

Mr.

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

July 13, 2007

U-079-07

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

Subject: Sampling of Four Bexar Met Water Wells: LS-3, Located at Farenthold Circle at Danna Marie, (#106-WP1) LS-4, Located at 24818 Ima Ruth Parkway, HS-1, Located at Falcon View at Rocky Hill Road, and HS-2, Located at Falcon View at Rocky Hill Road

Dear Mr.

Camp Stanley Storage Activity (CSSA) collected groundwater samples from the above wells (LS-3, LS-4, HS-1, and HS-2) on 3/21/07. 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 (MCL) allowed in drinking water by the U.S. EPA under the Safe Drinking Water Act is provided in the table below. All analyte concentrations were below MCLs, so they do not affect the usability of your well.

Date Sampled	VOC Compound	Result (ppb)	MCL (ppb)
Well LS-3,	Located at Farenthold Circle at Da	anna Marie, (#106-WP1)
3/21/07	Tetrachloroethene (PCE)	1.08F	5
	Trichloroethene (TCE)	0.66F	5
	cis-1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70
Well LS-4,	Located at 24818 Ima Ruth Parkway	*	
3/21/07	PCE	0.22F	5
	TCE	<0.05 (non-detect)	5
	DCE	<0.07 (non-detect)	70
Well HS-1,	Located at Falcon View at Rocky Hi	11 Road	
3/21/07	PCE	0.15F	5
	TCE	<0.05 (non-detect)	5
	DCE	<0.07 (non-detect)	70

Date Sampled	VOC Compound	Result (ppb)	MCL (ppb)
Well HS-2,	Located at Falcon View at Rocky Hi	ill Road	
3/21/07	PCE	0.16F	5
	TCE	<0.05 (non-detect)	5
	DCE	<0.07 (non-detect)	70
Well HS-2,	, field duplicate	· · · · · · · · · · · · · · · · · · ·	
3/21/07	PCE	0.16F	5
	TCE	<0.05 (non-detect)	5
	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, low levels of the VOCs PCE and/or TCE were identified in water samples from wells HS-1, HS-2, LS-3, and LS-4. Our field crew was informed that well LS-2 (#106-WP2) is offline due to the fact that the well is dry; therefore a sample was not collected from this well. Results from the laboratory analysis are provided as an attachment for March 2007. The concentrations reported for these VOCs were above the MCLs in the past. Therefore, a granular activated carbon (GAC) filtration system was installed at wells LS-2 and LS-3 in April 2002 by Carbonair Environmental Systems CSSA will be responsible for all costs of San Marcos, Texas. associated with operation and maintenance of this system.

Carbonair performed maintenance on the system in September 2005. Carbonair will replace the carbon, if needed, and perform other routine maintenance operations at future scheduled visits. If you experience any problems with the system, please let CSSA know immediately. Carbonair is very responsive and can make additional maintenance visits if needed.

On 3/21/07 CSSA also collected a sample from your wells (LS-2 and LS-3) after the water was processed through the first and second GAC filter system. Based on the analytical data, low levels of the VOC TCE were identified in sample LS-2/LS-3-A1, after the first carbon canister (A1) and before the second carbon canister (A2). This level is below the applicable MCL and does not affect usability of your well.

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 periodically to confirm the system remains effective. The next post GAC sampling will be conducted in September 2007.

Date Sampled	VOC Compound	Result (ppb)	MCL (ppb)
Well LS-2/LS	-3 POST GAC, GAC samples t	for 106-WP2 and 106-WP1	
3/21/07 A1,	PCE	<0.06 (non-detect)	5
First	TCE	0.19F	5
Carbon	DCE	<0.07 (non-detect)	70
Canister			
Well LS-2/LS	-3 POST GAC, GAC samples i	for 106-WP2 and 106-WP1	
3/21/07 A2,	PCE	<0.06 (non-detect)	5
Second	TCE	<0.05 (non-detect)	5
Carbon	DCE	<0.07 (non-detect)	70
Canister			

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

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 offpost. As part of this effort, we may contact you in the future to schedule another sampling event for the wells listed above.

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 Glare Sanchez, CSSA Environmental Program Manager, at (210) 698-5208.

Sincerely,

% 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
- Ms. Kimberly Vaughn, Parsons

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Analytical Method: EPA 8260B

5030B AAB #: 070327BH-111314

Lab Name: APPL, Inc Field Sample ID: LS-3 Contract #: F41624-03-D-08613 Lab Sample ID: AX58973

Matrix: Water

Initial Calibration ID: H070323

Date Prepared: 28-Mar-07

Preparatory Method:

Date Analyzed: 28-Mar-07

Date Received: 23-Mar-07 Concentration Units: ug/L

% Solids: NA

Analyte		MDL	RL	Concentr	ation	Dilution	Confirm	n (Qualifier
1,1-DCE		0.12	1.2	_	-0.12	I			U
Cis-1,2-DCE		0.07	1.2		0.07	1			υ
TCE	:	0.05	1.0		0.66	1			F
Tetrachloroethene		0.06	1.4		1.08	1			F
Trans-1,2-DCE		0.08	0.6		0.08]			. U
Vinyl chloride		0.08].1		0.08	}			U
Surrogate			Re	covery	Con	trol Limits	; Quali	ifier	
1,2-DCA-D4(S)			1	82.2		69-1	39		1
4-Bromofluorobenz	zene(S)			92.7		75-1	25]
Dibromofluorometh	nane(S)			87.1		75-1	25		1
Toluene-D8(S)				107		75-1	25		1
	Internal S	Std			Qu	alifier			-
	1,4-Dichlor	obenzene-I	D(IS)						•
	Chlorobenz				1				
	Fluorobenz	ene(IS)							

Comments:

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Analytical Method: EPA 8260B

Preparatory Method: 5030B

AAB #: 070327BH-111314

Field Sample ID: LS-2/LS-3-A1

Contract #: F41624-03-D-08613 Lab Sample ID: AX58974

Matrix: Water

Initial Calibration ID: H070323

Date Received: 23-Mar-07 Date Prepared: 28-Mar-07 Date Analyzed: 28-Mar-07

Concentration Units: ug/L

Lab Name: APPL, Inc

% Solids: NA

Analyte	MDL	RL	Concentr	ation	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2		0.12	1		Ū
Cis-1,2-DCE	0.07	1.2		0.07	1		U
TCE	0.05	1.0		0.19	1		F
Tetrachloroethene	0.06	1.4		0.06]		U
Trans-1,2-DCE	0.08	0.6		0.08	1		U
Vinyl chloride	0.08	1.1		0.08	1		υ
Surrogate		Re	covery	Con	trol Limits	Qualifie	er
1,2-DCA-D4(S)			76.7		69-1	39	
4-Bromofluorobenzene(S)			89.5	•	75-1	25	
Dibromofluoromethane(S)			80.8		75-1	25	
Toluene-D8(S)			103		75-1	25	
Intern	al Std		1	Qu	alifier		
1,4-Dic	hlorobenzene-I	D(JS)		1			
Chlorol	penzene-D5(IS)			1			
Fluorot	enzene(IS)			1			

Comments: ARF: 53067

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Analytical Method: EPA 8260B	Preparatory Method: 5030B	AAB #: 070327BH-111314
Lab Name: APPL, Inc	Contract #: F41624-03-	-D-08613
Field Sample ID: LS-2/LS-3-A2	Lab Sample ID:	AX58975 Matrix: Water
% Solids: NA	Initial Calibration ID: H07032	3
Date Received: 23-Mar-07	Date Prepared: 28-Mar-07	Date Analyzed: 28-Mar-07

Concentration Units: ug/L

MDL	RL	Concentr	ation	Dilution	Confirm	Qu	alifier
0.12	1.2		0.12]			U
0.07	1.2		0.07	1			U
0.05	1.0		0.05	1			υ
0.06].4		0.06]			U
0.08	0.6		0.08]			U
0.08	1.1		0.08	1			υ
	Re	covery	Con	tro] Limits	Qualifi	er	
		78.9		69-1	39		
		96.8		75-1	25		
		84.2		75-1	25		
		106		75-1	25		
Std			Qu	alifier	_		
robenzene-I	D(IS)		1				
zene-D5(IS))						
zene(IS)		· · · · ·	1.				
	0.12 0.07 0.05 0.06 0.08 0.08 0.08 5 0.08 0.08	0.12 1.2 0.07 1.2 0.05 1.0 0.06 1.4 0.08 0.6 0.08 1.1 Rea Std vrobenzene-D(IS) zene-D5(IS)	0.12 1.2 0.07 1.2 0.05 1.0 0.06 1.4 0.08 0.6 0.08 1.1 Recovery 78.9 96.8 84.2 106 Std vobenzene-D(IS) zene-D5(IS)	0.12 1.2 0.12 0.07 1.2 0.07 0.05 1.0 0.05 0.06 1.4 0.06 0.08 0.6 0.08 0.08 1.1 0.08 78.9 96.8 84.2 106 Std Qu vobenzene-D(IS) zene-D5(IS)	0.12 1.2 0.12 1 0.07 1.2 0.07 1 0.05 1.0 0.05 1 0.06 1.4 0.06 1 0.08 0.6 0.08 1 0.08 1.1 0.08 1 0.08 1.1 0.08 1 96.8 75-1 84.2 75-1 106 75-1 106 75-1 Std Qualifier yrobenzene-D(IS)	0.12 1.2 0.12 1 0.07 1.2 0.07 1 0.05 1.0 0.05 1 0.06 1.4 0.06 1 0.08 0.6 0.08 1 0.08 1.1 0.08 1 Recovery Control Limits Qualifier 78.9 69-139 96.8 75-125 84.2 75-125 106 75-125 Std Qualifier yrobenzene-D(IS) zene-D5(IS)	0.12 1.2 0.12 1 0.07 1.2 0.07 1 0.05 1.0 0.05 1 0.06 1.4 0.06 1 0.08 0.6 0.08 1 0.08 1.1 0.08 1 Recovery Control Limits Qualifier 78.9 69-139 96.8 75-125 84.2 75-125 106 75-125 Std Qualifier yrobenzene-D(IS) zene-D5(IS)

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Comments:

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Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 070327BH-111314 Lab Name: APPL, Inc Contract #: F41624-03-D-08613 Field Sample ID: LS-4 Lab Sample ID: AX58976 Matrix: Water Initial Calibration ID: H070323 % Solids: NA . Date Received: 23-Mar-07 Date Prepared: 28-Mar-07 Date Analyzed: 28-Mar-07 Concentration Units: ug/L MDL Analyte RL Concentration Dilution Confirm Oualifier 1,1-DCE 0.12 1.2 0.12 U Cis-1,2-DCE 0.07 1.2 0.07 U TCE 0.05 1.0 0.05 1 U Tetrachloroethene 0.06 1.4 0.22 1 F Trans-1,2-DCE 0.08 0.6 0.08] υ Vinyl chloride 0.08 1.1 0.08 1 U Recovery **Control Limits** Surrogate Qualifier 1,2-DCA-D4(S) 78.7 69-139 4-Bromofluorobenzene(S) 92.7 75-125 Dibromofluoromethane(S) 83.8 75-125

Toluene-D8(S)		104		75-125
<u> </u>	Internal Std		Qualifier	1
	1,4-Dichlorobenzene-D(IS)			1
	Chlorobenzene-D5(IS)		·	7
	Fluorobenzene(IS)			7

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Analytical Method: EPA 8260B	Preparatory Method: 5030B	AAB #: 070327BH-111314
Lab Name: APPL, Inc	Contract #: F41624-03-	D-08613
Field Sample ID: HS-2	Lab Sample ID: A	AX58977 Matrix: Water
% Solids: NA	Initial Calibration ID: H070323	}
Date Received: 23-Mar-07	Date Prepared: 28-Mar-07	Date Analyzed: 28-Mar-07
Concentration Units: ug/L		

Analyte	MDL	RL	Concentr	ation	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		ប
Tetrachloroethene	0.06	1.4		0.16	1		F
Trans-1,2-DCE	0.08	0.6		0.08	1		ប
Vinyl chloride	0.08	1.1		0.08	1		υ
Surrogate		Re	covery	Con	trol Limits	Qualifie	er
1,2-DCA-D4(S)			76.3		69-1	39	
4-Bromofluorobenzene(S)			94.0		75-1	25	
Dibromofluoromethane(S)			83.5		75-1	25	
Toluene-D8(S)			113		75-1	25	
Internal	Std			Qu	alifier		
1,4-Dichle	orobenzene-I	D(IS)					
Chloroben	zene-D5(IS)						
Fluoroben	zene(IS)						

Comments:

ARF: 53067

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Analytical Method: EPA 8260B P Lab Name: APPL, Inc

Preparatory Method: 5030B AAB #: 070327BH-111314 Contract #: F41624-03-D-08613

Field Sample ID: HS-2 DUP

Condact #. 141024-03-D-080

Lab Sample ID: AX58978

Matrix: Water

% Solids: NA

Initial Calibration ID: H070323 Date Prepared: 28-Mar-07 Date Analyzed: 28-Mar-07

Date Received: 23-Mar-07 Concentration Units: ug/L

Analyte		MDL	RL	Concentr	ation	Dilution	Confirm		Qualifier
1,1-DCE		0.12	1.2		0.12]			υ
Cis-1,2-DCE		0.07	1.2		0.07	1			υ
TCE		0.05	1.0		0.05	1			บิ
Tetrachloroethene		0.06	1.4		0.16	1			F
Trans-1,2-DCE		0.08	0.6		0.08	1			<u> </u>
Vinyl chloride		0.08	1.1	<u> </u>	0.08	1	<u> </u>		<u> </u>
Surrogate		·	Re	covery	Con	trol Limits	Quali	fier	
1,2-DCA-D4(S)				79.4		69-1	39		
4-Bromofluoroben	zene(S)			94.6		75-1	25		
Dibromofluorome	thane(S)			83.8		75-1	25		
Toluene-D8(S)				107		75-1	25 .		
	Internal S	Std			Qu	alifier			
	1,4-Dichlor	robenzene-I	D(IS)		T				
	Chlorobenz	zene-D5(IS)							
	Fluorobenz	ene(IS)							

Field duplicate of Comments: HS-2. TC 4/17/07 ARF: 53067

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Analytical Method: EPA 8260B

Preparatory Method: 5030B

AAB #: 070327BH-111314

Lab Name: APPL, Inc Field Sample ID: HS-1

% Solids: NA

Contract #: F41624-03-D-08613 Lab Sample ID: AX58979

Matrix: Water

Initial Calibration ID: H070323

Date Prepared: 28-Mar-07 Date Analyzed: 28-Mar-07

Date Received: 23-Mar-07 Concentration Units: ug/L

Analyte	MDL	RL	Concentra	ation	Dilution	Confirm	Q	alifier
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		0.15	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		Re	covery	Con	trol Limits	Qualifi	er	
1,2-DCA-D4(S)			76.4		69-1	39		
4-Bromofluorobenzer	ne(S)		88.7		75-1	25		
Dibromofluorometha	ne(S)		80.3		75-1	25		
Toluene-D8(S)			107		75-1	25		
1	nternal Std			Qu	alifier			
1	,4-Dichlorobenzene-I	D(IS)		1				
C	hlorobenzene-D5(IS))						
F	luorobenzene(IS)							

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