



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

November 21, 2014

U-009-15

Boerne, TX 78015

SUBJECT: Sampling of Water Wells LS-5 and LS-6, Located at 7655 Curres Creek Road

Dear

Camp Stanley Storage Activity (CSSA) collected groundwater samples from your wells (LS-5 and LS-6) on 9/3/14. 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 analytical results 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 LS-5, located at 7655 Curres Creek Road			
9/3/14	Tetrachloroethene (PCE)	0.88F	5
	Trichloroethene (TCE)	3.14	5
	<i>cis</i> -1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70
Well LS-6, located at 7655 Curres Creek Road			
9/3/14	Tetrachloroethene (PCE)	0.80F	5
	Trichloroethene (TCE)	3.13	5
	<i>cis</i> -1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70

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

Based on the analytical data, levels of the VOCs TCE and PCE were identified in the water sample from your wells before granular activated carbon (GAC) filtration. Results from the laboratory analyses are provided as an attachment for the above sampling event. These levels are below the applicable MCL and do not affect usability of your well. The concentrations reported in your wells LS-5 and LS-6 were above or approaching the MCL for VOCs in the past. Therefore, filtration systems were installed on each of your wells.

Carbonair Environmental Systems of San Marcos, Texas installed the GAC filtration systems on your wells. The systems will remain in operation for the foreseeable future or until significant reductions in contamination levels are seen in the water in your well before it enters the filtration system. As we discussed at the time of installation, CSSA will continue to be

responsible for all costs associated with operation and maintenance of this system. CSSA will continue to send a representative every three weeks to exchange the five-micron pre-and post-filters in the system.

Carbonair exchanged the first carbon canister and performed other routine maintenance on your systems August 5, 2014. If you experience any problems with the systems, please let the installer or CSSA know immediately. Carbonair is very responsive and can make additional maintenance visits if needed.

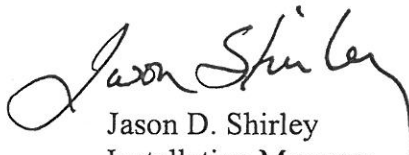
On 9/3/14, CSSA collected samples from your wells LS-5 and LS-6 after the water was processed through the granular activated carbon (GAC) filter system. These samples are representative of the water being delivered to you for daily use. Based on the analytical data, no VOCs related to CSSA's groundwater investigation were identified in the samples after the second carbon canister (A2). A summary of the post-GAC analytical results is provided below. Copies of the laboratory data sheets are attached. CSSA will collect additional confirmation samples on a 6-month basis to confirm the system remains effective.

Date Sampled	VOC compound	Result (ppb)	MCL (ppb)
Well LS-5-A2, located at 7655 Curres Creek Road			
9/3/14	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	<i>cis-1,2-DCE</i>	<0.07 (non-detect)	70
Well LS-6-A2, located at 7655 Curres Creek Road			
9/3/14	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	<i>cis-1,2-DCE</i>	<0.07 (non-detect)	70

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, your well is scheduled to be sampled again in December 2014.

Again, we would like to thank you for your cooperation. We regret that your wells have been impacted, but remain committed to making sure your water is safe to use and keeping you informed. If you have any questions concerning this letter, please contact Gabriel Moreno-Fergusson, Environmental Program Manager, at (210) 295-7014.

Sincerely,

  
Jason D. Shirley  
Installation Manager

Enclosure

cc: Mr. Greg Lyssy, EPA Region 6  
Ms. Amanda Pirani, TCEQ Central Office  
Mr. Jorge Salazar, 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 #: 140912AL-189914  
 Lab Name: APPL, Inc      Contract #: \*G012  
 Field Sample ID: LS-5      Lab Sample ID: AZ02199      Matrix: Water  
 % Solids: NA      Initial Calibration ID: 140909  
 Date Received: 06-Sep-14      Date Prepared: 12-Sep-14      Date Analyzed: 12-Sep-14  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
CIS-1,2-DCE	0.07	1.2	0.07	1		U
TCE	0.05	1.0	3.14	1		
TETRACHLOROETHENE	0.06	1.4	0.88	1		F
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
SURROGATE: 1,2-DICHLOROETHANE-	107	69-139	
SURROGATE: 4-BROMOFLUOROBENZ	96.8	75-125	
SURROGATE: DIBROMOFLUOROMETH	107	75-125	
SURROGATE: TOLUENE-D8 (S)	99.5	75-125	

Internal Std	Qualifier
1,4-DICHLOROBENZENE-D4 (IS)	
CHLOROBENZENE-D5 (IS)	
FLUOROBENZENE (IS)	

Comments:

ARF: 74230

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 140912AL-189914  
 Lab Name: APPL, Inc      Contract #: \*G012  
 Field Sample ID: LS-5-A2      Lab Sample ID: AZ02200      Matrix: Water  
 % Solids: NA      Initial Calibration ID: 140909  
 Date Received: 06-Sep-14      Date Prepared: 12-Sep-14      Date Analyzed: 12-Sep-14  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
CIS-1,2-DCE	0.07	1.2	0.07	1		U
TCE	0.05	1.0	0.05	1		U
TETRACHLOROETHENE	0.06	1.4	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
SURROGATE: 1,2-DICHLOROETHANE-	109	69-139	
SURROGATE: 4-BROMOFLUOROBENZ	96.9	75-125	
SURROGATE: DIBROMOFLUOROMETH	107	75-125	
SURROGATE: TOLUENE-D8 (S)	99.1	75-125	

Internal Std	Qualifier
1,4-DICHLOROBENZENE-D4 (IS)	
CHLOROBENZENE-D5 (IS)	
FLUOROBENZENE (IS)	

Comments:

ARF: 74230

AFCEE FORM O-2

AFCEE  
ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 140912AL-189914  
 Lab Name: APPL, Inc      Contract #: \*G012  
 Field Sample ID: LS-6      Lab Sample ID: AZ02197      Matrix: Water  
 % Solids: NA      Initial Calibration ID: 140909  
 Date Received: 06-Sep-14      Date Prepared: 12-Sep-14      Date Analyzed: 12-Sep-14  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
CIS-1,2-DCE	0.07	1.2	0.07	1		U
TCE	0.05	1.0	3.13	1		
TETRACHLOROETHENE	0.06	1.4	0.80	1		F
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
SURROGATE: 1,2-DICHLOROETHANE-	108	69-139	
SURROGATE: 4-BROMOFLUOROBENZ	97.2	75-125	
SURROGATE: DIBROMOFLUOROMETH	107	75-125	
SURROGATE: TOLUENE-D8 (S)	98.5	75-125	

Internal Std	Qualifier
1,4-DICHLOROBENZENE-D4 (IS)	
CHLOROBENZENE-D5 (IS)	
FLUOROBENZENE (IS)	

Comments:

ARF: 74230

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 140912AL-189914  
 Lab Name: APPL, Inc      Contract #: \*G012  
 Field Sample ID: LS-6-A2      Lab Sample ID: AZ02198      Matrix: Water  
 % Solids: NA      Initial Calibration ID: 140909  
 Date Received: 06-Sep-14      Date Prepared: 12-Sep-14      Date Analyzed: 12-Sep-14  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
CIS-1,2-DCE	0.07	1.2	0.07	1		U
TCE	0.05	1.0	0.05	1		U
TETRACHLOROETHENE	0.06	1.4	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
SURROGATE: 1,2-DICHLOROETHANE-	111	69-139	
SURROGATE: 4-BROMOFLUOROBENZ	95.0	75-125	
SURROGATE: DIBROMOFLUOROMETH	108	75-125	
SURROGATE: TOLUENE-D8 (S)	97.3	75-125	

Internal Std	Qualifier
1,4-DICHLOROBENZENE-D4 (IS)	
CHLOROBENZENE-D5 (IS)	
FLUOROBENZENE (IS)	

Comments:

ARF: 74230

**Qualifiers for laboratory data report:**

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

F - Indicates the value is above the laboratory method detection limit, but below the laboratory reporting limit for the compound.

**Abbreviations:**

MDL – method detection limit

RL – reporting limit

DCE – Dichloroethene

TCE – Trichloroethene