



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

November 6, 2020

U-063-20

SUBJECT: Sampling of Water Wells LS-5, Located at 7579 Curres Creek Road and LS-6, Located at 7655 Curres Creek Road

[REDACTED]
Boerne, TX 78015

Dear [REDACTED],

Camp Stanley Storage Activity (CSSA) collected groundwater samples from your wells (LS-5 and LS-6) on 9/8/20 and 10/14/20. 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, serves 7655 & 7579 Curres Creek Road			
9/8/20	Tetrachloroethene (PCE)	<0.06 (non-detect)	5
	Trichloroethene (TCE)	3.57	5
	<i>cis</i> -1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70
Well LS-6, serves 7655 Curres Creek Road			
9/8/20	Tetrachloroethene (PCE)	1.07F	5
	Trichloroethene (TCE)	1.66	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 PCE and/or TCE were identified in the water samples from your wells LS-5 and LS-6 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 MCLs and do not affect usability of your wells. The concentrations reported in your wells LS-5 and LS-6

were above or approaching the MCL for VOCs in the past. Therefore, a filtration system was installed on each well.

Evoqua Water Technologies of Houston, Texas provides maintenance for 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 these systems. CSSA will continue to send a representative every three weeks to exchange the five-micron pre- and post-filters in the system.

Evoqua exchanged the first carbon canister and performed other routine maintenance on your systems October 13, 2020. If you experience any problems with the systems, please let the installer or CSSA know immediately. Evoqua is very responsive and can make additional maintenance visits if needed.

On 9/8/20, CSSA collected samples from your wells LS-5 and LS-6 after the water was processed through the granular activated carbon (GAC) filter systems. Additional samples were collected 10/14/20 after Evoqua performed the carbon exchange service on 10/13/20. 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 canisters (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 systems remain effective.

Date Sample	VOC compound	Result (ppb)	MCL (ppb)
LS-5-A2, serves 7655 & 7579 Curres Creek Road			
9/8/20	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70
LS-6-A2, serves 7655 Curres Creek Road			
9/8/20	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70
LS-5-A2, serves 7655 & 7579 Curres Creek Road			
10/14/20	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70
LS-6-A2, serves 7655 Curres Creek Road			
10/14/20	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-DCE	<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 wells are scheduled to be sampled again in December 2020.

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 Margarita Loya, Environmental Program Manager, at (210) 295-7067.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Glenn Moore".

T. Glenn Moore
Installation Manager

Enclosure

cc: Mr. Greg Lyssy, EPA Region 6
Mr. Timothy Brown, TCEQ Central Office
Mr. Jorge Salazar, TCEQ Region 13
Ms. Kyle Cunningham, San Antonio Metropolitan Health Dist.
Ms. Julie Burdey, Parsons

APPL
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 200911BZ-257123
 Lab Name: APPL, Inc Contract #: *G012
 Field Sample ID: LS-5 Lab Sample ID: BA17927 Matrix: Water
 % Solids: NA
 Date Received: 10-Sep-20 Date Prepared: 11-Sep-20 Date Analyzed: 11-Sep-20
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
CIS-1,2-DCE	0.07	1.2	0.07	1		U
TCE	0.05	1.0	3.57	1		
TETRACHLOROETHENE	0.06	1.4	0.06	1		U
VINYL CHLORIDE	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	114	69-139	
SURROGATE: 4-BROMOFLUOROBENZE	92.5	75-125	
SURROGATE: DIBROMOFLUOROMETH	99.8	75-125	
SURROGATE: TOLUENE-D8 (S)	107	75-125	

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

Comments:

ARF: 93297

APPL FORM O-2

APPL
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 200911BZ-257123

Lab Name: APPL, Inc Contract #: *G012

Field Sample ID: LS-5-A2 Lab Sample ID: BA17928 Matrix: Water

% Solids: NA

Date Received: 10-Sep-20

Date Prepared: 11-Sep-20

Date Analyzed: 11-Sep-20

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
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
VINYL CHLORIDE	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	114	69-139	
SURROGATE: 4-BROMOFLUOROBENZE	92.9	75-125	
SURROGATE: DIBROMOFLUOROMETH	100	75-125	
SURROGATE: TOLUENE-D8 (S)	110	75-125	

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

Comments:

ARF: 93297

APPL FORM O-2

APPL
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 200911BZ-257123
Lab Name: APPL, Inc Contract #: *G012
Field Sample ID: LS-6 Lab Sample ID: BA17929 Matrix: Water
% Solids: NA

Date Received: 10-Sep-20 Date Prepared: 11-Sep-20 Date Analyzed: 11-Sep-20
Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
CIS-1,2-DCE	0.07	1.2	0.07	1		U
TCE	0.05	1.0	1.66	1		
TETRACHLOROETHENE	0.06	1.4	1.07	1		F
VINYL CHLORIDE	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	115	69-139	
SURROGATE: 4-BROMOFLUOROBENZE	92.2	75-125	
SURROGATE: DIBROMOFLUOROMETH	99.3	75-125	
SURROGATE: TOLUENE-D8 (S)	109	75-125	

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

Comments:

ARF: 93297

APPL FORM O-2

APPL
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 200911BZ-257123

Lab Name: APPL, Inc Contract #: *G012

Field Sample ID: LS-6-A2 Lab Sample ID: BA17930 Matrix: Water

% Solids: NA

Date Received: 10-Sep-20

Date Prepared: 12-Sep-20

Date Analyzed: 12-Sep-20

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
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
VINYL CHLORIDE	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	111	69-139	
SURROGATE: 4-BROMOFLUOROBENZE	91.2	75-125	
SURROGATE: DIBROMOFLUOROMETH	98.6	75-125	
SURROGATE: TOLUENE-D8 (S)	108	75-125	

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

Comments:

ARF: 93297

APPL FORM O-2

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 201017AM-257600
 Lab Name: APPL, Inc Contract #: *G012
 Field Sample ID: LS-5-A2 Lab Sample ID: BA20175 Matrix: Water
 % Solids: NA Initial Calibration ID: 201016
 Date Received: 15-Oct-20 Date Prepared: 17-Oct-20 Date Analyzed: 17-Oct-20
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
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
VINYL CHLORIDE	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	96.2	69-139	
SURROGATE: 4-BROMOFLUOROBENZ	96.7	75-125	
SURROGATE: DIBROMOFLUOROMETH	100	75-125	
SURROGATE: TOLUENE-D8 (S)	98.1	75-125	

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

Comments:

ARF: 93739

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 201017AM-257600
 Lab Name: APPL, Inc Contract #: *G012
 Field Sample ID: LS-6-A2 Lab Sample ID: BA20176 Matrix: Water
 % Solids: NA Initial Calibration ID: 201016
 Date Received: 15-Oct-20 Date Prepared: 17-Oct-20 Date Analyzed: 17-Oct-20
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
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
VINYL CHLORIDE	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	97.1	69-139	
SURROGATE: 4-BROMOFLUOROBENZ	98.1	75-125	
SURROGATE: DIBROMOFLUOROMETH	101	75-125	
SURROGATE: TOLUENE-D8 (S)	98.9	75-125	

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

Comments:

ARF: 93739