	
TDS																			
Field measured																			
pH																			

Tables present all laboratory results for analytes.

Data Qualifiers:
 1- The analyte was positively identified, the quantitation is on an individual basis.
 J- The analyte was analyzed for, but not detected. The associated numerical value is the MDL.
 U- The analyte was analyzed for, but not detected. The associated numerical value is the MDL.

All samples were analyzed by APPL Laboratory Services.
 pH results reported were field measured
 UIC criteria specified in 40 CFR 261.24 Table 1

Note: Bioreactor injection system shut-down during August 2007.
 therefore no samples of injection water collected.

Abbreviations and Notes:
 PQL Practical Quantitation Limit
 MDL Method Detection Limit
 NI Environmental Sample
 GVA Groundwater Analytical Laboratory

Personnel: S. Elliott + K. Cuskey

Bioreactor Monitoring Trench Sumps Water Levels ('BTOC)

Sump ID	Sump Depth (ft. BTOC)	Sump Water Level (ft. BTOC)	pH	Temp.	SpCond	ORP	DO	Trench Currently Being Used (Y)
Date: <u>8/29/07</u> Time: <u>0945</u>								
B3-T1-1	12.9	5.36	6.43	27.21	0.855	-183.2	0.61	
B3-T1-2	12.4	5.00	6.79	30.68	1.057	-194.4	0.39	✓
B3-T1-3	12.85	4.55	7.13	29.19	0.836	-196.3	0.36	
B3-T2-1	9.67	6.79	6.43	29.45	1.542	-177.5	0.48	
B3-T2-2	10.01	6.99	6.47	29.99	3.206	-194.4	0.43	
B3-T3-1	9.96	7.11	6.45	26.01	1.034	-144.5	0.47	
B3-T3-2	7.4	7.11						
B3-T4-1	6.32	6.18						
B3-T5-1	9.33	9.12						
B3-T5-2	7.98	7.80						
B3-T6-1	11.45	11.15						
B3-T6-2	12.34	12.06						
B3-UIC								

Flash Flow
6.2

B-3 Transfer System Monitoring

Flow meters readings			Pressure Readings				Notes
Meter	Data / Time	Rate (gravity fed) Rate (pump fed) (GPM)	Cumulative Total (gal)	P-1	P-2	P-3	P-4
T-1		/					
T-2		/					
T-3		/					
T-4		/					
T-5		/					
T-6		/					
B-3 (Mon)	8.27.07 / 0955	7.15 / 32.28	519,587	PB-1: 34/50	PB-2: 20/10	= 14 / 40	
B-3 (Tues)	8.28.07 / 0800	16.16 / 134.77	531,836	PB-1: 24	PB-2: 24	= 0	
B-3 (Wed)	8.29.07 / 1045	17.41 / -	547,118	PB-1: -	PB-2: -	=	
B-3 (Thurs)	8.30.07 / 0730	17.51 / -	559,443	PB-1: -	PB-2: -	=	
B-3 (Fri)	8.31.07 / -	- / -	572,016	PB-1: -	PB-2: -	=	

Note: If Bag Filter Pressure Drop is equal to or greater than 20 psi - Change filter

-1430 - pressure change = 40, changed filter 8/27/07

*bioreactor was not run on Friday 8/31

Personnel <i>S. Elliott + K. Cuskey</i>						
Weekly Water Level Monitoring						
Well Interval	Sampling Port Depth (ft. BTCC)	Sample Date	Sample Time	Pressure at TOC (psi)	Pressure in MP (psi)	Zone Pressure (psi)
CS-WB05-LGR-01	99	8/29/07	0843	14.09	14.17	31.69
CS-WB05-LGR-02	182		0842		14.21	69.00
CS-WB05-LGR-03A	216		0841		14.23	83.17
CS-WB05-LGR-03B	262		0840		25.86	103.10
CS-WB05-LGR-04A	277		0839		32.36	109.18
CS-WB05-LGR-04B	329		0838		54.99	131.66
CS-WB05-BS-01	362		0837		69.34	145.86
CS-WB05-CC-01	432		0836		99.73	162.77
CS-WB05-CC-02	460	✓	0834		111.88	174.75
CS-WB06-UGR-01	20	8/29/07	0914	14.12	14.14	17.65
CS-WB06-LGR-01	93		0913		14.17	36.09
CS-WB06-LGR-02	174		0912		14.22	70.93
CS-WB06-LGR-03A	207		0911		14.23	84.66
CS-WB06-LGR-03B	260		0910		24.06	107.54
CS-WB06-LGR-04	320	✓	0909		50.11	131.34
CS-WB07-UGR-01	14	8/29/07	0932	14.12	14.14	17.77
CS-WB07-LGR-01	90		0931		14.17	35.65
CS-WB07-LGR-02	175		0930		14.23	71.88
CS-WB07-LGR-03A	208		0929		14.22	84.70
CS-WB07-LGR-03B	257		0928		17.99	105.92
CS-WB07-LGR-04	318	✓	0927		44.50	130.46
CS-WB08-UGR-01	38	8/29/07	0857	14.11	14.13	19.56
CS-WB08-LGR-01	115		0856		14.16	34.05
CS-WB08-LGR-02	193		0855		14.21	69.19
CS-WB08-LGR-03A	228		0854		14.23	82.00
CS-WB08-LGR-03B	273		0853		21.39	101.82
CS-WB08-LGR-04	341	✓	0852		50.92	131.84

Personnel: S. Elliott

Bioreactor Monitoring
Trench Sumps Water Levels ('BTOC)

Sump ID	Sump Depth (ft BTOC)	Sump Water Level (ft BTOC)	pH	Temp.	SpCond	ORP	DO	Trench Currently Being Used (%)
Date: 9/6/07 Time: 0845								
B3-T1-1	12.9	5.27	6.28	28.44	1.342	-161.0	0.63	
B3-T1-2	12.4	4.94	6.39	27.76	1.123	-169.9	0.38	
B3-T1-3	12.85	4.71	6.51	28.75	1.100	-185.1	0.35	✓
B3-T2-1	9.67	6.71	6.37	30.40	1.635	-176.1	0.48	
B3-T2-2	10.01	6.97	6.45	30.18	3.156	-183.9	0.43	
B3-T3-1	9.96	7.83	6.30	26.48	1.125	-176.3	0.36	
B3-T3-2	7.4	7.84						
B3-T4-1	6.32	6.13						
B3-T5-1	9.33	9.05						
B3-T5-2	7.98	6.71	6.44	27.46	0.911	-130.5	0.39	
B3-T6-1	11.45	11.09						
B3-T6-2	12.34	12.10						
B3-UIC			7.23	23.15	0.621	-49.6	4.52	

Flash Flow

-71.8'
-71.95'
-72.6'
-72.85'

B-3 Transfer System Monitoring

Meter	Flow meters readings		Cumulative Total (gal)	Pressure Readings				Notes
	Data / Time	Rate (gravity fed) Rate (pump fed) (GPM)		P-1	P-2	P-3	P-4	
T-1		/						
T-2		/						
T-3		/						
T-4		/						
T-5		/						
T-6		/						
B-3 (Mon)	9/3/07	/	572,016	PB-1: /	PB-2: /			
B-3 (Tues)	9/4/07	16.81 / 35.36	572,016	PB-1: 25	PB-2: 24			Holiday
B-3 (Wed)	9/5/07	17.30 / 33.86	585,750	PB-1: 25	PB-2: 24			
B-3 (Thurs)	9/6/07	16.10 / 33.55	602,283	PB-1: 25	PB-2: 24			
B-3 (Fri)	9/7/07	16.24 /	616,731	PB-1: /	PB-2: /			

Note: If Bag Filter Pressure Drop is equal to or greater than 20 psi, Change filter.

Bag Filter Pressure Reading
(Pressure Drop (PB-1) - (PB-2) =

Sample Time: 1000

Personnel		S. Elliott & C. Beat				
Weekly Water Level Monitoring						
Well Interval	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	9/6/07	1035	14.05	14.11	31.02
CS-WB05-LGR-02	182		1034		14.16	67.53
CS-WB05-LGR-03A	216		1033		14.18	82.49
CS-WB05-LGR-03B	262		1032		25.77	102.42
CS-WB05-LGR-04A	277		1031		32.30	109.05
CS-WB05-LGR-04B	329		1030		54.91	131.59
CS-WB05-BS-01	362		1029		69.25	145.16
CS-WB05-CC-01	432		1028		99.65	148.57
CS-WB05-CC-02	460		1027		111.80	161.25
CS-WB06-UGR-01	20		9/6/07		1108	14.06
CS-WB06-LGR-01	93	1107	14.11	35.56		
CS-WB06-LGR-02	174	1106	14.17	70.55		
CS-WB06-LGR-03A	207	1105	14.19	83.36		
CS-WB06-LGR-03B	260	1104	24.00	106.24		
CS-WB06-LGR-04	320	1103	50.04	131.43		
CS-WB07-UGR-01	14	9/6/07	1050	14.07	14.08	17.73
CS-WB07-LGR-01	90	1049	14.13		33.70	
CS-WB07-LGR-02	175	1048	14.17		69.65	
CS-WB07-LGR-03A	208	1047	14.18		83.12	
CS-WB07-LGR-03B	257	1046	17.94		104.31	
CS-WB07-LGR-04	318	1045	44.46		130.64	
CS-WB08-UGR-01	38	9/6/07	1126	14.10	14.09	19.76
CS-WB08-LGR-01	115	1125	14.12		33.62	
CS-WB08-LGR-02	193	1124	14.17		67.19	
CS-WB08-LGR-03A	228	1123	14.18		82.10	
CS-WB08-LGR-03B	273	1121	21.34		101.53	
CS-WB08-LGR-04	341	1119	50.87		131.82	

Personnel: *S. Elliott + K. Rice*

Bioreactor Monitoring Trench Sumps Water Levels (BTOC)

Sump ID	Sump Depth (ft. BTOC)	Sump Water Level (ft. BTOC)	pH	Temp.	SpCond	ORP	DO	Trench Currently Being Used (✓)
Date: <i>9/13/07</i> Time: <i>0630</i>								
B3-T1-1	12.9	<i>6.85</i>	<i>6.22</i>	<i>26.22</i>	<i>1.037</i>	<i>-103.0</i>	<i>0.69</i>	✓
B3-T1-2	12.4	<i>6.52</i>	<i>6.30</i>	<i>27.64</i>	<i>1.525</i>	<i>-194.5</i>	<i>0.40</i>	
B3-T1-3	12.85	<i>6.41</i>	<i>6.40</i>	<i>28.25</i>	<i>1.225</i>	<i>-229.8</i>	<i>0.34</i>	
B3-T2-1	9.67	<i>8.25</i>	<i>6.33</i>	<i>29.75</i>	<i>1.614</i>	<i>-167.3</i>	<i>0.52</i>	
B3-T2-2	10.01	<i>8.45</i>	<i>6.39</i>	<i>30.03</i>	<i>3.08</i>	<i>-195.6</i>	<i>0.49</i>	
B3-T3-1	9.96	<i>9.00</i>	<i>6.34</i>	<i>27.13</i>	<i>1.094</i>	<i>-196.3</i>	<i>0.41</i>	
B3-T3-2	7.4	<i>dry</i>						
B3-T4-1	6.32	<i>6.20</i>						
B3-T5-1	9.33	<i>9.08</i>						
B3-T5-2	7.98	<i>7.73</i>						
B3-T6-1	11.45	<i>11.15</i>						
B3-T6-2	12.34	<i>12.05</i>						
B3-UIC			<i>7.05</i>			<i>-81.9</i>	<i>4.77</i>	

B-3 Transfer System Monitoring

Flow meters readings			Pressure Readings (psi) (PB-1) (PB-2)				Notes
Meter	Data / Time	Rate (gravity fed) Rate (pump fed) (GPM)	Cumulative Total (gal)	P-1	P-2	P-3	P-4
T-1		/					
T-2		/					
T-3		/					
T-4		/					
T-5		/					
T-6		/					
B-3 (Mon)	<i>9.10.07/0740</i>	<i>15.18</i>	<i>620,979</i>	<i>26</i>	<i>22</i>	<i>22</i>	<i>4</i>
B-3 (Tues)	<i>9.11.07/</i>	<i>-</i>	<i>635,840</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
B-3 (Wed)	<i>9.12.07/0800</i>	<i>17.25</i>	<i>635,840</i>	<i>26</i>	<i>23</i>	<i>23</i>	<i>3</i>
B-3 (Thurs)	<i>9.13.07/0830</i>	<i>/</i>	<i>651,670</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
B-3 (Fri)	<i>9.14.07/</i>	<i>/</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>

Bag Filter Pressure Reading (Pressure Drop (PB-1) (PB-2))

Note: If Bag Filter Pressure Drop is equal to or greater than 20 psi, Change filter.

Personnel		S. Elliott & K. Rice				
Weekly Water Level Monitoring						
Well Interval	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	9/13/07 ↓	1019	14.09	14.17	31.05
CS-WB05-LGR-02	182		1018		14.20	67.35
CS-WB05-LGR-03A	216		1017		14.23	81.67
CS-WB05-LGR-03B	262		1016		25.78	101.59
CS-WB05-LGR-04A	277		1015		32.31	107.81
CS-WB05-LGR-04B	329		1014		54.91	130.28
CS-WB05-BS-01	362		1013		69.28	144.48
CS-WB05-CC-01	432		1012		99.67	151.52
CS-WB05-CC-02	460		1011		111.82	164.24
CS-WB06-UGR-01	20	9/13/07	0948	14.09	14.13	17.36
CS-WB06-LGR-01	93	 ↓	0947		14.16	33.98
CS-WB06-LGR-02	174		0946		14.26	68.86
CS-WB06-LGR-03A	207		0945		14.21	82.68
CS-WB06-LGR-03B	260		0944		24.01	105.57
CS-WB06-LGR-04	320		0943		50.05	129.89
CS-WB07-UGR-01	14	9/13/07	0934	14.04	14.12	17.21
CS-WB07-LGR-01	90	 ↓	0933		14.16	16.12
CS-WB07-LGR-02	175		0932		14.20	69.52
CS-WB07-LGR-03A	208		0931		14.21	82.63
CS-WB07-LGR-03B	257		0930		17.96	103.83
CS-WB07-LGR-04	318		0928		44.46	129.03
CS-WB08-UGR-01	38	9/13/07	1002	14.08	14.13	19.37
CS-WB08-LGR-01	115	 ↓	1001		14.18	33.89
CS-WB08-LGR-02	193		1000		14.21	67.34
CS-WB08-LGR-03A	228		0959		14.23	81.08
CS-WB08-LGR-03B	273		0957		21.36	100.52
CS-WB08-LGR-04	341		0956		50.89	130.48

Personnel: <i>Ken Rice / Adrian Lindley / Eric Tompason / Kyle Castroly</i>						
Weekly Water Level Monitoring						
Well Interval	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	9-21-07		14.06	14.12	30.09
CS-WB05-LGR-02	182	1			14.16	65.50
CS-WB05-LGR-03A	216	9-21-07	1006		14.18	79.52
CS-WB05-LGR-03B	262	9/18/07	1430		27.73	100.13
CS-WB05-LGR-04A	277	9-21-07	1002		33.11	105.65
CS-WB05-LGR-04B	329	1	0948		55.75	128.12
CS-WB05-BS-01	362	1	0944		70.10	142.56
CS-WB05-CC-01	432	1	0935		100.52	156.10
CS-WB05-CC-02	460	9-21-07	0920		112.70	170.17
CS-WB06-UGR-01	20	1	1450	14.09	14.06	17.08
CS-WB06-LGR-01	93	9/18/07	1440		14.11	31.36
CS-WB06-LGR-02	174	1	1430		14.16	66.29
CS-WB06-LGR-03A	207	1	1415		14.18	80.66
CS-WB06-LGR-03B	260	9/18/07	1100		109.29 ^{34.89}	67.08 (57) 103.56
CS-WB06-LGR-04	320	1	1400		50.94	127.84
CS-WB07-UGR-01	14	1	1335	14.09	14.09	16.87
CS-WB07-LGR-01	90	1	1325		14.13	32.36
CS-WB07-LGR-02	175	1	1315		14.18	67.38
CS-WB07-LGR-03A	208	9-20	1310		14.19	80.63
CS-WB07-LGR-03B	257	9/18/07	0945		102.34 ^{18.82}	66.17 (57) 101.83
CS-WB07-LGR-04	318	9-20-07	1250		45.31	126.98
CS-WB08-UGR-01	38	1	1605	14.09	14.06	19.08
CS-WB08-LGR-01	115	9/18/07	1555		14.09	33.16
CS-WB08-LGR-02	193	1	1545		14.14	65.56
CS-WB08-LGR-03A	228	1	1535		14.17	79.27
CS-WB08-LGR-03B	273	9/18/07	1330		22.7 ^{79.14}	99.14 (57)
CS-WB08-LGR-04	341	1	1523		51.76	128.48

Personnel *Ken Rice (AL/ET) KRC*

Monthly Monitoring									
MPMWs	Sample Date	Sample Time	pH	Temp	SpCond	ORP	DO	Regulatory (Y)	Performance (N)
CS-WB05-LGR-01	9-21-07	1045	6.86	22.45	0.903	-39.7	2.52		✓
CS-WB05-LGR-02	"	1030	6.92	22.60	0.714	-41.2	3.92		✓
CS-WB05-LGR03A	9-21-07	1015	7.00	22.77	.661	-58.0	4.39		✓
CS-WB05-LGR03B	9/18/07	1430	6.96	23.97	0.68	-10.8	5.91		✓
CS-WB05-LGR04A	9-21-07	1007	6.96	22.45	.591	-84.0	4.51		✓
CS-WB05-LGR04B		0958	7.01	22.45	.565	-26.0	6.03		✓
CS-WB05-BS-01		0950	7.13	22.48	.568	-67.7	9.46		✓
CS-WB05-CC-01		0938	7.14	22.65	.621	-76.0	4.22		✓
CS-WB05-CC-02	9-21-07	0928	7.46	22.73	0.631	-88.0	4.73		✓
CS-WB06-UGR-01	9/20	1450	6.84	24.30	.651	-6.5	4.10		✓
CS-WB06-LGR-01	9/20	1440	6.93	23.96	.662	-14.2	4.28		✓
CS-WB06-LGR-02	9/20	1430	6.96	23.68	.617	-20.6	4.89		✓
CS-WB06-LGR03A	9/20	1415	6.89	22.57	.586	-21.3	5.49		✓
CS-WB06-LGR03B	9/18/07	1100	7.14	23.69	6.605	-4.9	6.23		✓
CS-WB06-LGR-04		1400	7.14	23.20	.587	-19.5	5.00		✓
CS-WB07-UGR-01	9/20	1335	6.65	23.86	0.960	-103.7	2.73		✓
CS-WB07-LGR-01	9/20	1325	7.00	23.15	.769	-14.2	5.03		✓
CS-WB07-LGR-02	9/20	1315	7.03	22.99	.642	-35.7	5.37		✓
CS-WB07-LGR03A	9/20	1310	6.92	22.64	.575	-39.1	5.44		✓
CS-WB07-LGR03B	9/18/07	0930	7.28	22.80	0.582	-47.0	5.98		✓
CS-WB07-LGR-04	9-20	1250	7.64	23.64	0.577	-12.2	5.32		✓
CS-WB08-UGR-01	9/20	1605	6.83	24.41	.604	-11.8	2.87		✓
CS-WB08-LGR-01	9/20	1555	6.94	23.95	.793	-34.2	3.49		✓
CS-WB08-LGR-02	9/20	1545	6.91	23.53	.848	-28.8	4.10		✓
CS-WB08-LGR03A	9/20	1535	6.95	23.57	.609	-4.1	6.80		✓
CS-WB08-LGR03B	9/18/07	1330	6.90	24.26	0.623	3.7	5.40		✓
CS-WB08-LGR-04	9/20	1523	7.50	23.64	.653	-4.0	5.31		✓

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. 4.95

Performance list of analyses Volume Required: 1.5 L	Regulatory list of analyses Volume Required: 0.5 L
VOCs (Volatile Organic Compounds)	VOCs (Volatile Organic Compounds)
DOC (Dissolved Organic Carbon)	TDS (Total Dissolved Solids)
TOC (Total Organic Carbon)	Notes
Methane, Ethane, Ethene	
Carbon Dioxide	
Hydrogen Sulfide	
Alkalinity	
Nitrogen, Nitrate + Nitrite	
Sulfate, Chloride, Ferrous Iron, Manganese	
Hydrogen (after bioreactor operational for 1 year)	

week 21

Month 4

Personnel: *Key Rice / Adrian Lindley* Week *9/17/2007* - *9/21/2007*

Bioreactor Monitoring Trench Sumps Water Levels (BTOC)

Sump ID	Sump Depth (ft. BTOC)	Sump Water Level (ft. BTOC)	pH	Temp	SpCond	ORP	DO	Trench Currently Being Used (Y)
Date: <i>9/17/07</i> Time: <i>1225</i>								
B3-T1-1	12.9	8.29	6.02	26.44	1.120	-154.1	0.47	✓
B3-T1-2	12.4	7.92	6.20	27.42	0.972	-143.9	0.37	
B3-T1-3	12.85	7.71	6.27	28.62	1.016	-156.4	0.30	
B3-T2-1	9.67	8.99	6.39	29.72	1.606	-155.0	0.33	
B3-T2-2	10.01	8.95	6.34	30.18	2.900	-166.3	0.31	
B3-T3-1	9.96	9.12	6.48	27.49	1.057	-147.3	0.45	
B3-T3-2	7.4	7.4						
B3-T4-1	6.32	6.2						
B3-T5-1	9.33	9.08						
B3-T5-2	7.98	7.75						
B3-T6-1	11.45	11.16						
B3-T6-2	12.34	12.10						
B3-UIC			<i>7.53</i>	<i>22.71</i>	<i>0.64</i>	<i>-145.7</i>	<i>0.21</i>	

B-3 Transfer System Monitoring

Flow meters readings			Pressure Readings				Notes
Meter	Date / Time	Rate (gravity fed) / Rate (pump fed) (GPM)	Cumulative Total (gal)	P-1	P-2	P-3	
T-1	9/17/1430	34.33	672.41				
T-2		/					
T-3		/					
T-4		/					
T-5		/					
T-6		/					
B-3 (Mon)		/					
B-3 (Tues)	9/18/1330	41.25					
B-3 (Wed)	9/19/07/0750	15.31/34.58	685,904				
B-3 (Thurs)	9-20-07	17.01	709,846				
B-3 (Fri)	9-21-07	/					

Bag Filter Pressure Reading (Pressure Drop (PB-1) - (PB-2)) =

PB-1: *29* PB-2: *27* = *2*
 PB-1: *37* PB-2: *37* = *0* *
 PB-1: *23* PB-2: *23* = *0*
 PB-1: *20* PB-2: *20* = *0* *
 PB-1: PB-2: =

Note: If Bag Filter Pressure Drop is equal to or greater than 20 psi, Change filter.

* Changed filter 40/20

* Gravity feed

6671043

Personnel: Kyle Caskey / S. Elliott
9-26-07 Bioreactor Monitoring
 Trench Sumps Water Levels ('BTOC')

Sump ID	Sump Depth (ft. BTOC)	Sump Water Level (ft. BTOC)	pH	Temp	Sp Cond	ORP	DO	Trench Currently Being Used (✓)
Date: <u>9/26/07</u> Time:								
B3-T1-1	12.9	9.35	6.46	25.85	1.069	-166.6	0.86	✓
B3-T1-2	12.4	9.02	6.30	26.63	1.329	-178.4	0.56	
B3-T1-3	12.85	8.72	6.38	27.45	1.113	-171.6	0.41	
B3-T2-1	9.67	9.16						
B3-T2-2	10.01	9.22	6.27	30.45	2.788	-195.3	0.56	
B3-T3-1	9.96	9.16						
B3-T3-2	7.4	DRY						
B3-T4-1	6.32	6.23						
B3-T5-1	9.33							
B3-T5-2	7.98							
B3-T6-1	11.45							
B3-T6-2	12.34							
B3-UIC								

B-3 Transfer System Monitoring

Meter	Flow meters readings			Pressure Readings				Notes
	Data / Time	Rate (gravity fed) Rate (pump fed) (GPM)	Cumulative Total (gal)	P-1	P-2	P-3	P-4	
T-1		/						Gravity feed bioreactor
T-2		/						
T-3		/						
T-4		/						
T-5		/						
T-6		/						
B-3 (Mon)	9-24-07/1045	10.98 10.48	718, 388					Note: If Bag Filter Pressure Drop is equal to or greater than 20 psi, Change filter.
B-3 (Tues)	9-25-07/0830	--	726, 365					
B-3 (Wed)	9-26-07/-	--	--					
B-3 (Thurs)	9-27-07/0800	--	735, 208					
B-3 (Fri)	9-28-07/0736	--	748, 047					

Went 22

Personnel <u>Kyle Caskey 9-26-07</u>						
Weekly Water Level Monitoring						
Well Interval	Sampling Port Depth (ft BIOC)	Sample Date	Sample Time	Pressure at TOC (psi)	Pressure in MP (psi)	Zone Pressure (psi)
CS-WB05-LGR-01	99	↑	1010		19.18	29.32
CS-WB05-LGR-02	182		1008		14.21	63.92
CS-WB05-LGR-03A	216		1007		14.24	77.68
CS-WB05-LGR-03B	262		1005		25.60	97.59
CS-WB05-LGR-04A	277		1002		32.11	103.67
CS-WB05-LGR-04B	329		1000		54.74	126.11
CS-WB05-BS-01	362		0957		69.08	140.89
CS-WB05-CC-01	432		0954		99.47	159.71
CS-WB05-CC-02	460		0950		116.61	171.72
CS-WB06-UGR-01	20	↓	1045		14.16	16.66
CS-WB06-LGR-01	93		1043		14.18	29.02
CS-WB06-LGR-02	174		1041		14.22	63.64
CS-WB06-LGR-03A	207		1039		14.23	78.59
CS-WB06-LGR-03B	260		1037		23.94	101.47
CS-WB06-LGR-04	320		1035		49.99	125.47
CS-WB07-UGR-01	14		↓	1024		14.15
CS-WB07-LGR-01	90	1022			14.19	31.10
CS-WB07-LGR-02	175	1020			14.23	65.51
CS-WB07-LGR-03A	208	1018			14.24	78.59
CS-WB07-LGR-03B	257	1017			17.87	99.78
CS-WB07-LGR-04	318	1015			44.37	124.61
CS-WB08-UGR-01	38	↓		1102		14.16
CS-WB08-LGR-01	115		1059		14.19	32.65
CS-WB08-LGR-02	193		1057		14.20	63.87
CS-WB08-LGR-03A	228		1055		14.23	77.15
CS-WB08-LGR-03B	273		1052		21.28	96.58
CS-WB08-LGR-04	341		1050		50.81	126.14



Case Narrative

ARF: 54307

Project: 744223.11000 CSSA TO6 -#90

State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

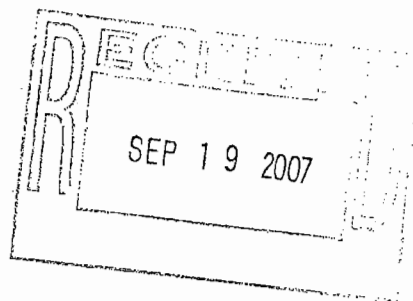
Results in this report apply to the sample analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The sample group was received September 7, 2007, at 3.0°C. The samples were assigned Analytical Request Form (ARF) number 54307. The sample number and requested analyses were compared to the chains of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
B3-UIC	AX67177	WATER	09/06/07	09/07/07



Volatile Organic Compounds

EPA Method 8260B

Sample Preparation:

The sample was purged according to EPA method 5030B. All holding times were met.

Sample Analysis Information:

The sample was analyzed according to EPA method 8260B using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector. All holding times were met.

Quality Control/Assurance

Spike Recovery

Laboratory Control Spikes (LCS/LCSD) were used for quality assurance. A second-source standard was used for the LCSs. Five RPDs exceeded the 20% limit in the 070911AS LCS/LCSD. All spike recoveries were within the acceptance limits.

No sample was designated by the client for an MS/MSD analysis.

Surrogates

All surrogate recoveries met acceptance criteria.

Method blanks

No target analyte was detected above the reporting limit.

Calibration

Initial and continuing calibrations were analyzed according to the method. All calibration criteria were met.

Tuning:

The instrument was tuned using BFB. All method criteria were met.

Internal Standards

The internal standard area counts were compared to the mid-point of the initial calibration according to method 8260. All acceptance criteria were met.

Summary:

No other analytical exception is noted. All data are acceptable.

Total Dissolved Solids

EPA Method 160.1

Sample Preparation and Analysis Information:

The sample was prepared and analyzed according to the methods All holding times were met.

Quality Control/Assurance

Blanks:

No target analyte was detected above one-half the PQL.

Spikes:

Laboratory Control Spikes (LCS/LCSD) and matrix spike were used for quality assurance. All recoveries were within acceptance limits.

Summary:

No analytical exception is noted.

CERTIFICATION

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



9/17/07

Leonard Fong, Ph.D, Laboratory Director / Date

EPA 8260B - AFCEE 3.0 (Water)

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744223.11000 CSSA TO6

ARF: 54307

Sample ID: B3-UIC

APPL ID: AX67177

Sample Collection Date: 09/06/07

QCG: \$826AW-070911AS-11595

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-Tetrachloroethane	Not detected	0.5	0.13	ug/L	09/12/07	09/12/07
EPA 8260B	1,1,1-TCA	Not detected	0.8	0.14	ug/L	09/12/07	09/12/07
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	0.4	0.10	ug/L	09/12/07	09/12/07
EPA 8260B	1,1,2-TCA	Not detected	1.0	0.20	ug/L	09/12/07	09/12/07
EPA 8260B	1,1-DCA	Not detected	0.4	0.19	ug/L	09/12/07	09/12/07
EPA 8260B	1,1-DCE	0.37 J	1.2	0.30	ug/L	09/12/07	09/12/07
EPA 8260B	1,1-Dichloropropene	Not detected	1.0	0.20	ug/L	09/12/07	09/12/07
EPA 8260B	1,2,3-Trichlorobenzene	Not detected	0.3	0.29	ug/L	09/12/07	09/12/07
EPA 8260B	1,2,3-Trichloropropane	Not detected	3.2	0.39	ug/L	09/12/07	09/12/07
EPA 8260B	1,2,4-Trichlorobenzene	Not detected	0.4	0.21	ug/L	09/12/07	09/12/07
EPA 8260B	1,2,4-Trimethylbenzene	Not detected	1.3	0.19	ug/L	09/12/07	09/12/07
EPA 8260B	1,2-DCA	Not detected	0.6	0.14	ug/L	09/12/07	09/12/07
EPA 8260B	1,2-DCB	Not detected	0.3	0.17	ug/L	09/12/07	09/12/07
EPA 8260B	1,2-Dibromo-3-chloropropane	Not detected	2.6	0.76	ug/L	09/12/07	09/12/07
EPA 8260B	1,2-Dichloropropane	Not detected	0.4	0.17	ug/L	09/12/07	09/12/07
EPA 8260B	1,2-EDB	Not detected	0.6	0.20	ug/L	09/12/07	09/12/07
EPA 8260B	1,3,5-Trimethylbenzene	Not detected	0.5	0.12	ug/L	09/12/07	09/12/07
EPA 8260B	1,3-DCB	Not detected	1.2	0.11	ug/L	09/12/07	09/12/07
EPA 8260B	1,3-Dichloropropane	Not detected	0.4	0.17	ug/L	09/12/07	09/12/07
EPA 8260B	1,4-DCB	Not detected	0.3	0.19	ug/L	09/12/07	09/12/07
EPA 8260B	1-Chlorohexane	Not detected	0.5	0.17	ug/L	09/12/07	09/12/07
EPA 8260B	2,2-Dichloropropane	Not detected	3.5	0.22	ug/L	09/12/07	09/12/07
EPA 8260B	2-Chlorotoluene	Not detected	0.4	0.14	ug/L	09/12/07	09/12/07
EPA 8260B	4-Chlorotoluene	Not detected	0.6	0.13	ug/L	09/12/07	09/12/07
EPA 8260B	Benzene	Not detected	0.4	0.16	ug/L	09/12/07	09/12/07
EPA 8260B	Bromobenzene	Not detected	0.3	0.16	ug/L	09/12/07	09/12/07
EPA 8260B	Bromochloromethane	Not detected	0.4	0.15	ug/L	09/12/07	09/12/07
EPA 8260B	Bromodichloromethane	Not detected	0.8	0.14	ug/L	09/12/07	09/12/07
EPA 8260B	Bromoform	Not detected	1.2	0.14	ug/L	09/12/07	09/12/07
EPA 8260B	Bromomethane	Not detected	1.1	0.24	ug/L	09/12/07	09/12/07
EPA 8260B	Carbon tetrachloride	Not detected	2.1	0.10	ug/L	09/12/07	09/12/07
EPA 8260B	Chlorobenzene	Not detected	0.4	0.21	ug/L	09/12/07	09/12/07
EPA 8260B	Chloroethane	Not detected	1.0	0.21	ug/L	09/12/07	09/12/07
EPA 8260B	Chloroform	Not detected	0.3	0.07	ug/L	09/12/07	09/12/07
EPA 8260B	Chloromethane	Not detected	1.3	0.31	ug/L	09/12/07	09/12/07
EPA 8260B	Cis-1,2-DCE	67 E	1.2	0.16	ug/L	09/12/07	09/12/07
EPA 8260B	Cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	09/12/07	09/12/07

J = Estimated value.

E = The reported value exceeds linear range.

Quant Method: S826AW.M
Run #: 0911S28
Instrument: Sweetpea
Sequence: S070911
Dilution Factor: 1
Initials: GM

Printed: 09/13/07 3:26:30 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744223.11000 CSSA TO6

ARF: 54307

Sample ID: B3-UIC

APPL ID: AX67177

Sample Collection Date: 09/06/07

QCG: \$826AW-070911AS-11595

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	Dibromochloromethane	Not detected	0.5	0.19	ug/L	09/12/07	09/12/07
EPA 8260B	Dibromomethane	Not detected	2.4	0.20	ug/L	09/12/07	09/12/07
EPA 8260B	Dichlorodifluoromethane	Not detected	1.0	0.19	ug/L	09/12/07	09/12/07
EPA 8260B	Ethylbenzene	Not detected	0.6	0.23	ug/L	09/12/07	09/12/07
EPA 8260B	Hexachlorobutadiene	Not detected	1.1	0.19	ug/L	09/12/07	09/12/07
EPA 8260B	Isopropylbenzene	Not detected	0.5	0.16	ug/L	09/12/07	09/12/07
EPA 8260B	m&p-Xylene	Not detected	0.5	0.40	ug/L	09/12/07	09/12/07
EPA 8260B	Methylene chloride	Not detected	1.0	0.35	ug/L	09/12/07	09/12/07
EPA 8260B	n-Butylbenzene	Not detected	1.1	0.15	ug/L	09/12/07	09/12/07
EPA 8260B	n-Propylbenzene	Not detected	0.4	0.21	ug/L	09/12/07	09/12/07
EPA 8260B	Naphthalene	Not detected	0.4	0.36	ug/L	09/12/07	09/12/07
EPA 8260B	o-Xylene	Not detected	1.1	0.19	ug/L	09/12/07	09/12/07
EPA 8260B	p-Isopropyltoluene	Not detected	1.2	0.12	ug/L	09/12/07	09/12/07
EPA 8260B	Sec-Butylbenzene	Not detected	1.3	0.12	ug/L	09/12/07	09/12/07
EPA 8260B	Styrene	Not detected	0.4	0.25	ug/L	09/12/07	09/12/07
EPA 8260B	TCE	77 E	1.0	0.16	ug/L	09/12/07	09/12/07
EPA 8260B	Tert-Butylbenzene	Not detected	1.4	0.13	ug/L	09/12/07	09/12/07
EPA 8260B	Tetrachloroethene	21	1.4	0.15	ug/L	09/12/07	09/12/07
EPA 8260B	Toluene	Not detected	1.1	0.17	ug/L	09/12/07	09/12/07
EPA 8260B	Trans-1,2-DCE	2.2	0.6	0.19	ug/L	09/12/07	09/12/07
EPA 8260B	Trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	09/12/07	09/12/07
EPA 8260B	Trichlorofluoromethane	Not detected	0.8	0.24	ug/L	09/12/07	09/12/07
EPA 8260B	Vinyl chloride	Not detected	1.1	0.23	ug/L	09/12/07	09/12/07
EPA 8260B	Surrogate recovery: 1,2-DCA-D4	108	69-139		%	09/12/07	09/12/07
EPA 8260B	Surrogate recovery: 4-Bromofluorobenz	89.4	75-125		%	09/12/07	09/12/07
EPA 8260B	Surrogate recovery: Dibromofluorometh	95.6	75-125		%	09/12/07	09/12/07
EPA 8260B	Surrogate recovery: Toluene-D8	102	75-125		%	09/12/07	09/12/07

J = Estimated value.

E = The reported value exceeds linear range.

Quant Method: S826AW.M
Run #: 0911S28
Instrument: Sweetpea
Sequence: S070911
Dilution Factor: 1
Initials: GM

Printed: 09/13/07 3:26:30 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744223.11000 CSSA TO6

Sample ID: B3-UIC

Sample Collection Date: 09/06/07

ARF: 54307

APPL ID: AX67177

QCG: \$826AW-070911AN-11595

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	Cis-1,2-DCE	65	1.2	0.16	ug/L	09/12/07	09/12/07
EPA 8260B	TCE	70	1.0	0.16	ug/L	09/12/07	09/12/07
EPA 8260B	Surrogate recovery: 1,2-DCA-D4	89.7	69-139		%	09/12/07	09/12/07
EPA 8260B	Surrogate recovery: 4-Bromofluorobenz	83.9	75-125		%	09/12/07	09/12/07
EPA 8260B	Surrogate recovery: Dibromofluorometh	89.5	75-125		%	09/12/07	09/12/07
EPA 8260B	Surrogate recovery: Toluene-D8	94.4	75-125		%	09/12/07	09/12/07

Quant Method: NMS10.M
Run #: 0911N29
Instrument: Neo
Sequence: N070911
Dilution Factor: 1
Initials: GM

Printed: 09/13/07 3:26:31 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

Wetlab Results

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

ARF: 54307

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AX67177 -Client Sample ID: B3-UIC -Sample Collection Date: 9/6/2007 Project: 744223.11000 CSSA TO						
EPA 160.1	Total Dissolved Solids EPA	382	10	mg/L	9/11/2007	9/11/2007

Method Blank
EPA 8260B - AFCEE 3.0 (Water)

Blank Name/QCG: 070912W-67177 - 115952
Batch ID: \$826AW-070911AS

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-Tetrachloroethane	Not detected	0.5	0.13	ug/L	09/12/07	09/12/07
BLANK	1,1,1-TCA	Not detected	0.8	0.14	ug/L	09/12/07	09/12/07
BLANK	1,1,2,2-Tetrachloroethane	Not detected	0.4	0.10	ug/L	09/12/07	09/12/07
BLANK	1,1,2-TCA	Not detected	1.0	0.20	ug/L	09/12/07	09/12/07
BLANK	1,1-DCA	Not detected	0.4	0.19	ug/L	09/12/07	09/12/07
BLANK	1,1-DCE	Not detected	1.2	0.30	ug/L	09/12/07	09/12/07
BLANK	1,1-Dichloropropene	Not detected	1.0	0.20	ug/L	09/12/07	09/12/07
BLANK	1,2,3-Trichlorobenzene	Not detected	0.3	0.29	ug/L	09/12/07	09/12/07
BLANK	1,2,3-Trichloropropane	Not detected	3.2	0.39	ug/L	09/12/07	09/12/07
BLANK	1,2,4-Trichlorobenzene	Not detected	0.4	0.21	ug/L	09/12/07	09/12/07
BLANK	1,2,4-Trimethylbenzene	Not detected	1.3	0.19	ug/L	09/12/07	09/12/07
BLANK	1,2-DCA	Not detected	0.6	0.14	ug/L	09/12/07	09/12/07
BLANK	1,2-DCB	Not detected	0.3	0.17	ug/L	09/12/07	09/12/07
BLANK	1,2-Dibromo-3-chloropropane	Not detected	2.6	0.76	ug/L	09/12/07	09/12/07
BLANK	1,2-Dichloropropane	Not detected	0.4	0.17	ug/L	09/12/07	09/12/07
BLANK	1,2-EDB	Not detected	0.6	0.20	ug/L	09/12/07	09/12/07
BLANK	1,3,5-Trimethylbenzene	Not detected	0.5	0.12	ug/L	09/12/07	09/12/07
BLANK	1,3-DCB	Not detected	1.2	0.11	ug/L	09/12/07	09/12/07
BLANK	1,3-Dichloropropane	Not detected	0.4	0.17	ug/L	09/12/07	09/12/07
BLANK	1,4-DCB	Not detected	0.3	0.19	ug/L	09/12/07	09/12/07
BLANK	1-Chlorohexane	Not detected	0.5	0.17	ug/L	09/12/07	09/12/07
BLANK	2,2-Dichloropropane	Not detected	3.5	0.22	ug/L	09/12/07	09/12/07
BLANK	2-Chlorotoluene	Not detected	0.4	0.14	ug/L	09/12/07	09/12/07
BLANK	4-Chlorotoluene	Not detected	0.6	0.13	ug/L	09/12/07	09/12/07
BLANK	Benzene	Not detected	0.4	0.16	ug/L	09/12/07	09/12/07
BLANK	Bromobenzene	Not detected	0.3	0.16	ug/L	09/12/07	09/12/07
BLANK	Bromochloromethane	Not detected	0.4	0.15	ug/L	09/12/07	09/12/07
BLANK	Bromodichloromethane	Not detected	0.8	0.14	ug/L	09/12/07	09/12/07
BLANK	Bromoform	Not detected	1.2	0.14	ug/L	09/12/07	09/12/07
BLANK	Bromomethane	Not detected	1.1	0.24	ug/L	09/12/07	09/12/07
BLANK	Carbon tetrachloride	Not detected	2.1	0.10	ug/L	09/12/07	09/12/07
BLANK	Chlorobenzene	Not detected	0.4	0.21	ug/L	09/12/07	09/12/07
BLANK	Chloroethane	Not detected	1.0	0.21	ug/L	09/12/07	09/12/07
BLANK	Chloroform	Not detected	0.3	0.07	ug/L	09/12/07	09/12/07

Quant Method: S826AW.M
Run #: 0911S20
Instrument: Sweetpea
Sequence: S070911
Initials: GM

GC SC-Blank-REG MDLs
Printed: 09/13/07 3:26:29 PM

Method Blank
EPA 8260B - AFCEE 3.0 (Water)

Blank Name/QCG: 070912W-67177 - 115952
 Batch ID: \$826AW-070911AS

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	Chloromethane	Not detected	1.3	0.31	ug/L	09/12/07	09/12/07
BLANK	Cis-1,2-DCE	Not detected	1.2	0.16	ug/L	09/12/07	09/12/07
BLANK	Cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	09/12/07	09/12/07
BLANK	Dibromochloromethane	Not detected	0.5	0.19	ug/L	09/12/07	09/12/07
BLANK	Dibromomethane	Not detected	2.4	0.20	ug/L	09/12/07	09/12/07
BLANK	Dichlorodifluoromethane	Not detected	1.0	0.19	ug/L	09/12/07	09/12/07
BLANK	Ethylbenzene	Not detected	0.6	0.23	ug/L	09/12/07	09/12/07
BLANK	Hexachlorobutadiene	Not detected	1.1	0.19	ug/L	09/12/07	09/12/07
BLANK	Isopropylbenzene	Not detected	0.5	0.16	ug/L	09/12/07	09/12/07
BLANK	m&p-Xylene	Not detected	0.5	0.40	ug/L	09/12/07	09/12/07
BLANK	Methylene chloride	Not detected	1.0	0.35	ug/L	09/12/07	09/12/07
BLANK	n-Butylbenzene	Not detected	1.1	0.15	ug/L	09/12/07	09/12/07
BLANK	n-Propylbenzene	Not detected	0.4	0.21	ug/L	09/12/07	09/12/07
BLANK	Naphthalene	Not detected	0.4	0.36	ug/L	09/12/07	09/12/07
BLANK	o-Xylene	Not detected	1.1	0.19	ug/L	09/12/07	09/12/07
BLANK	p-Isopropyltoluene	Not detected	1.2	0.12	ug/L	09/12/07	09/12/07
BLANK	Sec-Butylbenzene	Not detected	1.3	0.12	ug/L	09/12/07	09/12/07
BLANK	Styrene	Not detected	0.4	0.25	ug/L	09/12/07	09/12/07
BLANK	TCE	Not detected	1.0	0.16	ug/L	09/12/07	09/12/07
BLANK	Tert-Butylbenzene	Not detected	1.4	0.13	ug/L	09/12/07	09/12/07
BLANK	Tetrachloroethene	Not detected	1.4	0.15	ug/L	09/12/07	09/12/07
BLANK	Toluene	Not detected	1.1	0.17	ug/L	09/12/07	09/12/07
BLANK	Trans-1,2-DCE	Not detected	0.6	0.19	ug/L	09/12/07	09/12/07
BLANK	Trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	09/12/07	09/12/07
BLANK	Trichlorofluoromethane	Not detected	0.8	0.24	ug/L	09/12/07	09/12/07
BLANK	Vinyl chloride	Not detected	1.1	0.23	ug/L	09/12/07	09/12/07
BLANK	Surrogate recovery: 1,2-DCA-D4	98.8	69-139		%	09/12/07	09/12/07
BLANK	Surrogate recovery: 4-Bromofluorobenz	90.2	75-125		%	09/12/07	09/12/07
BLANK	Surrogate recovery: Dibromofluorometh	92.9	75-125		%	09/12/07	09/12/07
BLANK	Surrogate recovery: Toluene-D8	102	75-125		%	09/12/07	09/12/07

Quant Method: S826AW.M
 Run #: 0911S20
 Instrument: Sweetpea
 Sequence: S070911
 Initials: GM

GC SC-Blank-REG MDLs
 Printed: 09/13/07 3:26:29 PM

Method Blank
EPA 8260B - AFCEE 3.0 (Water)

Blank Name/QCG: 070912W-67177 - 115953
Batch ID: \$826AW-070911AN

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	Cis-1,2-DCE	Not detected	1.2	0.16	ug/L	09/12/07	09/12/07
BLANK	TCE	Not detected	1.0	0.16	ug/L	09/12/07	09/12/07
BLANK	Surrogate recovery: 1,2-DCA-D4	92.9	69-139		%	09/12/07	09/12/07
BLANK	Surrogate recovery: 4-Bromofluorobenz	94.4	75-125		%	09/12/07	09/12/07
BLANK	Surrogate recovery: Dibromofluorometh	94.8	75-125		%	09/12/07	09/12/07
BLANK	Surrogate recovery: Toluene-D8	100	75-125		%	09/12/07	09/12/07

Quant Method: NMS10.M
Run #: 0911N19
Instrument: Neo
Sequence: N070911
Initials: GM

GC SC-Blank-REG MDLs
Printed: 09/13/07 3:26:29 PM

Laboratory Control Spike Recoveries
EPA 8260B - AFCEE 3.0 (Water)

APPL ID: 070911W-67177 LCS - 115952
 Batch ID: S826AW-070911AS

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,1,1,2-Tetrachloroethane	10.00	9.51	8.29	95.1	82.9	72-125	13.7	20
1,1,1-TCA	10.00	9.98	9.22	99.8	92.2	75-125	7.9	20
1,1,2,2-Tetrachloroethane	10.00	9.91	9.99	99.1	99.9	74-125	0.80	20
1,1,2-TCA	10.00	9.70	9.40	97.0	94.0	75-127	3.1	20
1,1-DCA	10.00	9.93	8.72	99.3	87.2	75-125	13.0	20
1,1-DCE	10.00	9.71	8.74	97.1	87.4	75-125	10.5	20
1,1-Dichloropropene	10.00	9.68	8.25	96.8	82.5	75-125	16.0	20
1,2,3-Trichlorobenzene	10.00	9.44	8.03	94.4	80.3	75-137	16.1	20
1,2,3-Trichloropropane	10.00	10.2	10.6	102	106	75-125	3.8	20
1,2,4-Trichlorobenzene	10.00	11.3	9.04	113	90.4	75-135	22.2 #	20
1,2,4-Trimethylbenzene	10.00	10.4	9.98	104	99.8	75-125	4.1	20
1,2-DCA	10.00	10.0	9.17	100	91.7	68-127	8.7	20
1,2-DCB	10.00	12.1	9.50	121	95.0	75-125	24.1 #	20
1,2-Dibromo-3-chloropropane	10.00	11.4	9.20	114	92.0	59-125	21.4 #	20
1,2-Dichloropropane	10.00	9.70	8.41	97.0	84.1	70-125	14.2	20
1,2-EDB	10.00	10.5	9.51	105	95.1	75-125	9.9	20
1,3,5-Trimethylbenzene	10.00	10.8	10.2	108	102	72-112	5.7	20
1,3-DCB	10.00	9.62	9.51	96.2	95.1	75-125	1.2	20
1,3-Dichloropropane	10.00	10.2	8.92	102	89.2	75-125	13.4	20
1,4-DCB	10.00	9.60	9.21	96.0	92.1	75-125	4.1	20
1-Chlorohexane	10.00	10.2	8.67	102	86.7	75-125	16.2	20
2,2-Dichloropropane	10.00	9.13	7.67	91.3	76.7	75-125	17.4	20
2-Chlorotoluene	10.00	10.4	10.4	104	104	73-125	0.0	20
4-Chlorotoluene	10.00	10.3	9.81	103	98.1	74-125	4.9	20

= Recovery is outside QC limits.

Comments:

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	S826AW.M	S826AW.M
Extraction Date :	09/11/07	09/12/07
Analysis Date :	09/11/07	09/12/07
Instrument :	Sweetpea	Sweetpea
Run :	0911S16	0911S17
Initials :	GM	

Printed: 09/13/07 3:50:27 PM
 APPL Standard LCSD

Laboratory Control Spike Recoveries

EPA 8260B - AFCEE 3.0 (Water)

APPL ID: 070911W-67177 LCS - 115952
 Batch ID: \$826AW-070911AS

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
Benzene	10.00	8.96	8.12	89.6	81.2	75-125	9.8	20
Bromobenzene	10.00	9.93	9.65	99.3	96.5	75-125	2.9	20
Bromochloromethane	10.00	9.22	8.73	92.2	87.3	73-125	5.5	20
Bromodichloromethane	10.00	10.2	9.56	102	95.6	75-125	6.5	20
Bromoform	10.00	9.32	8.22	93.2	82.2	75-125	12.5	20
Bromomethane	10.00	12.0	9.08	120	90.8	72-125	27.7 #	20
Carbon tetrachloride	10.00	9.93	9.04	99.3	90.4	62-125	9.4	20
Chlorobenzene	10.00	9.81	8.60	98.1	86.0	75-125	13.1	20
Chloroethane	10.00	9.83	8.34	98.3	83.4	65-125	16.4	20
Chloroform	10.00	9.72	8.79	97.2	87.9	74-125	10.0	20
Chloromethane	10.00	9.55	8.55	95.5	85.5	75-125	11.0	20
Cis-1,2-DCE	10.00	9.44	8.23	94.4	82.3	75-125	13.7	20
Cis-1,3-Dichloropropene	10.00	9.22	8.27	92.2	82.7	74-125	10.9	20
Dibromochloromethane	10.00	10.1	9.06	101	90.6	73-125	10.9	20
Dibromomethane	10.00	10.0	8.83	100	88.3	69-127	12.4	20
Dichlorodifluoromethane	10.00	10.2	9.61	102	96.1	72-125	6.0	20
Ethylbenzene	10.00	10.4	8.89	104	88.9	75-125	15.7	20
Hexachlorobutadiene	10.00	11.3	9.28	113	92.8	75-125	19.6	20
Isopropylbenzene	10.00	10.5	10.1	105	101	75-125	3.9	20
m&p-Xylene	20.0	20.8	18.6	104	93.0	75-125	11.2	20
Methylene chloride	10.00	9.38	8.46	93.8	84.6	75-125	10.3	20
n-Butylbenzene	10.00	9.85	9.42	98.5	94.2	75-125	4.5	20
n-Propylbenzene	10.00	10.1	9.81	101	98.1	75-125	2.9	20
Naphthalene	10.00	11.2	8.66	112	86.6	75-125	25.6 #	20

= Recovery is outside QC limits.

Comments: _____

Primary	SPK	DUP
Quant Method :	S826AW.M	S826AW.M
Extraction Date :	09/11/07	09/12/07
Analysis Date :	09/11/07	09/12/07
Instrument :	Sweetpea	Sweetpea
Run :	0911S16	0911S17
Initials :	GM	

Printed: 09/13/07 3:50:27 PM
 APPL Standard LCSD

Laboratory Control Spike Recoveries
EPA 8260B - AFCEE 3.0 (Water)

APPL ID: 070911W-67177 LCS - 115952

Batch ID: \$826AW-070911AS

APPL Inc.

4203 West Swift Avenue

Fresno, CA 93722

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
o-Xylene	10.00	10.2	8.94	102	89.4	75-125	13.2	20
p-Isopropyltoluene	10.00	9.93	9.53	99.3	95.3	75-125	4.1	20
Sec-Butylbenzene	10.00	9.71	9.74	97.1	97.4	75-125	0.31	20
Styrene	10.00	9.40	7.76	94.0	77.6	75-125	19.1	20
TCE	10.00	9.62	8.80	96.2	88.0	71-125	8.9	20
Tert-Butylbenzene	10.00	10.0	9.80	100	98.0	75-125	2.0	20
Tetrachloroethene	10.00	10.0	8.69	100	86.9	71-125	14.0	20
Toluene	10.00	9.77	8.65	97.7	86.5	74-125	12.2	20
Trans-1,2-DCE	10.00	9.79	8.67	97.9	86.7	75-125	12.1	20
Trans-1,3-Dichloropropene	10.00	9.69	8.71	96.9	87.1	66-125	10.7	20
Trichlorofluoromethane	10.00	10.7	9.39	107	93.9	67-125	13.0	20
Vinyl chloride	10.00	11.2	9.74	112	97.4	46-134	13.9	20

1,2-DCA-D4(S)	18.7	17.9	16.9	95.6	90.3	69-139		
4-Bromofluorobenzene(S)	18.4	17.2	16.0	93.2	86.7	75-125		
Dibromofluoromethane(S)	18.4	17.0	16.1	92.2	87.3	75-125		
Toluene-D8(S)	18.4	18.4	17.4	99.9	94.5	75-125		

= Recovery is outside QC limits.

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	S826AW.M	S826AW.M
Extraction Date :	09/11/07	09/12/07
Analysis Date :	09/11/07	09/12/07
Instrument :	Sweetpea	Sweetpea
Run :	0911S16	0911S17
Initials :	GM	

Printed: 09/13/07 3:50:27 PM

APPL Standard LCSD

Laboratory Control Spike Recoveries
EPA 8260B - AFCEE 3.0 (Water)

APPL ID: 070912W-67177 LCS - 115953
 Batch ID: \$826AW-070911AN

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
Cis-1,2-DCE	10.00	8.58	9.09	85.8	90.9	75-125	5.8	20
TCE	10.00	8.61	8.69	86.1	86.9	71-125	0.92	20
1,2-DCA-D4(S)	19.8	18.5	18.0	93.6	91.1	69-139		
4-Bromofluorobenzene(S)	21.4	20.1	20.4	93.7	95.1	75-125		
Dibromofluoromethane(S)	21.0	19.0	19.6	90.3	93.2	75-125		
Toluene-D8(S)	22.3	22.1	21.6	99.0	96.8	75-125		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	NMS10.M	NMS10.M
Extraction Date :	09/12/07	09/12/07
Analysis Date :	09/12/07	09/12/07
Instrument :	Neo	Neo
Run :	0911N16	0911N17
Initials :	GM	

Printed: 09/13/07 3:50:47 PM
 APPL Standard LCSD

WETLAB BLANK

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Method	Analyte	Result	PQL	Units	Prep Date	Anal Date	QC Group
EPA 160.1	Total Dissolved Solids EPA 1	Not detected	10	mg/L	9/11/2007	9/11/2007	\$TDS-070911A-AX67177

Laboratory Control Spike Recoveries
WETLAB DISSOLVED

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	DUP % Recov	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 160.1	Total Dissolved Solids EPA	221	225	223	102	101	0.89	20	80-120	09/11/07	09/11/07	09/11/07	09/11/07	09/11/07	\$TDS-070911A-AX67177

Comments:

Matrix Spike Recovery

WETLAB

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Sample ID: AX67177
Client ID: B3-UIC

Method	Compound Name	Spike Level mg/L	Matrix Result mg/L	SPK Result mg/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group	QC Sample
EPA 160.1	Total Dissolved Solids EPA 160.1	221	382	586	92.3	80-120	9/11/2007	9/11/2007	\$TDS-070911A	AX67177

Comments:

Camp Stanley Storage Activity Chain Of Custody

COC ID: 090607APPFA
Project Location: CSSA TO6
Job Number: 744223.11000
Creation Date: 9/6/2007

Relinquish Date: 9/6/2007
Relinquish By: se
Relinquish Time: 3:30 PM
Collection Team: SE

Relinquish Date: 9/6/2007
Relinquish By: WG
Relinquish Time: 10:00
Collection Team: G

Relinquish Date: 9/6/2007
Relinquish By: [Signature]
Relinquish Time: 10:30
Collection Team: [Signature]

COOLER ID: A
LAB CODE: APPF
CARRIER: FedEx
AIRBILL CARRIER: 8292 2397 6419

ANALYSIS REQUIRED:
E160.1 TOTAL DISSOLVED SOL
SW82608 VOLATILE ORGANIC CO

CONTAINERS: 4

REMARKS:

Relinquished by: [Signature] Date: 9/6/07 Time: 1530
Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____
Received by: _____ Date: _____ Time: _____

Relinquished by: [Signature] Date: 9/7/07 Time: 1030
Received by: [Signature] Date: 9/7/07 Time: 1030



Case Narrative

ARF: 54376 - #93

Project: 744223.11000 CSSA TO6

State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

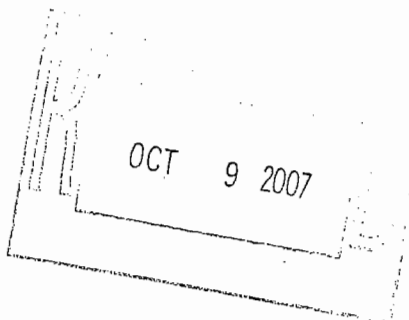
Sample Receipt Information:

The sample group was received September 18, 2007, at 2.5°C. The samples were assigned Analytical Request Form (ARF) number 54376. The sample number and requested analyses were compared to the chains of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
CS-WB07-LGR03B	AX67477	WATER	09/18/07	09/19/07
CS-WB06-LGR03B	AX67478	WATER	09/18/07	09/19/07
CS-WB08-LGR03B	AX67479	WATER	09/18/07	09/19/07
CS-WB05-LGR03B	AX67480	WATER	09/18/07	09/19/07
B3-UIC	AX67481	WATER	09/18/07	09/19/07

The RSK, Ethene, Ethane, & Carbon Dioxide analyses were sent directly to DHL. Their results are attached.



Volatile Organic Compounds

EPA Method 8260B

Sample Preparation:

The samples were purged according to EPA method 5030B. All holding times were met.

Sample Analysis Information:

The samples were analyzed according to EPA method 8260B using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector. All holding times were met.

Quality Control/Assurance

Spike Recovery

Laboratory Control Spikes (LCS) were used for quality assurance. A second-source standard was used for the LCSs. 1,3,5-Trimethylbenzene recovered above the 112% upper control limit at 117% in the 070926AH LCS: Carbon tetrachloride at 126%, cis-1,3-Dichloropropene at 138%, and trans-1,3-Dichloropropene at 127%. All other recoveries were acceptable.

No sample was designated by the client for an MS/MSD analysis.

Surrogates

All surrogate recoveries met acceptance criteria.

Method blanks

In the 070926AH method blank, six compounds were detected at concentrations less than the reporting limit and greater than the MDL: 1-Chlorohexane, Hexachlorobutadiene, n-Butylbenzene, n-Propylbenzene, p-Isopropyltoluene, and sec- Butylbenzene. These compounds were not detected in the associated sample. No target analyte was detected above the reporting limit.

Calibration

Initial and continuing calibrations were analyzed according to the method. 2,2-Dichloropropane did not meet calibration criteria on the instrument Hewey sequence H070926. Only sample B3-UIC is reported from this sequence. All other calibration criteria were met.

Tuning:

The instrument was tuned using BFB. All method criteria were met.

Internal Standards

The internal standard area counts were compared to the mid-point of the initial calibration according to method 8260. All acceptance criteria were met.

Summary:

No other analytical exception is noted. All data are acceptable.

EPA Methods 6010B and 7470A

Metals

Digestion Information:

The water samples were digested according to EPA methods 3010A and 7470A. No exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 4300DV, and according to EPA method 7470A using a Perkin Elmer Analyst 300.

Calibrations:

Calibrations were performed according to the methods for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard.

Blanks:

No target metal was detected above one half the reporting limit.

Spikes:

Laboratory Control Spikes (LCS/LCSD) were used for quality assurance. All acceptance criteria were met.

Summary:

No analytical exception is noted. All data are acceptable.

Inorganic Analyses

EPA Method 160.1, 310.1, 353.2, 376.1, 9056, SM 3500FeB, SM 5310B, and SW846 9060

Sample Preparation and Analysis Information:

The waters were prepared and analyzed according to the methods. A Dionex DX500 ion chromatograph was used for the EPA 9056 analysis. A Lachat was used for the EPA 353.2 analysis. An Apollo 9000 was used for the SW846 9060 and SM 5310B analyses. Sample CS-WB07-LGR03B was received more than 24 hours after collection; it was analyzed for Ferrous Iron as soon as possible. All other holding times were met.

Quality Control/Assurance

Calibrations:

Calibrations were performed according to the methods for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard.

Blanks:

No target analyte was detected above one-half the PQL.

Spikes:


Laboratory Control Spikes (LCS/LCSD), sample duplicate, and matrix spikes were used for quality assurance. All recoveries were within acceptance limits.

Summary:

No other analytical exception is noted.

CERTIFICATION

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



Leonard Fong, Ph.D, Laboratory Director / Date

EPA 8260B - AFCEE 3.0 (Water)

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

ARF: 54376

Sample ID: CS-WB07-LGR03B

APPL ID: AX67477

Sample Collection Date: 9/18/2007

QCG: \$826AW-071001AM-11643

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-Tetrachloroethane	Not detected	0.5	0.13	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1,1-TCA	Not detected	0.8	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	0.4	0.10	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1,2-TCA	Not detected	1.0	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1-DCA	Not detected	0.4	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1-DCE	Not detected	1.2	0.30	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1-Dichloropropene	Not detected	1.0	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,3-Trichlorobenzene	Not detected	0.3	0.29	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,3-Trichloropropane	Not detected	3.2	0.39	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,4-Trichlorobenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,4-Trimethylbenzene	Not detected	1.3	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-DCA	Not detected	0.6	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-DCB	Not detected	0.3	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-Dibromo-3-chloropropane	Not detected	2.6	0.76	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-Dichloropropane	Not detected	0.4	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-EDB	Not detected	0.6	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,3,5-Trimethylbenzene	Not detected	0.5	0.12	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,3-DCB	Not detected	1.2	0.11	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,3-Dichloropropane	Not detected	0.4	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,4-DCB	Not detected	0.3	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	1-Chlorohexane	Not detected	0.5	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	2,2-Dichloropropane	Not detected	3.5	0.22	ug/L	10/1/2007	10/1/2007
EPA 8260B	2-Chlorotoluene	Not detected	0.4	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	4-Chlorotoluene	Not detected	0.6	0.13	ug/L	10/1/2007	10/1/2007
EPA 8260B	Benzene	Not detected	0.4	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromobenzene	Not detected	0.3	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromochloromethane	Not detected	0.4	0.15	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromodichloromethane	Not detected	0.8	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromoform	Not detected	1.2	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromomethane	Not detected	1.1	0.24	ug/L	10/1/2007	10/1/2007
EPA 8260B	Carbon tetrachloride	Not detected	2.1	0.10	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chlorobenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chloroethane	Not detected	1.0	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chloroform	Not detected	0.3	0.07	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chloromethane	Not detected	1.3	0.31	ug/L	10/1/2007	10/1/2007
EPA 8260B	Cis-1,2-DCE	29	1.2	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	10/1/2007	10/1/2007

J = Estimated value.

Quant Method: M826AW.M
Run #: 1001M07
Instrument: Max
Sequence: M071001
Dilution Factor: 1
Initials: DG

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

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Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

Sample ID: **CS-WB07-LGR03B**

Sample Collection Date: 9/18/2007

ARF: 54376

APPL ID: **AX67477**

CCG: \$826AW-071001AM-11643

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	Dibromochloromethane	Not detected	0.5	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Dibromomethane	Not detected	2.4	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	Dichlorodifluoromethane	Not detected	1.0	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Ethylbenzene	Not detected	0.6	0.23	ug/L	10/1/2007	10/1/2007
EPA 8260B	Hexachlorobutadiene	Not detected	1.1	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Isopropylbenzene	Not detected	0.5	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	m&p-Xylene	Not detected	0.5	0.40	ug/L	10/1/2007	10/1/2007
EPA 8260B	Methylene chloride	Not detected	1.0	0.35	ug/L	10/1/2007	10/1/2007
EPA 8260B	n-Butylbenzene	Not detected	1.1	0.15	ug/L	10/1/2007	10/1/2007
EPA 8260B	n-Propylbenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	Naphthalene	Not detected	0.4	0.36	ug/L	10/1/2007	10/1/2007
EPA 8260B	o-Xylene	Not detected	1.1	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	p-Isopropyltoluene	Not detected	1.2	0.12	ug/L	10/1/2007	10/1/2007
EPA 8260B	Sec-Butylbenzene	Not detected	1.3	0.12	ug/L	10/1/2007	10/1/2007
EPA 8260B	Styrene	Not detected	0.4	0.25	ug/L	10/1/2007	10/1/2007
EPA 8260B	TCE	0.80 J	1.0	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Tert-Butylbenzene	Not detected	1.4	0.13	ug/L	10/1/2007	10/1/2007
EPA 8260B	Tetrachloroethene	Not detected	1.4	0.15	ug/L	10/1/2007	10/1/2007
EPA 8260B	Toluene	Not detected	1.1	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	Trans-1,2-DCE	0.72	0.6	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	10/1/2007	10/1/2007
EPA 8260B	Trichlorofluoromethane	Not detected	0.8	0.24	ug/L	10/1/2007	10/1/2007
EPA 8260B	Vinyl chloride	Not detected	1.1	0.23	ug/L	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: 1,2-DCA-D4	98.4	69-139		%	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: 4-Bromofluorobenz	97.2	75-125		%	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: Dibromofluorometh	101	75-125		%	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: Toluene-D8	101	75-125		%	10/1/2007	10/1/2007

J = Estimated value.

Quant Method: M826AW.M
Run #: 1001M07
Instrument: Max
Sequence: M071001
Dilution Factor: 1
Initials: DG

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
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Fresno, CA 93722

Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

ARF: 54376

Sample ID: CS-WB06-LGR03B

APPL ID: AX67478

Sample Collection Date: 9/18/2007

QCG: \$826AW-071001AM-11643

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-Tetrachloroethane	Not detected	0.5	0.13	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1,1-TCA	Not detected	0.8	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	0.4	0.10	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1,2-TCA	Not detected	1.0	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1-DCA	Not detected	0.4	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1-DCE	Not detected	1.2	0.30	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1-Dichloropropene	Not detected	1.0	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,3-Trichlorobenzene	Not detected	0.3	0.29	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,3-Trichloropropane	Not detected	3.2	0.39	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,4-Trichlorobenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,4-Trimethylbenzene	Not detected	1.3	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-DCA	Not detected	0.6	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-DCB	Not detected	0.3	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-Dibromo-3-chloropropane	Not detected	2.6	0.76	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-Dichloropropane	Not detected	0.4	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-EDB	Not detected	0.6	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,3,5-Trimethylbenzene	Not detected	0.5	0.12	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,3-DCB	Not detected	1.2	0.11	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,3-Dichloropropane	Not detected	0.4	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,4-DCB	Not detected	0.3	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	1-Chlorohexane	Not detected	0.5	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	2,2-Dichloropropane	Not detected	3.5	0.22	ug/L	10/1/2007	10/1/2007
EPA 8260B	2-Chlorotoluene	Not detected	0.4	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	4-Chlorotoluene	Not detected	0.6	0.13	ug/L	10/1/2007	10/1/2007
EPA 8260B	Benzene	Not detected	0.4	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromobenzene	Not detected	0.3	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromochloromethane	Not detected	0.4	0.15	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromodichloromethane	Not detected	0.8	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromoform	Not detected	1.2	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromomethane	Not detected	1.1	0.24	ug/L	10/1/2007	10/1/2007
EPA 8260B	Carbon tetrachloride	Not detected	2.1	0.10	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chlorobenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chloroethane	Not detected	1.0	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chloroform	Not detected	0.3	0.07	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chloromethane	Not detected	1.3	0.31	ug/L	10/1/2007	10/1/2007
EPA 8260B	Cis-1,2-DCE	290 E	1.2	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	10/1/2007	10/1/2007

E = The reported value exceeds linear range.

Quant Method: M826AW.M
Run #: 1001M10
Instrument: Max
Sequence: M071001
Dilution Factor: 1
Initials: DG

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

Parsons Engineering Science, Inc.
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Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

Sample ID: CS-WB06-LGR03B

Sample Collection Date: 9/18/2007

ARF: 54376

APPL ID: AX67478

QCG: \$826AW-071001AM-11643

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	Dibromochloromethane	Not detected	0.5	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Dibromomethane	Not detected	2.4	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	Dichlorodifluoromethane	Not detected	1.0	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Ethylbenzene	Not detected	0.6	0.23	ug/L	10/1/2007	10/1/2007
EPA 8260B	Hexachlorobutadiene	Not detected	1.1	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Isopropylbenzene	Not detected	0.5	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	m&p-Xylene	Not detected	0.5	0.40	ug/L	10/1/2007	10/1/2007
EPA 8260B	Methylene chloride	Not detected	1.0	0.35	ug/L	10/1/2007	10/1/2007
EPA 8260B	n-Butylbenzene	Not detected	1.1	0.15	ug/L	10/1/2007	10/1/2007
EPA 8260B	n-Propylbenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	Naphthalene	Not detected	0.4	0.36	ug/L	10/1/2007	10/1/2007
EPA 8260B	o-Xylene	Not detected	1.1	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	p-Isopropyltoluene	Not detected	1.2	0.12	ug/L	10/1/2007	10/1/2007
EPA 8260B	Sec-Butylbenzene	Not detected	1.3	0.12	ug/L	10/1/2007	10/1/2007
EPA 8260B	Styrene	Not detected	0.4	0.25	ug/L	10/1/2007	10/1/2007
EPA 8260B	TCE	210 E	1.0	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Tert-Butylbenzene	Not detected	1.4	0.13	ug/L	10/1/2007	10/1/2007
EPA 8260B	Tetrachloroethene	170 E	1.4	0.15	ug/L	10/1/2007	10/1/2007
EPA 8260B	Toluene	Not detected	1.1	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	Trans-1,2-DCE	2.7	0.6	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	10/1/2007	10/1/2007
EPA 8260B	Trichlorofluoromethane	Not detected	0.8	0.24	ug/L	10/1/2007	10/1/2007
EPA 8260B	Vinyl chloride	Not detected	1.1	0.23	ug/L	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: 1,2-DCA-D4	102	69-139		%	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: 4-Bromofluorobenz	99.6	75-125		%	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: Dibromofluorometh	107	75-125		%	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: Toluene-D8	101	75-125		%	10/1/2007	10/1/2007

E = The reported value exceeds linear range.

Quant Method: M826AW.M
Run #: 1001M10
Instrument: Max
Sequence: M071001
Dilution Factor: 1
Initials: DG

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

Parsons Engineering Science, Inc.
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Fresno, CA 93722

Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

Sample ID: CS-WB06-LGR03B

Sample Collection Date: 9/18/2007

ARF: 54376

APPL ID: AX67478

QCG: \$826AW-071002AM-11652

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	Cis-1,2-DCE	260	12	2.0	ug/L	10/2/2007	10/2/2007
EPA 8260B	TCE	220	10.0	1.60	ug/L	10/2/2007	10/2/2007
EPA 8260B	Tetrachloroethene	170	14	1.0	ug/L	10/2/2007	10/2/2007
EPA 8260B	Surrogate recovery: 1,2-DCA-D4	101	69-139		%	10/2/2007	10/2/2007
EPA 8260B	Surrogate recovery: 4-Bromofluorobenz	97.3	75-125		%	10/2/2007	10/2/2007
EPA 8260B	Surrogate recovery: Dibromofluorometh	104	75-125		%	10/2/2007	10/2/2007
EPA 8260B	Surrogate recovery: Toluene-D8	99.5	75-125		%	10/2/2007	10/2/2007

Quant Method: M826AW.M
Run #: 1002M10
Instrument: Max
Sequence: M071001
Dilution Factor: 10
Initials: ND

Printed: 10/4/2007 2:11:33 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

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Fresno, CA 93722

Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

ARF: 54376

Sample ID: CS-WB08-LGR03B

APPL ID: AX67479

Sample Collection Date: 9/18/2007

QCG: \$826AW-071001AM-11643

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-Tetrachloroethane	Not detected	0.5	0.13	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1,1-TCA	Not detected	0.8	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	0.4	0.10	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1,2-TCA	Not detected	1.0	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1-DCA	Not detected	0.4	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1-DCE	Not detected	1.2	0.30	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1-Dichloropropene	Not detected	1.0	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,3-Trichlorobenzene	Not detected	0.3	0.29	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,3-Trichloropropane	Not detected	3.2	0.39	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,4-Trichlorobenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,4-Trimethylbenzene	Not detected	1.3	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-DCA	Not detected	0.6	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-DCB	Not detected	0.3	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-Dibromo-3-chloropropane	Not detected	2.6	0.76	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-Dichloropropane	Not detected	0.4	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-EDB	Not detected	0.6	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,3,5-Trimethylbenzene	Not detected	0.5	0.12	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,3-DCB	Not detected	1.2	0.11	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,3-Dichloropropane	Not detected	0.4	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,4-DCB	Not detected	0.3	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	1-Chlorohexane	Not detected	0.5	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	2,2-Dichloropropane	Not detected	3.5	0.22	ug/L	10/1/2007	10/1/2007
EPA 8260B	2-Chlorotoluene	Not detected	0.4	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	4-Chlorotoluene	Not detected	0.6	0.13	ug/L	10/1/2007	10/1/2007
EPA 8260B	Benzene	Not detected	0.4	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromobenzene	Not detected	0.3	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromochloromethane	Not detected	0.4	0.15	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromodichloromethane	Not detected	0.8	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromoform	Not detected	1.2	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromomethane	Not detected	1.1	0.24	ug/L	10/1/2007	10/1/2007
EPA 8260B	Carbon tetrachloride	Not detected	2.1	0.10	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chlorobenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chloroethane	Not detected	1.0	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chloroform	Not detected	0.3	0.07	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chloromethane	Not detected	1.3	0.31	ug/L	10/1/2007	10/1/2007
EPA 8260B	Cis-1,2-DCE	140 E	1.2	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	10/1/2007	10/1/2007

E = The reported value exceeds linear range.

Quant Method: M826AW.M
Run #: 1001M09
Instrument: Max
Sequence: M071001
Dilution Factor: 1
Initials: DG

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

ARF: 54376

Sample ID: CS-WB08-LGR03B

APPL ID: AX67479

Sample Collection Date: 9/18/2007

CGC: \$826AW-071001AM-11643

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	Dibromochloromethane	Not detected	0.5	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Dibromomethane	Not detected	2.4	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	Dichlorodifluoromethane	Not detected	1.0	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Ethylbenzene	Not detected	0.6	0.23	ug/L	10/1/2007	10/1/2007
EPA 8260B	Hexachlorobutadiene	Not detected	1.1	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Isopropylbenzene	Not detected	0.5	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	m&p-Xylene	Not detected	0.5	0.40	ug/L	10/1/2007	10/1/2007
EPA 8260B	Methylene chloride	Not detected	1.0	0.35	ug/L	10/1/2007	10/1/2007
EPA 8260B	n-Butylbenzene	Not detected	1.1	0.15	ug/L	10/1/2007	10/1/2007
EPA 8260B	n-Propylbenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	Naphthalene	Not detected	0.4	0.36	ug/L	10/1/2007	10/1/2007
EPA 8260B	o-Xylene	Not detected	1.1	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	p-Isopropyltoluene	Not detected	1.2	0.12	ug/L	10/1/2007	10/1/2007
EPA 8260B	Sec-Butylbenzene	Not detected	1.3	0.12	ug/L	10/1/2007	10/1/2007
EPA 8260B	Styrene	Not detected	0.4	0.25	ug/L	10/1/2007	10/1/2007
EPA 8260B	TCE	98 E	1.0	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Tert-Butylbenzene	Not detected	1.4	0.13	ug/L	10/1/2007	10/1/2007
EPA 8260B	Tetrachloroethene	71	1.4	0.15	ug/L	10/1/2007	10/1/2007
EPA 8260B	Toluene	Not detected	1.1	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	Trans-1,2-DCE	1.2	0.6	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	10/1/2007	10/1/2007
EPA 8260B	Trichlorofluoromethane	Not detected	0.8	0.24	ug/L	10/1/2007	10/1/2007
EPA 8260B	Vinyl chloride	Not detected	1.1	0.23	ug/L	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: 1,2-DCA-D4	102	69-139		%	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: 4-Bromofluorobenz	101	75-125		%	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: Dibromofluorometh	106	75-125		%	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: Toluene-D8	103	75-125		%	10/1/2007	10/1/2007

E = The reported value exceeds linear range.

Quant Method: M826AW.M
Run #: 1001M09
Instrument: Max
Sequence: M071001
Dilution Factor: 1
Initials: DG

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

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Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

Sample ID: CS-WB08-LGR03B

Sample Collection Date: 9/18/2007

ARF: 54376

APPL ID: AX67479

QCG: \$826AW-071002AM-11652

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	Cis-1,2-DCE	180	12	2.0	ug/L	10/2/2007	10/2/2007
EPA 8260B	TCE	140	10.0	1.60	ug/L	10/2/2007	10/2/2007
EPA 8260B	Surrogate recovery: 1,2-DCA-D4	102	69-139		%	10/2/2007	10/2/2007
EPA 8260B	Surrogate recovery: 4-Bromofluorobenz	102	75-125		%	10/2/2007	10/2/2007
EPA 8260B	Surrogate recovery: Dibromofluorometh	105	75-125		%	10/2/2007	10/2/2007
EPA 8260B	Surrogate recovery: Toluene-D8	101	75-125		%	10/2/2007	10/2/2007

Quant Method: M826AW.M
Run #: 1002M09
Instrument: Max
Sequence: M071001
Dilution Factor: 10
Initials: ND

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

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APPL Inc.
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Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

ARF: 54376

Sample ID: CS-WB05-LGR03B

APPL ID: AX67480

Sample Collection Date: 9/18/2007

QCG: \$826AW-071001AM-11643

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-Tetrachloroethane	Not detected	0.5	0.13	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1,1-TCA	Not detected	0.8	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	0.4	0.10	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1,2-TCA	Not detected	1.0	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1-DCA	Not detected	0.4	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1-DCE	Not detected	1.2	0.30	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,1-Dichloropropene	Not detected	1.0	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,3-Trichlorobenzene	Not detected	0.3	0.29	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,3-Trichloropropane	Not detected	3.2	0.39	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,4-Trichlorobenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2,4-Trimethylbenzene	Not detected	1.3	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-DCA	Not detected	0.6	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-DCB	Not detected	0.3	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-Dibromo-3-chloropropane	Not detected	2.6	0.76	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-Dichloropropane	Not detected	0.4	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,2-EDB	Not detected	0.6	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,3,5-Trimethylbenzene	Not detected	0.5	0.12	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,3-DCB	Not detected	1.2	0.11	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,3-Dichloropropane	Not detected	0.4	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	1,4-DCB	Not detected	0.3	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	1-Chlorohexane	Not detected	0.5	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	2,2-Dichloropropane	Not detected	3.5	0.22	ug/L	10/1/2007	10/1/2007
EPA 8260B	2-Chlorotoluene	Not detected	0.4	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	4-Chlorotoluene	Not detected	0.6	0.13	ug/L	10/1/2007	10/1/2007
EPA 8260B	Benzene	Not detected	0.4	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromobenzene	Not detected	0.3	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromochloromethane	Not detected	0.4	0.15	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromodichloromethane	Not detected	0.8	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromoform	Not detected	1.2	0.14	ug/L	10/1/2007	10/1/2007
EPA 8260B	Bromomethane	Not detected	1.1	0.24	ug/L	10/1/2007	10/1/2007
EPA 8260B	Carbon tetrachloride	Not detected	2.1	0.10	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chlorobenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chloroethane	Not detected	1.0	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chloroform	Not detected	0.3	0.07	ug/L	10/1/2007	10/1/2007
EPA 8260B	Chloromethane	Not detected	1.3	0.31	ug/L	10/1/2007	10/1/2007
EPA 8260B	Cis-1,2-DCE	43	1.2	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	10/1/2007	10/1/2007

J = Estimated value.

Quant Method: M826AW.M
Run #: 1001M08
Instrument: Max
Sequence: M071001
Dilution Factor: 1
Initials: DG

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

Parsons Engineering Science, Inc.
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Project: 744223.11000 CSSA B-3

ARF: 54376

Sample ID: CS-WB05-LGR03B

APPL ID: AX67480

Sample Collection Date: 9/18/2007

QCG: \$826AW-071001AM-11643

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	Dibromochloromethane	Not detected	0.5	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Dibromomethane	Not detected	2.4	0.20	ug/L	10/1/2007	10/1/2007
EPA 8260B	Dichlorodifluoromethane	Not detected	1.0	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Ethylbenzene	Not detected	0.6	0.23	ug/L	10/1/2007	10/1/2007
EPA 8260B	Hexachlorobutadiene	Not detected	1.1	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Isopropylbenzene	Not detected	0.5	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	m&p-Xylene	Not detected	0.5	0.40	ug/L	10/1/2007	10/1/2007
EPA 8260B	Methylene chloride	Not detected	1.0	0.35	ug/L	10/1/2007	10/1/2007
EPA 8260B	n-Butylbenzene	Not detected	1.1	0.15	ug/L	10/1/2007	10/1/2007
EPA 8260B	n-Propylbenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
EPA 8260B	Naphthalene	Not detected	0.4	0.36	ug/L	10/1/2007	10/1/2007
EPA 8260B	o-Xylene	Not detected	1.1	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	p-Isopropyltoluene	Not detected	1.2	0.12	ug/L	10/1/2007	10/1/2007
EPA 8260B	Sec-Butylbenzene	Not detected	1.3	0.12	ug/L	10/1/2007	10/1/2007
EPA 8260B	Styrene	Not detected	0.4	0.25	ug/L	10/1/2007	10/1/2007
EPA 8260B	TCE	88	1.0	0.16	ug/L	10/1/2007	10/1/2007
EPA 8260B	Tert-Butylbenzene	Not detected	1.4	0.13	ug/L	10/1/2007	10/1/2007
EPA 8260B	Tetrachloroethene	0.23 J	1.4	0.15	ug/L	10/1/2007	10/1/2007
EPA 8260B	Toluene	Not detected	1.1	0.17	ug/L	10/1/2007	10/1/2007
EPA 8260B	Trans-1,2-DCE	1.5	0.6	0.19	ug/L	10/1/2007	10/1/2007
EPA 8260B	Trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	10/1/2007	10/1/2007
EPA 8260B	Trichlorofluoromethane	Not detected	0.8	0.24	ug/L	10/1/2007	10/1/2007
EPA 8260B	Vinyl chloride	Not detected	1.1	0.23	ug/L	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: 1,2-DCA-D4	97.4	69-139		%	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: 4-Bromofluorobenz	99.7	75-125		%	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: Dibromofluorometh	103	75-125		%	10/1/2007	10/1/2007
EPA 8260B	Surrogate recovery: Toluene-D8	102	75-125		%	10/1/2007	10/1/2007

J = Estimated value.

Quant Method: M826AW.M
Run #: 1001M08
Instrument: Max
Sequence: M071001
Dilution Factor: 1
Initials: DG

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

Parsons Engineering Science, Inc.
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Project: 744223.11000 CSSA B-3

ARF: 54376

Sample ID: B3-UIC

APPL ID: AX67481

Sample Collection Date: 9/18/2007

QCG: \$826AW-070926AH-11643

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-Tetrachloroethane	Not detected	0.5	0.13	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,1,1-TCA	Not detected	0.8	0.14	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	0.4	0.10	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,1,2-TCA	Not detected	1.0	0.20	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,1-DCA	Not detected	0.4	0.19	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,1-DCE	0.50 J	1.2	0.30	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,1-Dichloropropene	Not detected	1.0	0.20	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,2,3-Trichlorobenzene	Not detected	0.3	0.29	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,2,3-Trichloropropane	Not detected	3.2	0.39	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,2,4-Trichlorobenzene	Not detected	0.4	0.21	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,2,4-Trimethylbenzene	Not detected	1.3	0.19	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,2-DCA	Not detected	0.6	0.14	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,2-DCB	Not detected	0.3	0.17	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,2-Dibromo-3-chloropropane	Not detected	2.6	0.76	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,2-Dichloropropane	Not detected	0.4	0.17	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,2-EDB	Not detected	0.6	0.20	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,3,5-Trimethylbenzene	Not detected	0.5	0.12	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,3-DCB	Not detected	1.2	0.11	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,3-Dichloropropane	Not detected	0.4	0.17	ug/L	9/27/2007	9/27/2007
EPA 8260B	1,4-DCB	Not detected	0.3	0.19	ug/L	9/27/2007	9/27/2007
EPA 8260B	1-Chlorohexane	Not detected	0.5	0.17	ug/L	9/27/2007	9/27/2007
EPA 8260B	2-Chlorotoluene	Not detected	0.4	0.14	ug/L	9/27/2007	9/27/2007
EPA 8260B	4-Chlorotoluene	Not detected	0.6	0.13	ug/L	9/27/2007	9/27/2007
EPA 8260B	Benzene	Not detected	0.4	0.16	ug/L	9/27/2007	9/27/2007
EPA 8260B	Bromobenzene	Not detected	0.3	0.16	ug/L	9/27/2007	9/27/2007
EPA 8260B	Bromochloromethane	Not detected	0.4	0.15	ug/L	9/27/2007	9/27/2007
EPA 8260B	Bromodichloromethane	Not detected	0.8	0.14	ug/L	9/27/2007	9/27/2007
EPA 8260B	Bromoform	Not detected	1.2	0.14	ug/L	9/27/2007	9/27/2007
EPA 8260B	Bromomethane	Not detected	1.1	0.24	ug/L	9/27/2007	9/27/2007
EPA 8260B	Carbon tetrachloride	Not detected	2.1	0.10	ug/L	9/27/2007	9/27/2007
EPA 8260B	Chlorobenzene	Not detected	0.4	0.21	ug/L	9/27/2007	9/27/2007
EPA 8260B	Chloroethane	Not detected	1.0	0.21	ug/L	9/27/2007	9/27/2007
EPA 8260B	Chloroform	Not detected	0.3	0.07	ug/L	9/27/2007	9/27/2007
EPA 8260B	Chloromethane	Not detected	1.3	0.31	ug/L	9/27/2007	9/27/2007
EPA 8260B	Cis-1,2-DCE	79	1.2	0.16	ug/L	9/27/2007	9/27/2007
EPA 8260B	Cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	9/27/2007	9/27/2007
EPA 8260B	Dibromochloromethane	Not detected	0.5	0.19	ug/L	9/27/2007	9/27/2007

J = Estimated value.

Quant Method: H826AW.M
Run #: 0926H31
Instrument: Hewey
Sequence: H070926
Dilution Factor: 1
Initials: DG

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B - AFCEE 3.0 (Water)

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

ARF: 54376

Sample ID: B3-UIC

APPL ID: AX67481

Sample Collection Date: 9/18/2007

QCG: \$826AW-070926AH-11643

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	Dibromomethane	Not detected	2.4	0.20	ug/L	9/27/2007	9/27/2007
EPA 8260B	Dichlorodifluoromethane	Not detected	1.0	0.19	ug/L	9/27/2007	9/27/2007
EPA 8260B	Ethylbenzene	Not detected	0.6	0.23	ug/L	9/27/2007	9/27/2007
EPA 8260B	Hexachlorobutadiene	Not detected	1.1	0.19	ug/L	9/27/2007	9/27/2007
EPA 8260B	Isopropylbenzene	Not detected	0.5	0.16	ug/L	9/27/2007	9/27/2007
EPA 8260B	m&p-Xylene	Not detected	0.5	0.40	ug/L	9/27/2007	9/27/2007
EPA 8260B	Methylene chloride	Not detected	1.0	0.35	ug/L	9/27/2007	9/27/2007
EPA 8260B	n-Butylbenzene	Not detected	1.1	0.15	ug/L	9/27/2007	9/27/2007
EPA 8260B	n-Propylbenzene	Not detected	0.4	0.21	ug/L	9/27/2007	9/27/2007
EPA 8260B	Naphthalene	Not detected	0.4	0.36	ug/L	9/27/2007	9/27/2007
EPA 8260B	o-Xylene	Not detected	1.1	0.19	ug/L	9/27/2007	9/27/2007
EPA 8260B	p-Isopropyltoluene	Not detected	1.2	0.12	ug/L	9/27/2007	9/27/2007
EPA 8260B	Sec-Butylbenzene	Not detected	1.3	0.12	ug/L	9/27/2007	9/27/2007
EPA 8260B	Styrene	Not detected	0.4	0.25	ug/L	9/27/2007	9/27/2007
EPA 8260B	TCE	82	1.0	0.16	ug/L	9/27/2007	9/27/2007
EPA 8260B	Tert-Butylbenzene	Not detected	1.4	0.13	ug/L	9/27/2007	9/27/2007
EPA 8260B	Tetrachloroethene	25	1.4	0.15	ug/L	9/27/2007	9/27/2007
EPA 8260B	Toluene	Not detected	1.1	0.17	ug/L	9/27/2007	9/27/2007
EPA 8260B	Trans-1,2-DCE	2.5	0.6	0.19	ug/L	9/27/2007	9/27/2007
EPA 8260B	Trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	9/27/2007	9/27/2007
EPA 8260B	Trichlorofluoromethane	Not detected	0.8	0.24	ug/L	9/27/2007	9/27/2007
EPA 8260B	Vinyl chloride	Not detected	1.1	0.23	ug/L	9/27/2007	9/27/2007
EPA 8260B	Surrogate recovery: 1,2-DCA-D4	101	69-139		%	9/27/2007	9/27/2007
EPA 8260B	Surrogate recovery: 4-Bromofluorobenz	86.6	75-125		%	9/27/2007	9/27/2007
EPA 8260B	Surrogate recovery: Dibromofluorometh	95.9	75-125		%	9/27/2007	9/27/2007
EPA 8260B	Surrogate recovery: Toluene-D8	98.4	75-125		%	9/27/2007	9/27/2007

J = Estimated value.

Quant Method: H826AW.M
Run #: 0926H31
Instrument: Hewey
Sequence: H070926
Dilution Factor: 1
Initials: DG

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

ARF: 54376

Sample ID: CS-WB07-LGR03B

APPL ID: AX67477

Sample Collection Date: 9/18/07

Method	Analyte	Result	PQL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3010A	Arsenic (As)	Not detected	5	2.5	ug/L	1	9/21/07	9/27/07
6010B/3010A	Barium (Ba)	32.7	5	0.8	ug/L	1	9/21/07	9/27/07
6010B/3010A	Cadmium (Cd)	Not detected	5	0.5	ug/L	1	9/21/07	9/27/07
6010B/3010A	Chromium (Cr)	3.0 J	5	1.4	ug/L	1	9/21/07	9/27/07
6010B/3010A	Copper (Cu)	Not detected	5	1.0	ug/L	1	9/21/07	9/27/07
6010B/3010A	Lead (Pb)	2.0 J	5	1.6	ug/L	1	9/21/07	9/27/07
6010B/3010A	Manganese (Mn)	1.4 J	5	1.2	ug/L	1	9/21/07	9/27/07
7470A/7470A	Mercury (Hg)	Not detected	0.2	0.06	ug/L	1	9/21/07	9/24/07
6010B/3010A	Nickel (Ni)	3.1 J	5	0.4	ug/L	1	9/21/07	9/27/07
6010B/3010A	Zinc (Zn)	10.2 J	50	2.3	ug/L	1	9/21/07	9/27/07

J = Estimated value.

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PL-F1-SC-MCRes/MCPQL-REG MDLs

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

Sample ID: CS-WB05-LGR03B

Sample Collection Date: 9/18/07

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

ARF: 54376

APPL ID: AX67480

Method	Analyte	Result	PQL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3010A	Arsenic (As)	5.0	5	2.5	ug/L	1	9/21/07	9/27/07
6010B/3010A	Barium (Ba)	27.8	5	0.8	ug/L	1	9/21/07	9/27/07
6010B/3010A	Cadmium (Cd)	Not detected	5	0.5	ug/L	1	9/21/07	9/27/07
6010B/3010A	Chromium (Cr)	Not detected	5	1.4	ug/L	1	9/21/07	9/27/07
6010B/3010A	Copper (Cu)	Not detected	5	1.0	ug/L	1	9/21/07	9/27/07
6010B/3010A	Lead (Pb)	Not detected	5	1.6	ug/L	1	9/21/07	9/27/07
6010B/3010A	Manganese (Mn)	3.1 J	5	1.2	ug/L	1	9/21/07	9/27/07
7470A/7470A	Mercury (Hg)	Not detected	0.2	0.06	ug/L	1	9/21/07	9/24/07
6010B/3010A	Nickel (Ni)	8.0	5	0.4	ug/L	1	9/21/07	9/27/07
6010B/3010A	Zinc (Zn)	22.6 J	50	2.3	ug/L	1	9/21/07	9/27/07

J = Estimated value.

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PL-F1-SC-MCRes/MCPQL-REG MDLs

Wetlab Results

ARF: 54376

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
APPL ID: AX67477		-Client Sample ID: CS-WB07-LGR03B			-Sample Collection Date: 09/18/07	Project: 744223.11000 CSSA B-	
EPA 160.1	Total Dissolved Solids EPA	357	10	4.4	mg/L	09/19/07	09/19/07
EPA 353.2	Nitrate as N	Not detected	0.1	0.03	mg/L	09/19/07	09/19/07
EPA 353.2	Nitrite as N	Not detected	0.1	0.01	mg/L	09/19/07	09/19/07
EPA 9056	Chloride	10.0	1.0	0.08	mg/L	09/19/07	09/19/07
EPA 9056	Sulfate	20.3	1.0	0.09	mg/L	09/19/07	09/19/07
EPA310.1	Total Alkalinity	304	2.0	0.02	mg/L	09/19/07	09/19/07
EPA376.1	Sulfide	Not detected	5.0	2.53	mg/L	09/19/07	09/19/07
SM3500FeB	Ferrous Iron	Not detected	1.0	0.50	mg/L	09/19/07	09/19/07
SM5310B	Dissolved Organic Carbon	0.71	0.5	0.13	mg/L	09/19/07	09/19/07
SW846 9060	Total Organic Carbon	1.5	0.5	0.13	mg/L	09/19/07	09/19/07
APPL ID: AX67478		-Client Sample ID: CS-WB06-LGR03B			-Sample Collection Date: 09/18/07	Project: 744223.11000 CSSA B-	
EPA 160.1	Total Dissolved Solids EPA	359	10	4.4	mg/L	09/19/07	09/19/07
APPL ID: AX67479		-Client Sample ID: CS-WB08-LGR03B			-Sample Collection Date: 09/18/07	Project: 744223.11000 CSSA B-	
EPA 160.1	Total Dissolved Solids EPA	352	10	4.4	mg/L	09/19/07	09/19/07
APPL ID: AX67480		-Client Sample ID: CS-WB05-LGR03B			-Sample Collection Date: 09/18/07	Project: 744223.11000 CSSA B-	
EPA 160.1	Total Dissolved Solids EPA	421	10	4.4	mg/L	09/19/07	09/19/07
EPA 353.2	Nitrate as N	Not detected	0.1	0.03	mg/L	09/19/07	09/19/07
EPA 353.2	Nitrite as N	Not detected	0.1	0.01	mg/L	09/19/07	09/19/07
EPA 9056	Chloride	10.9	1.0	0.08	mg/L	09/19/07	09/19/07
EPA 9056	Sulfate	51.4 E	1.0	0.09	mg/L	09/19/07	09/19/07
EPA 9056	Sulfate	49.9	2.0	0.18	mg/L	09/20/07	09/20/07
EPA310.1	Total Alkalinity	319	2.0	0.02	mg/L	09/19/07	09/19/07
EPA376.1	Sulfide	Not detected	5.0	2.53	mg/L	09/19/07	09/19/07
SM3500FeB	Ferrous Iron	Not detected	1.0	0.50	mg/L	09/19/07	09/19/07
SM5310B	Dissolved Organic Carbon	0.56	0.5	0.13	mg/L	09/19/07	09/19/07
SW846 9060	Total Organic Carbon	1.2	0.5	0.13	mg/L	09/19/07	09/19/07

E = The reported value exceeds linear range.

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Wetlab Results

ARF: 54376

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
APPL ID: AX67481		-Client Sample ID: B3-UIC				-Sample Collection Date: 09/18/07	Project: 744223.11000 CSSA B-
EPA 160.1	Total Dissolved Solids EPA	337	10	4.4	mg/L	09/19/07	09/19/07

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Method Blank
EPA 8260B - AFCEE 3.0 (Water)

Blank Name/QCG: 071001W-67477 - 116436
Batch ID: \$826AW-071001AM

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-Tetrachloroethane	Not detected	0.5	0.13	ug/L	10/1/2007	10/1/2007
BLANK	1,1,1-TCA	Not detected	0.8	0.14	ug/L	10/1/2007	10/1/2007
BLANK	1,1,2,2-Tetrachloroethane	Not detected	0.4	0.10	ug/L	10/1/2007	10/1/2007
BLANK	1,1,2-TCA	Not detected	1.0	0.20	ug/L	10/1/2007	10/1/2007
BLANK	1,1-DCA	Not detected	0.4	0.19	ug/L	10/1/2007	10/1/2007
BLANK	1,1-DCE	Not detected	1.2	0.30	ug/L	10/1/2007	10/1/2007
BLANK	1,1-Dichloropropene	Not detected	1.0	0.20	ug/L	10/1/2007	10/1/2007
BLANK	1,2,3-Trichlorobenzene	Not detected	0.3	0.29	ug/L	10/1/2007	10/1/2007
BLANK	1,2,3-Trichloropropane	Not detected	3.2	0.39	ug/L	10/1/2007	10/1/2007
BLANK	1,2,4-Trichlorobenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
BLANK	1,2,4-Trimethylbenzene	Not detected	1.3	0.19	ug/L	10/1/2007	10/1/2007
BLANK	1,2-DCA	Not detected	0.6	0.14	ug/L	10/1/2007	10/1/2007
BLANK	1,2-DCB	Not detected	0.3	0.17	ug/L	10/1/2007	10/1/2007
BLANK	1,2-Dibromo-3-chloropropane	Not detected	2.6	0.76	ug/L	10/1/2007	10/1/2007
BLANK	1,2-Dichloropropane	Not detected	0.4	0.17	ug/L	10/1/2007	10/1/2007
BLANK	1,2-EDB	Not detected	0.6	0.20	ug/L	10/1/2007	10/1/2007
BLANK	1,3,5-Trimethylbenzene	Not detected	0.5	0.12	ug/L	10/1/2007	10/1/2007
BLANK	1,3-DCB	Not detected	1.2	0.11	ug/L	10/1/2007	10/1/2007
BLANK	1,3-Dichloropropane	Not detected	0.4	0.17	ug/L	10/1/2007	10/1/2007
BLANK	1,4-DCB	Not detected	0.3	0.19	ug/L	10/1/2007	10/1/2007
BLANK	1-Chlorohexane	Not detected	0.5	0.17	ug/L	10/1/2007	10/1/2007
BLANK	2,2-Dichloropropane	Not detected	3.5	0.22	ug/L	10/1/2007	10/1/2007
BLANK	2-Chlorotoluene	Not detected	0.4	0.14	ug/L	10/1/2007	10/1/2007
BLANK	4-Chlorotoluene	Not detected	0.6	0.13	ug/L	10/1/2007	10/1/2007
BLANK	Benzene	Not detected	0.4	0.16	ug/L	10/1/2007	10/1/2007
BLANK	Bromobenzene	Not detected	0.3	0.16	ug/L	10/1/2007	10/1/2007
BLANK	Bromochloromethane	Not detected	0.4	0.15	ug/L	10/1/2007	10/1/2007
BLANK	Bromodichloromethane	Not detected	0.8	0.14	ug/L	10/1/2007	10/1/2007
BLANK	Bromoform	Not detected	1.2	0.14	ug/L	10/1/2007	10/1/2007
BLANK	Bromomethane	Not detected	1.1	0.24	ug/L	10/1/2007	10/1/2007
BLANK	Carbon tetrachloride	Not detected	2.1	0.10	ug/L	10/1/2007	10/1/2007
BLANK	Chlorobenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
BLANK	Chloroethane	Not detected	1.0	0.21	ug/L	10/1/2007	10/1/2007
BLANK	Chloroform	Not detected	0.3	0.07	ug/L	10/1/2007	10/1/2007

Quant Method: M826AW.M
Run #: 1001M06
Instrument: Max
Sequence: M071001
Initials: DG

GC SC-Blank-REG MDLs
Printed: 10/2/2007 3:51:50 PM

Method Blank
EPA 8260B - AFCEE 3.0 (Water)

Blank Name/QCG: 071001W-67477 - 116436
 Batch ID: \$826AW-071001AM

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	Chloromethane	Not detected	1.3	0.31	ug/L	10/1/2007	10/1/2007
BLANK	Cis-1,2-DCE	Not detected	1.2	0.16	ug/L	10/1/2007	10/1/2007
BLANK	Cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	10/1/2007	10/1/2007
BLANK	Dibromochloromethane	Not detected	0.5	0.19	ug/L	10/1/2007	10/1/2007
BLANK	Dibromomethane	Not detected	2.4	0.20	ug/L	10/1/2007	10/1/2007
BLANK	Dichlorodifluoromethane	Not detected	1.0	0.19	ug/L	10/1/2007	10/1/2007
BLANK	Ethylbenzene	Not detected	0.6	0.23	ug/L	10/1/2007	10/1/2007
BLANK	Hexachlorobutadiene	Not detected	1.1	0.19	ug/L	10/1/2007	10/1/2007
BLANK	Isopropylbenzene	Not detected	0.5	0.16	ug/L	10/1/2007	10/1/2007
BLANK	m&p-Xylene	Not detected	0.5	0.40	ug/L	10/1/2007	10/1/2007
BLANK	Methylene chloride	Not detected	1.0	0.35	ug/L	10/1/2007	10/1/2007
BLANK	n-Butylbenzene	Not detected	1.1	0.15	ug/L	10/1/2007	10/1/2007
BLANK	n-Propylbenzene	Not detected	0.4	0.21	ug/L	10/1/2007	10/1/2007
BLANK	Naphthalene	Not detected	0.4	0.36	ug/L	10/1/2007	10/1/2007
BLANK	o-Xylene	Not detected	1.1	0.19	ug/L	10/1/2007	10/1/2007
BLANK	p-Isopropyltoluene	Not detected	1.2	0.12	ug/L	10/1/2007	10/1/2007
BLANK	Sec-Butylbenzene	Not detected	1.3	0.12	ug/L	10/1/2007	10/1/2007
BLANK	Styrene	Not detected	0.4	0.25	ug/L	10/1/2007	10/1/2007
BLANK	TCE	Not detected	1.0	0.16	ug/L	10/1/2007	10/1/2007
BLANK	Tert-Butylbenzene	Not detected	1.4	0.13	ug/L	10/1/2007	10/1/2007
BLANK	Tetrachloroethene	Not detected	1.4	0.15	ug/L	10/1/2007	10/1/2007
BLANK	Toluene	Not detected	1.1	0.17	ug/L	10/1/2007	10/1/2007
BLANK	Trans-1,2-DCE	Not detected	0.6	0.19	ug/L	10/1/2007	10/1/2007
BLANK	Trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	10/1/2007	10/1/2007
BLANK	Trichlorofluoromethane	Not detected	0.8	0.24	ug/L	10/1/2007	10/1/2007
BLANK	Vinyl chloride	Not detected	1.1	0.23	ug/L	10/1/2007	10/1/2007
BLANK	Surrogate recovery: 1,2-DCA-D4	97.7	69-139		%	10/1/2007	10/1/2007
BLANK	Surrogate recovery: 4-Bromofluorobenz	98.8	75-125		%	10/1/2007	10/1/2007
BLANK	Surrogate recovery: Dibromofluorometh	103	75-125		%	10/1/2007	10/1/2007
BLANK	Surrogate recovery: Toluene-D8	102	75-125		%	10/1/2007	10/1/2007

Quant Method: M826AW.M
 Run #: 1001M06
 Instrument: Max
 Sequence: M071001
 Initials: DG

GC SC-Blank-REG MDLs
 Printed: 10/2/2007 3:51:50 PM

Method Blank
EPA 8260B - AFCEE 3.0 (Water)

Blank Name/QCG: 070927W-67481 - 116434
Batch ID: \$826AW-070926AH

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-Tetrachloroethane	Not detected	0.5	0.13	ug/L	9/27/2007	9/27/2007
BLANK	1,1,1-TCA	Not detected	0.8	0.14	ug/L	9/27/2007	9/27/2007
BLANK	1,1,2,2-Tetrachloroethane	Not detected	0.4	0.10	ug/L	9/27/2007	9/27/2007
BLANK	1,1,2-TCA	Not detected	1.0	0.20	ug/L	9/27/2007	9/27/2007
BLANK	1,1-DCA	Not detected	0.4	0.19	ug/L	9/27/2007	9/27/2007
BLANK	1,1-DCE	Not detected	1.2	0.30	ug/L	9/27/2007	9/27/2007
BLANK	1,1-Dichloropropene	Not detected	1.0	0.20	ug/L	9/27/2007	9/27/2007
BLANK	1,2,3-Trichlorobenzene	Not detected	0.3	0.29	ug/L	9/27/2007	9/27/2007
BLANK	1,2,3-Trichloropropane	Not detected	3.2	0.39	ug/L	9/27/2007	9/27/2007
BLANK	1,2,4-Trichlorobenzene	Not detected	0.4	0.21	ug/L	9/27/2007	9/27/2007
BLANK	1,2,4-Trimethylbenzene	Not detected	1.3	0.19	ug/L	9/27/2007	9/27/2007
BLANK	1,2-DCA	Not detected	0.6	0.14	ug/L	9/27/2007	9/27/2007
BLANK	1,2-DCB	Not detected	0.3	0.17	ug/L	9/27/2007	9/27/2007
BLANK	1,2-Dibromo-3-chloropropane	Not detected	2.6	0.76	ug/L	9/27/2007	9/27/2007
BLANK	1,2-Dichloropropane	Not detected	0.4	0.17	ug/L	9/27/2007	9/27/2007
BLANK	1,2-EDB	Not detected	0.6	0.20	ug/L	9/27/2007	9/27/2007
BLANK	1,3,5-Trimethylbenzene	Not detected	0.5	0.12	ug/L	9/27/2007	9/27/2007
BLANK	1,3-DCB	Not detected	1.2	0.11	ug/L	9/27/2007	9/27/2007
BLANK	1,3-Dichloropropane	Not detected	0.4	0.17	ug/L	9/27/2007	9/27/2007
BLANK	1,4-DCB	Not detected	0.3	0.19	ug/L	9/27/2007	9/27/2007
BLANK	1-Chlorohexane	0.17 J	0.5	0.17	ug/L	9/27/2007	9/27/2007
BLANK	2-Chlorotoluene	Not detected	0.4	0.14	ug/L	9/27/2007	9/27/2007
BLANK	4-Chlorotoluene	Not detected	0.6	0.13	ug/L	9/27/2007	9/27/2007
BLANK	Benzene	Not detected	0.4	0.16	ug/L	9/27/2007	9/27/2007
BLANK	Bromobenzene	Not detected	0.3	0.16	ug/L	9/27/2007	9/27/2007
BLANK	Bromochloromethane	Not detected	0.4	0.15	ug/L	9/27/2007	9/27/2007
BLANK	Bromodichloromethane	Not detected	0.8	0.14	ug/L	9/27/2007	9/27/2007
BLANK	Bromoform	Not detected	1.2	0.14	ug/L	9/27/2007	9/27/2007
BLANK	Bromomethane	Not detected	1.1	0.24	ug/L	9/27/2007	9/27/2007
BLANK	Carbon tetrachloride	Not detected	2.1	0.10	ug/L	9/27/2007	9/27/2007
BLANK	Chlorobenzene	Not detected	0.4	0.21	ug/L	9/27/2007	9/27/2007
BLANK	Chloroethane	Not detected	1.0	0.21	ug/L	9/27/2007	9/27/2007
BLANK	Chloroform	Not detected	0.3	0.07	ug/L	9/27/2007	9/27/2007
BLANK	Chloromethane	Not detected	1.3	0.31	ug/L	9/27/2007	9/27/2007

J = Estimated value.

Quant Method: H826AW.M
Run #: 0926H20
Instrument: Hewey
Sequence: H070926
Initials: DG

GC SC-Blank-REG MDLs
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Method Blank
EPA 8260B - AFCEE 3.0 (Water)

Blank Name/QCG: 070927W-67481 - 116434
Batch ID: \$826AW-070926AH

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	Cis-1,2-DCE	Not detected	1.2	0.16	ug/L	9/27/2007	9/27/2007
BLANK	Cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	9/27/2007	9/27/2007
BLANK	Dibromochloromethane	Not detected	0.5	0.19	ug/L	9/27/2007	9/27/2007
BLANK	Dibromomethane	Not detected	2.4	0.20	ug/L	9/27/2007	9/27/2007
BLANK	Dichlorodifluoromethane	Not detected	1.0	0.19	ug/L	9/27/2007	9/27/2007
BLANK	Ethylbenzene	Not detected	0.6	0.23	ug/L	9/27/2007	9/27/2007
BLANK	Hexachlorobutadiene	0.45 J	1.1	0.19	ug/L	9/27/2007	9/27/2007
BLANK	Isopropylbenzene	Not detected	0.5	0.16	ug/L	9/27/2007	9/27/2007
BLANK	m&p-Xylene	Not detected	0.5	0.40	ug/L	9/27/2007	9/27/2007
BLANK	Methylene chloride	Not detected	1.0	0.35	ug/L	9/27/2007	9/27/2007
BLANK	n-Butylbenzene	0.36 J	1.1	0.15	ug/L	9/27/2007	9/27/2007
BLANK	n-Propylbenzene	0.21 J	0.4	0.21	ug/L	9/27/2007	9/27/2007
BLANK	Naphthalene	Not detected	0.4	0.36	ug/L	9/27/2007	9/27/2007
BLANK	o-Xylene	Not detected	1.1	0.19	ug/L	9/27/2007	9/27/2007
BLANK	p-Isopropyltoluene	0.23 J	1.2	0.12	ug/L	9/27/2007	9/27/2007
BLANK	Sec-Butylbenzene	0.14 J	1.3	0.12	ug/L	9/27/2007	9/27/2007
BLANK	Styrene	Not detected	0.4	0.25	ug/L	9/27/2007	9/27/2007
BLANK	TCE	Not detected	1.0	0.16	ug/L	9/27/2007	9/27/2007
BLANK	Tert-Butylbenzene	Not detected	1.4	0.13	ug/L	9/27/2007	9/27/2007
BLANK	Tetrachloroethene	Not detected	1.4	0.15	ug/L	9/27/2007	9/27/2007
BLANK	Toluene	Not detected	1.1	0.17	ug/L	9/27/2007	9/27/2007
BLANK	Trans-1,2-DCE	Not detected	0.6	0.19	ug/L	9/27/2007	9/27/2007
BLANK	Trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	9/27/2007	9/27/2007
BLANK	Trichlorofluoromethane	Not detected	0.8	0.24	ug/L	9/27/2007	9/27/2007
BLANK	Vinyl chloride	Not detected	1.1	0.23	ug/L	9/27/2007	9/27/2007
BLANK	Surrogate recovery: 1,2-DCA-D4	98.5	69-139		%	9/27/2007	9/27/2007
BLANK	Surrogate recovery: 4-Bromofluorobenz	88.5	75-125		%	9/27/2007	9/27/2007
BLANK	Surrogate recovery: Dibromofluorometh	89.1	75-125		%	9/27/2007	9/27/2007
BLANK	Surrogate recovery: Toluene-D8	96.3	75-125		%	9/27/2007	9/27/2007

J = Estimated value.

Quant Method: H826AW.M
Run #: 0926H20
Instrument: Hewey
Sequence: H070926
Initials: DG

GC SC-Blank-REG MDLs
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Method Blank
EPA 8260B - AFCEE 3.0 (Water)

Blank Name/QCG: 071002W-67478 - 116523
Batch ID: \$826AW-071002AM

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	Cis-1,2-DCE	Not detected	1.2	0.16	ug/L	10/2/2007	10/2/2007
BLANK	TCE	Not detected	1.0	0.16	ug/L	10/2/2007	10/2/2007
BLANK	Tetrachloroethene	Not detected	1.4	0.15	ug/L	10/2/2007	10/2/2007
BLANK	Surrogate recovery: 1,2-DCA-D4	96.1	69-139		%	10/2/2007	10/2/2007
BLANK	Surrogate recovery: 4-Bromofluorobenz	97.8	75-125		%	10/2/2007	10/2/2007
BLANK	Surrogate recovery: Dibromofluorometh	98.9	75-125		%	10/2/2007	10/2/2007
BLANK	Surrogate recovery: Toluene-D8	102	75-125		%	10/2/2007	10/2/2007

Quant Method: M826AW.M
Run #: 1002M06
Instrument: Max
Sequence: M071001
Initials: ND

GC SC-Blank-REG MDLs
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Laboratory Control Spike Recoveries

EPA 8260B - AFCEE 3.0 (Water)

APPL ID: 071001W-67477 LCS - 116436
 Batch ID: \$826AW-071001AM

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,1,1,2-Tetrachloroethane	10.00	10.5	10.3	105	103	72-125	1.9	20
1,1,1-TCA	10.00	10.2	9.68	102	96.8	75-125	5.2	20
1,1,2,2-Tetrachloroethane	10.00	9.11	9.67	91.1	96.7	74-125	6.0	20
1,1,2-TCA	10.00	10.5	10.0	105	100	75-127	4.9	20
1,1-DCA	10.00	10.7	9.90	107	99.0	75-125	7.8	20
1,1-DCE	10.00	10.8	9.92	108	99.2	75-125	8.5	20
1,1-Dichloropropene	10.00	10.9	10.5	109	105	75-125	3.7	20
1,2,3-Trichlorobenzene	10.00	10.2	9.94	102	99.4	75-137	2.6	20
1,2,3-Trichloropropane	10.00	10.2	10.1	102	101	75-125	0.99	20
1,2,4-Trichlorobenzene	10.00	9.54	9.28	95.4	92.8	75-135	2.8	20
1,2,4-Trimethylbenzene	10.00	10.1	9.84	101	98.4	75-125	2.6	20
1,2-DCA	10.00	10.7	10.1	107	101	68-127	5.8	20
1,2-DCB	10.00	9.54	9.59	95.4	95.9	75-125	0.52	20
1,2-Dibromo-3-chloropropane	10.00	7.93	8.68	79.3	86.8	59-125	9.0	20
1,2-Dichloropropane	10.00	10.4	9.81	104	98.1	70-125	5.8	20
1,2-EDB	10.00	10.3	9.96	103	99.6	75-125	3.4	20
1,3,5-Trimethylbenzene	10.00	10.5	10.4	105	104	72-112	0.96	20
1,3-DCB	10.00	9.75	9.55	97.5	95.5	75-125	2.1	20
1,3-Dichloropropane	10.00	10.5	10.1	105	101	75-125	3.9	20
1,4-DCB	10.00	10.4	10.1	104	101	75-125	2.9	20
1-Chlorohexane	10.00	10.5	9.61	105	96.1	75-125	8.9	20
2,2-Dichloropropane	10.00	10.2	9.47	102	94.7	75-125	7.4	20
2-Chlorotoluene	10.00	10.5	9.94	105	99.4	73-125	5.5	20
4-Chlorotoluene	10.00	10.4	10.3	104	103	74-125	0.97	20

Comments:

Primary	SPK	DUP
Quant Method :	M826AW.M	M826AW.M
Extraction Date :	10/1/2007	10/1/2007
Analysis Date :	10/1/2007	10/1/2007
Instrument :	Max	Max
Run :	1001M03	1001M04
Initials :	DG	

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 APPL Standard LCSD

Laboratory Control Spike Recoveries
EPA 8260B - AFCEE 3.0 (Water)

APPL ID: 071001W-67477 LCS - 116436
 Batch ID: \$826AW-071001AM

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
Benzene	10.00	10.6	9.96	106	99.6	75-125	6.2	20
Bromobenzene	10.00	9.90	9.83	99.0	98.3	75-125	0.71	20
Bromochloromethane	10.00	9.97	9.55	99.7	95.5	73-125	4.3	20
Bromodichloromethane	10.00	10.2	10.0	102	100	75-125	2.0	20
Bromoform	10.00	9.78	9.51	97.8	95.1	75-125	2.8	20
Bromomethane	10.00	9.76	8.62	97.6	86.2	72-125	12.4	20
Carbon tetrachloride	10.00	10.1	9.62	101	96.2	62-125	4.9	20
Chlorobenzene	10.00	10.5	9.77	105	97.7	75-125	7.2	20
Chloroethane	10.00	9.84	9.06	98.4	90.6	65-125	8.3	20
Chloroform	10.00	10.7	9.93	107	99.3	74-125	7.5	20
Chloromethane	10.00	9.91	8.79	99.1	87.9	75-125	12.0	20
Cis-1,2-DCE	10.00	10.8	9.95	108	99.5	75-125	8.2	20
Cis-1,3-Dichloropropene	10.00	10.5	10.3	105	103	74-125	1.9	20
Dibromochloromethane	10.00	10.3	10.3	103	103	73-125	0.0	20
Dibromomethane	10.00	11.1	10.7	111	107	69-127	3.7	20
Dichlorodifluoromethane	10.00	10.5	8.91	105	89.1	72-125	16.4	20
Ethylbenzene	10.00	10.4	9.41	104	94.1	75-125	10.0	20
Hexachlorobutadiene	10.00	10.2	9.87	102	98.7	75-125	3.3	20
Isopropylbenzene	10.00	9.86	9.75	98.6	97.5	75-125	1.1	20
m&p-Xylene	20.0	21.8	19.6	109	98.0	75-125	10.6	20
Methylene chloride	10.00	10.0	9.17	100	91.7	75-125	8.7	20
n-Butylbenzene	10.00	10.4	10.3	104	103	75-125	0.97	20
n-Propylbenzene	10.00	10.3	10.1	103	101	75-125	2.0	20
Naphthalene	10.00	9.68	9.49	96.8	94.9	75-125	2.0	20

Comments:

Primary	SPK	DUP
Quant Method :	M826AW.M	M826AW.M
Extraction Date :	10/1/2007	10/1/2007
Analysis Date :	10/1/2007	10/1/2007
Instrument :	Max	Max
Run :	1001M03	1001M04
Initials :	DG	

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 APPL Standard LCSD

Laboratory Control Spike Recoveries
EPA 8260B - AFCEE 3.0 (Water)

APPL ID: 071001W-67477 LCS - 116436
 Batch ID: \$826AW-071001AM

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
o-Xylene	10.00	10.7	9.61	107	96.1	75-125	10.7	20
p-Isopropyltoluene	10.00	10.1	9.82	101	98.2	75-125	2.8	20
Sec-Butylbenzene	10.00	10.0	9.77	100	97.7	75-125	2.3	20
Styrene	10.00	10.9	9.90	109	99.0	75-125	9.6	20
TCE	10.00	10.9	10.3	109	103	71-125	5.7	20
Tert-Butylbenzene	10.00	10.2	9.86	102	98.6	75-125	3.4	20
Tetrachloroethene	10.00	10.8	10.0	108	100	71-125	7.7	20
Toluene	10.00	10.1	9.30	101	93.0	74-125	8.2	20
Trans-1,2-DCE	10.00	10.6	9.73	106	97.3	75-125	8.6	20
Trans-1,3-Dichloropropene	10.00	10.2	9.86	102	98.6	66-125	3.4	20
Trichlorofluoromethane	10.00	11.8	10.4	118	104	67-125	12.6	20
Vinyl chloride	10.00	11.2	10.4	112	104	46-134	7.4	20

1,2-DCA-D4(S)	23.2	24.4	22.7	105	97.7	69-139		
4-Bromofluorobenzene(S)	21.6	23.1	21.5	107	99.7	75-125		
Dibromofluoromethane(S)	23.2	25.6	24.6	110	106	75-125		
Toluene-D8(S)	24.9	25.4	24.9	102	100	75-125		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	M826AW.M	M826AW.M
Extraction Date :	10/1/2007	10/1/2007
Analysis Date :	10/1/2007	10/1/2007
Instrument :	Max	Max
Run :	1001M03	1001M04
Initials :	DG	

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 APPL Standard LCSD

Laboratory Control Spike Recoveries
EPA 8260B - AFCEE 3.0 (Water)

APPL ID: 070926W-67481 LCS - 116434
 Batch ID: \$826AW-070926AH

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,1,1,2-Tetrachloroethane	10.00	10.9	10.4	109	104	72-125	4.7	20
1,1,1-TCA	10.00	10.4	10.0	104	100	75-125	3.9	20
1,1,2,2-Tetrachloroethane	10.00	9.40	9.25	94.0	92.5	74-125	1.6	20
1,1,2-TCA	10.00	10.3	10.4	103	104	75-127	0.97	20
1,1-DCA	10.00	11.0	10.9	110	109	75-125	0.91	20
1,1-DCE	10.00	10.7	10.3	107	103	75-125	3.8	20
1,1-Dichloropropene	10.00	10.0	9.75	100	97.5	75-125	2.5	20
1,2,3-Trichlorobenzene	10.00	10.2	10.0	102	100	75-137	2.0	20
1,2,3-Trichloropropane	10.00	9.05	10.1	90.5	101	75-125	11.0	20
1,2,4-Trichlorobenzene	10.00	10.2	10.0	102	100	75-135	2.0	20
1,2,4-Trimethylbenzene	10.00	9.82	10.2	98.2	102	75-125	3.8	20
1,2-DCA	10.00	10.4	10.6	104	106	68-127	1.9	20
1,2-DCB	10.00	10.0	10.3	100	103	75-125	3.0	20
1,2-Dibromo-3-chloropropane	10.00	9.53	9.86	95.3	98.6	59-125	3.4	20
1,2-Dichloropropane	10.00	10.5	10.7	105	107	70-125	1.9	20
1,2-EDB	10.00	10.4	9.93	104	99.3	75-125	4.6	20
1,3,5-Trimethylbenzene	10.00	11.7	10.5	117 #	105	72-112	10.8	20
1,3-DCB	10.00	10.7	10.5	107	105	75-125	1.9	20
1,3-Dichloropropane	10.00	10.9	10.3	109	103	75-125	5.7	20
1,4-DCB	10.00	11.7	11.5	117	115	75-125	1.7	20
1-Chlorohexane	10.00	10.1	9.29	101	92.9	75-125	8.4	20
2-Chlorotoluene	10.00	10.1	10.2	101	102	73-125	0.99	20
4-Chlorotoluene	10.00	11.3	11.4	113	114	74-125	0.88	20
Benzene	10.00	10.4	10.2	104	102	75-125	1.9	20

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	H826AW.M	H826AW.M
Extraction Date :	9/26/2007	9/27/2007
Analysis Date :	9/26/2007	9/27/2007
Instrument :	Hewey	Hewey
Run :	0926H15	0926H16
Initials :	DG	

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 APPL Standard LCSD

Laboratory Control Spike Recoveries

EPA 8260B - AFCEE 3.0 (Water)

APPL ID: 070926W-67481 LCS - 116434
 Batch ID: \$826AW-070926AH

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
Bromobenzene	10.00	10.2	10.3	102	103	75-125	0.98	20
Bromochloromethane	10.00	10.2	10.0	102	100	73-125	2.0	20
Bromodichloromethane	10.00	11.1	10.9	111	109	75-125	1.8	20
Bromoform	10.00	10.7	10.0	107	100	75-125	6.8	20
Bromomethane	10.00	10.1	10.1	101	101	72-125	0.0	20
Carbon tetrachloride	10.00	9.95	9.81	99.5	98.1	62-125	1.4	20
Chlorobenzene	10.00	10.5	10.3	105	103	75-125	1.9	20
Chloroethane	10.00	10.2	9.68	102	96.8	65-125	5.2	20
Chloroform	10.00	10.5	10.7	105	107	74-125	1.9	20
Chloromethane	10.00	10.6	10.3	106	103	75-125	2.9	20
Cis-1,2-DCE	10.00	10.3	10.3	103	103	75-125	0.0	20
Cis-1,3-Dichloropropene	10.00	11.2	10.8	112	108	74-125	3.6	20
Dibromochloromethane	10.00	11.5	10.7	115	107	73-125	7.2	20
Dibromomethane	10.00	9.52	9.92	95.2	99.2	69-127	4.1	20
Dichlorodifluoromethane	10.00	10.7	10.3	107	103	72-125	3.8	20
Ethylbenzene	10.00	10.5	9.83	105	98.3	75-125	6.6	20
Hexachlorobutadiene	10.00	10.8	11.3	108	113	75-125	4.5	20
Isopropylbenzene	10.00	10.0	10.1	100	101	75-125	1.00	20
m&p-Xylene	20.0	21.0	19.9	105	99.5	75-125	5.4	20
Methylene chloride	10.00	11.2	11.2	112	112	75-125	0.0	20
n-Butylbenzene	10.00	11.2	11.5	112	115	75-125	2.6	20
n-Propylbenzene	10.00	11.2	11.2	112	112	75-125	0.0	20
Naphthalene	10.00	9.75	10.1	97.5	101	75-125	3.5	20
o-Xylene	10.00	11.0	10.1	110	101	75-125	8.5	20

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	H826AW.M	H826AW.M
Extraction Date :	9/26/2007	9/27/2007
Analysis Date :	9/26/2007	9/27/2007
Instrument :	Hewey	Hewey
Run :	0926H15	0926H16
Initials :	DG	

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 APPL Standard LCSD

Laboratory Control Spike Recoveries
EPA 8260B - AFCEE 3.0 (Water)

APPL ID: 070926W-67481 LCS - 116434
 Batch ID: \$826AW-070926AH

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
p-Isopropyltoluene	10.00	10.1	9.76	101	97.6	75-125	3.4	20
Sec-Butylbenzene	10.00	10.9	10.9	109	109	75-125	0.0	20
Styrene	10.00	10.8	10.1	108	101	75-125	6.7	20
TCE	10.00	10.3	10.1	103	101	71-125	2.0	20
Tert-Butylbenzene	10.00	10.9	10.8	109	108	75-125	0.92	20
Tetrachloroethene	10.00	10.2	9.44	102	94.4	71-125	7.7	20
Toluene	10.00	10.3	10.4	103	104	74-125	0.97	20
Trans-1,2-DCE	10.00	10.7	10.2	107	102	75-125	4.8	20
Trans-1,3-Dichloropropene	10.00	10.9	11.2	109	112	66-125	2.7	20
Trichlorofluoromethane	10.00	10.2	10.2	102	102	67-125	0.0	20
Vinyl chloride	10.00	9.46	9.15	94.6	91.5	46-134	3.3	20

1,2-DCA-D4(S)	21.8	20.4	20.4	93.8	93.8	69-139		
4-Bromofluorobenzene(S)	23.5	20.5	20.3	87.2	86.4	75-125		
Dibromofluoromethane(S)	21.9	20.5	21.0	93.7	96.0	75-125		
Toluene-D8(S)	23.9	22.4	21.5	93.7	89.9	75-125		

= Recovery is outside QC limits.

Comments: _____

Primary	SPK	DUP
Quant Method :	H826AW.M	H826AW.M
Extraction Date :	9/26/2007	9/27/2007
Analysis Date :	9/26/2007	9/27/2007
Instrument :	Hewey	Hewey
Run :	0926H15	0926H16
Initials :	DG	

Printed: 10/2/2007 3:51:56 PM
 APPL Standard LCSD

Laboratory Control Spike Recovery
EPA 8260B - AFCEE 3.0 (Water)

APPL ID: 071002W-67478 LCS - 116523
 Batch ID: \$826AW-071002AM

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
Cis-1,2-DCE	10.00	10.7	107	75-125
TCE	10.00	10.4	104	71-125
Tetrachloroethene	10.00	10.3	103	71-125
<hr/>				
1,2-DCA-D4(S)	23.2	25.1	108	69-139
4-Bromofluorobenzene(S)	21.6	22.6	105	75-125
Dibromofluoromethane(S)	23.2	25.2	109	75-125
Toluene-D8(S)	24.9	24.7	99.4	75-125

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	M826AW.M
Extraction Date :	10/2/2007
Analysis Date :	10/2/2007
Instrument :	Max
Run :	1002M03
Initials :	ND

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APPL Standard LCS

METALS BLANK

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date	QC Group
7470A	Mercury (Hg)	Not detected	0.2	0.06	ug/L	09/21/07	09/24/07	\$HG-070921A-AX67477
6010B	Arsenic (As)	Not detected	5	2.5	ug/L	09/21/07	09/27/07	\$MTL1-070921A-AX67477
6010B	Barium (Ba)	1.1 J	5	0.8	ug/L	09/21/07	09/27/07	\$MTL1-070921A-AX67477
6010B	Cadmium (Cd)	Not detected	5	0.5	ug/L	09/21/07	09/27/07	\$MTL1-070921A-AX67477
6010B	Chromium (Cr)	Not detected	5	1.4	ug/L	09/21/07	09/27/07	\$MTL1-070921A-AX67477
6010B	Copper (Cu)	Not detected	5	1.0	ug/L	09/21/07	09/27/07	\$MTL1-070921A-AX67477
6010B	Lead (Pb)	Not detected	5	1.6	ug/L	09/21/07	09/27/07	\$MTL1-070921A-AX67477
6010B	Manganese (Mn)	1.2 J	5	1.2	ug/L	09/21/07	09/27/07	\$MTL1-070921A-AX67477
6010B	Nickel (Ni)	Not detected	5	0.4	ug/L	09/21/07	09/27/07	\$MTL1-070921A-AX67477
6010B	Zinc (Zn)	13.8 J	50	2.3	ug/L	09/21/07	09/27/07	\$MTL1-070921A-AX67477

J = Estimated value.

Laboratory Control Spike Recoveries

METALS

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Method	Compound Name	Spike Lvl ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 6010B	Arsenic (As)	250	259	256	104	102	1.2	20	80-120	09/21/07	09/27/07	09/21/07	09/27/07	\$MTL1-070921A-AX67477
EPA 6010B	Barium (Ba)	250	271	270	108	108	0.4	20	80-120	09/21/07	09/27/07	09/21/07	09/27/07	\$MTL1-070921A-AX67477
EPA 6010B	Cadmium (Cd)	50.0	52.5	52.3	105	105	0.4	20	80-120	09/21/07	09/27/07	09/21/07	09/27/07	\$MTL1-070921A-AX67477
EPA 6010B	Chromium (Cr)	250	273	271	109	108	0.7	20	80-120	09/21/07	09/27/07	09/21/07	09/27/07	\$MTL1-070921A-AX67477
EPA 6010B	Copper (Cu)	250	263	264	105	106	0.4	20	80-120	09/21/07	09/27/07	09/21/07	09/27/07	\$MTL1-070921A-AX67477
EPA 6010B	Lead (Pb)	250	272	271	109	108	0.4	20	80-120	09/21/07	09/27/07	09/21/07	09/27/07	\$MTL1-070921A-AX67477
EPA 6010B	Manganese (Mn)	250	239	236	95.6	94.4	1.3	20	80-120	09/21/07	09/27/07	09/21/07	09/27/07	\$MTL1-070921A-AX67477
EPA 6010B	Nickel (Ni)	250	268	267	107	107	0.4	20	80-120	09/21/07	09/27/07	09/21/07	09/27/07	\$MTL1-070921A-AX67477
EPA 6010B	Zinc (Zn)	500	544	541	109	108	0.6	20	80-120	09/21/07	09/27/07	09/21/07	09/27/07	\$MTL1-070921A-AX67477
EPA 7470A	Mercury (Hg)	4.00	3.9	4.1	97.5	102	5.0	15	85-115	09/21/07	09/24/07	09/21/07	09/24/07	\$HG-070921A-AX67477

Comments:

WETLAB BLANK

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date	QC Group
EPA 353.2	Nitrate as N	Not detected	0.1	0.03	mg/L	09/19/07	09/19/07	\$353W-070919A-AX67477
EPA 353.2	Nitrite as N	Not detected	0.1	0.01	mg/L	09/19/07	09/19/07	\$353W-070919A-AX67477
EPA376.1	Sulfide	Not detected	5.0	2.53	mg/L	09/19/07	09/19/07	\$37TO6-070919A-AX67425
SM5310B	Dissolved Organic Carbon	Not detected	0.5	0.13	mg/L	09/19/07	09/19/07	\$53D-070919B-AX67477
EPA 9056	Chloride	Not detected	1.0	0.08	mg/L	09/19/07	09/19/07	\$9056-070919A-AX67477
EPA 9056	Sulfate	Not detected	1.0	0.09	mg/L	09/19/07	09/19/07	\$9056-070919A-AX67477
SW846 90	Total Organic Carbon	Not detected	0.5	0.13	mg/L	09/19/07	09/19/07	\$906-070919A-AX67425
EPA310.1	Total Alkalinity	Not detected	2.0	0.02	mg/L	09/19/07	09/19/07	\$310-070919A-AX67477
EPA 160.1	Total Dissolved Solids EPA 16C	Not detected	10	4.4	mg/L	09/19/07	09/19/07	\$TDS-116073-AX67425
SM3500Fe	Ferrous Iron	Not detected	1.0	0.50	mg/L	09/19/07	09/19/07	\$35FE-070919A-AX67480
EPA 9056	Sulfate	Not detected	1.0	0.09	mg/L	09/20/07	09/20/07	\$9056D-070920A-AX67480

*Metals SC-Blank-REG MDLs
Printed: 09/24/07 5:25:33 PM*

Laboratory Control Spike Recoveries
WETLAB DISSOLVED

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 160.1	Total Dissolved Solids EPA	221	239	238	108	108	0.42	20	80-120	09/19/07	09/19/07	09/19/07	09/19/07	\$TDS-116073-AX67425
EPA 353.2	Nitrate as N	4.00	4.09	4.06	102	101	0.74	20	90-110	09/19/07	09/19/07	09/19/07	09/19/07	\$353W-070919A-AX67477
EPA 353.2	Nitrite as N	2.00	2.20	2.20	110	110	0.0	20	90-110	09/19/07	09/19/07	09/19/07	09/19/07	\$353W-070919A-AX67477
EPA 9056	Chloride	25.0	23.8	23.7	95.2	94.8	0.42	20	79-109	09/19/07	09/19/07	09/19/07	09/19/07	\$9056-070919A-AX67477
EPA 9056	Sulfate	25.0	24.2	24.1	96.8	96.4	0.41	20	82-110	09/19/07	09/19/07	09/19/07	09/19/07	\$9056-070919A-AX67477
SM5310B	Dissolved Organic Carbon	10.00	10.5	10.2	105	102	2.9	20	80-120	09/19/07	09/19/07	09/19/07	09/19/07	\$53D-070919B-AX67477
SW846 906	Total Organic Carbon	10.00	10.0	10.0	100	100	0.0	20	90-110	09/19/07	09/19/07	09/19/07	09/19/07	\$906-070919A-AX67425

Comments:

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 4203 West Swift Avenue
 Fresno, CA 93722

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 9056	Sulfate	25.0	24.1	24.2	96.4	96.8	0.41	20	82-110	09/20/07	09/20/07	09/20/07	09/20/07	\$9056D-070920A-AX67480

Comments:

Laboratory Control Spike Recovery

WETLAB

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Method	Compound Name	Spike Level mg/L	SPK Result mg/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA310.1	Total Alkalinity	250	254	102	80-120	09/19/07	09/19/07	\$310-070919A-AX67477
EPA376.1	Sulfide	11.04	8.94	81.0	75-125	09/19/07	09/19/07	\$37TO6-070919A-AX67425

Comments:

Laboratory Control Spike Recovery

WETLAB

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Method	Compound Name	Spike Level mg/L	SPK Result mg/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
SM3500Fe	Ferrous Iron	3.00	3.00	100	80-120	09/19/07	09/19/07	\$35FE-070919A-AX67480

Comments:

Matrix Spike Recoveries

WETLAB

APPL ID: 070919W-67477 MS - 116099

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Sample ID: AX67477

Client ID: CS-WB07-LGR03B

Method	Compound Name	Spike Lvl mg/L	Matrix Res mg/L	SPK Res mg/L	DUP Res mg/L	DUP % Recovery	SPK % Recovery	DUP % Recovery	RPD Max	RPD Limits	Recovery	Extract Date	Extract Date-Dup	Analysis Date	Analysis Date-Dup	QC Group	QC Sample
EPA 9056	Chloride	25	10.0	35.4	35.5	102	102	102	0.28	20	79-109	09/19/07	09/19/07	09/19/07	09/19/07	116099	AX67477
EPA 9056	Sulfate	25	20.3	45.6	45.8	101	101	102	0.44	20	82-110	09/19/07	09/19/07	09/19/07	09/19/07	116099	AX67477
EPA310.1	Total Alkalinity	250	304	557	554	101	101	100	0.54	20	80-120	09/19/07	09/19/07	09/19/07	09/19/07	116076	AX67477

Comments:

Matrix Spike Recovery

WETLAB

APPL Inc.

4203 West Swift Avenue
Fresno, CA 93722

Sample ID: AX67480

Client ID: CS-WB05-LGR03B

Method	Compound Name	Spike Level mg/L	Matrix Result mg/L	SPK Result mg/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group	QC Sample
SM3500Fe	Ferrous Iron	3.00	ND	3.15	105	80-120	09/19/07	09/19/07	\$35FE-070919A	AX67480

Comments:

WETLAB

Sample/Sample Duplicate Results

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Sample ID: AX67477

Client ID: CS-WB07-LGR03B

Attn: Tammy Chang

Project: 744223.11000 CSSA B-3

ARF: 54376

Method	Analyte	Sample ID	Sample		Sample Dup		RPD	Max	MDL	PQL	Units	Sample		Sample Dup		Sample Date	Sample Dup Date	Analysis Date	Sample Dup Analysis Date
			Result	Result	Extract Date	Analysis Date						Extract Date	Analysis Date						
EPA 353.2	Nitrate as N	AX67477	Not detected	Not detected	NA	20	0.03	0.1	mg/L	0.1	0.03	0.1	0.03	0.1	0.03	09/19/07	09/19/07	09/19/07	09/19/07
EPA 353.2	Nitrite as N	AX67477	Not detected	Not detected	NA	20	0.01	0.1	mg/L	0.1	0.01	0.1	0.01	0.1	0.01	09/19/07	09/19/07	09/19/07	09/19/07
EPA 9056	Chloride	AX67477	10.0	10.0	0.0	20	0.08	1.0	mg/L	1.0	0.08	1.0	0.08	1.0	0.08	09/19/07	09/19/07	09/19/07	09/19/07
EPA 9056	Sulfate	AX67477	20.3	20.3	0.0	20	0.09	1.0	mg/L	1.0	0.09	1.0	0.09	1.0	0.09	09/19/07	09/19/07	09/19/07	09/19/07



October 01, 2007

Renee Patterson
APPL Laboratory
4203 West Swift
Fresno, California 93722

TEL: (559) 275-2175

FAX (559) 275-4422

Order No.: 0709144

RE: CSSA B-3

Dear Renee Patterson:

DHL Analytical received 2 sample(s) on 9/19/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read 'John DuPont', written over a horizontal line.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-06-TX

OCT 01 2007

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Camp Stanley Storage Activity Chain Of Custody

091807
 091807
 091807

COC ID: 091807DHHLA
 Project Location: C SSA B-3
 Job Number: 744223.11000
 Creation Date: 9/18/2007

Relinquish Date: 9/18/2007
 Relinquished By: KKC
 Relinquish Time: 6:00 PM
 Collection Team: KRR_AL

Cooler ID: A
 LabCode: DHL
 Carrier: FedEx
 Airbill Carrier: 846328773320

Sampler(s): Ken Rice / KRC
 Eric Thompson

LOGDATE: 9/18/2007
 LOGTIME: 9:30
 SACODE: N
 FLD SAMP ID: CS-WB07-LGR03B_091807_N0930

MATRIX: WG
 SM CODE: WD
 EBL OT: EBL OT

Analysis Required:
 RSK-175 CARBON DIOXIDE
 RSK-175 ETHANE
 RSK-175 M-MENTHANE

Containers: 4

Remarks:

LOGDATE: 9/18/2007
 LOGTIME: 14:30
 SACODE: N
 FLD SAMP ID: CS-WB05-LGR03B_091807_N1430

MATRIX: WG
 SM CODE: WD
 EBL OT: EBL OT

Analysis Required:
 RSK-175 CARBON DIOXIDE
 RSK-175 ETHANE
 RSK-175 M-MENTHANE

Containers: 4

Remarks:

Relinquished by: KRC Date 9/18/07 Time 1800
 Received by: Jed Ex Date 9/18 Time

Relinquished by: Jed Ex Date 9/19 Time 10:30
 Received by: Jed Ex Date 9/19/07 Time 10:30

Relinquished by: _____ Date _____ Time _____
 Received by: _____ Date _____ Time _____

4.0°C #57
 Custody Seal intact



FedEx Tracking Number

8463 2877 3320

1 From This portion can be removed for Recipient's records.

Date 7/8/07 FedEx Tracking Number 846328773320

Sender's Name Ken Ric Phone 312 300 0000

Company CARSONS

Address 2000 CENTRE PARK RD STE 100

City CHICAGO State IL ZIP 60624 Dept./Floor/Suite/Rm 1140

2 Your Internal Billing Reference 7/11/07 3, 1100

3 To Recipient's Name CHICAGO COMPANY Name Phone 312 300 0000

Company CHICAGO COMPANY

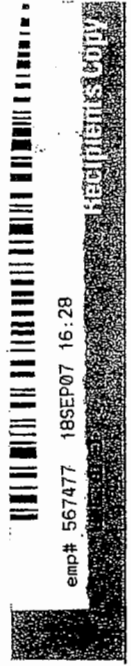
Recipient's Address 2000 CENTRE PARK RD STE 100 Dept./Floor/Suite/Rm

Address: To request package be held at a specific FedEx location, print FedEx address here.

City CHICAGO State IL ZIP 60624



CUSTODY SEAL DATE 7/8/07 SIGNATURE [Signature]



emp# 567477 18SEP07 16:28

Recipient's Copy

4a Express Package Service Packages up to 150 lbs. FedEx Priority Overnight FedEx Standard Overnight FedEx First Overnight

4b Express Freight Service Packages over 150 lbs. FedEx 2Day FedEx Express Saver FedEx 1Day Freight FedEx 2Day Freight

5 Packaging FedEx Envelope FedEx Pak FedEx Tube FedEx Large Pak and FedEx Sure Pak

6 Special Handling SATURDAY Delivery HOLD Saturday at FedEx Location

7 Payment Bill to: Sender Recipient Third Party Credit Card Cash/Check

Total Packages Total Weight Total Charges Credit Card Auth

8 Sign to Authorize Delivery Without a Signature

By Signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

466



800-255-3950 • 304-255-3900

Sample Receipt Checklist

Client Name APPL Laboratory

Date Received: 9/19/2007

Work Order Number 0709144

Received by JB

Checklist completed by: [Signature] 9.19.07
Signature Date

Reviewed by: [Initials] 9/19/07
Initials Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: Some VOAs contain bubbles larger than pea-sized

Corrective Action there are enough VOAs remaining that have zero headspace to run analysis

CLIENT: APPL Laboratory
Project: CSSA B-3
Lab Order: 0709144

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Method RSKERR - Dissolved Gas

LOG IN

Samples were received and log-in performed on 9/19/07. A total of 2 samples were received. Some VOA vials contained headspace. Proceeded with analyses on remaining VOA vials without headspace.

CLIENT: APPL Laboratory
Project: CSSA B-3
Lab Order: 0709144

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0709144-01	CS-WB07-LGR03B	CS-WB07-LGR03B_091807_N0930	09/18/07 09:30 AM	09/19/07
0709144-02	CS-WB05-LGR03B	CS-WB05-LGR03B_091807_N1430	09/18/07 02:30 PM	09/19/07

PREP DATES REPORT

CLIENT: APPL Laboratory
 Project: CSSA B-3
 Lab Order: 0709144

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0709144-01A	CS-WB07-LGR03B	09/18/07 09:30 AM	Aqueous	RSKERR	Dissolved Gas (Methane,Ethane,Ethene)	09/21/07	DGAS-9/21/7A
0709144-02A	CS-WB05-LGR03B	09/18/07 02:30 PM	Aqueous	RSKERR	Dissolved Gas (Methane,Ethane,Ethene)	09/21/07	DGAS-9/21/7A

ANALYTICAL DATES REPORT

CLIENT: APPL Laboratory
 Project: CSSA B-3
 Lab Order: 0709144

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0709144-01A	CS-WB07-LGR03B	Aqueous	RSKERR	Dissolved Gas (Methane,Ethane,Ethene)	DGAS-9/21/7A	1	09/21/07 03:03 PM	GC5_070921A
	CS-WB07-LGR03B	Aqueous	RSKERR	Dissolved Gas (Methane,Ethane,Ethene)	DGAS-9/21/7A	10	09/21/07 03:03 PM	GC5_070921A
0709144-02A	CS-WB05-LGR03B	Aqueous	RSKERR	Dissolved Gas (Methane,Ethane,Ethene)	DGAS-9/21/7A	1	09/21/07 03:03 PM	GC5_070921A
	CS-WB05-LGR03B	Aqueous	RSKERR	Dissolved Gas (Methane,Ethane,Ethene)	DGAS-9/21/7A	10	09/21/07 03:03 PM	GC5_070921A

CLIENT:	APPL Laboratory	Client Sample ID:	CS-WB07-LGR03B
Project:	CSSA B-3	Lab ID:	0709144-01
Project No:	744223.11000	Collection Date:	09/18/07 09:30 AM
Lab Order:	0709144	Matrix:	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Dissolved Gas (Methane,Ethane,Ethene)	RSKERR						Analyst: SCS
Carbon Dioxide	30.5	0.700	5.00		mg/L	10	09/21/07 03:03 PM
Ethane	ND	0.000600	0.00200		mg/L	1	09/21/07 03:03 PM
Ethylene	ND	0.00100	0.00300		mg/L	1	09/21/07 03:03 PM
Methane	0.00962	0.000300	0.00100		mg/L	1	09/21/07 03:03 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 10/01/07

CLIENT:	APPL Laboratory	Client Sample ID:	CS-WB05-LGR03B
Project:	CSSA B-3	Lab ID:	0709144-02
Project No:	744223.11000	Collection Date:	09/18/07 02:30 PM
Lab Order:	0709144	Matrix:	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Dissolved Gas (Methane,Ethane,Ethene)		RSKERR					Analyst: SCS
Carbon Dioxide	23.2	0.700	5.00		mg/L	10	09/21/07 03:03 PM
Ethane	ND	0.000600	0.00200		mg/L	1	09/21/07 03:03 PM
Ethylene	ND	0.00100	0.00300		mg/L	1	09/21/07 03:03 PM
Methane	0.00747	0.000300	0.00100		mg/L	1	09/21/07 03:03 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

CLIENT: APPL Laboratory
 Work Order: 0709144
 Project: CSSA B-3

ANALYTICAL QC SUMMARY REPORT

RunID: GC5_070921A

Sample ID:	LCS-070921	Batch ID:	DGAS-9/21/7A	TestNo:	RSKERR	Units:	mg/L			
SampType:	LCS	Run ID:	GC5_070921A	Analysis Date:	09/21/07 03:03 PM	Prep Date:	09/21/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Methane	0.00526	0.00100	0.005460	0	96.4	79	117			
Ethane	0.00967	0.00200	0.01100	0	87.9	83	120			
Ethylene	0.0134	0.00300	0.01410	0	95.2	84	113			
Carbon Dioxide	2.01	0.500	2.240	0	89.5	72	112			

Sample ID:	LCSD-070921	Batch ID:	DGAS-9/21/7A	TestNo:	RSKERR	Units:	mg/L			
SampType:	LCSD	Run ID:	GC5_070921A	Analysis Date:	09/21/07 03:03 PM	Prep Date:	09/21/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Methane	0.00564	0.00100	0.005460	0	103	79	117	7.01	20	
Ethane	0.0104	0.00200	0.01100	0	94.5	83	120	7.23	20	
Ethylene	0.0122	0.00300	0.01410	0	86.4	84	113	9.69	20	
Carbon Dioxide	2.02	0.500	2.240	0	90.3	72	112	0.845	20	

Sample ID:	MB-070921	Batch ID:	DGAS-9/21/7A	TestNo:	RSKERR	Units:	mg/L			
SampType:	MBLK	Run ID:	GC5_070921A	Analysis Date:	09/21/07 03:03 PM	Prep Date:	09/21/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Methane	ND	0.00100								
Ethane	ND	0.00200								
Ethylene	ND	0.00300								
Carbon Dioxide	ND	0.500								

Sample ID:	0709144-01A DUP	Batch ID:	DGAS-9/21/7A	TestNo:	RSKERR	Units:	mg/L			
SampType:	DUP	Run ID:	GC5_070921A	Analysis Date:	09/21/07 03:03 PM	Prep Date:	09/21/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Methane	0.0116	0.00100	0	0.009623				18.7	20	
Ethane	0	0.00200	0	0				0	20	
Ethylene	0	0.00300	0	0				0	20	
Carbon Dioxide	31.2	5.00	0	30.53				2.01	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: APPL Laboratory
 Work Order: 0709144
 Project: CSSA B-3

ANALYTICAL QC SUMMARY REPORT

RunID: GC5_070921A

Sample ID:	ICV-070921	Batch ID:	GC5_070921A	TestNo:	RSKERR	Units:	ppm			
SampType:	ICV	Run ID:	GC5_070921A	Analysis Date:	09/21/07 03:03 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Methane	0.0000497	0.00100	0.00005000	0	99.4	80	120			
Ethane	0.0000458	0.00200	0.00005000	0	91.6	80	120			
Ethylene	0.0000493	0.00300	0.00005000	0	98.6	80	120			
Carbon Dioxide	0.000891	0.500	0.001000	0	89.1	80	120			

Sample ID:	CCV1-070921	Batch ID:	GC5_070921A	TestNo:	RSKERR	Units:	ppm			
SampType:	CCV	Run ID:	GC5_070921A	Analysis Date:	09/21/07 03:03 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Methane	0.0000249	0.00100	0.00002500	0	99.6	80	120			
Ethane	0.0000227	0.00200	0.00002500	0	90.8	80	120			
Ethylene	0.0000248	0.00300	0.00002500	0	99.2	80	120			
Carbon Dioxide	0.000461	0.500	0.0005000	0	92.1	80	120			

Sample ID:	CCV2-070921	Batch ID:	GC5_070921A	TestNo:	RSKERR	Units:	ppm			
SampType:	CCV	Run ID:	GC5_070921A	Analysis Date:	09/21/07 03:03 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Methane	0.0000249	0.00100	0.00002500	0	99.6	80	120			
Ethane	0.0000229	0.00200	0.00002500	0	91.6	80	120			
Ethylene	0.0000248	0.00300	0.00002500	0	99.2	80	120			
Carbon Dioxide	0.000446	0.500	0.0005000	0	89.2	80	120			

Sample ID:	CCV3-070921	Batch ID:	GC5_070921A	TestNo:	RSKERR	Units:	ppm			
SampType:	CCV	Run ID:	GC5_070921A	Analysis Date:	09/21/07 03:03 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Methane	0.0000245	0.00100	0.00002500	0	98.0	80	120			
Carbon Dioxide	0.000466	0.500	0.0005000	0	93.2	80	120			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

Camp Stanley Storage Activity Chain Of Custody

COC ID: 091807APPPFA
 Project Location: CSSA B-3
 Job Number: 744223.11000
 Creation Date: 9/18/2007

Relinquish Date: 9/18/2007
 Relinquish By: KKC
 Relinquish Time: 6:00 PM
 Collection Team: KRR AL
 Cooler ID: A
 LabCode: APPF
 Carrier: FedEx
 Airbill Carrier: 829223976441

LOCID: CS-WB07-LGR03B
 LOGTIME: 9:30
 SBD: 0
 SED: 0
 Remarks:

Analysis Required:

E160.1	TOTAL DISSOLVED SOL	E300.1	CHLORIDE
E300.1	SULFATE (AS SO4)	E310.1	CARBONATE (AS CO3)
E310.1	BICARBONATE	E353.3	NITRATE
E353.3	NITRITE	E376.1	SULFIDE
E415.1	DISSOLVED ORGANIC	E415.1	TOTAL ORGANIC CARB
SM3500	FERROUS IRON	SW6010B	METALS (TOTALS)
SM6010B	MANGANESE	SW8260B	VOC Full List

LOCID: CS-WB06-LGR03B
 LOGTIME: 11:00
 SBD: 0
 SED: 0
 Remarks:

Analysis Required:

E160.1	TOTAL DISSOLVED SOL	SW8260B	VOC Full List
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LOCID: CS-WB08-LGR03B
 LOGTIME: 13:30
 SBD: 0
 SED: 0
 Remarks:

Analysis Required:

E160.1	TOTAL DISSOLVED SOL	SW8260B	VOC Full List
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LOCID: CS-WB05-LGR03B
 LOGTIME: 14:30
 SBD: 0
 SED: 0
 Remarks:

Analysis Required:

E160.1	TOTAL DISSOLVED SOL	SW8260B	VOC Full List
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Relinquished by: MC Date: 9/18/07 Time: 1:00
 Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____
 Received by: _____ Date: 9/19/07 Time: 1:00