



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

September 12, 2003

U-101-03

Mr. Roger Placencia  
Bexar Metropolitan Water District  
2047 W. Malone  
San Antonio, TX 78257

RE: Sampling of Six Bexar Met Water Wells:

- LS-1, Located at 25415 Brewer Drive;
- LS-2, Located at 25300 Farenthold (#106-WP2);
- LS-3, Located at Farenthold Circle at Danna Marie (#106-WP1);
- LS-4, Located at 24818 Ima Ruth Parkway;
- HS-2, Located at Falcon View at Rocky Hill Road; and
- HS-3, Located at Falcon View at Rocky Hill Road

Dear Mr. Placencia:

Camp Stanley Storage Activity (CSSA) collected groundwater samples from the above wells during June 2003 as set out in the summary tables below. These samples were submitted to a laboratory contracted by CSSA's environmental contractor for volatile organic compound (VOC) analysis. This letter provides you with the VOC data from the laboratory results and a formal thank you for your assistance in this groundwater monitoring effort.

An abbreviated summary of detected VOC compounds compared to maximum contaminant levels (MCLs) allowed in drinking water by the U.S. EPA under the Safe Drinking Water Act is provided below:

Date Sampled	VOC compound	Result (ppb)	MCL (ppb)
Well HS-2, Falcon View at Rocky Hill Road			
6/10/03	Tetrachloroethene (PCE)	0.18F	5
	Trichloroethene (TCE)	<0.05 (non-detect)	5
	<i>cis</i> -1,2-Dichloroethene ( <i>cis</i> -1,2-DCE)	<0.07 (non-detect)	70
Well HS-3, Falcon View at Rocky Hill Road			
6/10/03	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70
Well LS-1, 25415 Brewer Drive			
6/10/03	PCE	0.34F	5
	TCE	0.48F	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70
Well LS-1, 25415 Brewer Drive			
6/10/03 Field Duplicate	PCE	0.39F	5
	TCE	0.47F	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70

Date Sampled	VOC compound	Result (ppb)	MCL (ppb)
Well LS-2, 106-WP2, 25300 Farenthold			
6/10/03	PCE	2.21	5
	TCE	0.38F	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70
Well LS-3, 106-WP1, Farenthold Circle at Danna Marie			
6/9/03	PCE	2.21	5
	TCE	0.51F	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70
Well LS-4, 24818 Ima Ruth Parkway			
6/10/03	PCE	0.20F	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70

\*The "F" flag indicates the value is above the laboratory method detection limit, but below the laboratory reporting limit for the compound.

Based on the analytical data, low levels of the VOCs PCE and TCE were identified in water samples from wells HS-2, LS-1, LS-2, LS-3, and LS-4. Additional detections of chloroform (0.09 µg/L and 0.12 µg/L) occurred in LS-1. Results from the laboratory analysis are provided as an attachment for the events set out in the summary tables above. Although these VOCs are not naturally occurring, they are below the MCL and as such, do not prevent usability of your wells, as you are aware.

VOCs were detected in wells LS-2 and LS-3. A granular activated carbon (GAC) filtration system was installed at wells LS-2 and LS-3 by Carbonair Environmental Systems of San Marcos, Texas in April 2002. CSSA will be responsible for all costs associated with operation and maintenance of this system.

Carbonair performs maintenance on the system at LS-2 and LS-3 as needed. Carbonair will exchange carbon and perform other routine maintenance operations at future scheduled visits. If you experience any problems with the system, please let the installer or CSSA know immediately. Carbonair is very responsive and can make additional maintenance visits if needed.

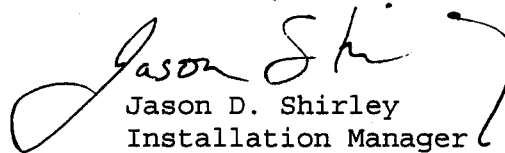
In the past, CSSA has collected a water sample from your wells after being processed through the GAC filter system. Analyses of these samples found levels of VOCs below the drinking water criteria demonstrating that the GAC system is working effectively. CSSA collected a confirmation sample in March 2003 to confirm the system remains effective. Results were provided previously. The next post-GAC sampling event is scheduled for September 2003.

As part of the ongoing CSSA environmental program, we are continuing to investigate and cleanup VOC source areas on the installation and to track these compounds in groundwater on and off-post. As part of this effort, we may contact you in the future to schedule another sampling event for one or more of the wells listed above. When arrangements with the contractors are complete, we will contact you with a proposed sampling date and time. Once we have

arranged a date with you, CSSA will attempt to provide at least 72 hours notice prior to proposed sampling events.

Again, we would like to thank you for your cooperation. If you have any questions concerning this letter, please contact me at 295-7416.

Sincerely,

  
Jason D. Shirley  
Installation Manager

Attachments

cc: Mr. Greg Lyssy, EPA Region 6  
Mr. Sonny Rayos, TCEQ Central Office  
Mr. Tom Haberle, TCEQ Region 13  
Ms. Abigail Power, TCEQ Region 13  
Ms. Kyle Cunningham, San Antonio Metropolitan Health Dist.  
Ms. Julie Burdey, Parsons

AFCEE  
ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 030621A1-64657  
 Lab Name: APPL, Inc      Contract #: F41624-00D-8024-TO0042  
 Field Sample ID: LS-1      Lab Sample ID: AP52062      Matrix: Water  
 % Solids: NA      Initial Calibration ID: C030620  
 Date Received: 11-Jun-03      Date Prepared: 21-Jun-03      Date Analyzed: 21-Jun-03  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		U
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.12	1		F
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1.0	0.11	1		U
Methylene chloride	0.51	1.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.48	1		F
Tetrachloroethene	0.06	1.4	0.34	1		F
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	103	69-139	
4-Bromofluorobenzene(S)	108	75-125	
Dibromofluoromethane(S)	106	75-125	
Toluene-D8(S)	110	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D(IS)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments:

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AFCEE  
ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 030621A1-64657  
 Lab Name: APPL, Inc      Contract #: F41624-00D-8024-TO0042  
 Field Sample ID: LS-1 (DUP)      Lab Sample ID: AP52061      Matrix: Water  
 % Solids: NA      Initial Calibration ID: C030620  
 Date Received: 11-Jun-03      Date Prepared: 21-Jun-03      Date Analyzed: 21-Jun-03  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		U
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.09	1		F
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1.0 x 7c	0.11	1		U
Methylene chloride	0.51	1.0 x 7/14/03	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.47	1		F
Tetrachloroethene	0.06	1.4	0.39	1		F
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	103	69-139	
4-Bromofluorobenzene(S)	105	75-125	
Dibromofluoromethane(S)	104	75-125	
Toluene-D8(S)	104	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D(IS)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments:

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 030621A-64652  
 Lab Name: APPL, Inc      Contract #: F41624-00D-8024-TO0042  
 Field Sample ID: LS-2      Lab Sample ID: AP52055      Matrix: Water  
 % Solids: NA      Initial Calibration ID: N030620  
 Date Received: 11-Jun-03      Date Prepared: 21-Jun-03      Date Analyzed: 21-Jun-03  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		U
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.06	1		U
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1.0	0.11	1		U
Methylene chloride	0.51	1.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.38	1		F
Tetrachloroethene	0.06	1.4	2.21	1		
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	99.8	69-139	
4-Bromofluorobenzene(S)	97.4	75-125	
Dibromofluoromethane(S)	96.8	75-125	
Toluene-D8(S)	95.4	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D(IS)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments:

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 030621A-64652  
 Lab Name: APPL, Inc      Contract #: F41624-00D-8024-TO0042  
 Field Sample ID: LS-3      Lab Sample ID: AP52057      Matrix: Water  
 % Solids: NA      Initial Calibration ID: N030620  
 Date Received: 11-Jun-03      Date Prepared: 21-Jun-03      Date Analyzed: 21-Jun-03  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		U
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.06	1		U
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1.0 X TC	0.11	1		U
Methylene chloride	0.51	1.0 X 7/14/03	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.51	1		F
Tetrachloroethene	0.06	1.4	2.21	1		
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	97.6	69-139	
4-Bromofluorobenzene(S)	90.2	75-125	
Dibromofluoromethane(S)	96.5	75-125	
Toluene-D8(S)	93.5	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D1S	
Chlorobenzene-D5(1S)	
Fluorobenzene(1S)	

Comments:

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 030621A-64652  
 Lab Name: APPL, Inc      Contract #: F41624-00D-8024-TO0042  
 Field Sample ID: LS-4      Lab Sample ID: AP52059      Matrix: Water  
 % Solids: NA      Initial Calibration ID: N030620  
 Date Received: 11-Jun-03      Date Prepared: 21-Jun-03      Date Analyzed: 21-Jun-03  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		U
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.06	1		U
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1.0	0.11	1		U
Methylene chloride	0.51	1.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.05	1		U
Tetrachloroethene	0.06	1.4	0.20	1		F
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	98.5	69-139	
4-Bromofluorobenzene(S)	91.2	75-125	
Dibromofluoromethane(S)	97.0	75-125	
Toluene-D8(S)	90.7	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D(IS)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments:

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 030621A1-64657  
 Lab Name: APPL, Inc      Contract #: F41624-00D-8024-TO0042  
 Field Sample ID: HS-2      Lab Sample ID: AP52065      Matrix: Water  
 % Solids: NA      Initial Calibration ID: C030620  
 Date Received: 11-Jun-03      Date Prepared: 21-Jun-03      Date Analyzed: 21-Jun-03  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		U
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.06	1		U
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1.0	0.11	1		U
Methylene chloride	0.51	1.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.05	1		U
Tetrachloroethene	0.06	1.4	0.18	1		F
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	114	69-139	
4-Bromofluorobenzene(S)	109	75-125	
Dibromofluoromethane(S)	113	75-125	
Toluene-D8(S)	104	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D(IS)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments:

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AFCEE  
ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 030621A-64652  
 Lab Name: APPL, Inc      Contract #: F41624-00D-8024-TO0042  
 Field Sample ID: HS-3      Lab Sample ID: AP52063      Matrix: Water  
 % Solids: NA      Initial Calibration ID: N030620  
 Date Received: 11-Jun-03      Date Prepared: 21-Jun-03      Date Analyzed: 21-Jun-03  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		U
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.06	1		U
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1	0.11	1		U
Methylene chloride	0.51	1	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.05	1		U
Tetrachloroethene	0.06	1.4	0.06	1		U
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	94.2	69-139	
4-Bromofluorobenzene(S)	92.1	75-125	
Dibromofluoromethane(S)	94.5	75-125	
Toluene-D8(S)	94.7	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D(IS)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments: