



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

May 23, 2003

U-073-03

RE: Sampling of Water Wells, LS-5,
LS-6,

Dear Ms. Sunah:

Camp Stanley Storage Activity (CSSA) collected groundwater samples from your well (LS-5) on 3/12/03. 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 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 LS-5,			
3/12/03	Tetrachloroethene (PCE)	<0.06 (non-detect)	5
	Trichloroethene (TCE)	0.19F	5
	cis-1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70
Well LS-5,			
3/12/03 Field Duplicate	PCE	0.08F	5
	TCE	0.21F	5
	DCE	<0.07 (non-detect)	70
Well LS-6,			
3/12/03	PCE	4.19	5
	TCE	0.21F	5
	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 your well LS-5. Additionally, toluene was identified at a low level (0.17F ppb) in the sample from LS-6. This level is below the applicable MCL for toluene in drinking water (1,000 ppb) and as such, does not prevent usability of your well. Results from the laboratory analysis are provided as an attachment for the above sampling events. The concentrations reported



for these VOCs approached or exceeded the MCL in the past at LS-6. Therefore, a filtration system was installed on well LS-6.

As reported previously, the filtration system was installed August 2001, by Carbonair Environmental Systems of San Marcos, Texas. The system 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 be responsible for all costs associated with operation and maintenance of this system. CSSA will send a representative on a monthly basis to exchange the five-micron pre-and post-filters in the system.

Carbonair performed maintenance on the system in February 2003. Maintenance will be scheduled approximately every six months. Carbonair will exchange the first carbon canister and perform other routine maintenance operations at each six month visit. 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.

On 3/12/03, CSSA collected a water sample from your well after being processed through the GAC filter system. Analysis of this sample found levels of VOCs below the drinking water criteria demonstrating that the system is working effectively. A summary of the post GAC analytical results is provided below, copies of the actual laboratory data sheets are attached. CSSA will collect additional confirmation samples periodically to confirm the system remains effective.

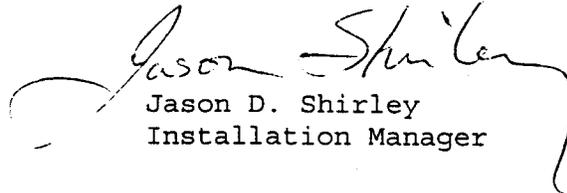
Date Sampled	VOC compound	Result (ppb)	MCL (ppb)
Well LS-6,			
3/12/03, A2, after the 2 nd GAC canister	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	DCE	<0.07 (non-detect)	70

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, we may contact you in the future to schedule another sampling event for 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. We regret that your well has 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 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. Henry Karnei, 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 #: 030316AM-60658
 Lab Name: APPL, Inc Contract #: F41624-00D-8024-TO0042
 Field Sample ID: LS-5 Lab Sample ID: AP47326 Matrix: Water
 % Solids: NA Initial Calibration ID: M030315
 Date Received: 13-Mar-03 Date Prepared: 16-Mar-03 Date Analyzed: 16-Mar-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	0.8	0.07	1		U
TCE	0.05	1.0	0.19	1		F
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)	95.7	62-139	
4-Bromofluorobenzene(S)	98.0	75-125	
Dibromofluoromethane(S)	94.5	75-125	
Toluene-D8(S)	97.5	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 #: 030316AM-60658
 Lab Name: APPL, Inc Contract #: F41624-00D-8024-TO0042
 Field Sample ID: LS-5 DUP Lab Sample ID: AP47325 Matrix: Water
 % Solids: NA Initial Calibration ID: M030315
 Date Received: 13-Mar-03 Date Prepared: 16-Mar-03 Date Analyzed: 16-Mar-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	0.8	0.07	1		U
TCE	0.05	1.0	0.21	1		F
Tetrachloroethene	0.06	1.4	0.08	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)	92.8	62-139	
4-Bromofluorobenzene(S)	98.3	75-125	
Dibromofluoromethane(S)	90.8	75-125	
Toluene-D8(S)	99.0	75-125	

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

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 030316AM-60658
 Lab Name: APPL, Inc Contract #: F41624-00D-8024-TO0042
 Field Sample ID: LS-6 Lab Sample ID: AP47327 Matrix: Water
 % Solids: NA Initial Calibration ID: M030315
 Date Received: 13-Mar-03 Date Prepared: 16-Mar-03 Date Analyzed: 16-Mar-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	0.8	0.07	1		U
TCE	0.05	1.0	0.21	1		F
Tetrachloroethene	0.06	1.4	4.19	1		
Toluene	0.06	1.1	0.17	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
1,2-DCA-D4(S)	97.8	62-139	
4-Bromofluorobenzene(S)	97.4	75-125	
Dibromofluoromethane(S)	94.4	75-125	
Toluene-D8(S)	96.1	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 #: 030316AM-60658
 Lab Name: APPL, Inc Contract #: F41624-00D-8024-TO0042
 Field Sample ID: LS-6-A2 Lab Sample ID: AP47328 Matrix: Water
 % Solids: NA Initial Calibration ID: M030315
 Date Received: 13-Mar-03 Date Prepared: 16-Mar-03 Date Analyzed: 16-Mar-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	0.8	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)	97.7	62-139	
4-Bromofluorobenzene(S)	98.7	75-125	
Dibromofluoromethane(S)	94.7	75-125	
Toluene-D8(S)	95.9	75-125	

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

Comments:
