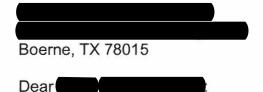


#### DEPARTMENT OF THE ARMY CAMP STANLEY STORAGE ACTIVITY, MCAAP 25800 RALPH FAIR ROAD, BOERNE, TX 78015-4800

April 8, 2016

U-060-16

SUBJECT: RFR-10 Granular Activated Carbon Treatment System and Unscheduled April 5, 2016 Sampling Results, Located at 25490 Old Fredericksburg Rd



Analytical results from a scheduled sampling of your well on March 7, 2016 indicated the granular activated carbon (GAC) treatment system installed at your well was only partially treating extracted water at the time these samples were collected. Subsequent results of samples collected at your faucets indicate that the water in your house and trailer continues to be safe to drink. However, the GAC deficiency has prompted CSSA to take several measures to ensure its continued safety. This letter provides a summary of the analytical results, a description of the measures we have taken at your location, and a description of the changes we are making to our sampling protocol to ensure that your drinking water is always safe.

A schematic drawing of the GAC treatment system on your well is attached for your reference. Typically, a sample is collected before being treated (a pre-GAC sample) and two samples are collected after treatment (post-GAC samples) from each independent side of the treatment system (the GAC "A" and GAC "B" treatment units), and analyzed for volatile organic compounds (VOCs). Two parallel GAC treatment units receive water pumped directly from your well. Each of the two GAC treatment units contains two sequential carbon filters, one after the other, designated as A1 and A2 or B1 and B2 on the drawing. These filters provide redundant treatment for your water prior to it entering your storage tank, and ultimately your home. The March results indicated that the "B" units were working as designed, but the "A" units were not.

An abbreviated summary of results for your well from the scheduled March 2016 guarterly sampling event were compared to the USEPA Maximum Contaminant Levels (MCLs) allowed in drinking water by the Safe Drinking Water Act. Those results are provided in Table 1. Results shown in bold indicate concentrations that were above the MCL for the associated contaminant on March 7, 2016.

Sample ID and Location	Volatile Organic Compound	Result (ppb)	MCL (ppb)
RFR-10,	Tetrachloroethene (PCE)	13.85	5
sample collected before water passed	Trichloroethene (TCE)	7.40	5
through GACs	cis-1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70
RFR-10-A2,	PCE	10.38	5
sample collected after water passed	TCE	6.41	5
through "A1" GAC	cis-1,2-DCE	<0.07 (non-detect)	70
RFR-10-B2,	PCE	<0.06 (non-detect)	5
sample collected after water passed	TCE	<0.05 (non-detect)	5
through "B2" GAC	cis-1,2-DCE	<0.07 (non-detect)	70

## Table 1 - March 7, 2016 Sample Results

The VOCs tetrachloroethene (PCE) and trichloroethene (TCE) were detected above the MCLs in the March 7 sample collected between the well and the GAC filtration units. These exceedances were expected due to the known presence of these contaminants in groundwater. Post-GAC samples were also collected to monitor the effectiveness of the treatment system. Based on the analytical data, PCE and TCE were identified in the samples collected after the second carbon canister in the A treatment unit (A2). No VOCs were identified in the samples collected after the second carbon canister in the B treatment unit (B2). These results indicate that PCE and TCE were not completely treated through the "A" GAC, however the "B" GAC was functioning as intended. The water from both the "A" side and the "B" side mixes in your 3,000 gallon tank before it is pumped to your house and trailer.

Upon receipt of these results on April 1, 2016 we took the following measures:

- 1. The "A" side of the GAC filtration system was immediately shut off. The "B" side, which was operating properly, was left open to provide treated water to both residences.
- 2. Service was scheduled with the service provider Carbonair Environmental Systems on April 4, 2016.
- 3. A water sample was collected at the point of use (faucet tap) at each residence (one at the house and one at the trailer). A very low concentration of TCE (0.33 ppb, which is below the MCL of 5 ppb) was detected in water at the house tap (Table 2). No other VOCs were detected in the sample collected at the house tap, and no VOCs were detected in the sample collected from the tap at the trailer.

Sample ID and Location	Volatile Organic Compound	Result (ppb)	MCL (ppb)
RFR-10-HKT,	PCE	<0.06 (non-detect)	5
sample collected from house faucet	TCE	0.33	5
	cis-1,2-DCE	<0.07 (non-detect)	70
RFR-10-TKT,	PCE	<0.06 (non-detect)	5
sample collected	TCE	<0.05 (non-detect)	5
from trailer faucet	cis-1,2-DCE	<0.07 (non-detect)	70

Table 2 – April 1, 2016 Point-of-Use Sample Results

These results are representative of the water coming out of the faucet at the house and trailer. They indicate that chemical concentrations did not exceed MCLs and therefore the water is safe to drink.

Carbonair replaced both inefficient "A" carbon filters (A1 and A2) on April 4. 2016. Following GAC filter replacement, six additional water samples were collected; one at the well, one after each GAC filter (4 total), and one after the second pressure tank (prior to entering the residence distributions). Results from these additional sampling efforts are provided in Table 3 below, and sample locations and results are identified on the attached schematic diagram.

Sample ID and Location	Volatile Organic Compound	Result (ppb)	MCL (ppb)
RFR-10,	PCE	11.89	5
sample collected before water passed	TCE	6.73	5
through GACs	DCE	<0.07 (non-detect)	70
RFR-10-A1,	PCE	<0.06 (non-detect)	5
sample collected after water passed	TCE	<0.05 (non-detect)	5
through "A1" GAC	cis-1,2-DCE	<0.07 (non-detect)	70
RFR-10-A2,	PCE	<0.06 (non-detect)	5
sample collected	TCE	<0.05 (non-detect)	5
through "A2" GAC	cis-1,2-DCE	<0.07 (non-detect)	70
RFR-10-B1,	PCE	<0.06 (non-detect)	5
sample collected	TCE	<0.05 (non-detect)	5
through "B1" GAC	cis-1,2-DCE	<0.07 (non-detect)	70
RFR-10-B2,	PCE	<0.06 (non-detect)	5
sample collected	TCE	<0.05 (non-detect)	5
through "B2" GAC	cis-1,2-DCE	<0.07 (non-detect)	70
RFR-10-TANK,	PCE	<0.06 (non-detect)	5
sample collected	TCE	<0.05 (non-detect)	5
to entering homes	cis-1,2-DCE	<0.07 (non-detect)	70

Table 3 - April 4, 2016 Sample Results

Post-GAC sample results from April 4, 2016 show that both the "A" and "B" treatment units are working properly. No detectable levels of VOCs were present in any of the water samples collected following the GAC treatment units (Table 3).

CSSA is committed to ensuring your GAC treatment system operates efficiently in the future, and continues to treat your drinking water such that it is safe for your family's consumption. Historically, semi-annual replacement of carbon vessels has successfully ensured continued treatment of your water. Carbonair exchanged the GAC filtration canisters and performed other routine maintenance on your system on February 18, 2016. In over 15 years of use of GACs to treat groundwater at CSSA, there have been no other detections of VOCs in water that has passed through GAC treatment. However, we are making the following changes to our protocol to enhance the quality of our monitoring program:

- 1. Order expedited (3-day) turnaround times from the laboratory for all scheduled or unscheduled post-GAC (A2 and B2) sample analyses so that problems in GAC treatment are identified quickly.
- 2. Collect post-GAC samples (A2 and B2) following each carbon vessel replacement, in addition to the normal quarterly monitoring event, to identify any problems with replacement parts.
- Maintain a carbon vessel at CSSA that can be transported to the well and installed by CSSA personnel if the service provider is unable to make a sameday service call.

In addition to these changes, CSSA will collect pre- and post-GAC samples on a monthly basis through June 2016 to monitor the GAC treatment effectiveness.

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 Felicia Kraintz, Environmental Program Manager, at (210) 295-7067.

Sincerely,

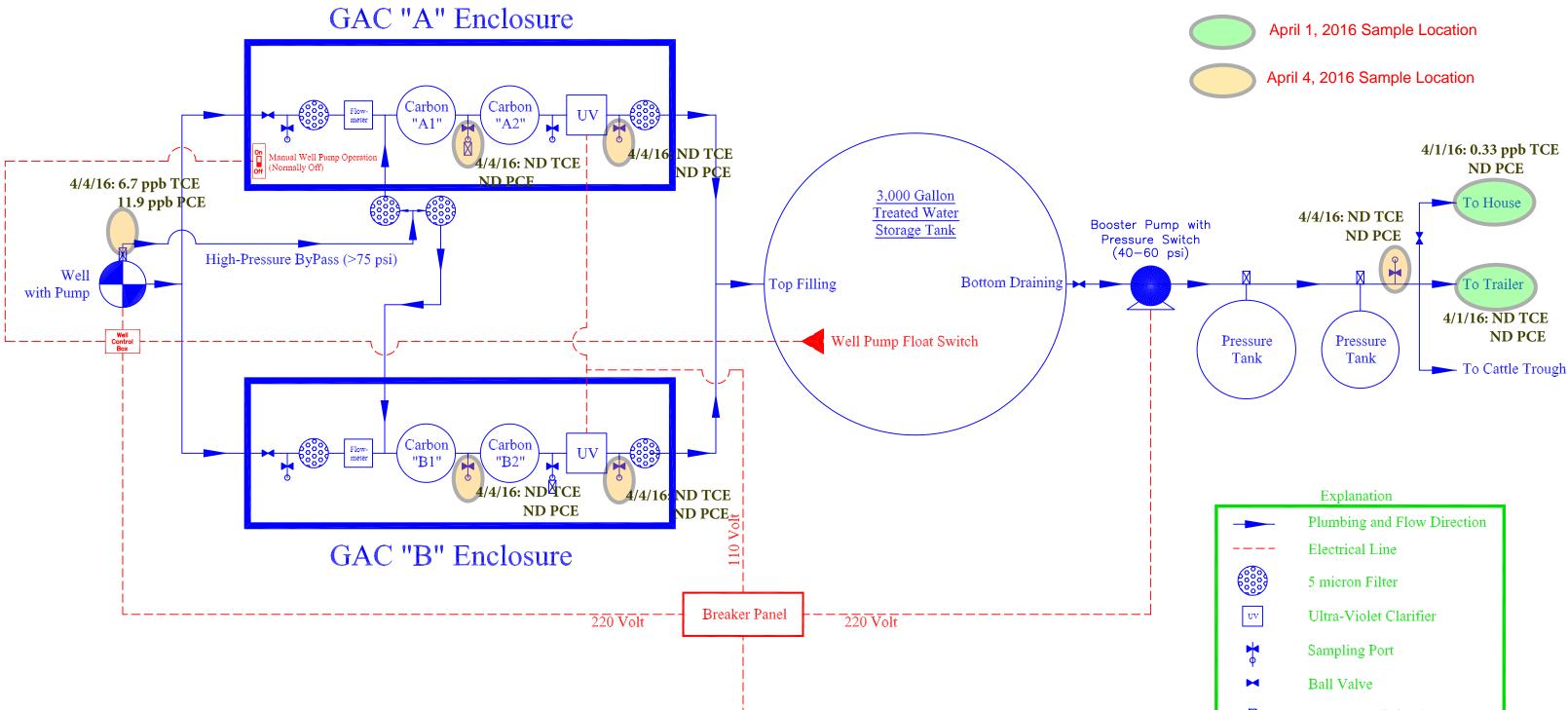
Jason Shuler Jason D. Shirley

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

# **RFR-10** Granular Activated Carbon Treatment System **Operational Schematic for Parallel Configuration**



Single-Phase Service

Explanation								
	Plumbing and Flow Direction							
	Electrical Line							
	5 micron Filter							
UV	Ultra-Violet Clarifier							
<b>▶</b> ♦	Sampling Port							
M	Ball Valve							
⊠	Pressure Relief Valve							

Analytical Method: EPA 8260B	Preparatory Method: 503	)B AAB #	: 160311AM-205494
Lab Name: APPL, Inc	Contract #: *G012		
Field Sample ID: RFR-10	Lab Sample I	D: AZ29977	Matrix: Water

Initial Calibration ID: M160301

% Solids: NA

Date Prepared: 11-Mar-16

Date Analyzed: 11-Mar-16

Date Received: 08-Mar-16 Concentration Units: ug/L

Analyte	MDL	RL	Concentr	ation	Dilution	C	onfirm	Qualifier
1,1-DCE	0.12	1.2		0.12	1			U
CIS-1,2-DCE	0.07	1.2		0.18	1			F
TCE	0.05	1.0		7.40	1			
TETRACHLOROETHENE	0.06	1.4		13.85	1			
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	5	Qualifie	r
SURROGATE: 1,2-DICHLOR	OETHANE	-	104		69-1	39		
SURROGATE: 4-BROMOFLU	OROBENZ	Z	103		75-1	25		
SURROGATE: DIBROMOFLU	JOROMET	ROMETH 103			75-1	25		
SURROGATE: TOLUENE-D8	(S)		103		75-1	25		
Internal S	Std			Qu	alifier			
1,4-DICHL	OROBENZ	ZENE-D4	(IS)					
CHLOROBENZENE-D5 (IS)								
FLUOROBENZENE (IS)								

Comments:

ARF: 78870

AFCEE FORM O-2

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Analytical Method: EPA 8260B	Preparatory Method: 5030B	AAB #: 160311AM-205494						
Lab Name: APPL, Inc	Contract #: *G012							
Field Sample ID: RFR-10 FD	Lab Sample ID:	AZ29978 Matrix: Water						
% Solids: NA	Initial Calibration ID: M1603	301						
Date Received: 08-Mar-16	Date Prepared: 11-Mar-16	Date Analyzed: 11-Mar-16						
Concentration Units: ug/L								

Analyte	MDL	RL	Concentr	ation	Dilution	1 0	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		6.76		1		
TETRACHLOROETHENE	0.06	1.4		13.33		1		
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 Limi	its	Qualifie	r
SURROGATE: 1,2-DICHLC	ROETHANE	-	103		69	-139		
SURROGATE: 4-BROMOF	LUOROBENZ	Z	100			-125		
SURROGATE: DIBROMOF	LUOROMET	Ъ	102			-125		
SURROGATE: TOLUENE-I	D8 (S)		102 7			-125		
Interna	l Std			Qu	alifier			
1,4-DIC	HLOROBENZ	ZENE-D4	(IS)					
CHLOR	CHLOROBENZENE-D5 (IS)							
FLUOR	FLUOROBENZENE (IS)							

Comments:

ARF: 78870

AFCEE FORM O-2

Analytical Method: EPA 8260B	Preparatory Method: 5030B AAB #: 160309AL-205443								
Lab Name: APPL, Inc	Contract #: *G012								
Field Sample ID: RFR-10-A2	Lab San	ple ID: A	Z29979	Matrix: Water					
% Solids: NA	Initial Calibration ID:	160303							
Date Received: 08-Mar-16	Date Prepared: 09-Mar-16		Date Analyze	d: 09-Mar-16					
Concentration Units: ug/L									

Analyte			MDL	RL	Concentr	ation	Dilutio	n 🛛 🕻	Confirm	Qua	lifier
1,1-DCE			0.12	1.2		0.12		1			U
CIS-1,2-D	CE		0.07	1.2		0.17		1			F
TCE			0.05	1.0		6.41		1			
TETRACH	ILOROETHENE		0.06	1.4		10.38		1			
TRANS-1,	2-DCE		0.08	0.6		0.08		1			U
VINYL CH	ILORIDE		0.08	1.1		0.08		1			U
	Surrogate			Re	covery	Con	trol Lin	nits	Qualifie	r	
	SURROGATE: 1,2	-DICHLOR	OETHANE	-	115		6	9-139			
	SURROGATE: 4-E	BROMOFLL	JOROBEN2	Z	103			5-125			
	SURROGATE: DI	BROMOFLU	JOROMET	Н	117			5-125			
	SURROGATE: TO	LUENE-D8	(S)		107	7		5-125			
		Internal S	Std			Qu	alifier				
		1,4-DICHL	OROBENZ	ZENE-D4	(IS)						
		CHLOROE	CHLOROBENZENE-D5 (IS)								
		FLUOROB	FLUOROBENZENE (IS)								

Comments:

ARF: 78870

AFCEE FORM O-2

Analytical Method: EPA 8260B	Preparatory Method: 5030B AAB #: 160311AM-2054									
Lab Name: APPL, Inc	APPL, Inc Contract #: *G012									
Field Sample ID: RFR-10-B2 Lab Sample ID: AZ29980 Matrix: Water										
% Solids: NA	Initial Calibration ID:	M160301								
Date Received: 08-Mar-16	Date Prepared: 11-Mar-16		Date Analyzed	: 11-Mar-16						
Concentration Units: ug/L										

Analyte		MDL	RL	Concentr	ation	Dilution	0	Confirm	Q	ualifier
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			Re	covery	Con	trol Limit	s	Qualifie	r	
SURROGATE: 1,2-1	DICHLOR	DETHANE	-	105 6			139			
SURROGATE: 4-BF	ROMOFLU	OROBEN	Z	101		75-125				
SURROGATE: DIB	ROMOFLU	JOROMET	н	102 7			125			
SURROGATE: TOL	UENE-D8	(S)		102		75-	125			
	Internal Std				Qu	alifier				
Ī	1,4-DICHLOROBENZENE-D4 (IS)									
CHLOROBENZENE-D5 (IS)										
	FLUOROB	ENZENE	(IS)							

Comments:

ARF: 78870

AFCEE FORM O-2

Analytical Method: EPA 8260B	Preparatory Method:	5030B	AAB #	: 160405AT-206250				
Lab Name: APPL, Inc	Contract #: *G012							
Field Sample ID: RFR-10-HKT	Lab Sa	nple ID:	AZ32015	Matrix: Water				
% Solids: NA	Initial Calibration IE	Initial Calibration ID: T160402						
Date Received: 05-Apr-16	Date Prepared: 05-Apr-16	i l	Date Analyzed	l: 05-Apr-16				
Concentration Units: ug/L								

MDL	RL	Concentr	ation	Dilution	Confirm	Q	ualifier
0.12	1.2		0.12	1			U
0.07	1.2		0.07	1			U
0.05	1.0		0.33	1			F
0.06	1.4		0.06	1			U
0.08	0.6		0.08	1			U
0.08	1.1		0.08	1	_		U
	Re	covery	Con	trol Limits	Qualifie	er	
DETHANE	-	96.8		69-1	39		
OROBENZ	Z	96.0		75-1	25		
OROMET	н	104		75-1	25		
(S)		101		75-1	25		
td			Qu	alifier			
OROBENZ	ZENE-D4	(IS)					
ENZENE-1	D5 (IS)						
ENZENE (	IS)						
	0.07 0.05 0.06 0.08 0.08 0.08 0.08 0.08 0.08 0.08	0.07 1.2 0.05 1.0 0.06 1.4 0.08 0.6 0.08 1.1 <b>Ree</b> DETHANE- OROBENZ OROBENZ (OROMETH (S) td	0.07 1.2 0.05 1.0 0.06 1.4 0.08 0.6 0.08 1.1 <b>Recovery</b> DETHANE- 96.8 OROBENZ 96.0 OROMETH 104 (S) 101 td OROBENZENE-D4 (IS) ENZENE-D5 (IS)	0.07         1.2         0.07           0.05         1.0         0.33           0.06         1.4         0.06           0.08         0.6         0.08           0.08         1.1         0.08           0.08         1.1         0.08           0.08         1.1         0.08           0.08         1.1         0.08           0.08         1.1         0.08           0.08         1.1         0.08           0COBENZ         96.0         96.0           OROMETH         104         (S)           101         td         Quage of the second sec	0.07         1.2         0.07         1           0.05         1.0         0.33         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           DETHANE-         96.8         69-1           OROBENZ         96.0         75-1           OROMETH         104         75-1           (S)         101         75-1           td         Qualifier         0           OROBENZENE-D4 (IS)         ENZENE-D5 (IS)	0.07       1.2       0.07       1         0.05       1.0       0.33       1         0.06       1.4       0.06       1         0.08       0.6       0.08       1         0.08       1.1       0.08       1         DETHANE-       96.8       69-139         OROBENZ       96.0       75-125         OROMETH       104       75-125         OROBENZENE-D4 (IS)       Qualifier         DROBENZENE-D5 (IS)       0	0.07     1.2     0.07     1       0.05     1.0     0.33     1       0.06     1.4     0.06     1       0.08     0.6     0.08     1       0.08     1.1     0.08     1       Control Limits       Qualifier       DETHANE-     96.8     69-139       OROBENZ     96.0     75-125       OROMETH     104     75-125       IOROMETH     104     75-125       IOROBENZENE-D4 (IS)     Qualifier       ENZENE-D5 (IS)     I

Comments:

Analytical Method: EPA 8260B	Preparatory Method:	5030B	AAB #	: 160405AT-206250				
Lab Name: APPL, Inc	Contract #: *	G012						
Field Sample ID: RFR-10-TKT	Lab Sat	nple ID:	AZ32016	Matrix: Water				
% Solids: NA	Initial Calibration ID	Initial Calibration ID: T160402						
Date Received: 05-Apr-16	Date Prepared: 05-Apr-16		Date Analyzed	l: 05-Apr-16				
Concentration Units: ug/L								

MDL	RL	Concentr	ation	Dilution	Confirm	Q	ualifier
0.12	1.2		0.12	1			U
0.07	1.2		0.07	1			U
0.05	1.0		0.05	1			U
0.06	1.4		0.06	1			U
0.08	0.6		0.08	1			U
0.08	1.1		0.08	1			U
	Re	covery	Con	trol Limits	Qualifi	er	
OETHANE	-	98.7		69-1	39		
UOROBENZ	Z	96.3		75-1	25		
JOROMET	Н	105		75-1	25		
(S)		101		75-1	25		
Std			Qu	alifier			
OROBENZ	ZENE-D4	(IS)					
BENZENE-	D5 (IS)						
ENZENE (	(IS)						
	0.12 0.07 0.05 0.06 0.08 0.08 0.08 0.08 0.08 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 Ree DETHANE- JOROBENZ JOROMETH (S) Std	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           OETHANE-         98.7           OROBENZ         96.3           JOROMETH         105           (S)         101           Std	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           0.08         1.1         0.08           0.08         1.1         0.08           0.08         1.1         0.08           0.08         1.1         0.08           0.08         1.1         0.08           0.09         96.3         JOROMETH           JOROMETH         105         (S)           Std         Quage           OROBENZENE-D4 (IS)         BENZENE-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         0.08       1.1       0.08       1         0.08       1.1       0.08       1         0.08       1.1       0.08       1         0.08       1.1       0.08       1         0.08       1.1       0.08       1         0.08       1.1       0.08       1         0.08       1.1       0.08       1         0.08       1.1       0.08       1         0.08       1.1       0.08       1         0.08       1.1       0.08       1         0.09       1.1       105       75-1         0.10       75-1       1         0.10       75-1       1         0.10       75-1       1         0.10       75-1       1 <td< td=""><td>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         OCONTROL Limits       Qualifi         DETHANE-       98.7       69-139         IOROBENZ       96.3       75-125         JOROMETH       105       75-125         (S)       101       75-125         Std       Qualifier         .OROBENZENE-D4 (IS)       BENZENE-D5 (IS)</td><td>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       DETHANE-     98.7     69-139       JOROBENZ     96.3     75-125       JOROMETH     105     75-125       Std     Qualifier       OROBENZENE-D4 (IS)     BENZENE-D5 (IS)</td></td<>	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         OCONTROL Limits       Qualifi         DETHANE-       98.7       69-139         IOROBENZ       96.3       75-125         JOROMETH       105       75-125         (S)       101       75-125         Std       Qualifier         .OROBENZENE-D4 (IS)       BENZENE-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       DETHANE-     98.7     69-139       JOROBENZ     96.3     75-125       JOROMETH     105     75-125       Std     Qualifier       OROBENZENE-D4 (IS)     BENZENE-D5 (IS)

Comments:

Analytical Method: EPA 8260B	Preparatory Method:	5030B	AAB #	t: 160405AT-206250
Lab Name: APPL, Inc	Contract #: *	G012		
Field Sample ID: RFR-10-A2	Lab Sai	nple ID:	AZ32017	Matrix: Water
% Solids: NA	Initial Calibration ID	: T160402	2	
Date Received: 05-Apr-16	Date Prepared: 05-Apr-16		Date Analyze	d: 05-Apr-16
Concentration Units: ug/L				

MDL	RL	Concentr	ation	Dilution	Confirm	Q	ualifier
0.12	1.2		0.12	1			U
0.07	1.2		0.07	1			U
0.05	1.0		0.05	1			U
0.06	1.4		0.06	1			U
0.08	0.6		0.08	1			U
0.08	1.1	_	0.08	1	_		U
	Re	covery	Con	trol Limits	Qualifi	er	
OETHANE	-	97.6		69-1	39		
OROBENZ	Z	97.7		75-1	25		
JOROMET	Ή	104		75-1	25		
(S)		102		75-1	25		
Std			Qu	alifier			
OROBENZ	ZENE-D4	(IS)					
BENZENE-	D5 (IS)						
ENZENE (	(IS)						
	0.12 0.07 0.05 0.06 0.08 0.08 0.08 0.08 0.08 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 <b>Ree</b> OCTHANE- OROBENZ JOROMETH (S) Std	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       DETHANE-     97.6       OROBENZ     97.7       JOROMETH     104       (S)     102       Std     OROBENZENE-D4 (IS)       BENZENE-D5 (IS)     102	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       0.07     97.6       OROBENZ     97.7       JOROMETH     104       (S)     102       Std     Que       OROBENZENE-D4 (IS)     97.7	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       0.08     1.1     0.08     1       0.08     1.1     0.08     1       0.08     1.1     0.08     1       0.08     1.1     0.08     1       0.09     1.1     0.08     1       0.00     1.1     0.08     1       0.00     1.1     0.08     1       0.00     1.1     0.08     1       0.00     1.1     0.08     1       0.00     1.1     0.08     1       0.10     97.7     75-1       JOROMETH     104     75-1       0.10     75-1     0       0.10     75-1       0.11     0.10     75-1       0.11     0.10     75-1       0.11     0.10     100       0.11     0.10     100       0.11     0.10     100       0.12 <td< td=""><td>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         Control Limits       Qualifi         DETHANE-       97.6       69-139         OROBENZ       97.7       75-125         JOROMETH       104       75-125         (S)       102       75-125         Std         QROBENZENE-D4 (IS)       Qualifier</td><td>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       Performance       OCNTROL Limits     Qualifier       OROBENZ     97.7     75-125       JOROMETH     104     75-125       GROBENZENE-D4 (IS)       GROBENZENE-D4 (IS)</td></td<>	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         Control Limits       Qualifi         DETHANE-       97.6       69-139         OROBENZ       97.7       75-125         JOROMETH       104       75-125         (S)       102       75-125         Std         QROBENZENE-D4 (IS)       Qualifier	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       Performance       OCNTROL Limits     Qualifier       OROBENZ     97.7     75-125       JOROMETH     104     75-125       GROBENZENE-D4 (IS)       GROBENZENE-D4 (IS)

Comments:

Analytical Method: EPA 8260B	Preparatory Method:	5030B	AAB #	: 160405AT-206250
Lab Name: APPL, Inc	Contract #: *	G012		
Field Sample ID: RFR-10-A1	Lab Sat	nple ID: A	Z32018	Matrix: Water
% Solids: NA	Initial Calibration ID	: T160402		
Date Received: 05-Apr-16	Date Prepared: 05-Apr-16		Date Analyzed	d: 05-Apr-16
Concentration Units: ug/L				

Analyte	MDL	RL	Concentr	ation	Dilution	Co	nfirm	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		Re	covery	Con	trol Limits	5 (	Qualifier	
SURROGATE: 1,2-DICHLOR	OETHANE	-	96.2		69-1	139		
SURROGATE: 4-BROMOFLU	OROBENZ	Z	97.9		75-1	125		
SURROGATE: DIBROMOFLU	JOROMET	Ή	103		75-1	125		
SURROGATE: TOLUENE-D8	(S)		102		75-1	125		
Internal S	Std			Qu	alifier			
1,4-DICHL	OROBENZ	ZENE-D4	(IS)					
CHLOROE	BENZENE-D5 (IS)							
FLUOROB	ENZENE (	(IS)						

Comments:

Analytical Method: EPA 8260B	Preparatory Method:	5030B	AAB #: 160405AT-206250
Lab Name: APPL, Inc	Contract #: *	G012	
Field Sample ID: RFR-10-B2	Lab Sat	mple ID:	AZ32019 Matrix: Water
% Solids: NA	Initial Calibration IE	: T160402	2
Date Received: 05-Apr-16	Date Prepared: 05-Apr-16		Date Analyzed: 05-Apr-16
Concentration Units: ug/L			

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Comments:

Analytical Method: EPA 8260B	Preparatory Method:	5030B	AAB #: 160405AT-206250
Lab Name: APPL, Inc	Contract #: *	G012	
Field Sample ID: RFR-10-B1	Lab Sat	nple ID:	AZ32020 Matrix: Water
% Solids: NA	Initial Calibration IE	: T16040	2
Date Received: 05-Apr-16	Date Prepared: 05-Apr-16		Date Analyzed: 05-Apr-16
Concentration Units: ug/L			

	RL	Concentr	ation	Dilution	Confirm	Qualifier
0.12	1.2		0.12	1		τ
0.07	1.2		0.07	1		τ
0.05	1.0		0.05	1		τ
0.06	1.4		0.06	1		τ
0.08	0.6		0.08	1		τ
0.08	1.1		0.08	1	_	. T
	Ree	covery	Con	trol Limits	Qualifie	er
DETHANE-		96.7		69-1	39	
OROBENZ	2	98.7		75-1	25	
OROMET	Н	101		75-1	25	
(S)		103		75-1	25	
td			Qu	alifier		
OROBENZ	ENE-D4	(IS)				
ENZENE-I	D5 (IS)					
ENZENE (	IS)					
	0.07 0.05 0.06 0.08 0.08 0.08 0.08 0.08 0.08 0.08	0.07 1.2 0.05 1.0 0.06 1.4 0.08 0.6 0.08 1.1 Rea DETHANE- OROBENZ OROMETH (S) td	0.07     1.2       0.05     1.0       0.06     1.4       0.08     0.6       0.08     1.1       Recovery       DETHANE-     96.7       OROBENZ     98.7       OROMETH     101       (S)     103       td       DROBENZENE-D4 (IS)       ENZENE-D5 (IS)	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       0ROBENZ     98.7       OROMETH     101       (S)     103       td     Qua       DROBENZENE-D4 (IS)     ENZENE-D5 (IS)	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           0.08         1.1         0.08         1           0.08         1.1         0.08         1           0.08         1.1         0.08         1           0.08         1.1         0.08         1           0.08         1.1         0.08         1           0.08         1.1         0.08         1           0.08         1.1         0.08         1           0.08         1.1         0.08         1           0.08         1.1         0.08         1           0.08         98.7         75-1           0ROMETH         101         75-1           td         Qualifier           0ROBENZENE-D4 (IS)         ENZENE-D5 (IS)	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       Qualifie       DETHANE-     96.7     69-139       OROBENZ     98.7     75-125       OROMETH     101     75-125       OROMETH     103     75-125       COROBENZENE-D4 (IS)     Qualifier       ENZENE-D5 (IS)     103

Comments:

Analytical Method: EPA 8260B	Preparatory Method:	5030B	AAB #: 160405AT-206250		
Lab Name: APPL, Inc	Contract #: *G012				
Field Sample ID: RFR-10	Lab Sat	nple ID: A	AZ32021 Matrix: Water		
% Solids: NA	Initial Calibration ID: T160402				
Date Received: 05-Apr-16	Date Prepared: 05-Apr-16		Date Analyzed: 05-Apr-16		
Concentration Units: ug/L					

Analyte	MDL	RL	Concentr	ation	Dilution	Cor	nfirm	Qualifier
1,1-DCE	0.12	1.2		0.12	1			U
CIS-1,2-DCE	0.07	1.2		0.17	1			F
TCE	0.05	1.0		6.73	1			
TETRACHLOROETHENE	0.06	1.4		11.89	1			
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		)ualifier	•
SURROGATE: 1,2-DICHLOR	OETHANE	-	98.0		69-1	39		
SURROGATE: 4-BROMOFLU	JOROBENZ	Z	96.8		75-1	25		
SURROGATE: DIBROMOFL	UOROMET	Ή	103		75-1	25		
SURROGATE: TOLUENE-D8	S (S)		102		75-1	25		
Internal S	Std			Qu	alifier			
1,4-DICHI	OROBENZ	ZENE-D4	(IS)					
CHLOROF	BENZENE-	D5 (IS)						
FLUOROE	FLUOROBENZENE (IS)							
				1				

Comments:

Analytical Method: EPA 8260B	Preparatory Method:	5030B	AAB #:	: 160405AT-206250
Lab Name: APPL, Inc	Contract #: *	G012		
Field Sample ID: RFR-10-TANK	Lab Sa	mple ID:	AZ32022	Matrix: Water
% Solids: NA	Initial Calibration IE	<b>)</b> : T16040	)2	
Date Received: 05-Apr-16	Date Prepared: 05-Apr-16		Date Analyzed	: 05-Apr-16
Concentration Units: ug/L				

0.12 0.07 0.05 0.06 0.08 0.08	1 1 1 1 1 1		U U U U U
0.05 0.06 0.08 0.08	1 1 1 1 1		U U U U
0.06 0.08 0.08	1 1 1 1		U U U
0.08 0.08	1		U U
0.08	1		U
	1		
	-	_	U
Control	Limits	Qualifier	,
96.7	69-139	I	
95.8	75-125		
103	75-125		
102	75-125		
Qualifi	er		
ç	96.7 95.8 103 102	96.7         69-139           95.8         75-125           103         75-125	96.7         69-139           95.8         75-125           103         75-125           102         75-125

Comments: