CITY OF TUCSON
ENVIRONMENTAL SERVICES

Do More Blue

November 7, 2014

REPORT ON 2 CD-ROMS VIA CERTIFIED US MAIL

Ms. Gretchen Wagenseller
Superfund Programs Unit
Arizona Department of Environmental Quality
Southern Regional Office
400 W. Congress St., Suite 433
Tucson, AZ 85701

Re: Broadway - Pantano WQARF Site, Tucson, AZ
3rd Quarter 2014 Enhanced Groundwater Monitoring Report

Dear Ms. Wagenseller:

Please find attached a report containing a summary of groundwater monitoring data collected at the Broadway - Pantano Water Quality Revolving Fund (WQARF) site between July and September 2014.

If you have any questions regarding this data, please contact David Barraza at (520) 837-3711.

Sincerely,

Nancy Petersen
Deputy Director

NP/LE/je

Enclosures:
Broadway – Pantano WQARF Site, 3rd Quarter 2014 Enhanced Groundwater Monitoring Report, dated November 7, 2014 (Report on 2 CDs)

cc: Ron Rhoads, Catalina Village (hardcopy of report, appendices on CD)
COT, Tucson Water (Email): Molly Collins, Wally Wilson, Stephen Dean, Melodee Loyer, Chad Lapora
COT, ES (Email): David Barraza, Lori Ehman
Broadway – Pantano WQARF Central File (1 full hardcopy) & SIRE ETS

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BROADWAY – PANTANO WQARF SITE, TUCSON, AZ

3rd QUARTER 2014
ENHANCED GROUNDWATER
MONITORING REPORT

November 7, 2014

CITY OF TUCSON
ENVIRONMENTAL SERVICES
4004 S. PARK AVE.
BLDG. 2
TUCSON, AZ 85714

ENVIRONMENTAL
SERVICES

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1.0 INTRODUCTION

The City of Tucson - Environmental Services (COT-ES) has prepared this summary of groundwater monitoring data acquired during the 3rd Quarter of 2014 (July - September) at the Broadway - Pantano Water Quality Assurance Revolving Fund (WQARF) Site, located in Tucson, Arizona (Figure 1).

This sampling program was initiated in December 2012 to monitor for rebounding concentrations of volatile organic compounds (VOCs) near the Western Containment System (WCS), and to monitor the western (escaped) portion of the tetrachloroethene (PCE) plume. The WCS operated from 2003 to 2012, and was designed to remove and treat VOCs from groundwater downgradient of the Broadway North Landfill. The Arizona Department of Environmental Quality (ADEQ) shut down the WCS on October 12, 2012 because PCE concentrations were below the Aquifer Water Quality Standards (AWQS) at the extraction wells, annual WCS operation and maintenance costs were high, and there had been significant cuts to the WQARF budget[1]. COT-ES and ADEQ continue to monitor wells in the area on an as-needed basis and will return the system to operation if necessary to protect the Tucson Water potable well network.

Monthly samples are normally collected from the Catalina Village Assisted Living Apartments drinking water production well (CVA) and monitor well WR-704A to monitor the western (escaped) portion of the PCE plume that is beyond the capture zone of the WCS. The 3rd Quarter 2014 sampling events were conducted in general accordance with the ADEQ letter dated August 2012[1], the ADEQ Draft Quality Assurance Project Plan (QAPP)[2], COT-ES Passive Diffusion Bag (PDB) Standard Operating Procedure[3], and items agreed upon during a November 9, 2012 meeting between ADEQ, Tucson Water, COT-ES, and URS Corporation (URS). Details of the performance, monitoring and maintenance of the WCS, including semi-annual monitoring of inactive extraction wells C-026A and R-092A, inactive injection well R-090A, are documented in the URS WCS maintenance annual reports[4].

Samples were either collected by PDB at monitoring wells or by spigot at production wells; both are the ADEQ approved standard sampling methods for the enhanced monitoring events. Sampling information for this event is summarized in Table 1. The following items were deviations for this sampling quarter.

- Production well CVA was discovered to not be equipped with a pump in June 2013, and has continued to be inoperable. COT-ES performs periodic visits to confirm status of the CVA well has not changed.

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[1] ADEQ (William J. Ellett), August 31, 2012, *RE: Broadway-Pantano Water Quality Assurance Revolving Fund (WQARF) Site Western Containment System (WCS) Shutdown*

[2] Stantec, September 12, 2011, *Revised Draft Quality Assurance Project Plan, Collection and Analysis of Groundwater Samples, Broadway-Pantano WQARF Site*

[3] COT-ES, April 11, 2013, *Standard Operating Procedure # 005 for Passive Diffusion Bags (PDBs) for Broadway-Pantano WQARF Site*

[4] URS, June 3, 2014, *Summary of Operational Data for Broadway-Pantano Western Containment System for 2013 (January 1, 2013 to December 31, 2013)*

- All four PDBs deployed in R-092A's 2 inch sounding tube became stuck, and no samples for analysis could be obtained. After several hours in attempting to retrieve all four PDBs, one PDB was left in place at 463 feet below ground surface (ft bgs). The depth of the remaining PDB should not interfere with future sampling events.

2.0 MONITORING RESULTS

Between July 2014 and September 2014, COT-ES and Tucson Water collected thirty groundwater samples. As shown on Table 1, twenty-eight samples were collected using PDBs, and two collected from spigots mounted on active production wells.

Groundwater analytical results indicate that PCE concentrations continue to exceed the aquifer water quality standard (AWQS) of 5 µg/L in two wells: ADEQ-SJ-02 and WR-704A (Table 2, Figure 2). Figure 2 provides a PCE groundwater boundary concentration map for the quarterly event (August 2014). Appendix A includes PCE concentration charts for selected wells; Appendix B includes a summary of historic concentrations of selected VOCs since 2001; and Appendix C includes data verification summary, fieldsheets, laboratory analytical reports, and applicable laboratory correspondence. PCE has never been detected in wells ADEQ-BP-05, C-051B, Catalina Village Apartments (CVA), R-090A, WR-180A, WR-352A, and WR-354A; therefore, these wells were not charted. The bullets below summarize the results:

East of Wilmot Rd:

- ADEQ-SJ-02 PCE concentrations in the decreased to 5.9 µg/L in August 2014 from 6.8 µg/L in May 2014 (see PCE chart in Appendix A).
- PCE concentrations in ADEQ-SJ-01 appear to be stable (3.3 µg/L in August 2014 and 3.6 µg/L in May 2014).
- WR-178A PCE concentrations increased from 0.9 µg/L in May 2014 to 2.1 µg/L in August 2014.
- ADEQ-BP-16 PCE concentrations increased from non-detect (<0.5 µg/L) May 2014 to 1.5 µg/L in August 2014.

West of Wilmot Rd:

- WR-704A was sampled monthly during the last quarter and had the following PCE concentrations: 6.5 µg/L in July, 6.1 µg/L in August, and 6.4 µg/L in September.
- WR-702A PCE concentrations appeared to be stable (2.4 µg/L in May 2014 to 2.2 µg/L in August 2014).
- C-026A had detectable concentrations of PCE in the 50 foot PDB at 0.6 µg/L and in the 100 foot PDB at 0.53 µg/L. The 25 and 75 foot PDBs were non-detect.
- ADEQ-BP-2 PCE concentrations decreased from 1.1 µg/L in May 2014 to non-detect (<0.5 µg/L) in August 2014.

3.0 DATA VERIFICATION

Quality assurance/quality control (QA/QC) analyses for the thirty samples collected by COT-ES and TW staff between July 2014 – September 2014 included 2 duplicate samples and 6 trip blanks. All samples submitted to Accutest Laboratories were analyzed by EPA method 8260B. Samples submitted to Tucson Water Quality Laboratory (TWQL) were analyzed by EPA method 524.2 for VOCs. No analytes were detected in any of the trip blanks. A data verification summary table is provided in Appendix C.

Duplicate and original samples were collected on July 28, 2014 at WR-704A and on August 20, 2014 at WR-179A. As per the site QAPP, field duplicates results are a qualitative evaluation of completeness with no RPD level requirements. Maximum relative percent difference (RPD%) for WR-704A was 12.3% and for WR-179A was 0% (results were non-detect in both the original and duplicate). These percentages are within industry standards.

Accutest job # C36172 originally reported concentrations of 1,1,1-trichloroethane at 15.6 µg/L and trichloroethylene at 260 µg/L for sample #1 (C26-25). These detections were determined to be the result of instrument carryover from a previous injection. The sample was reanalyzed on 10/7/2014 at 5x dilution, and had no results above detection limits. These results were incorporated into the revised report. The sample was reanalyzed on 10/8/2014 (1 day past hold time) at 1x dilution using a vial with headspace. The second set of data was reported in a separate report (C36172R) and is provided in Appendix C. The C36172R data is considered suspect, and therefore was not verified or incorporated into the master spreadsheet in Appendix B.

For Accutest job # C35612, acetone was detected in two samples, ADEQ-BP-02 at 21.5 µg/L and ADEQ-BP-05 at 24.3 µg/L. Compounds acetone, methyl iso-butyl ketone, methyl tert-butyl ether, and styrene[5] have been confirmed by laboratory testing as unfavorable compounds for PDB sampling. Methyl ethyl ketone (MEK or 2-butanone) was confirmed to exhibit poor diffusion across the polyethylene membrane by EON Products, manufacture of the PDBs purchased for monitoring (EON white paper is included in Appendix C). These compounds will be removed from future analytical reports.

4.0 WESTERN CONTAINMENT SYSTEM TRIGGER POINTS

As supported by the Clear Creek simulated groundwater flow model runs dated June 2012[6], the City of Tucson recommends the following trigger points for initiating discussions with ADEQ regarding returning the WCS system to full or partial operation:

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[5] ITRC (The Interstate Technology & Regulatory Council), *Technical and Regulatory Guidance for Using Polyethylene Diffusion Bag Samplers to Monitor Volatile Organic Compounds in Groundwater*, Feb 2004

[6] Clear Creek Associates, June 1, 2012, *Submittal of Future Simulation Model Run Results, Groundwater Model Study for Feasibility Study, Broadway-Pantano WQARF Site*

- PCE concentration increases in upgradient monitor wells (SJ-01, SJ-02 and WR-178A) that would indicate the extent to which the 5 µg/L PCE plume is within 1,300 feet of an groundwater extraction well and/or;
- PCE concentration increases in extraction well R-092A that would indicate the extent to which the 5 ug/L PCE plume has migrated undetected past upgradient monitor wells and/or,
- PCE is detected in downgradient monitoring locations, such as R-090A/R-091A, or ADEQ-BP-02 that would indicated the extent to which any contamination has migrated undetected past all up-gradient monitoring points.

In order to provide optimal protection to Tucson's Central Well Field, particular emphasis should be placed on up-gradient, monitor well as trigger points. Monitoring of up-gradient wells will allow the WCS to be re-started while contaminants in the primary plume remain up-gradient of extraction wells. Downgradient monitor locations should remain as background data collection points but should not be used as signals for re-starting the WCS. As of these recent monitoring results, none of the conditions outlined above have been observed and the system will remain off.

5.0 CATALINA VILLAGE APARTMENT TRIGGER POINTS

The CVA well provides water to the assisted living apartments for all uses including drinking water, cooking, cleaning, and landscape irrigation. An alternative water source is readily available through the existing Tucson Water potable water distribution line should VOCs be detected in the CVA production well. Since June 2014, the CVA production well has remained inoperable. COT-ES will resume the monthly sampling schedule once the well returns to delivering water.

TABLES

Table 1
Well Information
Broadway - Pantano WQARF Site

Well Name	Sampling Frequency	Designated Sampling Team	Sample Depth (FBW) / Type	Analytical Method	Date Sampled	Lab Login ID	Laboratory	Depth to Water (ft)	PDB Set Depth (ft bgs)	Top of Screened Interval (ft bgs)	Bottom of Screened Interval (ft bgs)
ADEQ-BP-02	Quarterly	COT ES	25/PDB	EPA 8260B	8/21/14	C35612-5	Accutest	303.21	331.00	265	440
ADEQ-BP-03	Quarterly	COT ES	25/PDB	EPA 8260B	8/21/14	C35612-7	Accutest	299.92	327.81	255	430
ADEQ-BP-04	Quarterly	COT ES	25/PDB	EPA 8260B	8/21/14	C35612-6	Accutest	309.24	337.22	260	435
ADEQ-BP-05	Quarterly	COT ES	25/PDB	EPA 8260B	8/21/14	C35612-4	Accutest	325.30	354.03	280	455
ADEQ-BP-16	Quarterly	COT ES	25/PDB	EPA 8260B	8/20/14	C35611-2	Accutest	343.92	373.22	295	470
ADEQ-BP-21	Quarterly	COT ES	25/PDB	EPA 8260B	8/21/14	C35612-8	Accutest	299.39	327.14	280	430
ADEQ-SJ-01	Quarterly	COT ES	25/PDB	EPA 8260B	8/21/14	C35612-1	Accutest	336.14	365.14	327	387
ADEQ-SJ-02	Quarterly	COT ES	25/PDB	EPA 8260B	8/20/14	C35611-5	Accutest	340.49	369.67	331	391
C-026A*	Quarterly	COT ES	25, 50, 75, 100/PDB	EPA 8260B	9/23/14	C36172-1→-4	Accutest	302.16	328.16	130	537
C-051B	Quarterly	TW	spigot-grab	EPA 524.2	8/14/14	L30233-03	TWQL	NA	NA	208	780
C-124A	Annual	TW	*Well not sampled during this event.*					NA	NA	410	970
C-125A	Annual	TW	spigot-grab	EPA 524.2	8/14/2014	L30233-07	TWQL	NA	NA	440	1000
Catalina Village	Monthly	COT ES	*Well not sampled during this event. Well has been inoperable since 6/25/2014.*					NA	NA	NA	455
R-090A*	Quarterly	COT ES	25, 50, 75, 100/PDB	EPA 8260B	9/23/14	C36172-5→-8	Accutest	314.72	340.72	290	490
R-092A*	Quarterly	COT ES	25, 50, 75, 100/PDB	PDBs were stuck in well. No samples were acquired.						290	490
WR-178A	Quarterly	COT ES	25/PDB	EPA 8260B	8/21/14	C35612-2	Accutest	316.82	345.61	312	454
WR-179A	Quarterly	COT ES	25/PDB	EPA 8260B	8/20/14	C35611-3 & -4	Accutest	344.88	374.11	343	490
WR-180A	Quarterly	COT ES	25/PDB	EPA 8260B	8/20/14	C35611-7	Accutest	311.87	340.64	317	460
WR-352A	Quarterly	COT ES	430 BTOC/PDB	EPA 8260B	8/21/14	C35612-3	Accutest	314.92	430.00	424	463
WR-354A	Quarterly	COT ES	25/PDB	EPA 8260B	8/20/14	C35611-6	Accutest	321.74	350.45	333	380
WR-702A	Quarterly	COT ES	25/PDB	EPA 8260B	8/20/14	C35611-1	Accutest	295.69	323.49	293	393
WR-703A	Quarterly	COT ES	25/PDB	EPA 8260B	8/20/14	C35611-8	Accutest	290.71	318.56	294	394
WR-704A	Monthly	COT ES	25/PDB	EPA 8260B	7/28/14	C35259-1 & -2	Accutest	295.12	323.64	290	350
WR-704A	Monthly	COT ES	25/PDB	EPA 8260B	8/20/14	C35611-9	Accutest	294.80	323.64	290	350
WR-704A	Monthly	COT ES	25/PDB	EPA 8260B	9/10/14	C35923-1	Accutest	294.64	323.64	290	350

** PDB Set Depth is for initial bag position (25 FWB). Remaining bag depths are relative to that initial position.*

FBW = feet below water
BTOC = "feet" below top of casing.
NA = not available
ft bgs = feet below ground surface
PDB = polyethylene Diffusion Bag

COT ES = City of Tucson Environmental Services
URS = URS Corporation
TW = Tucson Water
TWQL = Tucson Water Quality Laboratory
→ = through

Table 2
Groundwater Results Summary of Selected Analytes
Broadway - Pantano WQARF Site

Sample ID			Constituent Concentration (µg/L)							
	Sample Depth (FBW)	Sample Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Vinyl chloride	Benzene	cis-1,2-Dichloroethene	Methylene chloride	trans-1,2-Dichloroethene	Dichlorodifluoromethane
Aquifer Water Quality Standards			**5**	**5**	**2**	**5**	**70**	**5**	**100**	**NE**
ADEQ-BP-02	25	8/21/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
ADEQ-BP-03	25	8/21/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.50
ADEQ-BP-04	25	8/21/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
ADEQ-BP-05	25	8/21/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
ADEQ-BP-16	25	8/20/2014	**1.5**	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.81**
ADEQ-BP-21	25	8/21/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.62**
ADEQ-SJ-01	25	8/21/2014	**3.3**	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.64**
ADEQ-SJ-02	25	8/20/2014	**5.9**	**1.2**	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A	25	9/23/2014	<2.5	<2.5	<2.5	<5	<2.5	<25	<2.5	<2.5
C-026A	50	9/23/2014	**0.6**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A	75	9/23/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A	100	9/23/2014	**0.53**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-051B	WH	8/14/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-125A	WH	8/14/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
R-090A	25	9/23/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A	50	9/23/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A	75	9/23/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A	100	9/23/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-178A	25	8/21/2014	**2.1**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-179A	25	8/20/2014	<0.5	<0.5	<0.5	<1.0	<0.5	<5	<0.5	<0.5
WR-179A	25	8/20/2014	<0.5	<0.5	<0.5	<1.0	<0.5	<5	<0.5	<0.5
WR-180A	25	8/20/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-352A	429 BTOC	8/21/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-354A	25	8/20/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-702A	25	8/20/2014	**2.2**	<0.5	<0.5	<1	<0.5	<5	<0.5	**1.3**
WR-703A	25	8/20/2014	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-704A	25	7/28/2014	**6.5**	0.56	<0.5	<1	<0.5	<5	<0.5	**3.8**
WR-704A (DUP)	25	7/28/2014	**6.5**	0.55	<0.5	<1	<0.5	<5	<0.5	**4.3**
WR-704A	25	8/20/2014	**6.1**	0.6	<0.5	<1	<0.5	<5	<0.5	**3.3**
WR-704A	25	9/10/2014	**6.4**	0.6	<0.5	<1	<0.5	<5	<0.5	**4.4**

Notes:

Highlighted/Bold Font *= concentrations exceed Arizona Department of Environmental Quality Aquifer Water Quality Standards.*

Bold Font *= concentration above laboratory reporting limit*

FBW = Feet below water

BTOC = "feet" below top of casing.

µg/L = Micrograms per liter

(DUP) = duplicate sample for quality assurance.

WH = Well head

CVA = Catalina Village Apartments

NE = None Exists

FIGURES

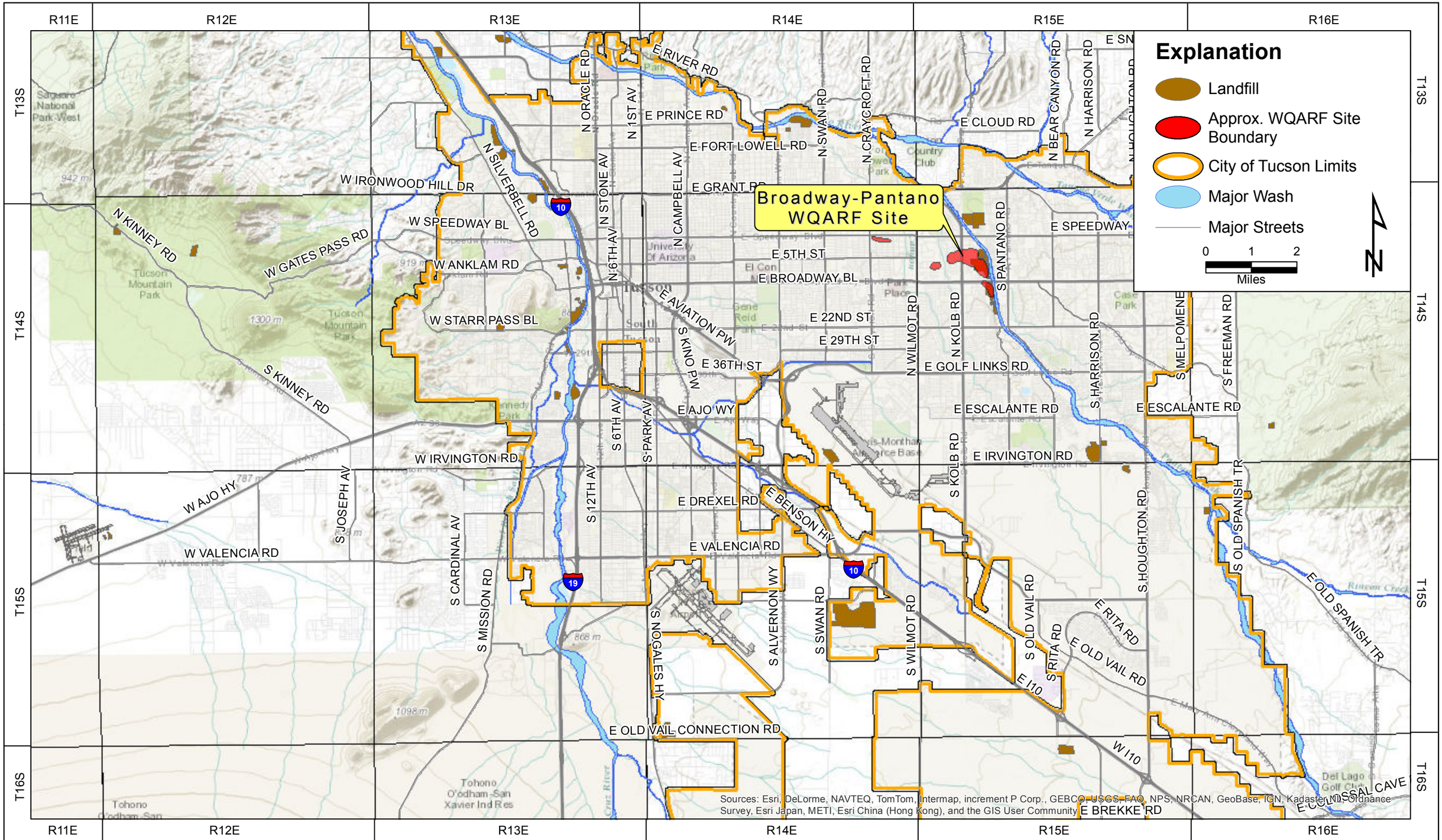

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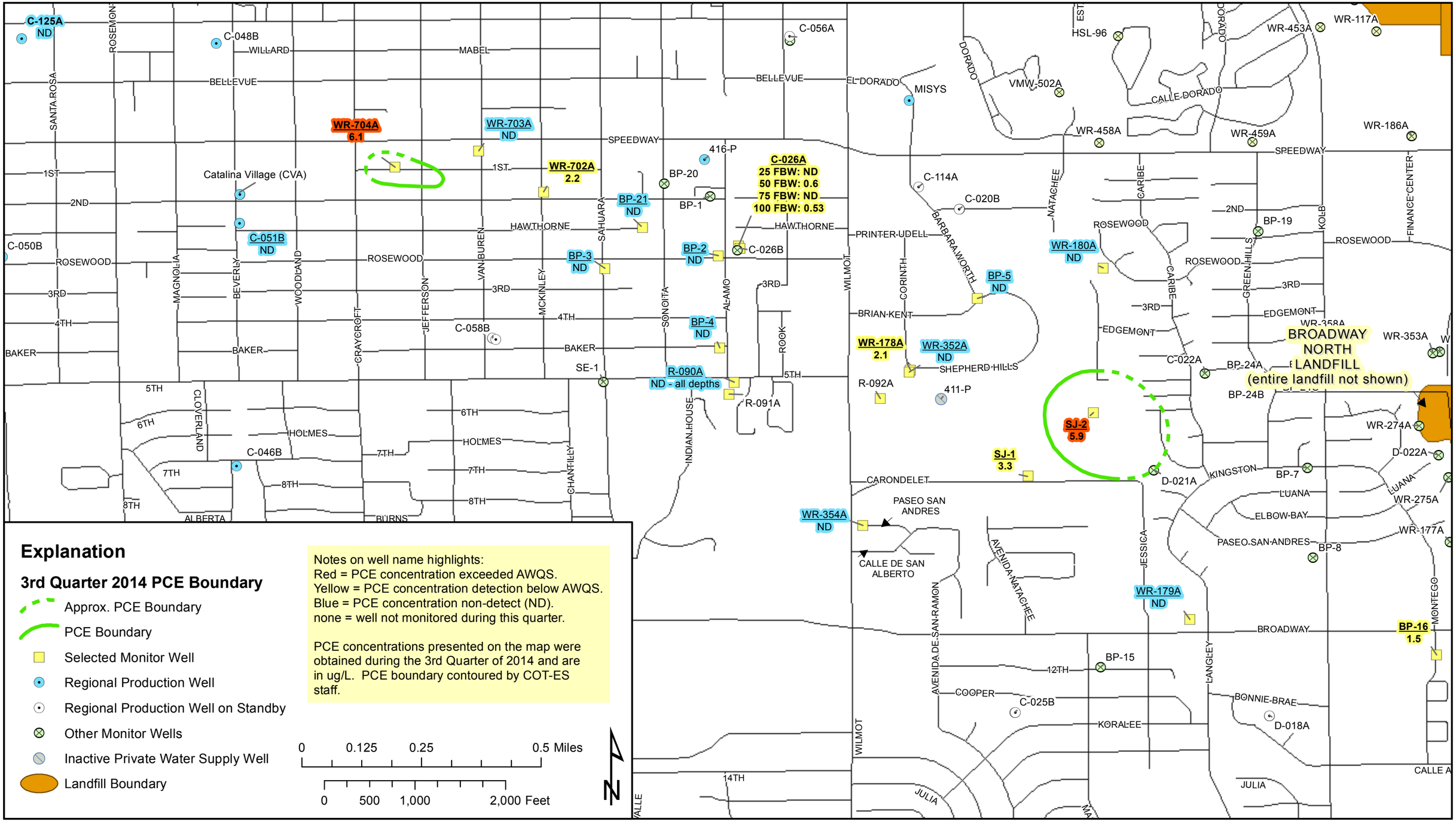
Figure 1
Location Map
Broadway - Pantano WQARF Site

Drawn By:	LE
Checked:	MC
Approved:	MH
Date:	4/9/2014
File:	See Below

J://GIS/Broadway/2013/LocationMap.mxd



Explanation

3rd Quarter 2014 PCE Boundary

- Approx. PCE Boundary
- PCE Boundary
- Selected Monitor Well
- Regional Production Well
- Regional Production Well on Standby
- Other Monitor Wells
- Inactive Private Water Supply Well
- Landfill Boundary

Notes on well name highlights:
Red = PCE concentration exceeded AWQS.
Yellow = PCE concentration detection below AWQS.
Blue = PCE concentration non-detect (ND).
none = well not monitored during this quarter.

PCE concentrations presented on the map were obtained during the 3rd Quarter of 2014 and are in ug/L. PCE boundary contoured by COT-ES staff.

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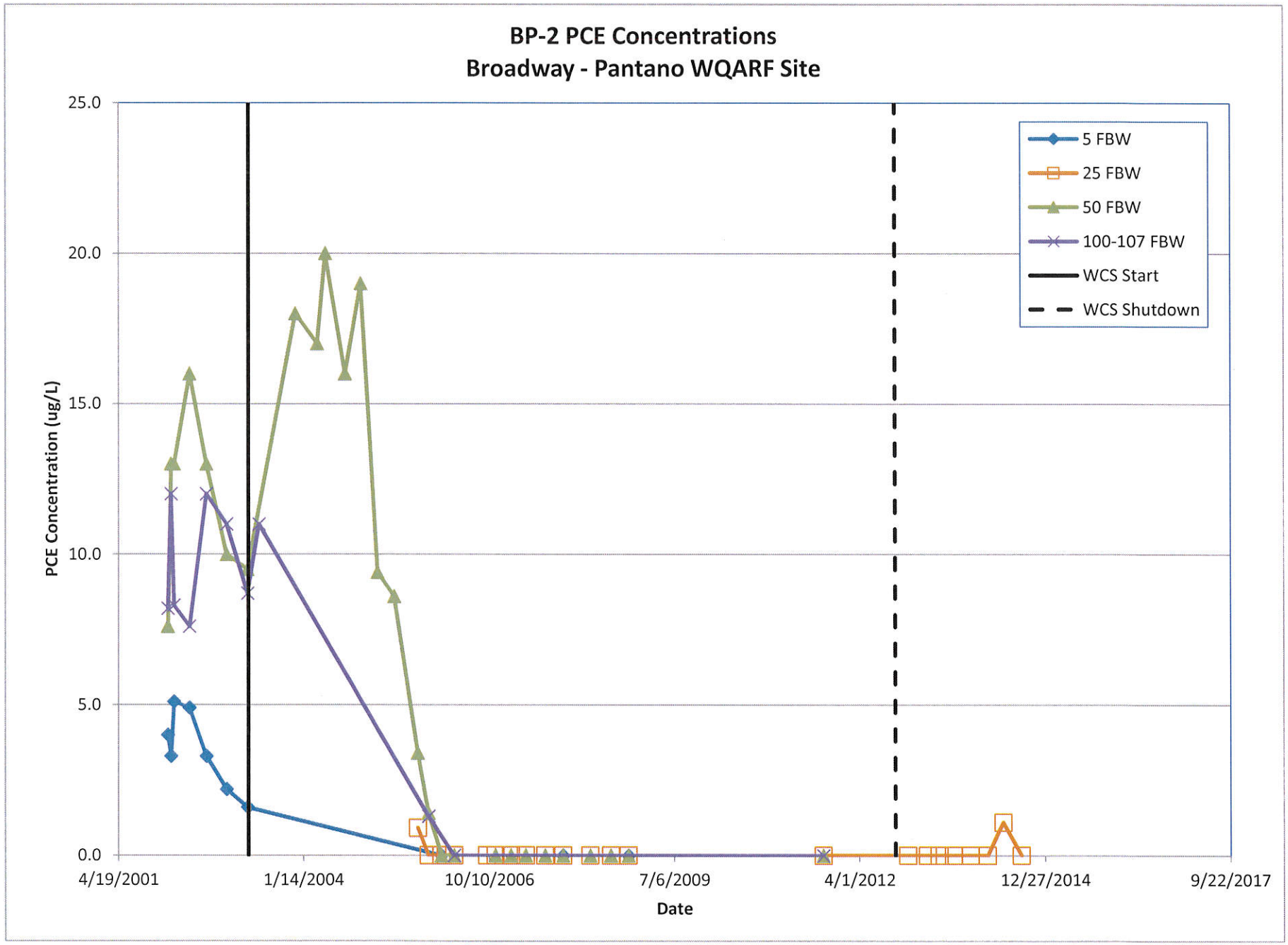
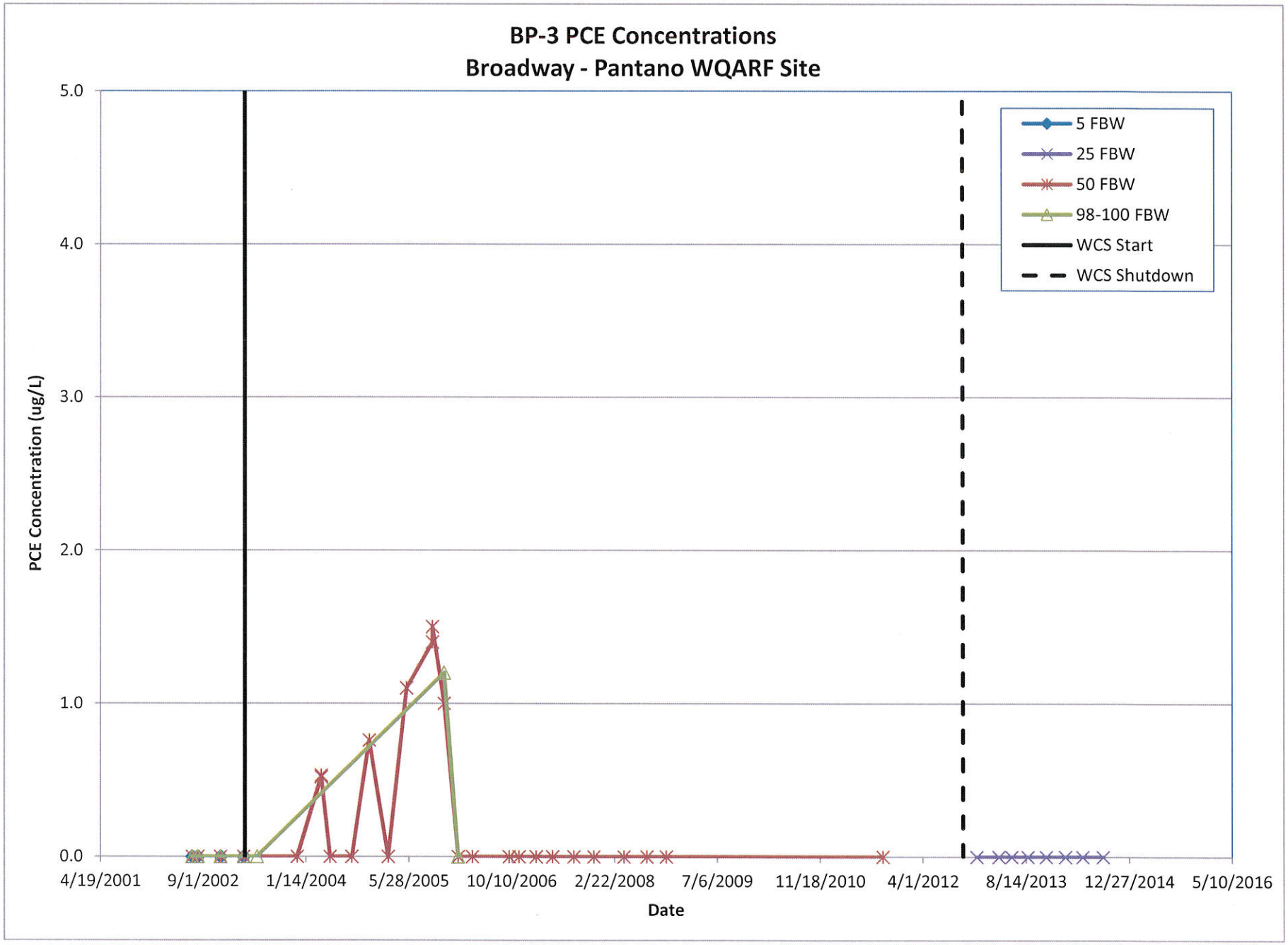
Figure 2
Tetrachloroethene (PCE) Groundwater Concentration Map
Broadway Pantano WQARF Site
3rd Quarter 2014

Drawn By:	LE
Checked:	DB/LC
Approved:	NP
Date:	10/15/2014
File:	See Below

J:GIS\Broadway\2014\PCE3Q2014.mxd

APPENDIX A
PCE Concentration Charts for Selected Monitor Wells


BP-2 PCE Concentrations
Broadway - Pantano WQARF Site
PCE Concentration (ug/L)
25.0
20.0
15.0
10.0
5.0
0.0
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
Date
5 FBW
25 FBW
50 FBW
100-107 FBW
WCS Start
WCS Shutdown


BP-3 PCE Concentrations
Broadway - Pantano WQARF Site
PCE Concentration (ug/L)
5.0
4.0
3.0
2.0
1.0
0.0
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
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12/27/2014
5/10/2016
Date
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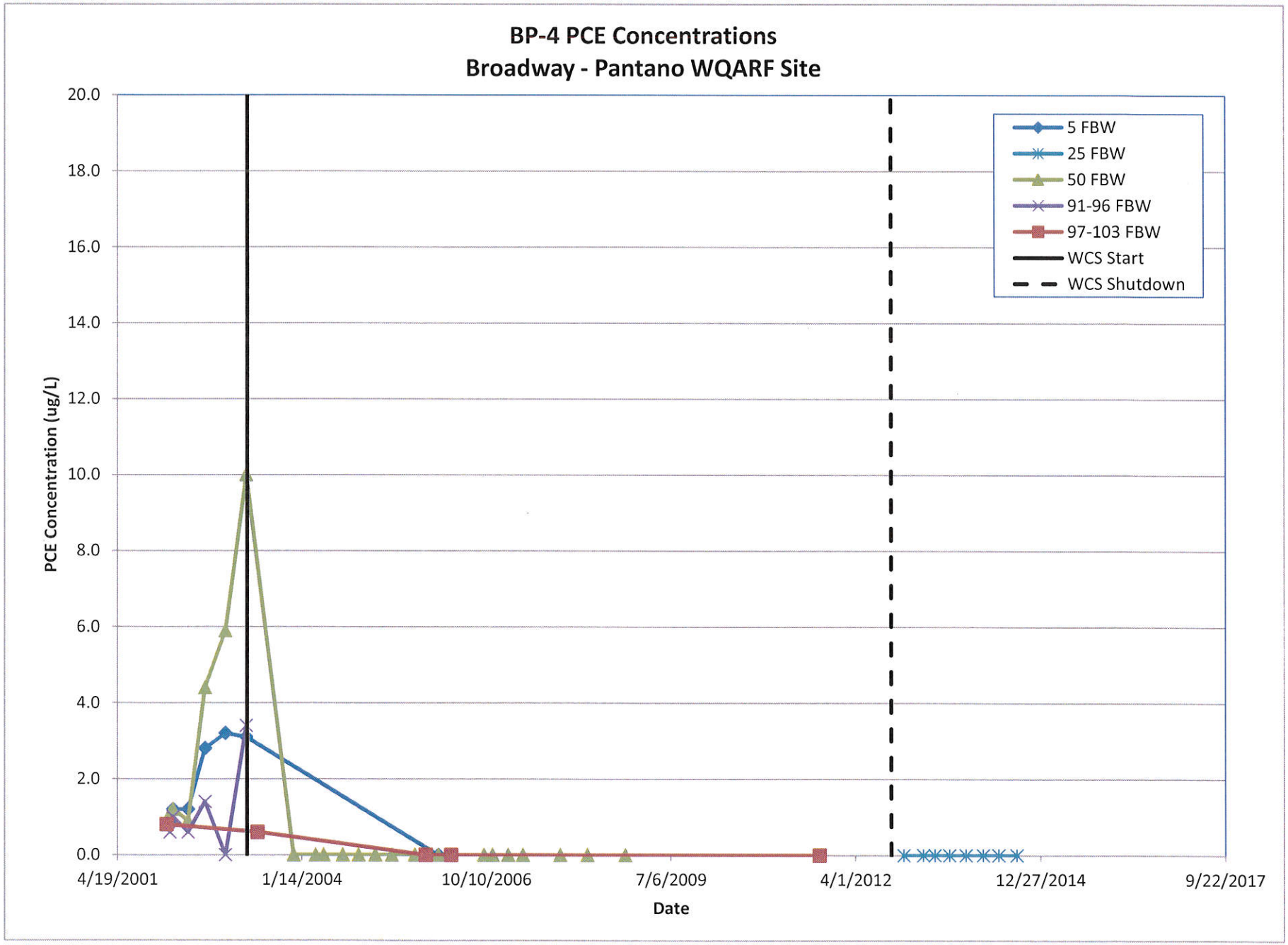
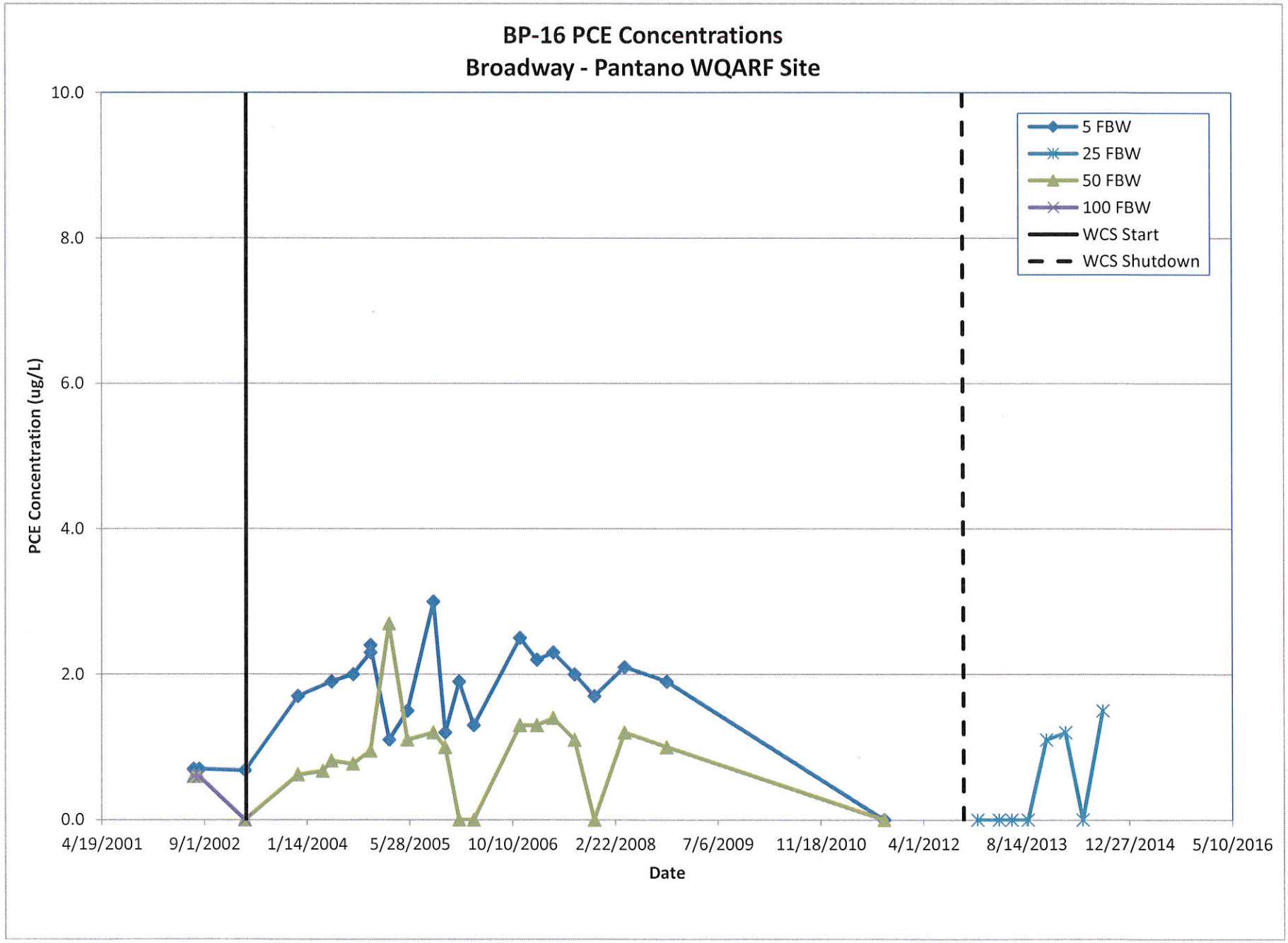
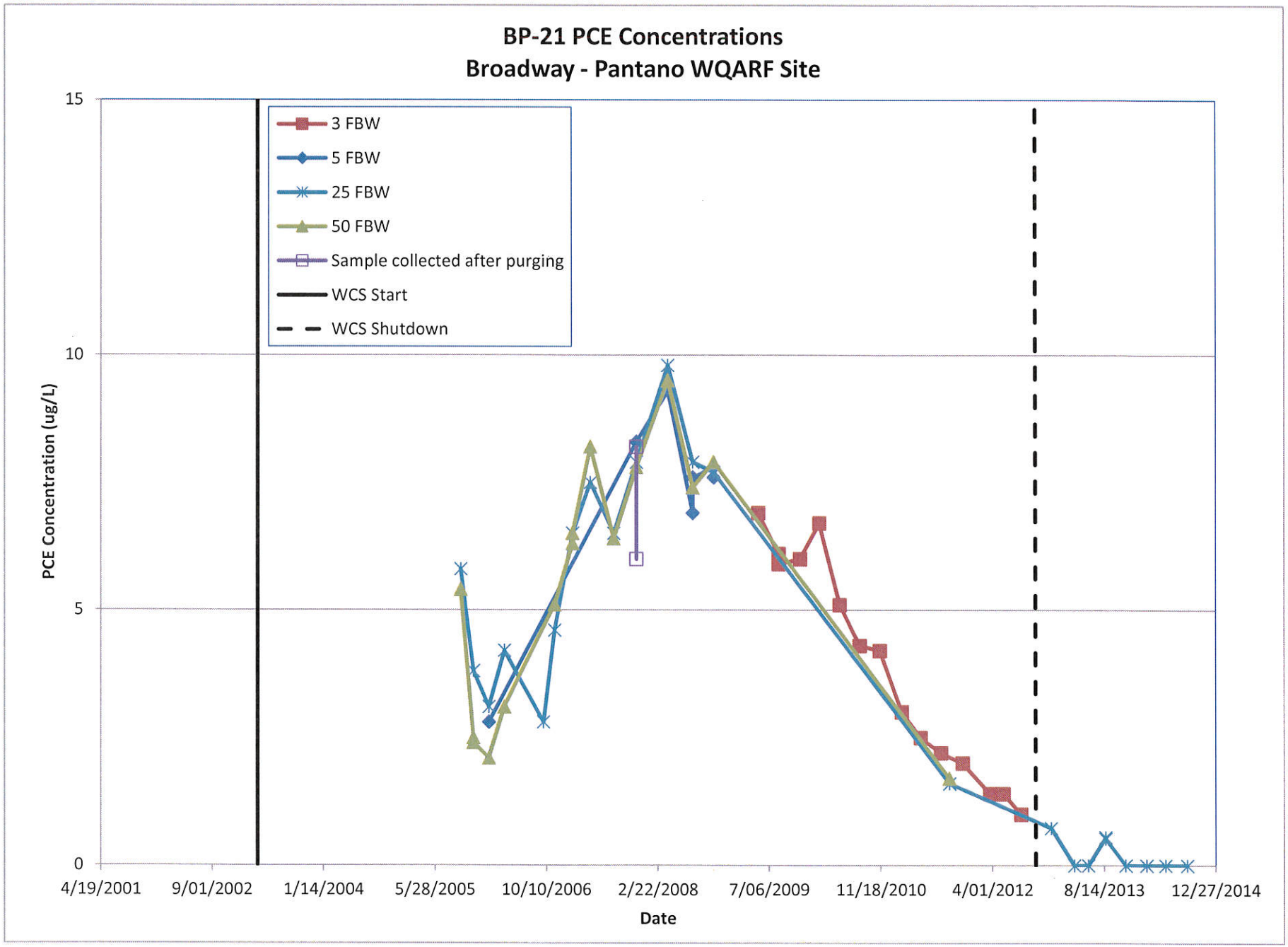
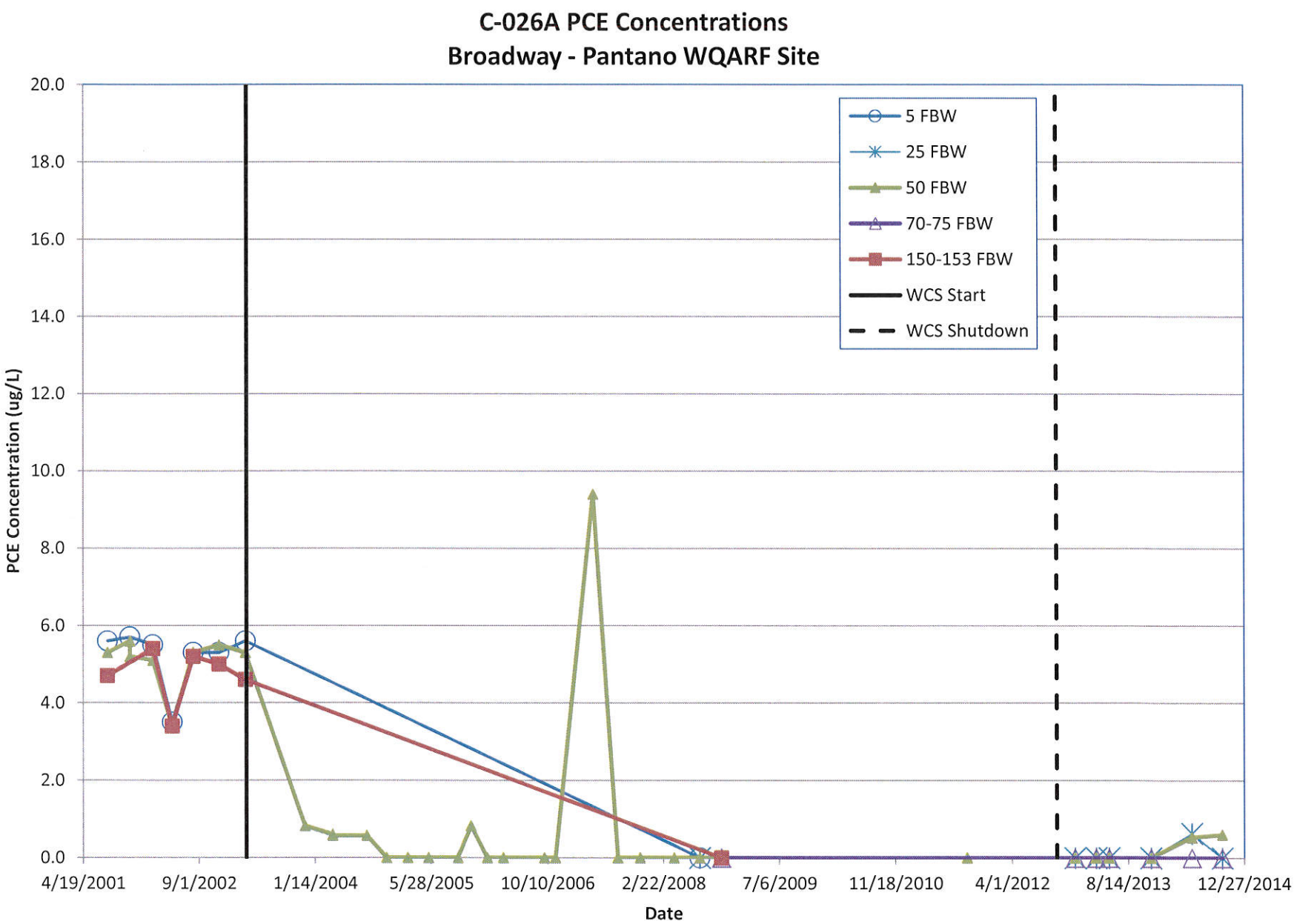
50 FBW
98-100 FBW
WCS Start
WCS Shutdown

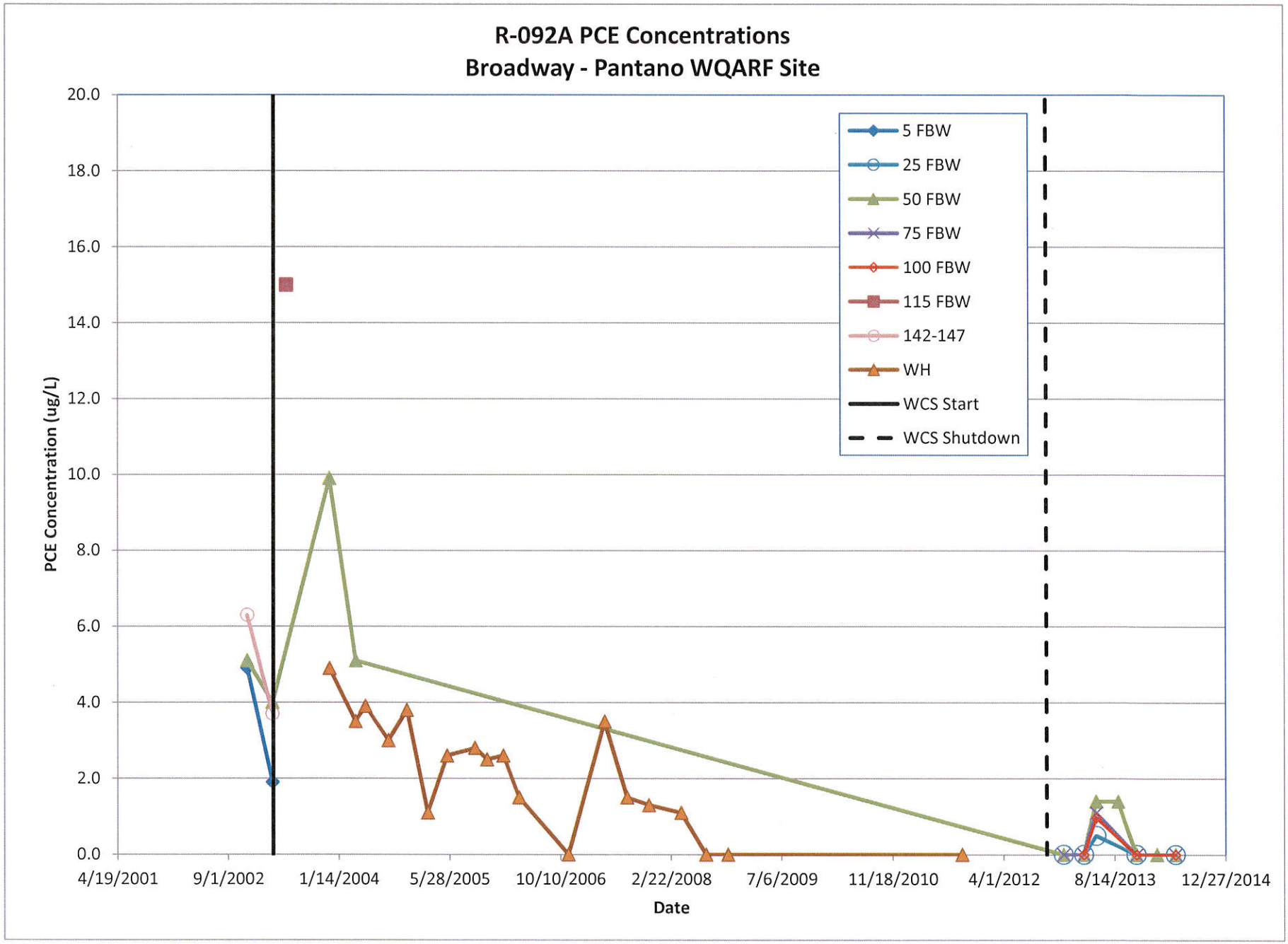

BP-4 PCE Concentrations
Broadway - Pantano WQARF Site
PCE Concentration (ug/L)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
Date
5 FBW
25 FBW
50 FBW
91-96 FBW
97-103 FBW
WCS Start
WCS Shutdown

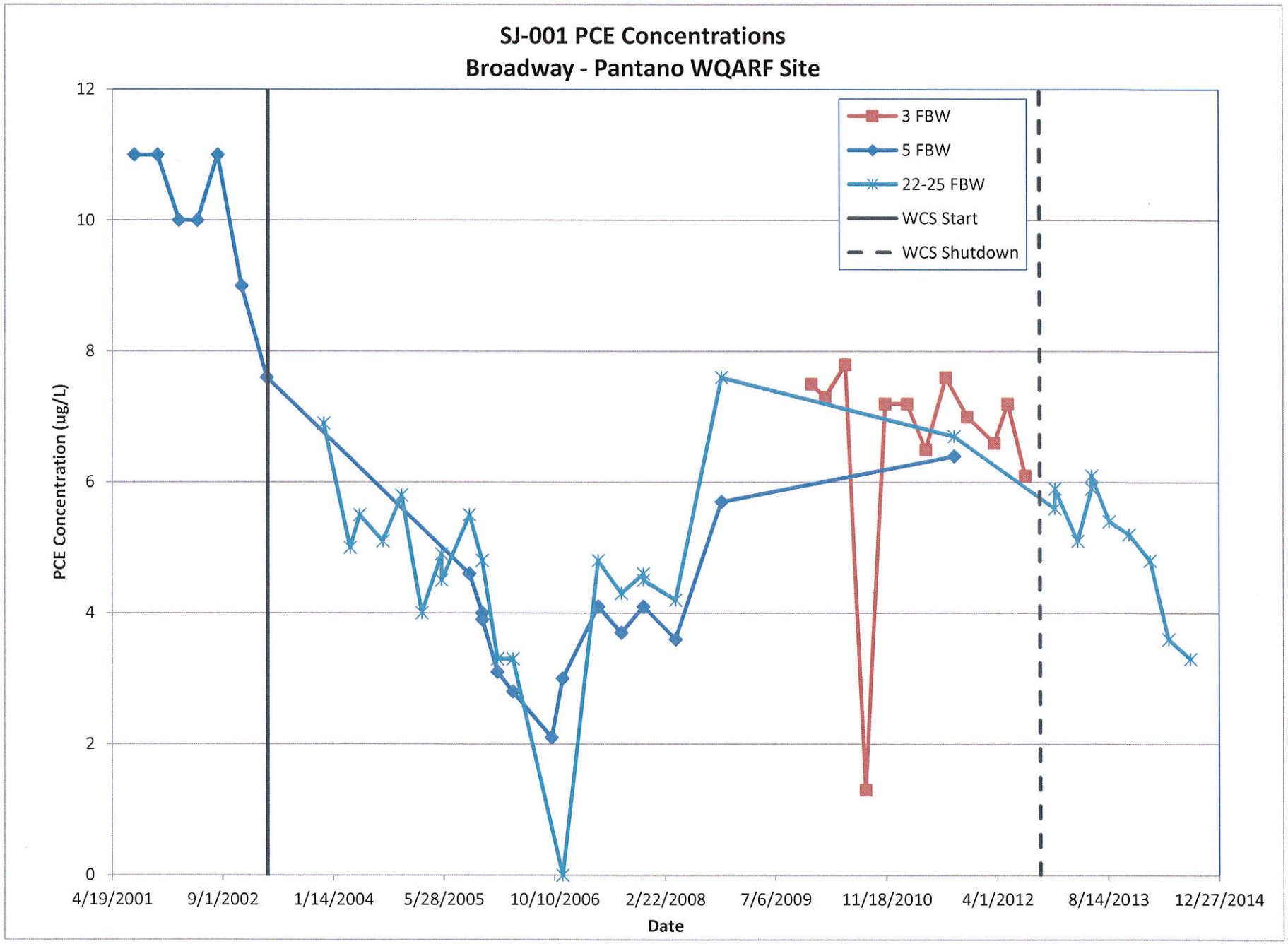

BP-16 PCE Concentrations
Broadway - Pantano WQARF Site
PCE Concentration (ug/L)
10.0
8.0
6.0
4.0
2.0
0.0
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
Date
5 FBW
25 FBW
50 FBW
100 FBW
WCS Start
WCS Shutdown

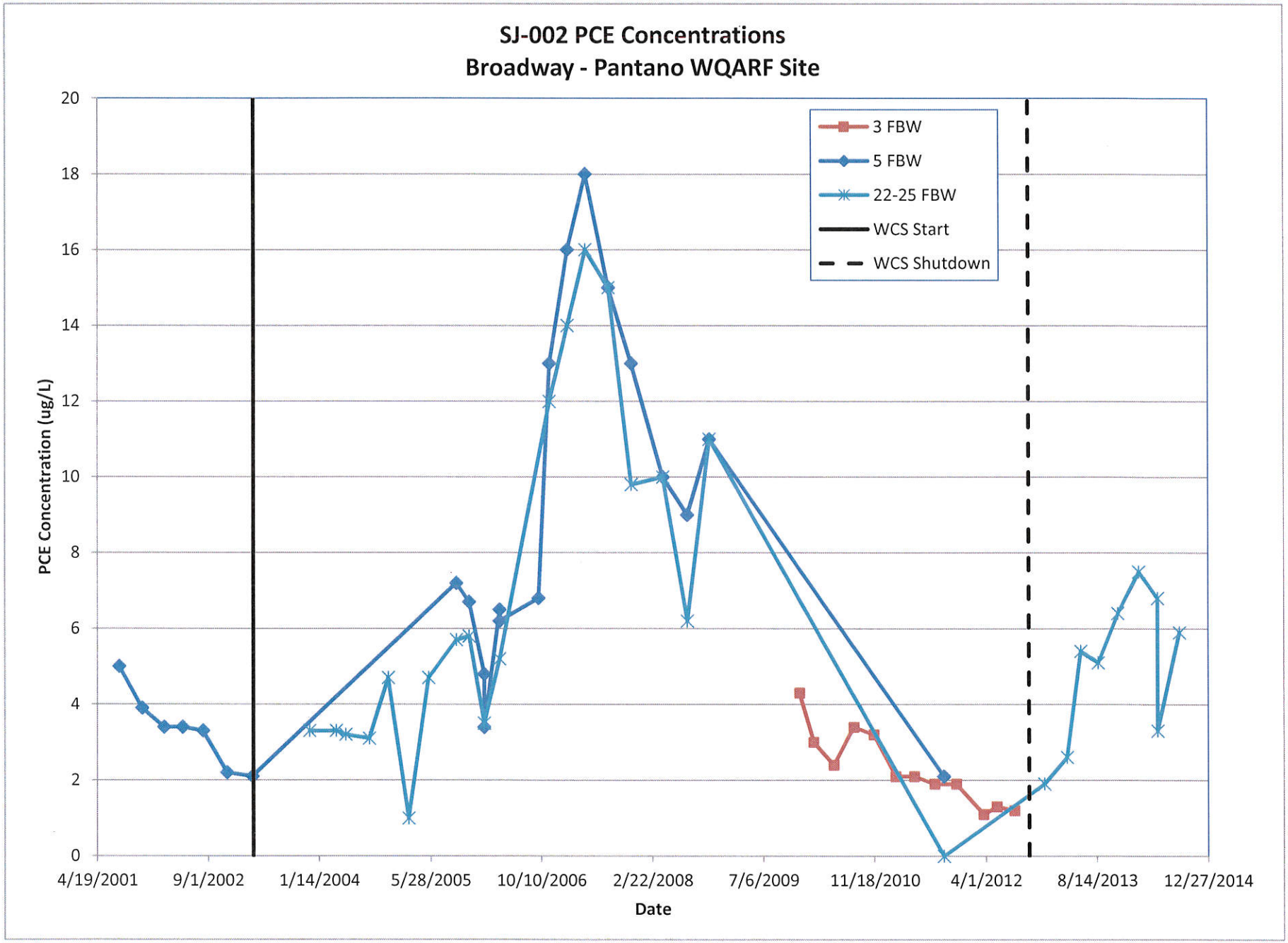

BP-21 PCE Concentrations
Broadway - Pantano WQARF Site
3 FBW
5 FBW
25 FBW
50 FBW
Sample collected after purging
WCS Start
WCS Shutdown
PCE Concentration (ug/L)
15
10
5
0
4/19/2001
9/01/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/06/2009
11/18/2010
4/01/2012
8/14/2013
12/27/2014
Date

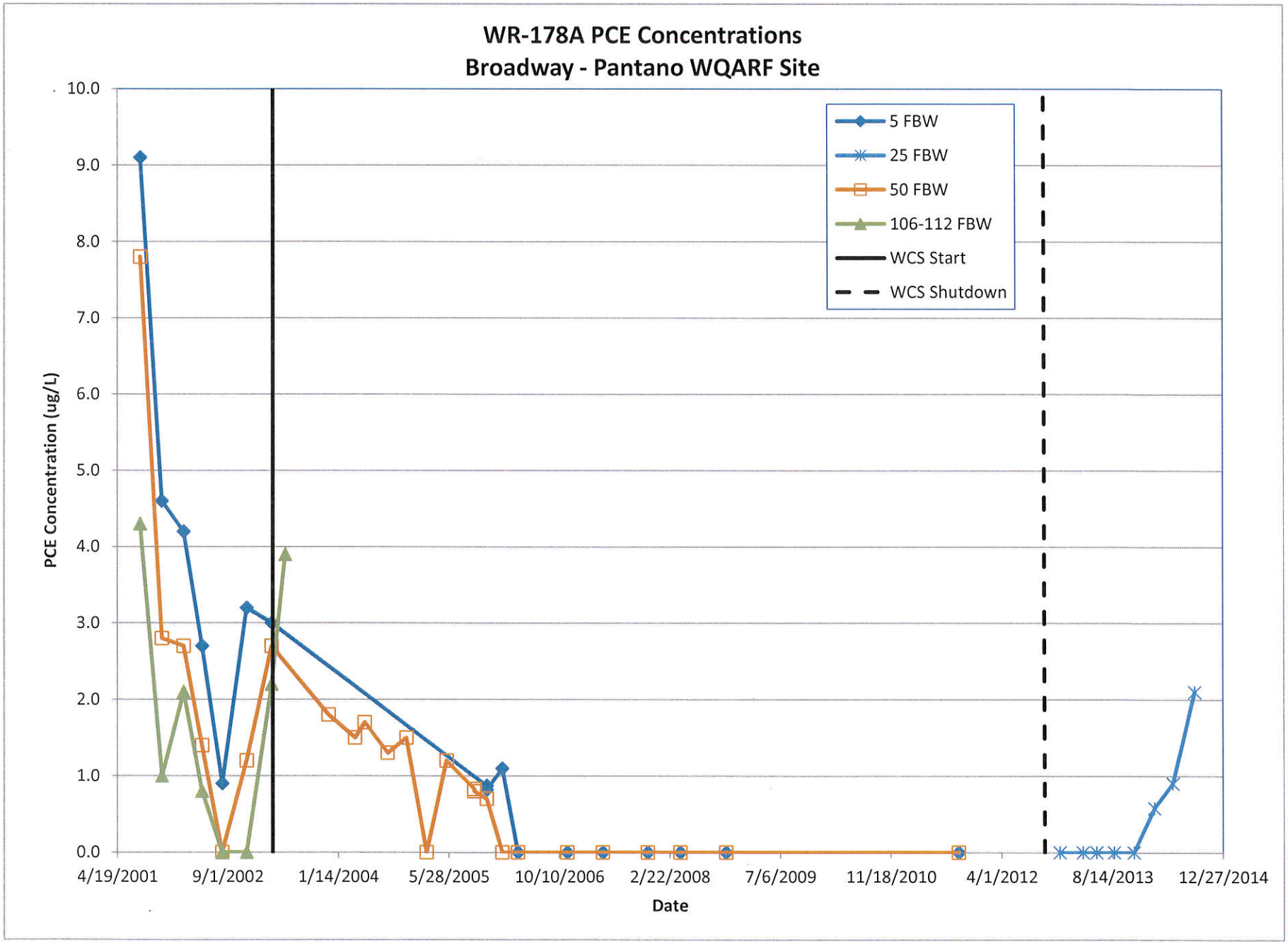


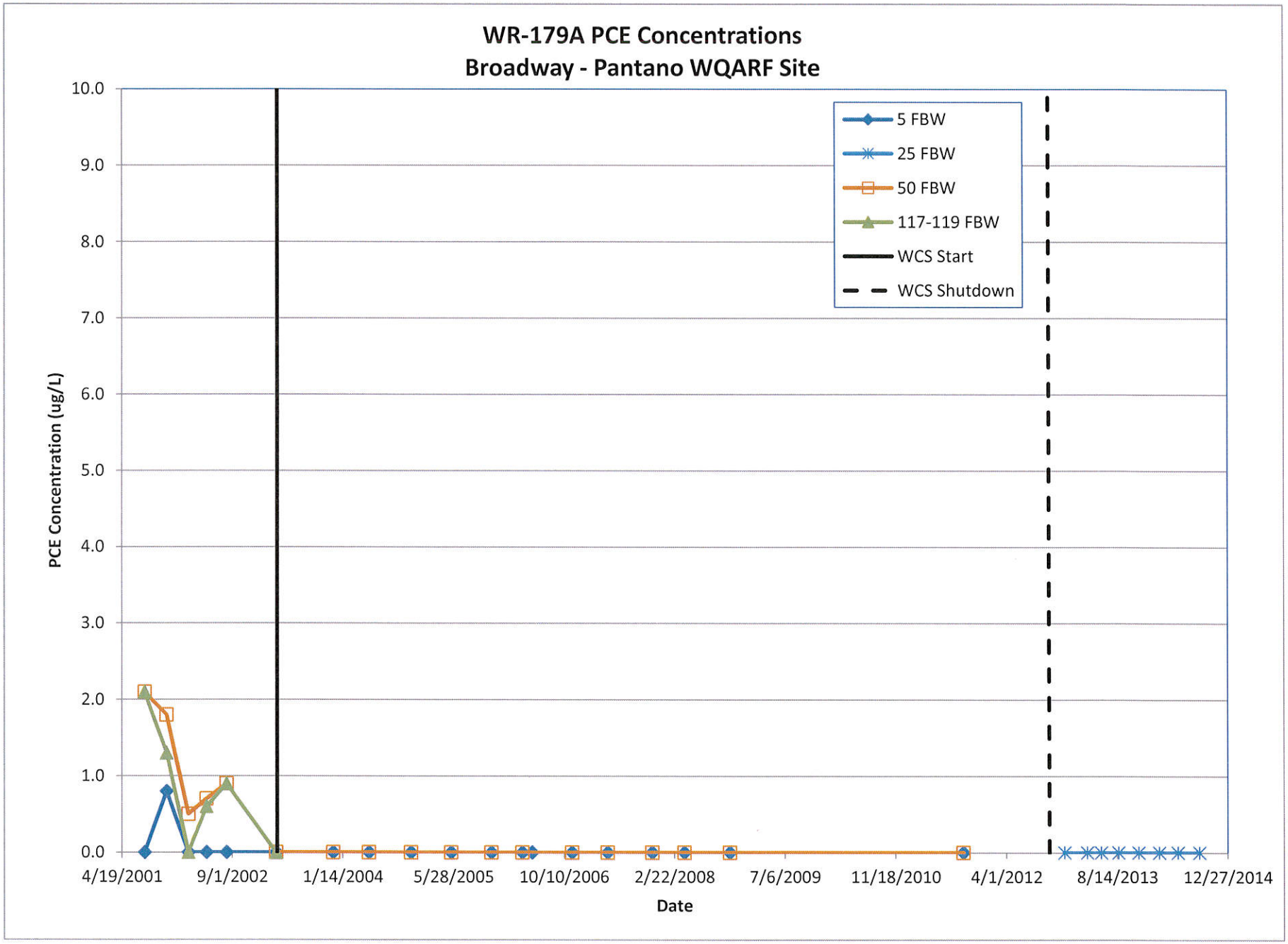
Only select depths charted.

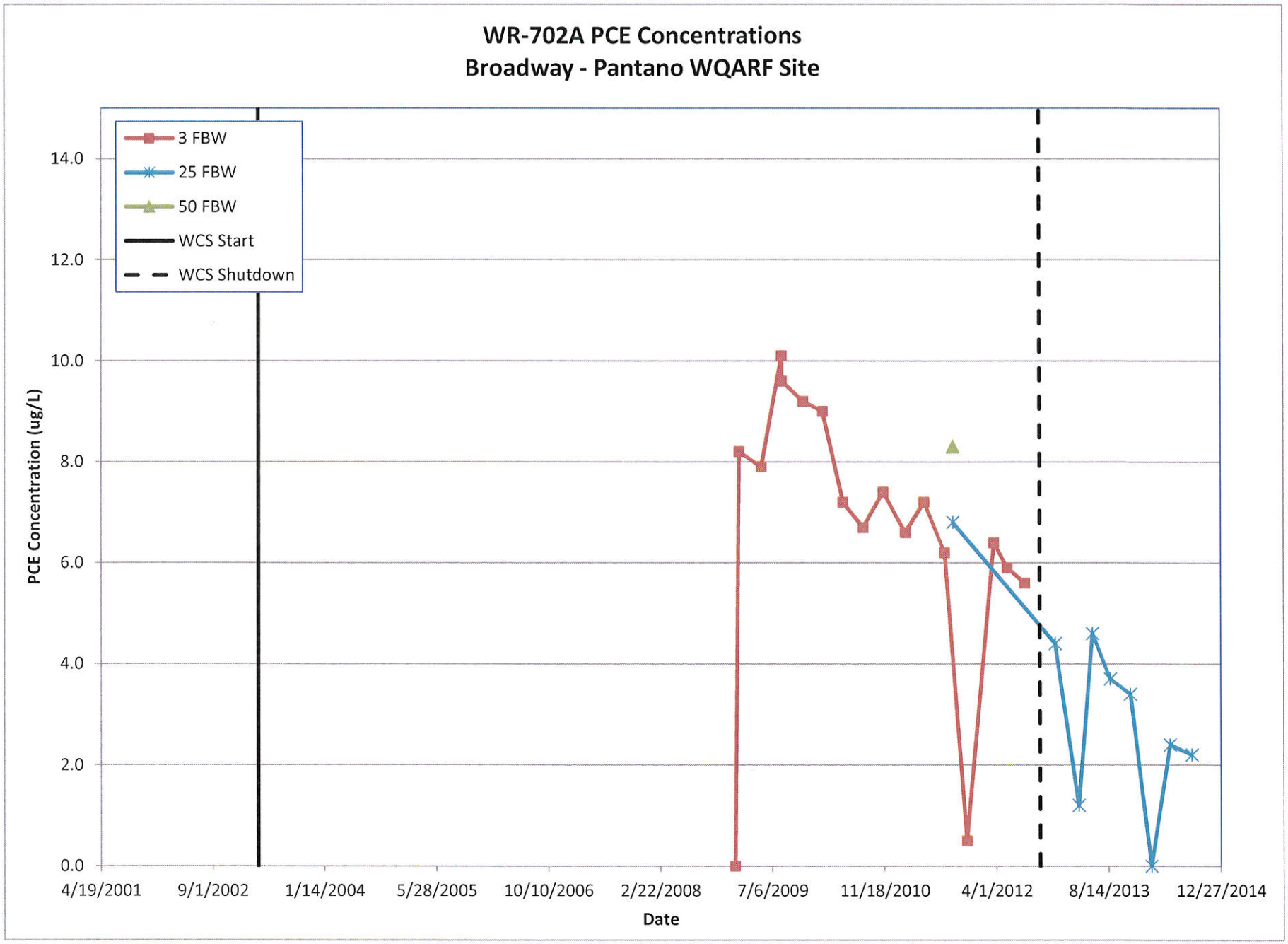

R-092A PCE Concentrations
Broadway - Pantano WQARF Site
PCE Concentration (ug/L)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
Date
5 FBW
25 FBW
50 FBW
75 FBW
100 FBW
115 FBW
142-147
WH
WCS Start
WCS Shutdown

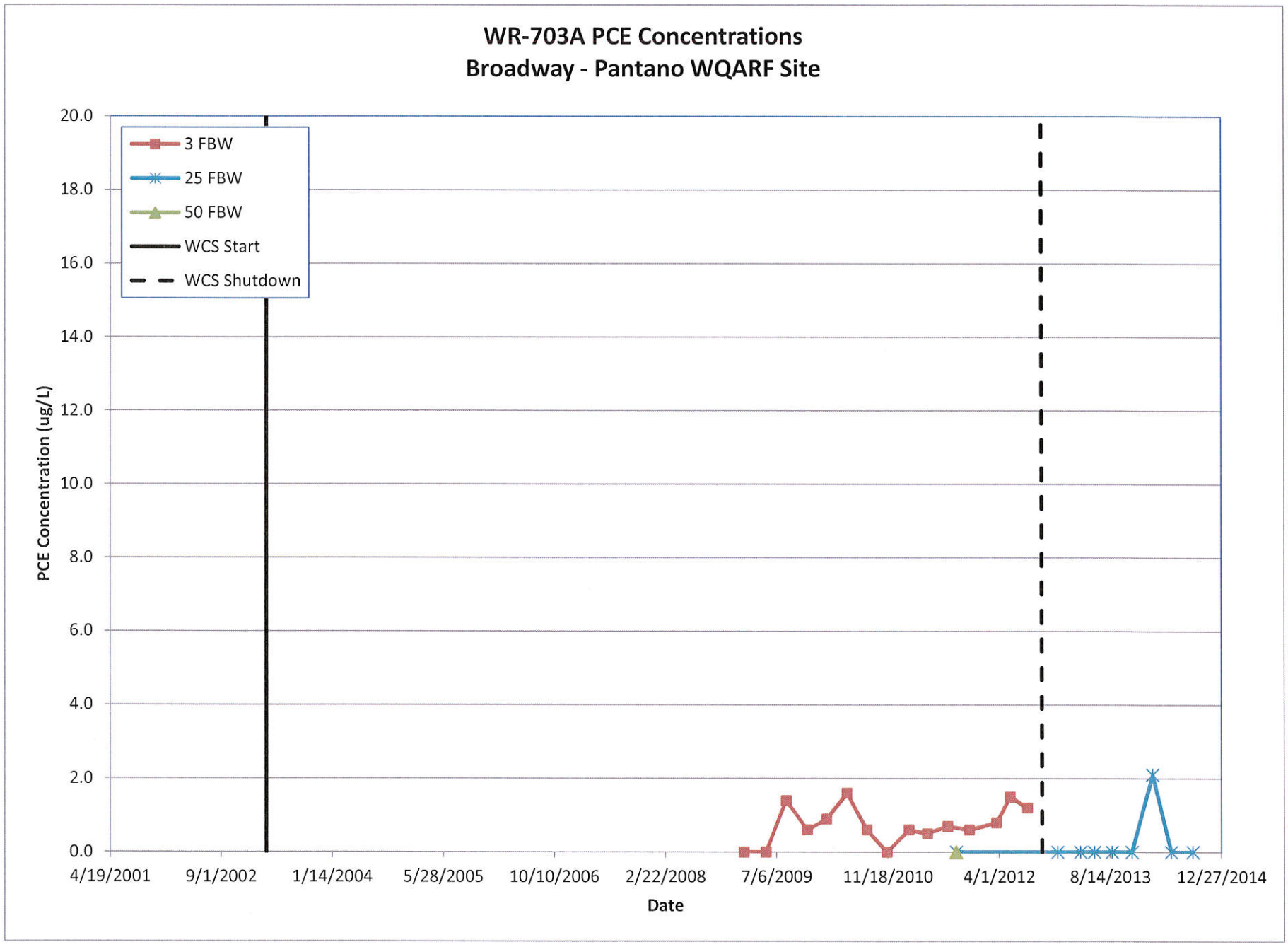

SJ-001 PCE Concentrations
Broadway - Pantano WQARF Site
PCE Concentration (ug/L)
12
10
8
6
4
2
0
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
Date
3 FBW
5 FBW
22-25 FBW
WCS Start
WCS Shutdown

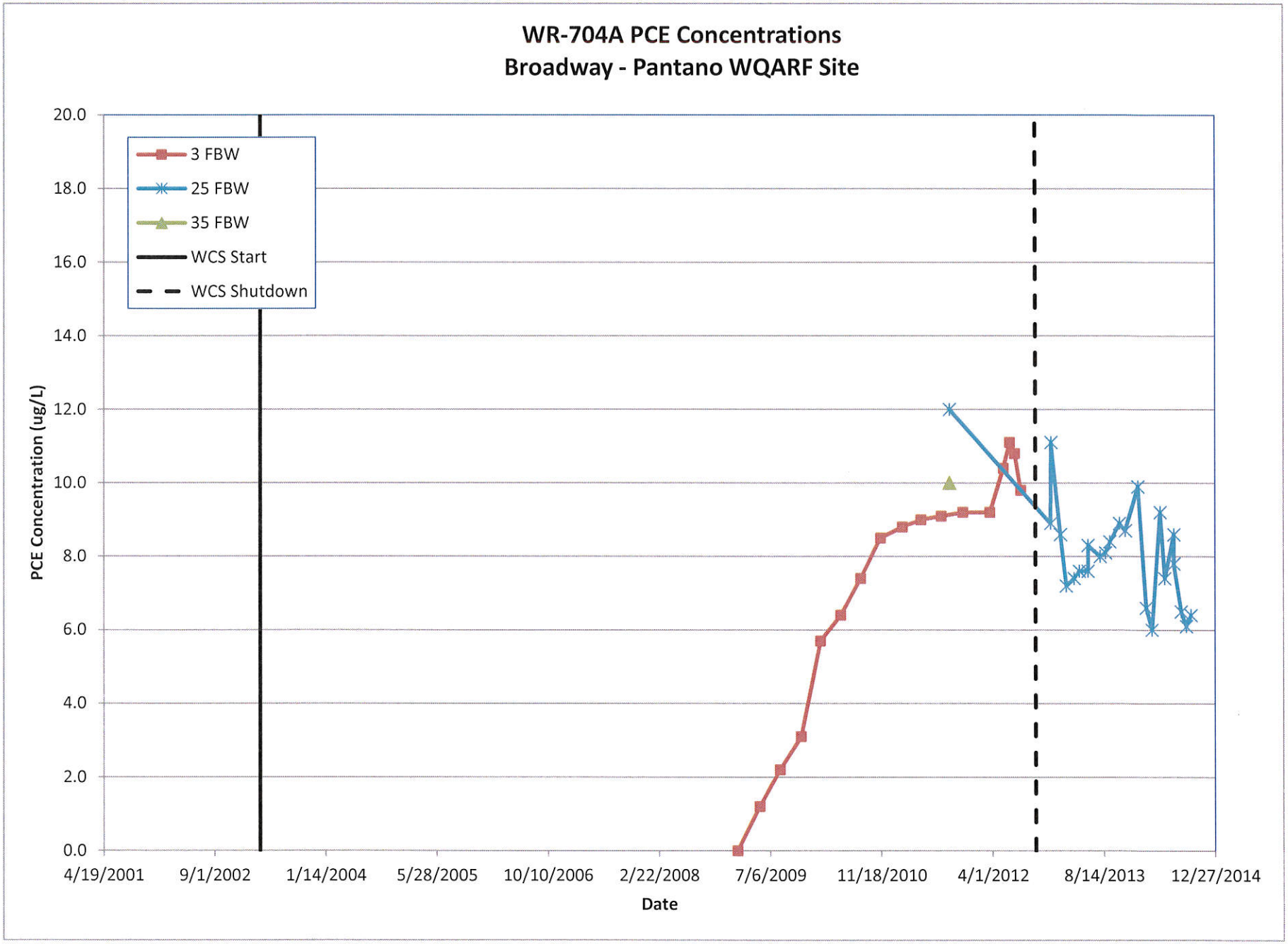

SJ-002 PCE Concentrations
Broadway - Pantano WQARF Site
PCE Concentration (ug/L)
20
18
16
14
12
10
8
6
4
2
0
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
Date
3 FBW
5 FBW
22-25 FBW
WCS Start
WCS Shutdown


WR-178A PCE Concentrations
Broadway - Pantano WQARF Site
PCE Concentration (ug/L)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
Date
5 FBW
25 FBW
50 FBW
106-112 FBW
WCS Start
WCS Shutdown


WR-179A PCE Concentrations
Broadway - Pantano WQARF Site
PCE Concentration (ug/L)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
Date
5 FBW
25 FBW
50 FBW
117-119 FBW
WCS Start
WCS Shutdown


WR-702A PCE Concentrations
Broadway - Pantano WQARF Site
3 FBW
25 FBW
50 FBW
WCS Start
WCS Shutdown
PCE Concentration (ug/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
Date


WR-703A PCE Concentrations
Broadway - Pantano WQARF Site
3 FBW
25 FBW
50 FBW
WCS Start
WCS Shutdown
PCE Concentration (ug/L)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
Date


WR-704A PCE Concentrations
Broadway - Pantano WQARF Site
3 FBW
25 FBW
35 FBW
WCS Start
WCS Shutdown
PCE Concentration (ug/L)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
Date

APPENDIX B

Summary of Groundwater Quality Data, Selected VOCs
2001 –1st Quarter 2014

Summary of Groundwater Quality Data, Selected VOCs
2001 through 3rd Quarter 2014
Broadway-Pantano WQARF Site

Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
					Aquifer Water Quality Standards	*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
Mayo	WH	WH	11/6/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
CVA	Well Head	WH	9/28/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<4.0
CVA		WH	11/21/2011			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
CVA		WH	3/22/2012			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
CVA		WH	5/21/2012			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
CVA		WH	6/19/2012			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
CVA		WH	7/10/2012			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
CVA		WH	8/8/2012			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
CVA		WH	9/11/2012			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
CVA		WH	10/2/2012			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
CVA		WH	11/6/2012			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
CVA		WH	12/4/2012			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
CVA		WH	1/31/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CVA		WH	2/26/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CVA		WH	2/26/2013	(2,7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CVA		WH	3/26/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CVA		WH	4/2/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CVA		WH	4/2/2013	(2,7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CVA		WH	4/25/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
CVA		WH	5/23/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
CVA		WH	6/4/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
CVA		WH	7/29/2013			<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
CVA		WH	8/22/2013			<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
CVA		WH	8/22/2013	(2)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
CVA		WH	9/11/2013			<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
CVA		WH	10/24/2013			<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
CVA		WH	11/19/2013			<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
CVA		WH	12/26/2013			<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
CVA		WH	1/14/2014			<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
CVA		WH	2/20/2014			<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
CVA		WH	3/18/2014			<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
CVA		WH	4/24/2014			<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
CVA		WH	5/15/2014			<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
411-P	Well Head	WH	12/3/2003			**4.2**	**0.64**	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
411-P		WH	3/29/2004			**4.5**	**0.73**	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
411-P		WH	5/11/2004			**3.5**	**0.66**	<0.50	<0.50	**0.51**	<3.0	<0.50	**2.5**
411-P		WH	8/24/2004			NS	NS	NS	NS	NS	NS	NS	NS
411-P		WH	9/9/2004	(7)		**4.5**	**0.7**	<0.50	<0.50	**0.5**	<0.50	<0.50	**1.1**
411-P		WH	11/17/2004			NS	NS	NS	NS	NS	NS	NS	NS
411-P		WH	12/6/2004	(7)		**5.4**	**0.9**	<0.50	<0.50	**0.6**	<0.50	<0.50	**1.7**
411-P		WH	2/18/2005			NS	NS	NS	NS	NS	NS	NS	NS
411-P		WH	3/14/2005	(7)		**5.3**	**1.0**	<0.50	NA	**0.7**	<0.50	<0.50	**2.0**
411-P		WH	5/17/2005			**4.2**	**0.84**	<0.50	<0.50	**0.66**	<3.0	<0.50	**2.3**
411-P		WH	9/19/2005			**6.2**	**1.1**	<0.50	<0.50	**0.78**	<3.0	<0.50	**3.1**
411-P		WH	11/17/2005			NS	NS	NS	NS	NS	NS	NS	NS
411-P		WH	1/26/2006			**2.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
411-P		WH	2/15/2006	(7)		**5.9**	**1.2**	<0.50	<0.50	**0.8**	<0.50	<0.50	**1.7**
411-P		WH	3/1/2006	(7)		**6.0**	**1.1**	<0.50	<0.50	**0.8**	<0.50	<0.50	**1.6**
411-P		WH	4/7/2006			**4.0**	**1.0**	<1.0	<1.0	<1.0	<5.0	<1.0	**1.9**
411-P		WH	9/28/2006			**2.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
411-P		WH	10/2/2006	(7)		<0.50	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.4**
411-P		WH	11/16/2006			**3.7**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0

Summary of Groundwater Quality Data, Selected VOCs
2001 through 3rd Quarter 2014
Broadway-Pantano WQARF Site

Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
					Aquifer Water Quality Standards	*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
411-P		WH	1/5/2007	(7)		**8.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1**
411-P		WH	2/6/2007			**5.5**	**1.3**	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
411-P		WH	4/27/2007			NS	NS	NS	NS	NS	NS	NS	NS
411-P		WH	8/7/2007			**4.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
411-P		WH	11/14/2007			**3.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
411-P		WH	12/3/2007	(7)		**4.7**	**0.8**	<0.50	<0.50	**0.7**	<0.50	<0.50	**1.4**
411-P		WH	12/3/2007	(2,7)		**4.6**	**0.8**	<0.50	<0.50	**0.6**	<0.50	<0.50	**1.2**
411-P		WH	3/3/2008	(7)		**3.4**	**0.5**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.9**
411-P		WH	3/3/2008	(2,7)		**3.5**	**0.7**	<0.50	<0.50	**0.6**	<0.50	<0.50	**1.0**
411-P		WH	4/9/2008			**2.7**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
411-P		WH	11/5/2008			**3.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
411-P		WH	9/28/2011			NS	NS	NS	NS	NS	NS	NS	NS
416-P	Well Head	WH	12/3/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
416-P	Well Head	WH	12/3/2003	(2)		<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
416-P	Well Head	WH	3/29/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
416-P	Well Head	WH	5/13/2004			**0.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
416-P	Well Head	WH	7/15/2004	(4)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
416-P	Well Head	WH	8/24/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
416-P	Well Head	WH	9/22/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
416-P	Well Head	WH	11/16/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
416-P	Well Head	WH	2/18/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
416-P	Well Head	WH	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
416-P	Well Head	WH	9/19/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
416-P	Well Head	WH	11/14/2005			<2.0	<2.0	<5.0	<2.0	<2.0	<5.0	<2.0	<5.0
416-P	Well Head	WH	1/26/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
416-P	Well Head	WH	4/7/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
416-P	Well Head	WH	9/28/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
416-P	Well Head	WH	11/16/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
416-P	Well Head	WH	4/27/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
416-P	Well Head	WH	11/14/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
416-P	Well Head	WH	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
416-P	Well Head	WH	10/31/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
416-P	Well Head	WH	9/21/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<4.0
BP-1	5	5	1/28/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1	5	5	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1	5	5	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1	5	5	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1	5	5	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1	5	5	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		50	1/28/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		50	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		50	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		50	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		50	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		50	11/25/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		50	12/3/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-1		50	3/29/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-1		50	5/11/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-1		50	8/24/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-1		50	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-1		50	2/17/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-1		50	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0

Summary of Groundwater Quality Data, Selected VOCs
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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			***5***	***5***	***2***	***5***	***70***	***5***	***100***	***NE***
BP-1	50	50	9/20/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-1		50	11/15/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-1		50	1/23/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-1		50	4/3/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-1		50	9/28/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-1		50	11/13/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-1		50	2/5/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-1		50	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-1		50	8/8/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-1		50	11/14/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-1		50	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-1		50	7/28/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-1		50	10/31/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-1		50	9/19/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-1	104-106	104	1/28/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		105	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		106	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		106	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		107	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		106	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-1		106	5/20/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-2	5	5	1/11/2002			**4.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
BP-2		5	1/28/2002			**3.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
BP-2		5	2/13/2002			**5.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.6**
BP-2		5	5/8/2002			**4.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.6**
BP-2		5	8/8/2002			**3.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.7**
BP-2		5	11/25/2002			**2.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-2		5	3/19/2003			**1.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-2		5	1/25/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		5	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-2		5	11/13/2007	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-2		5	10/31/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-2	25	25	9/21/2005			**0.9**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-2		25	11/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-2		25	1/25/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		25	4/3/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		25	4/3/2006	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		25	9/28/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		25	11/13/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		25	11/13/2006	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		25	2/5/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		25	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		25	8/8/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		25	8/8/2007	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		25	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-2		25	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-2		25	7/28/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-2		25	10/31/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-2		25	9/19/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-2		25	12/18/2012			<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50
BP-2		25	4/2/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
BP-2		25	6/4/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-2		25	8/22/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-2		25	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-2		25	2/20/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-2		25	5/15/2014	(16)		**1.1**	<0.5	<0.5	<1	<0.5	<5	<0.5	0.58
BP-2		25	8/21/2014	(16)	**X**	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-2		50	1/11/2002			**7.6**	**0.5**	<0.50	<0.50	<0.50	<1.0	<0.50	**2.0**
BP-2		50	1/28/2002			**13.0**	**0.8**	<0.50	<0.50	<0.50	<1.0	<0.50	**3.4**
BP-2		50	2/13/2002			**13.0**	**1.0**	<0.50	<0.50	<0.50	<1.0	<0.50	**4.7**
BP-2		50	5/8/2002			**16.0**	**0.9**	<0.50	<0.50	<0.50	<1.0	<0.50	**4.5**
BP-2		50	8/8/2002			**13.0**	**0.7**	<0.50	<0.50	<0.50	<1.0	<0.50	**3.6**
BP-2		50	11/25/2002			**10.0**	**0.62**	<0.50	<0.50	<0.50	<1.0	<0.50	**3.1**
BP-2		50	3/19/2003			**9.5**	**0.53**	<0.50	<0.50	<0.50	<1.0	<0.50	**2.7**
BP-2		50	12/2/2003			**18.0**	**1.3**	<0.50	<0.50	**0.58**	<3.0	<0.50	**12**
BP-2		50	3/29/2004			**17.0**	**1.4**	<0.50	<0.50	**0.61**	<3.0	<0.50	**12**
BP-2		50	5/12/2004			**20.0**	**1.5**	<0.50	<0.50	**0.66**	<3.0	<0.50	**14**
BP-2		50	8/25/2004			**16.0**	**1.3**	<0.50	<0.50	**0.58**	<3.0	<0.50	**7.1**
BP-2		50	11/18/2004			**19.0**	**1.6**	<0.50	<0.50	**0.60**	<3.0	<0.50	**8.9**
BP-2		50	2/18/2005			**9.4**	**1.3**	<1.0	<1.0	<1.0	<5.0	<1.0	**3.3**
BP-2	50	50	2/18/2005	(2)		**9.4**	**1.3**	<1.0	<1.0	<1.0	<5.0	<1.0	**3.6**
BP-2		50	5/18/2005			**8.6**	**0.77**	<0.50	<0.50	<0.50	<3.0	<0.50	**4.9**
BP-2		50	9/21/2005			**3.4**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**3.1**
BP-2		50	11/17/2005			**1.4**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-2		50	1/25/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		50	4/3/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		50	11/13/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.1**
BP-2		50	2/5/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		50	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		50	8/8/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		50	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-2		50	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-2		50	7/28/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-2		50	10/31/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-2		50	9/19/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-2		100	1/11/2002			**8.2**	**0.5**	<0.50	<0.50	<0.50	<1.0	<0.50	**2.0**
BP-2		104	1/28/2002			**12.0**	**0.6**	<0.50	<0.50	<0.50	<1.0	<0.50	**2.8**
BP-2		105	2/13/2002			**8.3**	**0.6**	<0.50	<0.50	<0.50	<1.0	<0.50	**2.4**
BP-2		105	5/8/2002			**7.6**	<0.5	<0.50	<0.50	<0.50	<1.0	<0.50	**2.3**
BP-2		106	8/8/2002			**12.0**	**0.7**	<0.50	<0.50	<0.50	<1.0	<0.50	**3.8**
BP-2	100-107	106	11/25/2002			**11.0**	**0.58**	<0.50	<0.50	<0.50	<1.0	<0.50	**3.0**
BP-2		107	3/19/2003			**8.7**	**0.51**	<0.50	<0.50	<0.50	<1.0	<0.50	**2.8**
BP-2		105	5/20/2003			**11.0**	**0.7**	<0.50	<0.50	<0.50	<1.0	<0.50	**4.1**
BP-2		100	11/17/2005			**1.3**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-2		100	4/3/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-2		100	9/19/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-2		100	9/19/2011	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-2			8/16/2011	(7)		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06
BP-2	Grab		9/1/2011	(7)		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BP-2			11/21/2011	(7)		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06
BP-3		5	7/10/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-3		5	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-3	5	5	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-3		5	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-3	25	25	12/18/2012			<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	**0.56**
BP-3		25	4/2/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
BP-3		25	6/4/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
BP-3		25	8/22/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.6**
BP-3		25	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.50
BP-3		25	2/20/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.61**
BP-3		25	5/15/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.75**
BP-3		25	8/21/2014	(16)	**X**	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.50
BP-3	50	50	7/10/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-3		50	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-3		50	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-3		50	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-3		50	12/3/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-3		50	3/29/2004			**0.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-3		50	3/29/2004	(2)		**0.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-3		50	5/11/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-3		50	8/24/2004			<5.0	<5.0	<5.0	<5.0	<5.0	<30	<5.0	<20
BP-3		50	11/17/2004			**0.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-3		50	2/17/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-3		50	2/17/2005	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-3		50	5/17/2005			**1.1**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-3		50	9/21/2005	(2)		**1.4**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.0**
BP-3		50	9/21/2005			**1.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-3		50	11/17/2005			**1.0**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-3		50	1/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-3		50	4/3/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.1**
BP-3		50	9/27/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-3		50	11/14/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-3		50	2/5/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-3		50	4/26/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-3		50	8/8/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-3		50	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-3		50	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-3		50	7/28/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-3		50	10/31/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-3		50	9/19/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-3	98-100	98	7/10/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-3		98	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-3		99	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-3		99	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-3		100	5/21/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-3		100	11/17/2005			**1.2**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-3		100	1/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-4	5	5	1/11/2002			**0.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-4		5	1/28/2002			**0.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-4		5	2/13/2002			**1.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
BP-4		5	5/7/2002			**1.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.8**
BP-4		5	8/7/2002			**2.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.5**
BP-4		5	11/25/2002			**3.2**	**0.56**	<0.50	<0.50	<0.50	<1.0	<0.50	**1.9**
BP-4		5	3/19/2003			**3.1**	**0.58**	<0.50	<0.50	<0.50	<1.0	<0.50	**1.9**
BP-4		5	1/23/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-4		25	12/18/2012			<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50

Summary of Groundwater Quality Data, Selected VOCs
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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-4	25	25	4/2/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
BP-4		25	6/4/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
BP-4		25	8/22/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-4		25	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-4		25	2/20/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-4		25	5/15/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.56**
BP-4		25	8/21/2014	(16)	X	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-4	50	50	1/11/2002			**0.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
BP-4		50	1/28/2002			**1.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
BP-4		50	2/13/2002			**1.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
BP-4		50	5/7/2002			**0.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
BP-4		50	8/7/2002			**4.4**	**0.7**	<0.50	<0.50	<0.50	<1.0	<0.50	**2.5**
BP-4		50	11/25/2002			**5.9**	**1.0**	<0.50	<0.50	<0.50	<1.0	<0.50	**3.4**
BP-4		50	3/19/2003			**10.0**	**2.0**	<0.50	<0.50	**1.2**	<1.0	<0.50	**6.4**
BP-4		50	12/2/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-4		50	3/29/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-4		50	5/12/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-4		50	8/24/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-4		50	11/18/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-4		50	2/17/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-4		50	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-4		50	9/20/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.3**
BP-4		50	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-4		50	11/16/2005	(2)		<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-4		50	1/23/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-4		50	4/3/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-4		50	9/28/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-4		50	11/13/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-4		50	2/5/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-4		50	4/26/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.4**
BP-4		50	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-4		50	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-4		50	10/31/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-4		50	9/19/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-4	91-96	94	1/28/2002			**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-4		94	2/13/2002			**1.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-4		95	5/7/2002			**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-4		95	8/7/2002			**1.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.0**
BP-4		91	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.1**
BP-4		96	3/19/2003			**3.4**	**0.52**	<0.50	<0.50	<0.50	<1.0	<0.50	**2.0**
BP-4	97-103	99	1/11/2002			**0.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-4		103	5/20/2003			**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-4		100	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-4		100	4/3/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-4		100	9/19/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-5	5	5	1/28/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		5	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		5	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		5	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		5	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		5	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		25	12/18/2012			<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-5	25	25	4/1/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
BP-5		25	4/1/2013	(2,16)		<1	<1	<1	<1	<1	<2	<1	<1
BP-5		25	6/3/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
BP-5		25	8/22/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-5		25	11/18/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-5		25	2/19/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-5		25	5/14/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-5		25	8/21/2014	(16)	X	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-5	50	50	1/28/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		50	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		50	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		50	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		50	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		50	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		50	12/1/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-5		50	3/29/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-5		50	5/11/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-5		50	8/24/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-5		50	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-5		50	2/16/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-5		50	5/18/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-5		50	9/21/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-5		50	11/15/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-5		50	1/23/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-5		50	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-5		50	9/27/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-5		50	11/14/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-5		50	11/14/2006	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-5		50	2/5/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-5		50	4/24/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-5		50	8/8/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-5		50	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-5		50	4/9/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-5		50	11/3/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-5		50	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-5	100-102	100	1/28/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		100	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		101	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		101	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		102	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		102	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5		101	5/20/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-5	Grab		12/17/2009	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BP-5			2/18/2010	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BP-5			5/20/2010	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BP-5			8/18/2010	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BP-5			11/16/2010	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BP-5			2/22/2011	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BP-5			5/17/2011	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BP-5			8/16/2011	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BP-5			11/20/2011	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BP-5			3/22/2012	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
				Aquifer Water Quality Standards		*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-5			5/21/2012	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BP-5			8/8/2012	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BP-7	5	5	1/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		5	1/28/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		5	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		5	5/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		5	8/5/2002			**1.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		5	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		5	1/27/2005			**16.0**	**3.4**	<0.50	<0.50	**1.8**	<3.0	<0.50	<2.0
BP-7		5	2/17/2005			**5.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.0**
BP-7		5	2/17/2005	(2)		**2.8**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-7		5	3/14/2005			**9.6**	**2.3**	<0.50	<0.50	**1.2**	<3.0	<0.50	<2.0
BP-7		5	3/14/2005	(2)		**7.2**	**2.0**	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-7		5	4/22/2005			**14.0**	**3.9**	<1.0	<1.0	**2.0**	<5.0	<1.0	<1.0
BP-7		5	4/22/2005	(2)		**23.0**	**4.9**	<0.50	<1.0	**2.3**	<3.0	<0.5	<2.0
BP-7		5	5/18/2005			**24.0**	**5.4**	<0.50	<0.50	**2.8**	<3.0	<0.50	<2.0
BP-7		5	9/21/2005			**32.0**	**6.6**	<0.50	<0.50	**3.5**	<3.0	<0.50	<2.0
BP-7		5	11/18/2005			**28.0**	**6.1**	<0.50	<0.50	**2.7**	<2.0	<0.50	<1.0
BP-7		5	1/25/2006			**23.0**	**6.0**	<1.0	<1.0	**2.8**	<5.0	<1.0	<1.0
BP-7		5	4/6/2006			**18.0**	**5.5**	<1.0	<1.0	**2.6**	<5.0	<1.0	<1.0
BP-7		5	8/7/2007			**29.0**	**6.0**	<1.0	<1.0	**2.8**	<5.0	<1.0	<1.0
BP-7		5	11/16/2007			**1.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-7		5	11/16/2007	(2)		**2.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-7		5	4/8/2008			**1.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-7		5	4/8/2008	(2)		**1.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-7		5	11/4/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-7		5	11/4/2008	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-7		5	9/20/2011			**3.8**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-7	25	25	12/1/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-7		25	5/11/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-7		25	11/17/2004			**13.0**	**3.3**	<0.50	<0.50	**1.8**	<3.0	<0.50	<2.0
BP-7		25	1/27/2005			**1.0**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-7		25	2/17/2005			**18.0**	**4.2**	<1.0	<1.0	**1.9**	<5.0	<1.0	<1.0
BP-7		25	3/14/2005			**1.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-7		25	3/14/2005	(2)		**1.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-7		25	3/14/2005	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-7		25	4/22/2005			**1.8**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-7		25	4/22/2005	(2)		**2.6**	**0.58**	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-7		25	5/18/2005			**5.2**	**1.2**	<0.50	<0.50	**0.60**	<3.0	<0.50	<2.0
BP-7		25	5/18/2005	(2)		**5.2**	**1.2**	<0.50	<0.50	**0.58**	<3.0	<0.50	<2.0
BP-7		25	9/21/2005			**33.0**	**6.8**	<0.50	<0.50	**3.6**	<3.0	<0.50	<2.0
BP-7		25	11/18/2005			**28.0**	**6.3**	<0.50	<0.50	**2.8**	<2.0	<0.50	<1.0
BP-7		25	1/25/2006			**25.0**	**5.6**	<1.0	<1.0	**2.8**	<5.0	<1.0	<1.0
BP-7		25	1/25/2006	(2)		**24.0**	**6.0**	<1.0	<1.0	**3.1**	<5.0	<1.0	<1.0
BP-7		25	4/6/2006			**18.0**	**5.0**	<1.0	<1.0	**2.7**	<5.0	<1.0	<1.0
BP-7		25	11/16/2006			**24.0**	**5.7**	<1.0	<1.0	**3.4**	<5.0	<1.0	<1.0
BP-7		25	4/27/2007			**2.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-7		25	8/7/2007			**29.0**	**5.9**	<1.0	<1.0	**2.8**	<5.0	<1.0	<1.0
BP-7		25	8/7/2007	(2)		**28.0**	**6**	<1.0	<1.0	**2.7**	<5.0	<1.0	<1.0
BP-7		25	11/16/2007			**1.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-7		25	4/8/2008			**1.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-7		25	11/4/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-7		25	9/20/2011			**3.9**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-7		25	9/20/2011	(2)		**4.1**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-7	50	50	1/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		50	1/28/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		50	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		50	5/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		50	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		50	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		50	11/18/2005			**23.0**	**5.1**	<0.50	<0.50	**2.3**	<2.0	<0.50	<1.0
BP-7		50	1/25/2006			**13.0**	**3.4**	<1.0	<1.0	**1.6**	<5.0	<1.0	<1.0
BP-7		50	4/6/2006			**11.0**	**3.2**	<1.0	<1.0	**1.6**	<5.0	<1.0	<1.0
BP-7		50	11/16/2006			**14.0**	**3.1**	<1.0	<1.0	**1.6**	<5.0	<1.0	<1.0
BP-7		50	4/27/2007			<1.0	<1.0	<1.0	<1.0	**1.1**	<5.0	<1.0	<1.0
BP-7		50	4/27/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-7		50	8/7/2007			**16.0**	**3.3**	<1.0	<1.0	**1.5**	<5.0	<1.0	<1.0
BP-7		50	11/16/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-7		50	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-7		50	11/4/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-7		50	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-7	100-105	100	1/11/2002			<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
BP-7		104	1/28/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		104	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		104	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		105	5/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		105	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-7		100	1/25/2006			**13.0**	**3.0**	<1.0	<1.0	**1.6**	<5.0	<1.0	<1.0
BP-7		100	4/6/2006			**8.1**	**2.3**	<1.0	<1.0	**1.2**	<5.0	<1.0	<1.0
BP-7		100	8/7/2007			**11.0**	**2.2**	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-7		100	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-8	5	5	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		5	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		5	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		5	5/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		5	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		5	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		5	1/27/2005			**2.2**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-8		5	2/18/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-8		5	3/14/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-8		5	3/14/2005	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-8		5	4/22/2005			**11.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**4.9**
BP-8		5	5/18/2005			**12.0**	**0.65**	<0.50	<0.50	<0.50	<3.0	<0.50	**4.4**
BP-8		5	9/21/2005			**4.0**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.9**
BP-8		5	11/18/2005			**15.0**	**1.0**	<0.50	<0.50	<0.50	<2.0	<0.50	**4.4**
BP-8		5	1/25/2006			**1.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-8		5	4/6/2006			**2.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.9**
BP-8		5	8/7/2007			**2.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**<5.0**
BP-8		5	11/16/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-8		5	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-8		5	11/4/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-8		5	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-8		25	12/1/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-8		25	5/11/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-8	25	25	11/17/2004			**16.0**	**0.63**	<0.50	<0.50	<0.50	<3.0	<0.50	**5.0**
BP-8		25	1/27/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-8		25	1/27/2005	(2)		<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-8		25	2/18/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-8		25	3/14/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-8		25	3/14/2005	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-8		25	4/22/2005			**9.8**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.7**
BP-8		25	4/22/2005	(2)		**10.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.8**
BP-8		25	5/18/2005			**9.2**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**3.0**
BP-8		25	9/21/2005	(2)		**15.0**	**0.92**	<0.50	<0.50	<0.50	<3.0	<0.50	**7.3**
BP-8		25	9/21/2005			**16.0**	**0.94**	<0.50	<0.50	<0.50	<3.0	<0.50	**7.2**
BP-8		25	11/18/2005			**14.0**	**0.92**	<0.50	<0.50	<0.50	<2.0	<0.50	**4.0**
BP-8		25	11/18/2005	(2)		**14.0**	**0.88**	<0.50	<0.50	<0.50	<2.0	<0.50	**3.9**
BP-8		25	1/25/2006			**10.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.3**
BP-8		25	4/6/2006			**9.1**	**1.1**	<1.0	<1.0	<1.0	<5.0	<1.0	**4.5**
BP-8		25	11/16/2006			**11.0**	**1.4**	<1.0	<1.0	<1.0	<5.0	<1.0	**3.4**
BP-8		25	4/27/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-8		25	8/7/2007			**14.0**	**1.6**	<1.0	1.1	<1.0	<5.0	<1.0	<1.0
BP-8		25	11/16/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-8		25	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-8		25	4/8/2008	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-8		25	11/4/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-8		25	11/4/2008	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-8		25	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-8	50	50	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		50	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		50	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		50	5/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		50	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		50	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		50	11/18/2005			**14.0**	**0.85**	<0.50	<0.50	<0.50	<2.0	<0.50	**3.8**
BP-8		50	1/25/2006			**8.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.0**
BP-8		50	4/6/2006			**4.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.2**
BP-8		50	11/16/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-8		50	11/16/2006	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-8		50	4/27/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-8		50	4/27/2007	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-8		50	8/7/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-8		50	11/16/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-8		50	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-8		50	11/4/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-8		50	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-8	96-100	97	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		96	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		97	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		97	5/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		97	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		97	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-8		100	1/25/2006			**4.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-8		100	4/6/2006			**3.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.6**
BP-8		100	4/6/2006	(2)		**3.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.2**
BP-8		100	8/7/2007			**5.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0

Summary of Groundwater Quality Data, Selected VOCs
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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-8		100	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-9	5	5	1/11/2002			**0.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-9		5	2/13/2002			**1.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-9		5	5/8/2002			**2.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-9		5	8/7/2002			**2.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
BP-9		5	3/19/2003			**2.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**2.4**
BP-9		5	12/3/2003			**3.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.1**
BP-9		5	5/12/2004			**2.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.3**
BP-9		5	11/18/2004			**3.0**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-9		5	5/17/2005			**3.9**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**4.5**
BP-9		5	11/18/2005			**3.8**	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	**2.7**
BP-9		5	4/6/2006			**3.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.4**
BP-9		5	11/15/2006			**3.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-9		5	4/26/2007			**4.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**4.9**
BP-9		5	11/16/2007			**3.7**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-9		5	4/9/2008			**3.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-9		5	11/4/2008			**4.8**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-9		5	9/23/2011			**2.7**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-9	50	50	1/11/2002			**0.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-9		50	2/13/2002			**1.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-9		50	5/8/2002			**1.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
BP-9		50	8/7/2002			**1.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.1**
BP-9		50	3/19/2003			**1.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**2.1**
BP-9	100-108	100	1/11/2002			**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-9		107	2/13/2002			**1.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-9		108	5/8/2002			**1.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-9		108	8/7/2002			**1.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.9**
BP-9		108	3/19/2003			**1.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.9**
BP-10	5	5	12/12/2001			**49.0**	**2.5**	<0.50	<0.50	<0.50	<1.0	<0.50	**2.1**
BP-10		5	1/2/2002			**46.0**	**2.2**	<0.50	<0.50	<0.50	<1.0	<0.50	**3.2**
BP-10		5	2/14/2002			**43.0**	**2.1**	<0.50	<0.50	<0.50	<1.0	<0.50	**4.4**
BP-10		5	5/9/2002			**36.0**	**1.2**	<0.50	<0.50	<0.50	<1.0	<0.50	**4.0**
BP-10		5	8/8/2002			**20.0**	**0.6**	<0.50	<0.50	<0.50	<1.0	<0.50	**3.5**
BP-10		5	3/19/2003			**8.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**3.0**
BP-10		5	11/15/2007			**3.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-10		5	4/10/2008			**3.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-10		5	11/5/2008			**4.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-10	25	25	12/3/2003			**7.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**4.1**
BP-10		25	5/13/2004			**5.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**4.0**
BP-10		25	5/13/2004	(2)		**6.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**4.0**
BP-10		25	11/19/2004			**6.3**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.2**
BP-10		25	11/19/2004	(2)		**6.1**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.3**
BP-10		25	5/17/2005			**5.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.6**
BP-10		25	11/18/2005			**4.9**	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	**2.4**
BP-10		25	4/6/2006			**2.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.3**
BP-10		25	11/15/2006			**3.7**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.6**
BP-10		25	4/26/2007			**4.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**<1.0**
BP-10		25	11/15/2007			**2.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-10		25	4/10/2008			**2.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-10		25	11/5/2008			**3.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-10		25	9/23/2011			**3.7**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-10		50	12/12/2001			**50.0**	**2.5**	<0.50	<0.50	<0.50	<1.0	<0.50	**2.1**

Summary of Groundwater Quality Data, Selected VOCs
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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-10	50	50	1/2/2002			**49.0**	**2.2**	<0.50	<0.50	<0.50	<1.0	<0.50	**3.2**
BP-10		50	2/14/2002			**47.0**	**2.0**	<0.50	<0.50	<0.50	<1.0	<0.50	**4.4**
BP-10		50	5/9/2002			**38.0**	**1.2**	<0.50	<0.50	<0.50	<1.0	<0.50	**3.8**
BP-10		50	8/8/2002			**28.0**	**0.8**	<0.50	<0.50	<0.50	<1.0	<0.50	**4.1**
BP-10		50	3/19/2003			**8.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**3.1**
BP-10		50	11/18/2005			**4.7**	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	**2.3**
BP-10		50	11/18/2005	(2)		**4.8**	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	**2.0**
BP-10		50	4/6/2006			**3.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.0**
BP-10		50	11/15/2006			**3.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.2**
BP-10		50	4/26/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-10		50	11/15/2007			**2.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-10		50	4/10/2008			**2.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-10		50	11/5/2008			**2.7**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-10		50	9/23/2011			**3.6**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-10	99-100	100	12/14/2001			**46.0**	**2.4**	<0.50	<0.50	<0.50	<1.0	<0.50	**2.2**
BP-10		100	1/2/2002			**49.0**	**2.2**	<0.50	<0.50	<0.50	<1.0	<0.50	**3.2**
BP-10		99	2/14/2002			**45.0**	**2.0**	<0.50	<0.50	<0.50	<1.0	<0.50	**4.3**
BP-10		100	5/9/2002			**36.0**	**1.2**	<0.50	<0.50	<0.50	<1.0	<0.50	**3.9**
BP-10		99	8/8/2002			**28.0**	**0.8**	<0.50	<0.50	<0.50	**1.0**	<0.50	**4.1**
BP-10		99	3/19/2003			**8.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**3.1**
BP-11	17-19	18	9/13/2001			**0.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.8**
BP-11		18	11/6/2001			**1.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.7**
BP-11		18	2/13/2002			**0.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.7**
BP-11		19	12/3/2003			**0.7**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-11		18	5/12/2004			**0.7**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**0.83**
BP-11		17	11/18/2004			**5.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**4.0**
BP-11		18	5/17/2005			**0.7**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-11		18	5/17/2005			**0.7**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-11		18	11/17/2005			**0.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-11		18	4/5/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-11		18	11/15/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-11		18	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-11		18	11/12/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-11		18	4/7/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-11		18	10/30/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-11		18	9/21/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-11	63	63	9/13/2001			**0.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.8**
BP-11	50	50	11/6/2001			**0.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
BP-11		50	2/13/2002			**0.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.7**
BP-11		50	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
BP-11		50	8/7/2002			<0.5	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.5
BP-11		50	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.58**
BP-11	108-110	110	9/13/2001			**0.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.8**
BP-11		108	11/6/2001			**0.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
BP-11		108	2/13/2002			**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
BP-11		109	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
BP-11		108	8/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
BP-11		108	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.56**
BP-15		5	12/12/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		5	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		5	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50

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					Aquifer Water Quality Standards	*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-15	5	5	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		5	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		5	12/1/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-15		5	5/12/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-15		5	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-15		5	5/18/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-15		5	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-15		5	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-15		5	11/14/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-15		5	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-15		5	11/12/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-15		5	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-15		5	11/3/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-15		5	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-15	50	50	12/12/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		50	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		50	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		50	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		50	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		50	12/1/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-15		50	5/12/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-15		50	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-15		50	5/18/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-15		50	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-15		50	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-15		50	11/14/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-15		50	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-15		50	11/12/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-15		50	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-15		50	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-15	96-100	100	12/12/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		96	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		97	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		97	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-15		98	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-16	5	5	7/10/2002			**0.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-16		5	8/6/2002			**0.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-16		5	3/18/2003			**0.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-16		5	12/1/2003			**1.7**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-16		5	5/12/2004			**1.9**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-16		5	8/25/2004			**2.0**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-16		5	11/18/2004			**2.3**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-16		5	11/18/2004	(2)		**2.4**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-16		5	2/17/2005			**1.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-16		5	5/17/2005			**1.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-16		5	9/21/2005			**3.0**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**3.4**
BP-16		5	11/17/2005			**1.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<4.0
BP-16		5	1/24/2006			**1.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.1**
BP-16		5	4/5/2006			**1.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.2**
BP-16		5	11/15/2006			**2.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.6**
BP-16		5	2/5/2007			**2.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-16		5	4/26/2007			**2.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.5**

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-16		5	8/8/2007			**2.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-16		5	11/12/2007			**1.7**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-16		5	4/7/2008			**2.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-16		5	10/30/2008			**1.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-16		5	9/23/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-16		25	12/19/2012			<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50
BP-16		25	4/1/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
BP-16		25	6/3/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
BP-16		25	8/21/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-16	25	25	11/18/2013	(16)		**1.1**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-16		25	11/18/2013	(16), (2)		**1.1**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
BP-16		25	2/19/2014	(16)		**1.2**	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.92**
BP-16		25	2/19/2014	(16), (2)		**1.2**	<0.5	<0.5	<1	<0.5	<5	<0.5	**1.1**
BP-16		25	5/14/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.62**
BP-16		25	8/20/2014	(16)	**X**	**1.5**	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.81**
BP-16		50	7/10/2002			**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-16		50	8/6/2002			**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-16		50	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-16		50	12/1/2003			**0.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-16		50	3/30/2004			**0.7**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-16		50	5/12/2004			**0.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-16		50	8/25/2004			**0.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-16		50	11/18/2004			**1.0**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-16		50	2/17/2005			**2.7**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.6**
BP-16		50	5/17/2005			**1.1**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-16		50	9/21/2005			**1.2**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**3.0**
BP-16	50	50	11/17/2005			**1.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<4.0
BP-16		50	1/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-16		50	4/5/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-16		50	11/15/2006			**1.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.1**
BP-16		50	2/5/2007			**1.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.2**
BP-16		50	4/26/2007			**1.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.0**
BP-16		50	8/8/2007			**1.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-16		50	11/12/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-16		50	4/7/2008			**1.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-16		50	10/30/2008			**1.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-16		50	9/23/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-16		50	9/23/2011	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-16		100	7/10/2002			**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-16	100	100	8/6/2002			**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-16		100	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-19	5	5	2/24/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-19		5	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-19		25	12/1/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-19		25	5/11/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-19		25	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-19		25	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-19		25	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-19	25	25	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-19		25	11/14/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-19		25	4/24/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-19		25	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0

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					Aquifer Water Quality Standards	*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-19		25	4/9/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-19		25	11/3/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-19		25	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-19	50	50	2/24/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-19		50	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-19	101	101	2/24/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-19		101	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
BP-20	5	5	1/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20	25	25	9/21/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-20		25	11/15/2005			**0.9**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-20		25	1/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		25	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		25	4/4/2006	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		25	9/27/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		25	9/27/2006	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		25	11/13/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		25	2/5/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		25	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		25	8/8/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-20		25	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-20		25	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-20		25	7/28/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-20		25	7/28/2008	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-20		25	10/31/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-20		25	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-20	50	50	9/21/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-20		50	11/15/2005			**0.9**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-20		50	1/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		50	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		50	11/13/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		50	2/5/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		50	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-20		50	8/8/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-20		50	8/8/2007	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-20		50	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-20		50	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-20		50	7/28/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-20		50	10/31/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-20		50	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-20	75	75	11/15/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-21	5	5	1/25/2006			**2.8**	<1.0	<1.0	<1.0	<1.9	<5.0	<1.0	**1.4**
BP-21		5	11/19/2007			**8.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-21		5	4/8/2008			**9.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**5.0**
BP-21		5	4/8/2008	(2)		**9.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**5.4**
BP-21		5	7/29/2008			**6.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**6.6**
BP-21		5	7/29/2008	(2)		**7.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**6.8**
BP-21		5	10/31/2008			**7.8**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**6.1**
BP-21		5	10/31/2008	(2)		**7.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-21		25	9/21/2005			**5.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**4.0**
BP-21		25	11/17/2005			**3.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.9**
BP-21		25	1/25/2006			**3.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.4**

Summary of Groundwater Quality Data, Selected VOCs
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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-21	25	25	4/5/2006			**4.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-21		25	9/27/2006			**2.8**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-21		25	11/16/2006			**4.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.9**
BP-21		25	2/5/2007			**6.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.7**
BP-21		25	4/26/2007			**7.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.7**
BP-21		25	8/9/2007			**6.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-21		25	11/19/2007			**7.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-21		25	4/8/2008			**9.8**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**5.0**
BP-21		25	7/29/2008			**7.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**7.0**
BP-21		25	10/31/2008			**7.7**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-21		25	9/23/2011			**1.6**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-21		25	12/20/2012			**0.73**	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	**1.1**
BP-21		25	4/2/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
BP-21		25	6/4/2013	(16)		<1	<1	<1	<1	<1	<2	<1	**1.2**
BP-21		25	8/21/2013	(16)		**0.55**	<0.5	<0.5	<1	<0.5	<5.0	<0.5	**1.1**
BP-21		25	8/21/2013	(17)		**0.52**	<0.5	<0.5	<1	<0.5	<5.0	<0.5	**1.0**
BP-21		25	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5.0	<0.5	<0.50
BP-21		25	2/20/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5.0	<0.5	**0.88**
BP-21		25	5/15/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	**1.3**
BP-21		25	8/21/2014	(16)	**X**	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.62**
BP-21	50	50	9/21/2005			**5.4**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**3.4**
BP-21		50	11/17/2005			**2.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-21		50	11/17/2005	(2)		**2.4**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-21		50	1/25/2006			**2.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-21		50	4/5/2006			**3.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.7**
BP-21		50	11/16/2006			**5.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.6**
BP-21		50	2/5/2007			**6.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.4**
BP-21		50	2/5/2007	(2)		**6.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**4.2**
BP-21		50	4/26/2007			**8.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.2**
BP-21		50	8/9/2007			**6.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-21		50	11/19/2007			**7.8**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-21		50	4/8/2008			**9.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**5.2**
BP-21		50	7/29/2008			**7.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**6.3**
BP-21		50	10/31/2008			**7.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-21		50	9/23/2011			**1.7**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-21	75	75	11/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
BP-21	##	100	10/31/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-21	Purge		11/19/2007	(11)		**6.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-21			11/19/2007	(2, 11)		**8.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-21	Grab		5/20/2009	(7)		**6.9**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.3**
BP-21			8/19/2009	(7)		**6.1**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.0**
BP-21			8/19/2009	(2,7)		**5.9**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.8**
BP-21			11/23/2009	(7)		**6.0**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.8**
BP-21			2/18/2010	(7)		**6.7**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.7**
BP-21			5/20/2010	(7)		**5.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.1**
BP-21			8/18/2010	(7)		**4.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.6**
BP-21			11/16/2010	(7)		**4.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.3**
BP-21			2/22/2011	(7)		**3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**
BP-21			5/17/2011	(7)		**2.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.6**
BP-21			8/16/2011	(7)		**2.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.7**
BP-21			11/21/2011	(7)		**2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-21			3/22/2012	(7)		**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.9**
BP-21			5/21/2012	(7)		**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**
BP-21			8/7/2012	(7)		**1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**
BP-22	5	5	5/24/2006			**2.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		5	9/28/2006			**1.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22	25	25	5/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		25	9/28/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		25	11/15/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		25	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		25	4/25/2007	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		25	11/12/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-22		25	4/7/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-22		25	10/30/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-22		25	9/21/2011			**8.4**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-22		25	9/21/2011	(2)		**8.2**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-22	50	50	5/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		50	9/28/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		50	11/15/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		50	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		50	11/12/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-22		50	4/7/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-22	75	75	5/24/2006			**1.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		75	9/28/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		75	11/15/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		75	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-22		75	11/12/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-23	5	5	5/24/2006			**22.0**	**1.0**	<1.0	<1.0	<1.0	<5.0	<1.0	**4.5**
BP-23		5	9/28/2006			**11.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-23	25	25	5/24/2006			**21.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**4.4**
BP-23		25	9/28/2006			**12.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-23		25	11/16/2006			**21.0**	**1.1**	<1.0	<1.0	<1.0	<5.0	<1.0	**5.0**
BP-23		25	4/27/2007			**24**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**6.5**
BP-23		25	11/20/2007			**18**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-23		25	4/10/2008			**23**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**5.2**
BP-23		25	11/4/2008			**19**	**2.8**	<1.0	<1.0	**2.2**	<5.0	<1.0	**14**
BP-23		25	11/4/2008	(2)		**32**	**1.8**	<1.0	<1.0	<1.0	<5.0	<1.0	**8.4**
BP-23		25	9/26/2011			**35**	**3.2**	<1.0	<1.0	**1.0**	<4.0	<1.0	**4.2**
BP-23	50	50	5/24/2006			**21.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**4.7**
BP-23		50	9/28/2006			**12.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-23		50	11/16/2006	(2)		**20.0**	**1.0**	<1.0	<1.0	<1.0	<5.0	<1.0	**5.3**
BP-23		50	11/16/2006			**20.0**	**1.1**	<1.0	<1.0	<1.0	<5.0	<1.0	**4.9**
BP-23		50	4/27/2007			**24**	**1.2**	<1.0	<1.0	<1.0	<5.0	<1.0	**6.3**
BP-23		50	11/20/2007			**24**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**6.6**
BP-23		50	4/10/2008			**23**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-23	75	75	5/24/2006			**20.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.9**
BP-23		75	9/28/2006			**13.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
BP-23		75	11/16/2006			**21.0**	**1.0**	<1.0	<1.0	<1.0	<5.0	<1.0	**5.1**
BP-23		75	4/27/2007			**29**	**1.1**	<1.0	<1.0	<1.0	<5.0	<1.0	**6.4**
BP-23		75	11/20/2007			**24**	**1.1**	<1.0	<1.0	<1.0	<5.0	<1.0	**7.2**
BP-24A		5	1/21/2008			**31**	**5.1**	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-24A		5	4/9/2008			**30**	**5.2**	<1.0	<1.0	<1.0	<5.0	<1.0	**5.8**

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Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
BP-24A	5	5	7/29/2008			**30**	**4.7**	<1.0	<1.0	<1.0	<5.0	<1.0	**14**
BP-24A		5	7/29/2008	(2)		**32**	**4.9**	<1.0	<1.0	<1.0	<5.0	<1.0	**16**
BP-24A		5	11/5/2008			**22**	**3.8**	<1.0	<1.0	<1.0	<5.0	<1.0	**11**
BP-24A		5	9/26/2011			**17**	**3.5**	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-24A	10	10	1/21/2008			NA	NA	NA	NA	NA	NA	NA	NA
BP-24A	15	15	11/5/2008			**23**	**4.0**	<1.0	<1.0	<1.0	<5.0	<1.0	**12**
BP-24A	20-25	20	1/21/2008			**33**	**4.9**	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-24A		20	1/21/2008	(2)		**34**	**5.2**	<1.0	<1.0	<1.0	<5.0	<1.0	**5.1**
BP-24A		20	4/9/2008			**29**	**4.9**	<1.0	<1.0	<1.0	<5.0	<1.0	**7.7**
BP-24A		20	9/26/2011			**18**	**3.5**	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-24A		25	12/19/2012	(16)		**15.4**	**3.2**	<0.5	<1.0	<0.5	<5.0	<0.5	**3.4**
BP-24A		25	12/20/2012			**14.3**	**3.3**	<0.5	<1.0	**0.55**	<5.0	<0.5	**5.1**
BP-24A	Grab		8/8/2012	(7)		**14.8**	**3.2**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.2**
BP-24B	50	50	1/21/2008			**9.4**	**3.1**	<1.0	<1.0	**1.6**	<5.0	<1.0	<5.0
BP-24B		50	4/9/2008			**15**	**4.8**	<1.0	<1.0	**2.7**	<5.0	<1.0	**21**
BP-24B		50	4/9/2008	(2)		**10**	**3.9**	<1.0	<1.0	**2.0**	<5.0	<1.0	**10**
BP-24B		50	11/5/2008			**19**	**6.2**	<1.0	<1.0	**3.4**	<5.0	<1.0	**24**
BP-24B		50	11/5/2008	(2)		**18**	**5.8**	<1.0	<1.0	**3.5**	<5.0	<1.0	**25**
BP-24B	60	60	1/21/2008			NA	NA	NA	NA	NA	NA	NA	NA
BP-24B		60	9/26/2011			**24**	**4.8**	<1.0	<1.0	**2.6**	<4.0	<1.0	**12**
BP-24B	70	70	1/21/2008			**7.8**	**2.4**	<1.0	<1.0	**1.2**	<5.0	<1.0	<5.0
BP-24B		70	4/9/2008			**7.6**	**2.5**	<1.0	<1.0	**1.5**	<5.0	<1.0	**8.6**
BP-24B		70	11/5/2008			**8.4**	**2.9**	<1.0	<1.0	**1.5**	<5.0	<1.0	**14**
BP-24B		80	9/26/2011			**20**	**4.1**	<1.0	<1.0	**1.9**	<4.0	<1.0	**9.4**
BP-24C	105	105	1/21/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-24C		105	4/9/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-24C		105	11/5/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-24C	115	115	1/21/2008			NA	NA	NA	NA	NA	NA	NA	NA
BP-24C		115	9/22/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-24C	125	125	1/21/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-24C		125	4/9/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-24C		125	11/5/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-24C	135	135	9/22/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
BP-25	5	5	6/2/2008			1.7	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
BP-25		5	11/4/2008			**4.5**	<1.0	<1.0	<1.0	**1.8**	<5.0	<1.0	<5.0
BP-25		5	9/26/2011			**10**	**2.1**	<1.0	<1.0	**1.7**	<4.0	<1.0	**5.3**
BP-25	30	30	6/2/2008			**16**	**2.4**	<1.0	<1.0	**2.4**	<5.0	<1.0	<5.0
BP-25		30	6/2/2008	(2)		**14**	**2.1**	<1.0	<1.0	**2.0**	<5.0	<1.0	<5.0
BP-25		30	11/4/2008			**23**	**3.4**	<1.0	<1.0	**2.6**	<5.0	<1.0	**16**
BP-25		30	11/4/2008	(2)		**23**	**3.4**	<1.0	<1.0	**2.8**	<5.0	<1.0	**17**
BP-25		30	9/26/2011			**17**	**3.0**	<1.0	<1.0	**1.9**	<4.0	<1.0	**10**
BP-25	55	55	6/2/2008			**12**	**1.8**	<1.0	<1.0	**1.8**	<5.0	<1.0	<5.0
BP-25		55	11/4/2008			**34**	**1.8**	<1.0	<1.0	<1.0	<5.0	<1.0	**9.0**
BP-25		55	9/26/2011			**13**	**2.2**	<1.0	<1.0	<1.0	<4.0	<1.0	**8.4**
C-022A	5	5	11/6/2001			**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-022A		5	2/13/2002			**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
C-022A		5	5/8/2002			**0.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
C-022A		5	8/7/2002			**0.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
C-022A		5	3/19/2003			**0.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.79**
C-022A		5	7/30/2001	(1)		<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-022A	22-25	25	12/3/2003			**0.9**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-022A		25	5/13/2004			**0.9**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-022A		25	11/19/2004			**1.0**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-022A		25	5/18/2005			**2.0**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.7**
C-022A		25	11/17/2005			**3.8**	**0.51**	<0.50	<0.50	<0.50	<3.0	<0.50	**6.2**
C-022A		25	4/6/2006			**2.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.5**
C-022A		25	11/15/2006			**4.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**6.5**
C-022A		25	11/15/2006	(2)		**4.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**6.3**
C-022A		25	4/26/2007			**5.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**5.8**
C-022A		25	11/15/2007			**8.9**	1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**14**
C-022A		22	4/9/2008			**7.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**5.7**
C-022A		25	11/5/2008			**9.4**	**1.2**	<1.0	<1.0	<1.0	<5.0	<1.0	**8.8**
C-022A		25	9/26/2011			**18**	**2.0**	<1.0	<1.0	<1.0	<4.0	<1.0	**6.3**
C-022A	50	50	5/12/2004			**0.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026A	5	5	8/2/2001			**5.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**2.0**
C-026A		5	11/7/2001			**5.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.7**
C-026A		5	2/13/2002			**5.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**2.2**
C-026A		5	5/8/2002			**3.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.0**
C-026A		5	8/7/2002			**5.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.8**
C-026A		5	11/26/2002			**5.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.8**
C-026A		5	3/19/2003			**5.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.8**
C-026A		5	7/28/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	10	10	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	20	20	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	25	25	7/28/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A		25	12/28/2012			<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50
C-026A		25	3/28/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		25	5/23/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		25	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		25	5/15/2014	(16)		**0.63**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		25	9/23/2014	(16)	**X**	<2.5	<2.5	<2.5	<5	<2.5	<25	<2.5	<2.5
C-026A	30	30	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	40	40	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A		50	8/2/2001			**5.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.7**
C-026A		50	11/7/2001			**5.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.7**
C-026A		50	11/7/2001			**5.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.7**
C-026A		50	2/13/2002			**5.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**2.1**
C-026A		50	5/8/2002			**3.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.1**
C-026A		49	8/7/2002			**5.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.7**
C-026A		50	11/26/2002			**5.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.9**
C-026A		50	3/19/2003			**5.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.8**
C-026A		50	12/2/2003			**0.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026A		50	3/29/2004			**0.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026A		50	3/29/2004	(2)		**0.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026A		50	8/24/2004			**0.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026A		50	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026A		50	2/17/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-026A		50	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026A		50	9/20/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
C-026A	49-50	50	11/15/2005			0.8	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026A		50	1/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-026A		50	4/3/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-026A		50	4/3/2006	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-026A		50	9/27/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-026A		50	11/14/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-026A		50	4/26/2007			**9.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.2**
C-026A		50	8/9/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A		50	8/9/2007	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A		50	11/14/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A		50	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A		50	7/28/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A		50	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A		50	9/22/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
C-026A		50	12/28/2012			<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	<0.5
C-026A		50	3/28/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		50	5/23/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		50	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		50	5/15/2014	(16)		**0.53**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		50	9/23/2014	(16)	**X**	**0.6**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A	60	60	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	70-75	70	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A		75	12/28/2012			<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.50	<0.50
C-026A		75	3/28/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		75	5/23/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		75	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		75	5/15/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		75	9/23/2014	(16)	**X**	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A	80	80	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	90	90	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	95	95	11/7/2001			**5.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.7**
C-026A	100	100	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A		100	3/28/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		100	5/23/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		100	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		100	5/15/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A		100	9/23/2014	(16)	**X**	**0.53**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
C-026A	110	110	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	120	120	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	130	130	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	140	140	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	150-153	150	8/2/2001			**4.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.8**
C-026A		151	2/13/2002			**5.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**2.2**
C-026A		152	5/8/2002			**3.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.9**
C-026A		152	8/7/2002			**5.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.6**
C-026A		153	11/26/2002			**5.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.9**
C-026A		153	3/19/2003			**4.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.7**
C-026A		150	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0

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					Aquifer Water Quality Standards	*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
C-026A	160	160	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	170	170	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	180	180	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	190	190	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	196	196	10/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026A	202	202	5/21/2003			**1.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.5
C-026A	Grab	8/16/2011	8/16/2011	(7)		<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
C-026A		9/1/2011	9/1/2011	(7)		<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
C-026B	Well Head	WH	12/2/2003			**3.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026B		WH	3/29/2004			**3.1**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026B		WH	5/12/2004			**3.3**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026B		WH	8/24/2004			**3.2**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026B		WH	11/17/2004			**4.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-026B		WH	2/17/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-026B		WH	5/17/2005			**3.9**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.5**
C-026B		WH	9/20/2005	(2)		**3.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.9**
C-026B		WH	9/20/2005			**3.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.9**
C-026B		WH	11/14/2005			**2.7**	<2.0	<5.0	<2.0	<2.0	<5.0	2	<5.0
C-026B		WH	1/26/2006			**1.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-026B		WH	1/26/2006	(2)		**1.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-026B		WH	4/7/2006			**1.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-026B		WH	11/14/2006	(8)		NS	NS	NS	NS	NS	NS	NS	NS
C-026B		WH	4/26/2007			**3.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-026B		WH	8/7/2007			**1.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026B		WH	8/16/2007	(13)		**1.4**	<0.5	NA	NA	NA	NA	NA	NA
C-026B		WH	9/27/2007	(14)		**7.1**	**0.62**	NA	NA	NA	NA	NA	**3.7**
C-026B		WH	9/27/2007	(15)		**5.3**	<0.5	NA	NA	NA	NA	NA	**2.2**
C-026B		WH	11/14/2007			**1.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026B		WH	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026B		WH	7/29/2008			**1.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026B		WH	11/5/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-026B	93	93	11/26/2002			**0.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-051B	Well Head	WH	1/26/2000	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	1/26/2001	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	1/28/2002	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	1/27/2004	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	1/19/2006	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	6/11/2007	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	5/21/2008	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	8/11/2009	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	11/16/2009	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	2/11/2010	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	5/20/2010	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	8/18/2010	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	11/23/2010	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	8/22/2011	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	11/9/2011	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						***5***	***5***	***2***	***5***	***70***	***5***	***100***	***NE***
C-051B		WH	2/15/2012	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	5/16/2012	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	8/14/2012	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	11/14/2012	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C-051B		WH	2/5/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-051B		WH	5/14/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-051B		WH	8/15/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-051B		WH	11/21/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-051B		WH	2/19/2014	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-051B		WH	5/13/2014	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-051B		WH	8/14/2014	(7)	**X**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-056A	5	5	8/2/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		5	11/5/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		5	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		5	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		5	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		5	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A	50	50	8/2/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		50	11/5/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		50	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		50	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		50	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		50	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		50	12/3/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-056A		50	12/3/2003	(2)		<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-056A		50	5/11/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-056A	158-162	158	8/2/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		159	11/5/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		159	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		161	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		161	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-056A		162	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A	5	5	8/2/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A		5	11/5/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A		5	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A		5	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A		5	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A	50	50	8/2/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A		50	11/5/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A		50	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A		50	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A		50	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A		50	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-058A		50	2/17/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-058A		50	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-058A		50	9/20/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-058A		50	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
C-058A		50	1/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-058A		50	4/3/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-058A		50	11/14/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
C-058A		50	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
C-058A		50	11/16/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-058A		50	4/9/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
C-058A		50	9/22/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
C-058A	139-143	139	8/2/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A		140	11/5/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A		142	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A		143	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-058A	148	148	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
C-124A	WH	WH	1/15/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-124A		WH	8/15/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-125A	WH	WH	1/16/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-125A		WH	8/15/2013	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-125A		WH	8/14/2014	(7)	X	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D-021A	1	1.3	2/13/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A	5	5	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A		5	11/14/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A		5	11/14/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A		5	2/13/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A		5	5/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A		5	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A		5	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0
D-021A		5	4/24/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
D-021A		5	11/16/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
D-021A		5	4/7/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
D-021A		5	10/30/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
D-021A		5	10/30/2008	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
D-021A	25	25	12/2/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-021A		25	5/13/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-021A		25	11/19/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-021A		25	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-021A		25	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-021A		25	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
D-021A		25	4/24/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
D-021A		25	11/16/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
D-021A		25	4/7/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
D-021A		25	9/22/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
D-021A		25	9/22/2011	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
D-021A	50	50	11/14/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A		50	2/13/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A		50	5/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A		50	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A	105	105	11/14/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A	130	130	5/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A		130	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A	159	159	11/14/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-021A	Grab		8/7/2012	(7)		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D-022A		5	8/1/2001	(1)		**120**	**18**	<0.50	<0.50	**10**	<1.0	<0.50	**5.3**
D-022A		5	11/7/2001			**110**	**18**	<0.50	<0.50	**10**	<1.0	<0.50	**4.7**

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
D-022A	5	5	2/13/2002			**110**	**18**	<0.50	<0.50	**9.1**	<1.0	<0.50	**5.5**
D-022A		5	5/8/2002			**110**	**19**	<0.50	<0.50	**11**	<1.0	<0.50	**5.3**
D-022A		5	8/8/2002			**120**	**20**	<0.50	<0.50	**9.8**	<1.0	**1.7**	**5.5**
D-022A		5	3/20/2003			**110**	**20**	<0.50	<0.50	**12**	<1.0	<0.50	**5.8**
D-022A		5	12/3/2003			**85**	**21**	<0.50	<0.50	**14**	<3.0	<0.50	**11**
D-022A		5	5/13/2004			**83**	**20**	<0.50	<0.50	**13**	<3.0	0.60	**10**
D-022A		5	11/19/2004			**79**	**20**	<0.50	<0.50	**15**	<3.0	0.62	**8**
D-022A		5	5/18/2005			**72**	**20**	<0.50	<0.50	**14**	<3.0	<0.50	**9.2**
D-022A		5	11/21/2005			**69**	**19**	<0.50	<0.50	**16**	<3.0	**0.66**	**9.1**
D-022A		5	1/26/2006			**51**	**15**	<1.0	<1.0	**13**	<5.0	<1.0	**4.6**
D-022A		5	4/7/2006			**48**	**15**	<1.0	<1.0	**12**	<5.0	<1.0	**8.8**
D-022A		5	11/17/2006			**72**	**20**	<1.0	<1.0	**15**	<5.0	<1.0	**7.6**
D-022A		5	4/30/2007			**70**	**18**	<1.0	<1.0	**13**	<5.0	<1.0	**6.8**
D-022A		5	4/30/2007	(2)		**76**	**18**	<1.0	<1.0	**13**	<5.0	<1.0	**7.6**
D-022A		5	11/20/2007			**53**	**14**	<1.0	<1.0	**13**	<5.0	<1.0	**7.6**
D-022A		5	4/10/2008			**51**	**11**	<1.0	<1.0	**7.6**	<5.0	<1.0	**6.2**
D-022A		5	4/10/2008	(2)		**49**	**11**	<1.0	<1.0	**8.4**	<5.0	<1.0	**7.2**
D-022A		5	11/5/2008			**45**	**11**	<1.0	<1.0	**8.0**	<5.0	<1.0	**5.1**
D-022A		5	11/5/2008	(2)		**46**	**11**	<1.0	<1.0	**8.5**	<5.0	<1.0	**5.3**
D-022A		5	9/27/2011			**50**	**13**	<1.0	<1.0	**7.6**	<4.0	<1.0	<4.0
D-022A	25	25	11/21/2005			**71**	**19**	<0.50	<0.50	**16**	<3.0	**0.64**	**9.3**
D-022A		25	1/26/2006			**55**	**15**	<1.0	<1.0	**12**	<5.0	<1.0	**4.7**
D-022A	50	50	8/1/2001	(1)		**110**	**19**	<0.50	<0.50	**11**	<1.0	<0.50	**5.4**
D-022A		50	11/7/2001			**110**	**19**	<0.50	<0.50	**10**	<1.0	<0.50	**4.8**
D-022A		50	2/13/2002			**110**	**19**	<0.50	<0.50	**11**	<1.0	<0.50	**5.9**
D-022A		50	5/8/2002			**110**	**19**	<0.50	<0.50	**11**	<1.0	<0.50	**5.2**
D-022A		50	8/8/2002			**120**	**18**	<0.50	<0.50	**9**	<1.0	**1.5**	**5.3**
D-022A		50	3/20/2003			**99**	**19**	<0.50	<0.50	**12**	<1.0	<0.50	**5.7**
D-022A	100-104	104	8/1/2001	(1)		**110**	**21**	<0.50	<0.50	**12**	<1.0	<0.50	**5.8**
D-022A		103	11/7/2001			**110**	**20**	<0.50	<0.50	**11**	<1.0	<0.50	**5.0**
D-022A		100	2/13/2002			**110**	**19**	<0.50	<0.50	**10**	<1.0	<0.50	**5.7**
D-022A		100	5/8/2002			**100**	**19**	<0.50	<0.50	**11**	<1.0	<0.50	**5.2**
D-022A		100	8/8/2002			**110**	**20**	<0.50	<0.50	**12**	<1.0	**0.6**	**5.6**
D-022A		100	3/20/2003			**97**	**20**	<0.50	<0.50	**11**	<1.0	<0.50	**5.4**
D-022A		100	4/7/2006			**46**	**14**	<1.0	<1.0	**11**	<5.0	<1.0	**8.8**
D-022A		100	9/27/2011			**46**	**12**	<1.0	<1.0	**7.1**	<4.0	<1.0	<4.0
D-022A		100	9/27/2011	(2)		**51**	**13**	<1.0	<1.0	**7.6**	<4.0	<1.0	<4.0
D-039A	5	5	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.0**
D-039A		5	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.7**
D-039A		5	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.5
D-039A		5	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.5
D-039A		5	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
D-039A		5	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
D-039A	10	10	12/2/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-039A		10	5/12/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-039A		10	11/18/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-039A		10	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-039A		10	11/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-039A		10	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
D-039A		10	11/13/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
D-039A		10	4/23/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
D-039A		10	11/12/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
D-039A		10	4/7/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
D-039A		10	10/30/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
D-039A		10	9/21/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
D-040A	5	5	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		5	11/7/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		5	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		5	5/8/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		5	8/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		5	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A	10	10	12/2/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-040A		10	5/12/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-040A		10	11/18/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-040A		10	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-040A		10	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
D-040A		10	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
D-040A		10	11/13/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
D-040A		10	4/23/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
D-040A		10	11/12/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
D-040A		10	4/7/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
D-040A		10	10/30/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
D-040A		10	9/21/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
D-040A	50	50	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		50	11/7/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		50	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		50	5/8/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		50	8/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		50	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A	95-97	95	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		95	11/7/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		97	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		98	5/8/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		96	8/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
D-040A		97	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
R-068A	5	5	2/14/2002			**290.0**	**68.0**	<0.50	**1.7**	**77.0**	**3.1**	**3.0**	**10.0**
R-068A		5	5/9/2002			**260.0**	**62.0**	<0.50	**1.8**	**81.0**	**1.9**	**2.8**	**8.3**
R-068A		5	8/8/2002			**230.0**	**53.0**	<0.50	**1.4**	**70.0**	<1.0	**2.6**	**8.2**
R-068A		5	3/20/2003			**220.0**	**49.0**	<0.50	**0.81**	**76.0**	<1.0	**2.1**	**6.9**
R-068A		5	12/3/2003			**160.0**	**46.0**	<0.50	**0.83**	**70.0**	<3.0	**2**	**13**
R-068A		5	5/13/2004			**150.0**	**39.0**	<0.50	**0.66**	**57.0**	<3.0	**1.7**	**11**
R-068A		5	11/19/2004			**120.0**	**33.0**	<0.50	<0.50	**48.0**	<3.0	**1.4**	**7.1**
R-068A		5	5/18/2005			**110.0**	**32**	<0.50	**0.52**	**42.0**	<3.0	**1.3**	**8.7**
R-068A		5	11/21/2005			**45.0**	**18**	<0.50	**0.59**	**75.0**	<3.0	**1.2**	**4.2**
R-068A		5	4/6/2006			**73.0**	**21.0**	<1.0	<1.0	**28.0**	<5.0	<1.0	**7.0**
R-068A		5	11/17/2006			**92.0**	**22.0**	<1.0	<1.0	**28.0**	<5.0	**1.1**	**6.1**
R-068A		5	4/30/2007			**100**	**23**	<1.0	<1.0	**28.0**	<5.0	**1.1**	**6.6**
R-068A		5	11/20/2007			**99**	**22**	<1.0	<1.0	**29.0**	<5.0	<1.0	**8.9**
R-068A		5	4/10/2008			**110**	**22**	<1.0	<1.0	**23.0**	<5.0	<1.0	**5.8**
R-068A		5	11/6/2008			**86**	**18**	<1.0	<1.0	**22.0**	<5.0	<1.0	**7.4**
R-068A		5	9/27/2011			**36**	**7.4**	<1.0	<1.0	**7.2**	<4.0	<1.0	<4.0
R-069B		5	2/14/2002			**58.0**	**18.0**	**3.1**	**1.5**	**5.3**	**5.8**	**0.8**	**37.0**
R-069B		5	5/9/2002			**53.0**	**18.0**	**3.1**	**1.7**	**5.6**	**6.0**	**0.8**	**30.0**

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Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
R-069B	5	5	8/8/2002			**53.0**	**18.0**	**3.3**	**2.2**	**5.8**	**7.1**	**0.9**	**29.0**
R-069B		5	3/20/2003			**36.0**	**12.0**	**1.0**	**0.9**	**4.1**	**2.9**	<0.50	**21.0**
R-069B		5	12/3/2003			**31.0**	**11.0**	<0.50	<0.50	**4.5**	<3.0	<0.50	**25.0**
R-069B		5	5/13/2004			**19.0**	**6.3**	<0.50	<0.50	**2.9**	<3.0	<0.50	**25**
R-069B		5	11/19/2004			**15.0**	**5.4**	<0.50	<0.50	**2.8**	<3.0	<0.50	**10**
R-069B		5	5/18/2005			**7.4**	**2.2**	<0.50	<0.50	**0.94**	<3.0	<0.50	**5.9**
R-069B		5	11/21/2005			**16.0**	**6.4**	<0.50	<0.50	**4.2**	<3.0	<0.50	**8.7**
R-069B		5	4/6/2006			**6.2**	**3.2**	<1.0	<1.0	**2.0**	<5.0	<1.0	**3.8**
R-069B		5	11/16/2006			**10.0**	**3.7**	<1.0	<1.0	**2.8**	<5.0	<1.0	**3.2**
R-069B		5	4/27/2007			**9.3**	**3.3**	<1.0	<1.0	**3.0**	<5.0	<1.0	**<1.0**
R-069B		5	11/16/2007			**5.7**	**2.2**	<1.0	<1.0	**2.3**	<5.0	<1.0	<5.0
R-069B		5	4/10/2008			**7.4**	**2.8**	<1.0	<1.0	**3.0**	<5.0	<1.0	<5.0
R-069B		5	11/6/2008			**1.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
R-069B		5	9/23/2011			**1.8**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
R-090A	25	25	12/28/2012			<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50
R-090A		25	3/28/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		25	3/28/2013	(2,16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		25	5/23/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		25	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		25	5/15/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		25	9/23/2014	(16)	X	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A	50-53	53	11/25/2002			<0.50	**0.85**	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
R-090A		50	12/28/2012			<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50
R-090A		50	3/28/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		50	5/23/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		50	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		50	5/15/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		50	9/23/2014	(16)	X	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A	75	75	12/28/2012			<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50
R-090A		75	3/28/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		75	5/23/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		75	5/23/2013	(16), (2)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		75	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		75	5/15/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		75	9/23/2014	(16)	X	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A	100	100	3/28/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		100	5/23/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		100	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		100	5/15/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-090A		100	9/23/2014	(16)	X	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-091A	60	60	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
R-092A	Head	WH	12/3/2003			**4.9**	**0.58**	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
R-092A		WH	3/29/2004			**3.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
R-092A		WH	5/13/2004			**3.9**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
R-092A		WH	8/24/2004			**3.0**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
R-092A		WH	11/16/2004			**3.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
R-092A		WH	2/18/2005			**1.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
R-092A		WH	5/17/2005			**2.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
R-092A		WH	5/17/2005			**2.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
R-092A		WH	9/20/2005			**2.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
R-092A		WH	11/14/2005			**2.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
					Aquifer Water Quality Standards	*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
R-092A	Well	WH	1/26/2006			**2.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
R-092A		WH	4/7/2006			**1.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
R-092A		WH	11/14/2006	(8)		NS	NS	NS	NS	NS	NS	NS	NS
R-092A		WH	4/27/2007			**3.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
R-092A		WH	8/7/2007			**1.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
R-092A		WH	11/14/2007			**1.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
R-092A		WH	4/8/2008			**1.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
R-092A		WH	7/29/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
R-092A		WH	11/5/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
R-092A		WH	9/28/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
R-092A	5	5	11/26/2002			**4.9**	**0.53**	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
R-092A		5	3/20/2003			**1.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
R-092A	25	25	12/27/2012			<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	<0.5
R-092A		25	12/27/2012			<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	<0.5
R-092A		25	3/28/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		25	5/23/2013	(16)		**0.5**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		25	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		25	5/14/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A	50	50	11/26/2002			**5.1**	**0.57**	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
R-092A		50	3/20/2003			**4.0**	**0.52**	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
R-092A		50	12/3/2003			**9.9**	**0.93**	<0.50	<0.50	<0.50	<3.0	<0.50	<0.50
R-092A		50	3/30/2004			**5.1**	**0.59**	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
R-092A		50	12/27/2012			<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	<0.5
R-092A		50	3/28/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		50	5/23/2013	(16)		**1.4**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		50	8/30/2013	(16)		**1.4**	<0.5	<0.5	<1	<0.5	<5	<0.5	**1.2**
R-092A		50	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		50	2/19/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		50	2/19/2014	(17)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		50	5/14/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A	75	75	12/27/2012			<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	<0.5
R-092A		75	3/28/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		75	5/23/2013	(16)		**1.1**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		75	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		75	5/14/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A	100	100	3/28/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		100	3/28/2013	(2,16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		100	5/23/2013	(16)		**0.97**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		100	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A		100	5/14/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
R-092A	115	115	5/21/2003	(3)		**15.0**	**1.3**	<0.50	<0.50	<0.50	<1.0	<0.50	**1.2**
R-092A	142-147	142	11/26/2002			**6.3**	**0.72**	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
R-092A		147	3/20/2003			**3.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SE-001	5	5	7/26/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SE-001		5	11/5/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SE-001		5	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SE-001		5	5/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SE-001		5	8/8/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SE-001		5	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SE-001		5	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SE-001		26	12/3/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
SE-001	26-28	27	3/29/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SE-001		27	5/11/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SE-001		28	8/24/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SE-001		28	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SE-001		27	2/16/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SE-001		27	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SE-001		27	9/20/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SE-001		27	11/15/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SE-001		27	1/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SE-001		27	4/3/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SE-001		27	11/13/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SE-001		27	4/24/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SE-001		27	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SE-001		27	4/7/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SE-001		27	10/30/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SE-001		27	9/19/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
SJ-001	5	5	7/26/2001			**11.0**	**1.1**	<0.50	<0.50	<0.50	<1.0	<0.50	**1.2**
SJ-001		5	11/8/2001			**11.0**	**1.2**	<0.50	<0.50	<0.50	<1.0	<0.50	**1.2**
SJ-001		5	2/13/2002			**10.0**	**1.3**	<0.50	<0.50	<0.50	<1.0	<0.50	**1.6**
SJ-001		5	5/8/2002			**10.0**	**1.1**	<0.50	<0.50	<0.50	<1.0	<0.50	**1.3**
SJ-001		5	8/8/2002			**11.0**	**1.1**	<0.50	<0.50	<0.50	**1.4**	<0.50	**1.4**
SJ-001		5	11/25/2002			**9.0**	**0.97**	<0.50	<0.50	<0.50	<1.0	<0.50	**1.5**
SJ-001		5	3/19/2003			**7.6**	**0.85**	<0.50	<0.50	<0.50	<1.0	<0.50	**1.5**
SJ-001		5	9/21/2005			**4.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**3.1**
SJ-001		5	11/18/2005			**4.0**	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	**1.7**
SJ-001		5	11/18/2005	(2)		**3.9**	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	**1.8**
SJ-001		5	1/25/2006			**3.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.1**
SJ-001		5	4/5/2006			**2.8**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.5**
SJ-001		5	9/27/2006			**2.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.3**
SJ-001		5	11/16/2006			**3.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SJ-001		5	4/26/2007			**4.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.6**
SJ-001		5	8/8/2007			**3.7**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SJ-001		5	11/16/2007			**4.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SJ-001		5	4/10/2008			**3.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SJ-001		5	11/5/2008			**5.7**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SJ-001		5	9/23/2011			**6.4**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
SJ-001	2-25	23	12/2/2003			**6.9**	**0.75**	<0.50	<0.50	<0.50	<3.0	<0.50	**2.7**
SJ-001		22	3/30/2004			**5.0**	**0.63**	<0.50	<0.50	<0.50	<3.0	<0.50	**2.4**
SJ-001		22	5/12/2004			**5.5**	**0.66**	<0.50	<0.50	<0.50	<3.0	<0.50	**2.7**
SJ-001		22	8/25/2004			**5.1**	**0.65**	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SJ-001		22	11/18/2004			**5.8**	**0.68**	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SJ-001		22	2/17/2005			**4.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SJ-001		22	5/18/2005			**4.9**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.3**
SJ-001		22	5/18/2005			**4.5**	**0.53**	<0.50	<0.50	<0.50	<3.0	<0.50	**2.2**
SJ-001		22	9/21/2005			**5.5**	**0.61**	<0.50	<0.50	<0.50	<3.0	<0.50	**3.5**
SJ-001		22	11/18/2005			**4.8**	**0.51**	<0.50	<0.50	<0.50	<2.0	<0.50	**1.9**
SJ-001		22	1/25/2006			**3.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.1**
SJ-001		22	4/5/2006			**3.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.4**
SJ-001		22	11/16/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SJ-001		22	4/26/2007			**4.8**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**3.9**
SJ-001		22	8/8/2007			**4.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SJ-001		22	11/16/2007			**4.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**5.7**

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			Aquifer Water Quality Standards			*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
SJ-001	2	22	11/16/2007	(2)		**4.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**5.4**
SJ-001		22	4/10/2008			**4.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SJ-001		22	11/5/2008			**7.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SJ-001		22	9/23/2011			**6.7**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
SJ-001		25	12/19/2012	(16)		**5.6**	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	**1.3**
SJ-001		25	12/20/2012			**5.9**	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	**2.1**
SJ-001		25	4/1/2013	(16)		**5.1**	<1	<1	<1	<1	<2	<1	**1.1**
SJ-001		25	6/3/2013	(16)		**5.9**	<1	<1	<1	<1	<2	<1	**1.2**
SJ-001		25	6/3/2013	(16), (2)		**6.1**	<1	<1	<1	<1	<2	<1	**1.3**
SJ-001		25	8/21/2013	(16)		**5.4**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
SJ-001		25	11/18/2013	(16)		**5.2**	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.95**
SJ-001		25	2/20/2014	(16)		**4.8**	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.99**
SJ-001		25	2/20/2014	(16), (2)		**4.8**	<0.5	<0.5	<1	<0.5	<5	<0.5	**1**
SJ-001		25	5/15/2014	(16)		**3.6**	<0.5	<0.5	<1	<0.5	<5	<0.5	**1.2**
SJ-001		25	8/21/2014	(16)	**X**	**3.3**	<0.5	<0.5	<1	<0.5	<5	<0.5	**0.64**
SJ-001	Grab		12/17/2009	(7)		**7.5**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.6**
SJ-001			2/18/2010	(7)		**7.3**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**
SJ-001			5/20/2010	(7)		**7.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.4**
SJ-001			8/18/2010	(7)		**1.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SJ-001			11/16/2010	(7)		**7.2**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.8**
SJ-001			2/22/2011	(7)		**7.2**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.6**
SJ-001			5/17/2011	(7)		**6.5**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.7**
SJ-001			8/16/2011	(7)		**7.6**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.2**
SJ-001			11/21/2011	(7)		**7**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.8**
SJ-001			3/22/2012	(7)		**6.6**	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**
SJ-001			5/22/2012	(7)		**7.2**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.9**
SJ-001			8/08/2012	(7)		**6.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.7**
SJ-002	5	5	7/26/2001			**5.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SJ-002		5	11/6/2001			**3.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SJ-002		5	2/13/2002			**3.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SJ-002		5	5/8/2002			**3.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SJ-002		5	8/8/2002			**3.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SJ-002		5	11/25/2002			**2.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SJ-002		5	3/19/2003			**2.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
SJ-002		5	9/21/2005			**7.2**	**1.2**	<0.50	<0.50	**0.58**	<3.0	<0.50	<0.50
SJ-002		5	11/18/2005			**6.7**	**1.4**	<0.50	<0.50	**0.50**	<2.0	<0.50	<1.0
SJ-002		5	1/25/2006			**4.8**	**1.1**	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SJ-002		5	1/25/2006	(2)		**3.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SJ-002		5	4/5/2006			**6.5**	**1.5**	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SJ-002		5	4/5/2006	(2)		**6.2**	**1.5**	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SJ-002		5	9/27/2006			**6.8**	**2.0**	<1.0	<1.0	**1.1**	<5.0	<1.0	<1.0
SJ-002		5	11/16/2006			**13**	**2.7**	<1.0	<1.0	**1.2**	<5.0	<1.0	<1.0
SJ-002		5	2/5/2007			**16**	**2.8**	<1.0	<1.0	**1.7**	<5.0	<1.0	<1.0
SJ-002		5	2/5/2007	(2)		**16**	**3.0**	<1.0	<1.0	**1.5**	<5.0	<1.0	<1.0
SJ-002		5	4/27/2007			**18**	**3.7**	<1.0	<1.0	**1.7**	<5.0	<1.0	<1.0
SJ-002		5	8/9/2007			**15**	**3.2**	<1.0	<1.0	**1.3**	<5.0	<1.0	<5.0
SJ-002		5	11/20/2007			**13**	**2.7**	<1.0	<1.0	**1.3**	<5.0	<1.0	<5.0
SJ-002		5	4/10/2008			**10**	**2.2**	<1.0	<1.0	**1.2**	<5.0	<1.0	<5.0
SJ-002		5	7/29/2008			**9.0**	**2.0**	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SJ-002		5	11/5/2008			**11**	**2.2**	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SJ-002		5	9/26/2011			**2.1**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
SJ-002		23	12/2/2003			**3.3**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
SJ-002	22-25	23	12/2/2003	(2)		**3.3**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SJ-002		22	3/30/2004			**3.3**	**0.55**	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SJ-002		23	5/12/2004			**3.2**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SJ-002		23	8/25/2004			**3.1**	**0.53**	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SJ-002		23	8/25/2004	(2)		**3.1**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SJ-002		23	11/18/2004			**4.7**	**0.68**	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SJ-002		23	2/17/2005			**1.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.3**
SJ-002		23	5/18/2005			**4.7**	**0.73**	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
SJ-002		23	9/21/2005			**5.7**	**1.1**	<0.50	<0.50	**0.55**	<3.0	<0.50	<2.0
SJ-002		23	11/18/2005			**5.8**	**1.2**	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0
SJ-002		23	1/25/2006			**3.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SJ-002		23	4/5/2006			**5.2**	**1.3**	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
SJ-002		23	11/16/2006			**12.0**	**2.5**	<1.0	<1.0	**1.2**	<5.0	<1.0	<1.0
SJ-002		23	2/5/2007			**14.0**	**2.4**	<1.0	<1.0	**1.5**	<5.0	<1.0	<1.0
SJ-002		23	4/27/2007			**16.0**	**3.2**	<1.0	<1.0	**1.9**	<5.0	<1.0	<1.0
SJ-002		23	8/9/2007			**15**	**3.1**	<1.0	<1.0	**1.3**	<5.0	<1.0	<5.0
SJ-002		23	11/20/2007			**9.8**	**2.0**	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SJ-002		23	4/10/2008			**10**	**2.2**	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SJ-002		23	7/29/2008			**6.2**	**1.5**	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
SJ-002		23	11/5/2008			**11**	**2.6**	<1.0	<1.0	**1.0**	<5.0	<1.0	<5.0
SJ-002		23	9/26/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
SJ-002		23	9/26/2011	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
SJ-002		25	12/20/2012			**1.9**	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	<0.5
SJ-002		25	4/1/2013	(16)		**2.6**	<1	<1	<1	<1	<2	<1	<1
SJ-002		25	6/3/2013	(16)		**5.4**	**1.2**	<1	<1	<1	<2	<1	<1
SJ-002		25	8/21/2013	(16)		**5.1**	**1.1**	<0.5	<1	<0.5	<5	<0.5	<0.5
SJ-002		25	11/18/2013	(16)		**6.4**	**1.1**	<0.5	<1	<0.5	<5	<0.5	<0.5
SJ-002		25	2/19/2014	(16)		**7.5**	**1.2**	<0.5	<1	<0.5	<5	<0.5	<0.5
SJ-002		25	5/14/2014	(16)		**6.8**	**1.2**	<0.5	<1	<0.5	<5	<0.5	0.72
SJ-002		25	5/14/2014	(16), (2)		**3.3**	**0.56**	<0.5	<1	<0.5	<5	<0.5	<0.5
SJ-002		25	8/20/2014	(16)	**X**	**5.9**	**1.2**	<0.5	<1	<0.5	<5	<0.5	<0.5
SJ-002	Grab		12/17/2009	(7)		**4.3**	**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SJ-002			2/18/2010	(7)		**3.0**	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SJ-002			5/20/2010	(7)		**2.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SJ-002			8/18/2010	(7)		**3.4**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SJ-002			11/16/2010	(7)		**3.2**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SJ-002			2/22/2011	(7)		**2.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SJ-002			5/17/2011	(7)		**2.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SJ-002			8/16/2011	(7)		**1.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SJ-002			11/21/2011	(7)		**1.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SJ-002			3/22/2012	(7)		**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SJ-002			5/21/2012	(7)		**1.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SJ-002			8/08/2012	(7)		**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-177A		5	7/31/2001	(1)		**1.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.1**
WR-177A		5	11/7/2001			**0.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.9**
WR-177A		5	2/13/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		5	5/8/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		5	8/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		5	3/19/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		5	12/2/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-177A		5	12/2/2003	(2)		<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-177A		5	5/12/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
WR-177A	5	5	11/18/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-177A		5	2/16/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		5	3/14/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		5	4/22/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		5	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-177A		5	9/20/2005			**3.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**7.3**
WR-177A		5	11/17/2005			**3.2**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**6.0**
WR-177A		5	1/25/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		5	4/5/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		5	4/5/2006	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		5	9/21/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-177A	25	25	2/16/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		25	3/14/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		25	4/22/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		25	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-177A		25	9/20/2005			**4.3**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**9.4**
WR-177A		25	11/17/2005			**2.9**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**6.2**
WR-177A		25	1/25/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		25	4/5/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		25	11/15/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		25	4/24/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		25	11/14/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-177A		25	4/10/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-177A		25	11/6/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-177A		25	9/21/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-177A	50	50	7/31/2001	(1)		**0.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.9**
WR-177A		50	11/7/2001			**0.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
WR-177A		50	2/13/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		50	5/8/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		50	8/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		50	3/19/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		50	11/17/2005			**2.7**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**6.2**
WR-177A		50	1/25/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		50	1/25/2006	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		50	4/5/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		50	11/15/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		50	4/24/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		50	11/14/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-177A		50	4/10/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-177A		50	11/6/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-177A		50	9/21/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-177A	75	75	4/10/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-177A	100	100	1/25/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		100	4/5/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-177A		100	9/21/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-177A	111-112	112	7/31/2001	(1)		**1.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		111	11/7/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		111	8/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		112	2/13/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		112	5/8/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-177A		112	3/19/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-178A		5	8/1/2001	(1)		**9.1**	**0.7**	<0.50	<0.50	<0.50	<1.0	<0.50	**0.8**

Summary of Groundwater Quality Data, Selected VOCs
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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
WR-178A	5	5	11/7/2001			**4.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
WR-178A		5	2/13/2002			**4.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.8**
WR-178A		5	5/8/2002			**2.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
WR-178A		5	8/7/2002			**0.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-178A		5	11/26/2002			**3.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.72**
WR-178A		5	3/19/2003			**3.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.84**
WR-178A		5	11/15/2005	(2)		**0.9**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-178A		5	11/15/2005			**0.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-178A		5	1/24/2006			**1.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-178A		5	4/5/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-178A		5	11/15/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-178A		5	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-178A		5	11/14/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-178A		5	4/9/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-178A		5	11/3/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-178A		5	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-178A	25	25	12/19/2012			<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	<0.5
WR-178A		25	4/1/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
WR-178A		25	6/3/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
WR-178A		25	8/21/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-178A		25	8/21/2013	(16),(2)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-178A		25	11/18/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-178A		25	2/19/2014	(16)		**0.58**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-178A		25	5/14/2014	(16)		**0.9**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-178A		25	8/21/2014	(16)	X	**2.1**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-178A	50	50	8/1/2001	(1)		**7.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.5**
WR-178A		50	11/7/2001			**2.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-178A		50	2/13/2002			**2.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
WR-178A		50	5/8/2002			**1.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-178A		50	8/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-178A		50	11/26/2002			**1.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-178A		50	3/19/2003			**2.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.69**
WR-178A		50	12/2/2003			**1.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-178A		50	3/30/2004			**1.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-178A		50	5/13/2004			**1.7**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-178A		50	8/25/2004			**1.3**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-178A		50	8/25/2004	(2)		**1.3**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-178A		50	11/18/2004			**1.5**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-178A		50	2/17/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-178A		50	5/18/2005			**1.2**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-178A		50	9/20/2005	(2)		**0.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-178A		50	9/20/2005			**0.8**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-178A		50	11/15/2005			**0.7**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-178A		50	1/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-178A		50	4/5/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-178A		50	11/15/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-178A		50	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-178A		50	11/14/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-178A		50	4/9/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-178A		50	11/3/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-178A		50	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-178A		50	9/20/2011	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0

Summary of Groundwater Quality Data, Selected VOCs
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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
WR-178A	106-112	109	8/1/2001	(1)		**4.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.8**
WR-178A		109	11/7/2001			**1.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-178A		110	2/13/2002			**2.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-178A		110	5/8/2002			**0.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-178A		100	8/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-178A		110	11/26/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-178A		112	3/19/2003			**2.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
WR-178A		106	5/20/2003			**3.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.8**
WR-178A	Grab	3	8/7/2012			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
WR-179A	5	5	7/31/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-179A		5	7/31/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-179A		5	11/7/2001			**0.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
WR-179A		5	2/13/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-179A		5	5/8/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-179A		5	8/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-179A		5	3/19/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-179A		5	12/2/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-179A		5	5/12/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-179A		5	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-179A		5	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-179A		5	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-179A		5	4/4/2006			<1.0	**12**	<1.0	<1.0	**1.1**	<5.0	<1.0	<1.0
WR-179A		5	5/18/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-179A		5	11/14/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-179A		5	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-179A		5	11/14/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-179A		5	4/7/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-179A		5	10/30/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-179A		5	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-179A	25	25	12/19/2012			<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	<0.5
WR-179A		25	12/19/2012			<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	<0.5
WR-179A		25	4/1/2013	(16)		<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	<1.0
WR-179A		25	6/3/2013	(16)		<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	<1.0
WR-179A		25	8/21/2013	(16)		<0.5	<0.5	<0.5	<1.0	<0.5	<5	<0.5	<0.5
WR-179A		25	11/18/2013	(16)		<0.5	<0.5	<0.5	<1.0	<0.5	<5	<0.5	<0.5
WR-179A		25	2/19/2014	(16)		<0.5	<0.5	<0.5	<1.0	<0.5	<5	<0.5	<0.5
WR-179A		25	5/14/2014	(16)		<0.5	<0.5	<0.5	<1.0	<0.5	<5	<0.5	<0.5
WR-179A		25	8/20/2014	(16)	**X**	<0.5	<0.5	<0.5	<1.0	<0.5	<5	<0.5	<0.5
WR-179A		25	8/20/2014	(16)	**X**	<0.5	<0.5	<0.5	<1.0	<0.5	<5	<0.5	<0.5
WR-179A	50	50	7/31/2001	(1)		**2.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.2**
WR-179A		50	11/7/2001			**1.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.1**
WR-179A		50	2/13/2002			**0.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-179A		50	5/8/2002			**0.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
WR-179A		50	8/7/2002			**0.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.8**
WR-179A		50	3/19/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-179A		50	12/2/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-179A		50	5/12/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-179A		50	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-179A		50	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-179A		50	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-179A		50	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			***5***	***5***	***2***	***5***	***70***	***5***	***100***	***NE***
WR-179A		50	11/14/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-179A		50	11/14/2006	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-179A		50	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-179A		50	11/14/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-179A		50	4/7/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-179A		50	10/30/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-179A		50	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-179A		117	7/31/2001	(1)		**2.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.2**
WR-179A		117	11/7/2001			**1.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
WR-179A	117-119	118	2/13/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-179A		119	5/8/2002			**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.6**
WR-179A		118	8/7/2002			**0.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.9**
WR-179A		119	3/19/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		5	7/30/2001	(1)		<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		5	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		5	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A	5	5	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		5	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		5	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		25	12/19/2012	(16)		<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	<0.5
WR-180A		25	12/20/2012			<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	<0.5
WR-180A		25	4/2/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
WR-180A		25	6/4/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
WR-180A		25	8/22/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-180A	25	25	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-180A		25	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-180A		25	2/19/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-180A		25	5/14/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-180A		25	8/20/2014	(16)	**X**	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-180A		50	7/30/2001	(1)		<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		50	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		50	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		50	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		50	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		50	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		50	12/3/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-180A		50	5/11/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-180A		50	8/24/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-180A		50	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-180A		50	11/17/2004	(2)		<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-180A		50	2/16/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-180A		50	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-180A	50	50	9/21/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-180A		50	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-180A		50	1/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-180A		50	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-180A		50	9/27/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-180A		50	11/15/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-180A		50	2/5/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-180A		50	4/24/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-180A		50	8/8/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-180A		50	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0

Summary of Groundwater Quality Data, Selected VOCs
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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
WR-180A		50	4/9/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-180A		50	11/3/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-180A		50	9/22/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-180A		50	9/22/2011	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-180A		121	7/30/2001	(1)		<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A	120-122	120	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		121	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		121	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		121	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-180A		122	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-181A		5	7/25/2001			**1.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.3**
WR-181A		5	11/7/2001			**2.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.3**
WR-181A		5	2/13/2002			**2.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.2**
WR-181A		5	5/8/2002			**2.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.7**
WR-181A		5	8/7/2002			**5.5**	**0.5**	<0.50	<0.50	<0.50	<1.0	<0.50	**1.7**
WR-181A		5	11/26/2002			**3.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-181A		5	3/19/2003			**2.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-181A		5	12/1/2003			**0.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-181A		5	12/1/2003	(2)		**0.6**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-181A		5	5/13/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-181A		5	11/18/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-181A	5	5	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-181A		5	11/16/2005			**4.5**	**0.98**	<0.50	<0.50	<0.50	<3.0	<0.50	**2.1**
WR-181A		5	1/25/2006			**1.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-181A		5	1/25/2006	(2)		**1.0**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-181A		5	4/5/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-181A		5	11/15/2006			**4.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-181A		5	4/26/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-181A		5	4/26/2007	(2)		<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-181A		5	11/14/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-181A		5	4/9/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-181A		5	11/3/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-181A		5	9/21/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-181A		50	7/25/2001			**1.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.2**
WR-181A		50	11/7/2001			**2.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.2**
WR-181A		50	2/13/2002			**2.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.4**
WR-181A	50	50	5/8/2002			**2.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.7**
WR-181A		50	8/7/2002			**5.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.7**
WR-181A		50	11/26/2002			**3.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.79**
WR-181A		50	3/19/2003			**2.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-181A		50	1/25/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-181A		124	7/25/2001			**0.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.8**
WR-181A		123	11/7/2001			**1.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.1**
WR-181A		123	2/13/2002			**2.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.4**
WR-181A	123-124	123	5/8/2002			**2.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.7**
WR-181A		123	8/7/2002			**4.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.7**
WR-181A		123	11/26/2002			**3.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.87**
WR-181A		123	3/19/2003			**2.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-181A		124	1/25/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-186A		5	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		5	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		5	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50

Summary of Groundwater Quality Data, Selected VOCs
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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
WR-186A	5	5	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		5	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		5	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		5	5/11/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-186A	50	50	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		50	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		50	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		50	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		50	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		50	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A	91-92	92	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		91	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		92	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		91	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A		92	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-186A	100	100	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A	5	5	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		5	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		5	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		5	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		5	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		50	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		50	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		50	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		50	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		50	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
WR-207A	101-102	102	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		101	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		101	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		102	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207A		101	8/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.5**
WR-207B	5	5	3/19/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**0.59**
WR-207B		5	1/24/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-207B		5	4/5/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.3**
WR-207B		5	9/21/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-207B	50	50	3/19/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-207B	106	106	3/19/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-273A	5	5	7/25/2001			**71.0**	**14.0**	**5.0**	**0.7**	**2.4**	**1.2**	**1.0**	**22.0**
WR-273A		5	2/13/2002			**96.0**	**19.0**	**7.4**	**1.2**	**4.4**	**2.5**	**1.2**	**26.0**
WR-273A		5	5/8/2002			**90.0**	**14.0**	**8.1**	**1.8**	**12.0**	**5.1**	**1.0**	**32.0**
WR-273A		5	8/8/2002			**130.0**	**24.0**	**6.8**	**1.3**	**4.1**	**2.4**	**1.3**	**21.0**
WR-273A		5	3/19/2003			**130.0**	**28.0**	**5.8**	**1.3**	**4.1**	**1.7**	**1.4**	**21.0**
WR-273A		5	12/3/2003			**94.0**	**19.0**	**12**	**1.9**	**11**	**5.1**	**1.3**	**50.0**
WR-273A		5	5/13/2004			**100.0**	**27**	**6.6**	**1.6**	**4.8**	<3.0	**1.2**	**32**
WR-273A		5	11/19/2004			**91.0**	**18**	**9.8**	**2.4**	**14**	**6.4**	**1.1**	**38**
WR-273A		5	11/19/2004	(2)		**87.0**	**17**	**9.7**	**2.3**	**13**	**6.3**	**0.98**	**36**
WR-273A		5	5/18/2005			**89.0**	**19**	**7.4**	**2.1**	**9.1**	**4.3**	**0.83**	**34**
WR-273A		5	11/21/2005			**64.0**	**15**	**6.2**	**3.1**	**13**	**5.4**	**0.84**	**50**
WR-273A		5	4/7/2006			**60.0**	**16.0**	**2.6**	**1.2**	**5.7**	<5.0	<1.0	**24.0**
WR-273A		5	4/7/2006	(2)		**48.0**	**15.0**	**2.4**	**1.2**	**5.9**	<5.0	<1.0	**25.0**

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
WR-273A		5	11/17/2006			**60.0**	**13.0**	<1.0	<1.0	**6.7**	<5.0	<1.0	**25.0**
WR-273A		5	4/30/2007			**79**	**20**	**1.2**	<1.0	**6.4**	<5.0	<1.0	**22**
WR-273A		5	11/20/2007	(12)		**39**	**12**	<1.0	<1.0	**5.8**	<5.0	<1.0	**34**
WR-273A		5	4/9/2008			**55**	**18**	<1.0	<1.0	**6.4**	<5.0	<1.0	**46**
WR-273A		5	11/4/2008			**44**	**15**	<1.0	<1.0	**5.6**	<5.0	<1.0	**39**
WR-273A		5	9/26/2011			**8.7**	**2.8**	<1.0	<1.0	**2.3**	<4.0	<1.0	<4.0
WR-274A		5	7/25/2001			**57.0**	**9.9**	<0.50	<0.50	**2.1**	<1.0	<0.50	**7.3**
WR-274A		5	11/7/2001			**59.0**	**11.0**	<0.50	<0.50	**2.2**	<1.0	<0.50	**4.8**
WR-274A		5	2/14/2002			**53.0**	**10.0**	<0.50	<0.50	**2.1**	<1.0	<0.50	**7.6**
WR-274A		5	5/9/2002			**45.0**	**9.5**	<0.50	<0.50	**2.1**	<1.0	<0.50	**5.1**
WR-274A		5	8/8/2002			**44.0**	**10.0**	<0.50	<0.50	**2.6**	<1.0	<0.50	**4.9**
WR-274A		5	3/20/2003			**23.0**	**5.3**	<0.50	<0.50	**1.7**	<1.0	<0.50	**1.7**
WR-274A		5	12/3/2003			**48.0**	**9.4**	<0.50	<0.50	**2.6**	<3.0	<0.50	**9.8**
WR-274A		5	5/13/2004			**51.0**	**10**	<0.50	<0.50	**2.8**	<3.0	<0.50	**10**
WR-274A		5	11/19/2004			**47.0**	**10**	<0.50	<0.50	**3.2**	<3.0	<0.50	**4.5**
WR-274A	5	5	5/18/2005			**58.0**	**14**	<0.50	<0.50	**3.6**	<3.0	<0.50	**9.4**
WR-274A		5	1/26/2006			**75.0**	**17.0**	<1.0	<1.0	**6.8**	<5.0	<1.0	**4.9**
WR-274A		5	4/7/2006			**57.0**	**17.0**	<1.0	<1.0	**7.0**	<5.0	<1.0	**10.0**
WR-274A		5	11/17/2006			**110.0**	**25.0**	<1.0	<1.0	**12.0**	<5.0	<1.0	**8.4**
WR-274A		5	11/17/2006	(2)		**110.0**	**25.0**	<1.0	<1.0	**12.0**	<5.0	<1.0	**8.4**
WR-274A		5	4/30/2007			**140**	**32**	<1.0	<1.0	**17**	<5.0	<1.0	**12**
WR-274A		5	11/20/2007			**130**	**30**	<1.0	<1.0	**19**	<5.0	<1.0	**11**
WR-274A		5	11/20/2007	(2)		**140**	**31**	<1.0	<1.0	**19**	<5.0	<1.0	**17**
WR-274A		5	4/10/2008			**140**	**32**	<1.0	<1.0	**16**	<5.0	<1.0	**8.6**
WR-274A		5	11/6/2008			**120**	**30**	<1.0	<1.0	**17**	<5.0	<1.0	**11**
WR-274A		5	9/27/2011			**190**	**50**	<1.0	**1.5**	**36**	<4.0	**1.3**	**11**
WR-274A	25	25	12/19/2012	(16)		**82.8**	**31.7**	<1.0	<2.0	**27.7**	<10	<1	**5.9**
WR-274A		25	12/20/2012			**122**	**37.9**	<1.0	<2.0	**41.7**	<10	<1.0	**8.2**
WR-275A		5	7/25/2001			**79.0**	**16.0**	<0.50	<0.50	**7.8**	<1.0	<0.50	**4.3**
WR-275A		5	11/8/2001			**59.0**	**12.0**	<0.50	<0.50	**6.0**	<1.0	<0.50	**4.8**
WR-275A		5	2/14/2002			**50.0**	**8.3**	<0.50	<0.50	**4.2**	<1.0	<0.50	**7.1**
WR-275A		5	5/9/2002			**46.0**	**8.2**	<0.50	<0.50	**4.3**	<1.0	<0.50	**5.7**
WR-275A		5	8/8/2002			**49.0**	**8.7**	<0.50	<0.50	**4.3**	<1.0	<0.50	**5.2**
WR-275A		5	3/20/2003			**38.0**	**7.9**	<0.50	<0.50	**3.9**	<1.0	<0.50	**5.6**
WR-275A		5	12/3/2003			**41.0**	**9.0**	<0.50	**0.5**	**4.2**	<3.0	<0.50	**10**
WR-275A		5	5/13/2004			**34.0**	**8.2**	<0.50	**0.51**	**3.7**	<3.0	<0.50	**13**
WR-275A		5	11/19/2004			**38.0**	**8.7**	<0.50	**0.58**	**3.4**	<3.0	**0.50**	**8.8**
WR-275A	5	5	5/18/2005			**39.0**	**8.5**	<0.50	**0.58**	**2.4**	<3.0	**0.55**	**11**
WR-275A		5	11/21/2005			**30.0**	**7.1**	<0.50	**0.53**	**2.3**	<3.0	<0.50	**10**
WR-275A		5	4/6/2006			**18.0**	**5.8**	<1.0	<1.0	**1.6**	<5.0	<1.0	**10.0**
WR-275A		5	11/16/2006			**20.0**	**5.3**	<1.0	<1.0	**1.6**	<5.0	<1.0	**5.6**
WR-275A		5	4/27/2007			**20**	**5.3**	<1.0	<1.0	**2.0**	<5.0	<1.0	**9.2**
WR-275A		5	4/27/2007	(2)		**20**	**5.6**	<1.0	<1.0	**1.9**	<5.0	<1.0	**9.4**
WR-275A		5	11/16/2007			**16**	**4.3**	<1.0	<1.0	<1.0	<5.0	<1.0	**8.9**
WR-275A		5	4/10/2008			**15**	**4.0**	<1.0	<1.0	<1.0	<5.0	<1.0	**5.2**
WR-275A		5	4/10/2008	(2)		**15**	**4.3**	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-275A		5	11/6/2008			**8.9**	**2.9**	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-275A		5	9/27/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-352A	5	5	11/15/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-352A		88	12/1/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-352A		87	3/29/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
			Aquifer Water Quality Standards			***5***	***5***	***2***	***5***	***70***	***5***	***100***	***NE***
WR-352A	86-88	87	5/11/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-352A		87	5/11/2004	(2)		<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-352A		89	8/24/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-352A		86	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-352A		87	2/16/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-352A		87	5/18/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-352A		87	9/20/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-352A		87	11/15/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-352A		87	1/23/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-352A		87	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-352A		87	9/27/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-352A		87	11/14/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-352A		87	4/25/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-352A		87	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-352A		87	4/9/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-352A		87	11/3/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-352A		87	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-352A	429 BTOC (~110 FBW)		12/19/2012			<0.5	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50
WR-352A			4/1/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
WR-352A			6/3/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
WR-352A			8/21/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-352A			11/18/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-352A			2/19/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-352A			5/14/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-352A			8/21/2014	(16)	**X**	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-352A	114	114	5/20/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-352A	118-121	118	7/30/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-352A		118	11/5/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-352A		118	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-352A		118	5/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-352A		118	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-352A		121	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-352A		120	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-353A	103	103	12/2/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-353A		103	5/12/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-353A		103	11/18/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-353A		103	5/17/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-353A		103	11/16/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-353A		103	4/5/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-353A		103	11/15/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-353A		103	4/24/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-353A		103	11/14/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-353A		103	4/9/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-353A		103	11/4/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-353A		103	9/21/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-353A	130-131	131	7/25/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-353A		131	2/12/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-353A		131	5/8/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-353A		130	8/7/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-353A		131	3/18/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-354A		5	7/26/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50

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			Aquifer Water Quality Standards			*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
WR-354A	5	5	11/6/2001			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-354A		5	2/11/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-354A		5	5/6/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-354A		5	8/5/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-354A		5	11/25/2002			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-354A		5	3/17/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
WR-354A	25-31	30	12/1/2003			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-354A		29	3/29/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-354A		29	5/12/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-354A		29	5/12/2004	(2)		<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-354A		31	8/24/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-354A		30	11/17/2004			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-354A		31	2/17/2005			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.3**
WR-354A		29	5/18/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-354A		29	9/20/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-354A		29	11/15/2005			<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-354A		29	1/23/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-354A		29	4/4/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-354A		29	9/27/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-354A		29	11/14/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-354A		29	2/5/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-354A		29	4/24/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
WR-354A		29	8/8/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-354A		29	11/13/2007			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-354A		29	4/8/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-354A		29	11/3/2008			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-354A		29	9/20/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-354A		25	12/20/2012			<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	<0.5
WR-354A		25	4/1/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
WR-354A		25	6/3/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
WR-354A		25	8/23/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-354A		25	11/18/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-354A		25	2/19/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-354A		25	5/14/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-354A		25	8/20/2014	(16)	**X**	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-358A	5	5	3/20/2003			**27.0**	**4.2**	**1.3**	<0.5	**2.4**	<1.0	<0.5	**19**
WR-358A	25	25	12/3/2003			**33.0**	**5.4**	**2.3**	<0.50	**3.3**	<3.0	<0.50	**37.0**
WR-358A		25	5/13/2004			**34.0**	**6.0**	**3.2**	**0.64**	**3.9**	<3.0	<0.50	**43**
WR-358A		25	11/18/2004			**41.0**	**7.0**	**3.2**	**0.82**	**4.6**	<3.0	<0.50	**36**
WR-358A		25	5/18/2005	(2)		**42.0**	**6.5**	**3.2**	**0.77**	**3.8**	<3.0	<0.50	**44**
WR-358A		25	5/18/2005			**42.0**	**6.3**	**3.4**	**0.71**	**3.7**	<3.0	<0.50	**44**
WR-358A		25	11/21/2005			**46.0**	**8.0**	**4**	**1.00**	**5.7**	<3.0	<0.50	**46**
WR-358A		25	11/21/2005	(2)		**45.0**	**7.8**	**3.8**	**0.98**	**5.6**	<3.0	<0.50	**48**
WR-358A		25	1/26/2006			**40.0**	**6.8**	**3.7**	<1.0	**4.7**	<5.0	<1.0	**25.0**
WR-358A		25	4/6/2006			**28.0**	**6.9**	**2.7**	<1.0	**4.7**	<5.0	<1.0	**41.0**
WR-358A		25	11/16/2006			**55.0**	**11.0**	**4.6**	**1.3**	**7.7**	<5.0	<1.0	**51.0**
WR-358A		25	4/30/2007			**65**	**12**	**4.7**	**1.6**	**10**	<5.0	<1.0	**59**
WR-358A		25	11/20/2007			**67**	**12**	**6.7**	**1.8**	**11**	<5.0	<1.0	**65**
WR-358A		25	11/20/2007	(2)		**71**	**13**	**7.4**	**1.8**	**12**	<5.0	1.1	**90**
WR-358A		25	4/10/2008			**71**	**13**	**4.3**	**1.5**	**9.4**	<5.0	<1.0	**53**
WR-358A		25	11/6/2008			**73**	**14**	**5.6**	**1.9**	**12**	<5.0	<1.0	**76**
WR-358A		25	9/23/2011			**60**	**11**	**2.6**	**1.7**	**9.7**	<4.0	<1.0	**24**

Summary of Groundwater Quality Data, Selected VOCs
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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
WR-358A		25	12/19/2012	(16)		**45.1**	**10.4**	**2.1**	**1.6**	**10.1**	<5.0	<0.5	**27.6**
WR-358A		25	12/20/2012			**51.8**	**12**	**2.2**	**1.7**	**13.4**	<5.0	**0.75**	**42.7**
WR-358A	50	50	2/14/2002			**17.0**	**2.7**	**0.7**	<0.50	**1.5**	<1.0	<0.50	**15.0**
WR-358A		50	5/9/2002			**23.0**	**3.5**	**1.0**	<0.50	**2.1**	<1.0	<0.50	**16.0**
WR-358A		50	8/8/2002			**21.0**	**3.1**	**0.9**	<0.50	**1.9**	**1.7**	<0.50	**14.0**
WR-367A	5	5	8/2/2001	(1)		**10.0**	**1.9**	<0.50	**1.4**	<0.50	<1.0	<0.50	**2.6**
WR-367A		5	11/8/2001			**13.0**	**2.3**	<0.50	**1.6**	<0.50	<1.0	<0.50	**2.6**
WR-367A		5	2/13/2002			**14.0**	**2.8**	<0.50	**1.9**	<0.50	**1.4**	<0.50	**3.3**
WR-367A		5	5/8/2002			**20.0**	**3.4**	<0.50	**2.3**	<0.50	**1.2**	<0.50	**2.6**
WR-367A		5	8/8/2002			**22.0**	**3.6**	<0.50	**2.0**	<0.50	**1.2**	<0.50	**2.8**
WR-367A		5	3/20/2003			**25.0**	**3.5**	<0.50	<0.5	<0.50	<1.0	<0.50	**3.2**
WR-367A		5	12/1/2003			**41.0**	**2.7**	<0.50	**0.57**	<0.50	<3.0	<0.50	**7.4**
WR-367A		5	5/12/2004			**34.0**	**1.8**	<0.50	**0.56**	<0.50	<3.0	<0.50	**7.7**
WR-367A		5	11/18/2004			**28.0**	**1.1**	<0.50	<0.50	<0.50	<3.0	<0.50	**5.6**
WR-367A		5	5/18/2005			**20.0**	**0.66**	<0.50	<0.50	<0.50	<3.0	<0.50	**7.0**
WR-367A		5	11/21/2005			**20.0**	**1.2**	<0.50	**0.53**	<0.50	<3.0	<0.50	**7.5**
WR-367A		5	4/6/2006			**14.0**	**1.0**	<1.0	**0.53**	<1.0	<5.0	<1.0	**6.7**
WR-367A		5	11/16/2006			**26.0**	**2.3**	<1.0	**1.2**	<1.0	<5.0	<1.0	**6.0**
WR-367A		5	4/27/2007			**32**	**1.7**	<1.0	<1.0	<1.0	<5.0	<1.0	**7.2**
WR-367A		5	11/20/2007			**20**	**1.3**	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-367A		5	4/10/2008			**15**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-367A		5	11/4/2008			**27**	**1.8**	<1.0	<1.0	<1.0	<5.0	<1.0	**5.2**
WR-367A		5	9/26/2011			**8.8**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-367A	50	46	8/2/2001	(1)		**11.0**	**2.0**	<0.50	**1.5**	<0.50	<1.0	<0.50	**2.5**
WR-367A		50	11/21/2005			**20.0**	**1.2**	<0.50	**0.54**	<0.50	<3.0	<0.50	**6.6**
WR-367A		50	4/6/2006			**14.0**	**1.1**	<1.0	<1.0	<1.0	<5.0	<1.0	**6.5**
WR-367A		50	11/16/2006			**27.0**	**2.2**	<1.0	**1.1**	<1.0	<5.0	<1.0	**6.3**
WR-367A		50	4/27/2007			**32**	**2.1**	<1.0	<1.0	<1.0	<5.0	<1.0	**7.5**
WR-367A		50	11/20/2007	(10)		**20**	**1.3**	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-367A		50	4/10/2008			**7.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-367A		50	11/4/2008			**27**	**2.8**	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-367A		50	11/4/2008	(2)		**28**	**3.2**	<1.0	<1.0	<1.0	<5.0	<1.0	**5.5**
WR-367A		50	9/26/2011			**1.9**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-435A	5	5	11/7/2001			**2.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.5**
WR-435A		5	2/13/2002			**0.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.0**
WR-435A		5	5/7/2002			**2.0**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.5**
WR-435A		5	8/8/2002			**3.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.9**
WR-435A		5	3/18/2003			**2.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.7**
WR-435A		5	12/1/2003			**2.4**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**3.3**
WR-435A		5	5/13/2004			**2.0**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**3.7**
WR-435A		5	11/18/2004			**2.2**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.3**
WR-435A		5	11/18/2004	(2)		**2.2**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**2.4**
WR-435A		5	5/17/2005			**1.4**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	<2.0
WR-435A		5	11/17/2005			**2.0**	<0.50	<0.50	<0.50	<0.50	<3.0	<0.50	**3.0**
WR-435A		5	4/5/2006			<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**1.5**
WR-435A		5	11/13/2006			**1.5**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.5**
WR-435A		5	4/25/2007			**1.6**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.4**
WR-435A		5	4/25/2007	(2)		**1.7**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**2.3**
WR-435A		5	11/12/2007			**1.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-435A		5	11/12/2007	(2)		**1.1**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-435A		5	4/7/2008			**1.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-435A		5	4/7/2008	(2)		**1.4**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
WR-435A		5	10/30/2008			**1.9**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-435A		5	10/30/2008	(2)		**2.3**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0
WR-435A		5	9/23/2011			**1.3**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-435A	38	38	11/7/2001			**0.8**	**0.5**	<0.50	**0.5**	<0.50	<1.0	<0.50	**0.9**
WR-702A		25	9/22/2011			**6.8**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-702A		25	12/20/2012			**4.4**	<0.5	<0.5	<1.0	<0.5	<5.0	<0.5	**2.2**
WR-702A		25	4/2/2013	(16)		**1.2**	<1	<1	<1	<1	<2	<1	**1**
WR-702A		25	6/4/2013	(16)		**4.6**	<1	<1	<1	<1	<2	<1	**2.5**
WR-702A	25	25	8/22/2013	(16)		**3.7**	<0.5	<0.5	<1	<0.5	<5	<0.5	**2.4**
WR-702A		25	11/19/2013	(16)		**3.4**	<0.5	<0.5	<1	<0.5	<5	<0.5	**1.7**
WR-702A		25	2/20/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-702A		25	5/15/2014	(16)		**2.4**	<0.5	<0.5	<1	<0.5	<5	<0.5	**1.7**
WR-702A		25	8/20/2014	(16)	**X**	**2.2**	<0.5	<0.5	<1	<0.5	<5	<0.5	**1.3**
WR-702A	50	50	9/22/2011			**8.3**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**4.0**
WR-702A			1/21/2009	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-702A			1/21/2009	(2,7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-702A			2/10/2009	(7)		**8.2**	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.7**
WR-702A			5/20/2009	(7)		**7.9**	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.4**
WR-702A			8/19/2009	(7)		**10.1**	**0.8**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.3**
WR-702A			8/19/2009	(2,7)		**9.6**	**0.8**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.0**
WR-702A			11/23/2009	(7)		**9.2**	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.6**
WR-702A			2/18/2010	(7)		**9.0**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.6**
WR-702A	Grab		5/20/2010	(7)		**7.2**	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.5**
WR-702A			8/18/2010	(7)		**6.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.4**
WR-702A			11/16/2010	(7)		**7.4**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.5**
WR-702A			2/22/2011	(7)		**6.6**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.6**
WR-702A			5/17/2011	(7)		**7.2**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.5**
WR-702A			8/16/2011	(7)		**6.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.9**
WR-702A			11/21/2011	(7)		**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.6**
WR-702A			3/22/2012	(7)		**6.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**4.8**
WR-702A			5/21/2012	(7)		**5.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.2**
WR-702A			8/07/2012	(7)		**5.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.5**
WR-703A		25	9/22/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-703A		25	12/20/2012			<0.5	<0.50	<0.50	<1.0	<0.5	<5.0	<0.50	<0.50
WR-703A		25	4/2/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
WR-703A		25	6/4/2013	(16)		<1	<1	<1	<1	<1	<2	<1	<1
WR-703A	25	25	8/22/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-703A		25	11/19/2013	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-703A		25	2/20/2014	(16)		**2.1**	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-703A		25	5/15/2014	(16)		<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-703A		25	8/20/2014	(16)	**X**	<0.5	<0.5	<0.5	<1	<0.5	<5	<0.5	<0.5
WR-703A	50	50	9/22/2011			<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-703A			2/10/2009	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			5/20/2009	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			8/19/2009	(7)		**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			8/19/2009	(2,7)		**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			11/23/2009	(7)		**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			2/18/2010	(7)		**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			5/20/2010	(7)		**1.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A	Grab		8/18/2010	(7)		**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			11/16/2010	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

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Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						*5*	*5*	*2*	*5*	*70*	*5*	*100*	*NE*
WR-703A			2/22/2011	(7)		**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			5/17/2011	(7)		**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			8/16/2011	(7)		**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			11/21/2011	(7)		**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			3/22/2012	(7)		**0.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			5/21/2012	(7)		**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-703A			8/07/2012	(7)		**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-704A	25	25	9/22/2011			**12**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**5.8**
WR-704A		25	12/19/2012	(16)		**8.9**	**0.78**	<0.5	<1.0	<0.5	<5.0	<0.5	**4.5**
WR-704A		25	12/19/2012	(16)		**8.9**	**0.79**	<0.5	<1.0	<0.5	<5.0	<0.5	**4.6**
WR-704A		25	12/21/2012			**11.1**	**0.75**	<0.5	<1.0	<0.5	<5.0	<0.5	**4.9**
WR-704A		25	1/31/2013			**8.6**	<1	<1	<1	<1	<2	<1	**2.7**
WR-704A		25	2/26/2013	(16)		**7.2**	<1	<1	<1	<1	<2	<1	**3**
WR-704A		25	4/2/2013	(16)		**7.4**	<1	<1	<1	<1	<2	<1	**3.5**
WR-704A		25	4/25/2013	(16)		**7.6**	<1	<1	<1	<1	<2	<1	**3.2**
WR-704A		25	6/4/2013	(16)		**7.6**	<1	<1	<1	<1	<2	<1	**2.9**
WR-704A		25	6/4/2013	(16)		**8.3**	<1	<1	<1	<1	<2	<1	**3.8**
WR-704A		25	7/29/2013	(16)		**8.0**	**0.59**	<0.5	<1	<0.5	<5	<0.5	**4.1**
WR-704A		25	8/22/2013	(16)		**8.1**	**0.68**	<0.5	<1	<0.5	<5	<0.5	**4.7**
WR-704A		25	9/11/2013	(16)		**8.4**	**0.66**	<0.5	<1	<0.5	<5	<0.5	**4.4**
WR-704A		25	10/24/2013	(16)		**8.9**	**0.66**	<0.5	<1	<0.5	<5	<0.5	**4.2**
WR-704A		25	11/19/2013	(16)		**8.7**	**0.62**	<0.5	<1	<0.5	<5	<0.5	**3.8**
WR-704A		25	1/14/2014	(16)		**9.9**	**0.69**	<0.5	<1	<0.5	<5	<0.5	**3.9**
WR-704A		25	2/20/2014	(16)		**6.6**	<0.5	<0.5	<1	<0.5	<5	<0.5	**2.3**
WR-704A		25	3/18/2014	(16)		**6.0**	<0.5	<0.5	<1	<0.5	<5	<0.5	**3.8**
WR-704A		25	4/24/2014	(16)		**9.2**	**0.74**	<0.5	<1	<0.5	<5	<0.5	**6.8**
WR-704A		25	5/15/2014	(16)		**7.4**	**0.52**	<0.5	<1	<0.5	<5	<0.5	**4.5**
WR-704A		25	6/25/2014	(16)		**8.6**	<1	<1	<1	<1	<2	<1	**2.7**
WR-704A		25	6/25/2014	(16),(2)		**7.8**	<1	<1	<1	<1	<2	<1	**2.9**
WR-704A		25	7/28/2014	(16)	**X**	**6.5**	0.56	<0.5	<1	<0.5	<5	<0.5	**3.8**
WR-704A		25	7/28/2014	(16),(2)	**X**	**6.5**	0.55	<0.5	<1	<0.5	<5	<0.5	**4.3**
WR-704A		25	8/20/2014	(16)	**X**	**6.1**	0.6	<0.5	<1	<0.5	<5	<0.5	**3.3**
WR-704A		25	9/10/2014	(16)	**X**	**6.4**	0.6	<0.5	<1	<0.5	<5	<0.5	**4.4**
WR-704A	35	35	9/22/2011			**10**	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<4.0
WR-704A	Grab		2/10/2009	(7)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
WR-704A			5/20/2009	(7)		**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**
WR-704A			8/19/2009	(7)		**2.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**
WR-704A			8/19/2009	(2,7)		**2.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**
WR-704A			11/23/2009	(7)		**3.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.7**
WR-704A			2/18/2010	(7)		**5.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.3**
WR-704A			5/20/2010	(7)		**6.4**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.0**
WR-704A			8/18/2010	(7)		**7.4**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.1**
WR-704A			11/16/2010	(7)		**8.5**	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.3**
WR-704A			2/22/2011	(7)		**8.8**	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.7**
WR-704A			5/17/2011	(7)		**9.0**	**0.8**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.6**
WR-704A			8/16/2011	(7)		**9.1**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**5.4**
WR-704A			11/21/2011	(7)		**9.2**	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.4**
WR-704A			3/22/2012	(7)		**9.2**	**0.8**	<0.5	<0.5	<0.5	<0.5	<0.5	**6.9**
WR-704A			5/21/2012	(7)		**10.4**	**0.8**	<0.5	<0.5	<0.5	<0.5	<0.5	**5.0**
WR-704A			6/19/2012	(7)		**11.1**	**0.8**	<0.5	<0.5	<0.5	<0.5	<0.5	**9.0**
WR-704A			7/11/2012	(7)		**10.8**	**0.8**	<0.5	<0.5	<0.5	<0.5	<0.5	**6.4**
WR-704A			8/07/2012	(7)		**9.8**	**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.5**

Summary of Groundwater Quality Data, Selected VOCs
2001 through 3rd Quarter 2014
Broadway-Pantano WQARF Site

Sample ID	Sample Interval (FBW)	Sample Depth (FBW)	Sample Date	Foot Note Number	MRRP	PCE	TCE	VC	Bz	cis-1,2 DCE	MC	trans-1,2-DCE	DCDFMA
Aquifer Water Quality Standards						***5***	***5***	***2***	***5***	***70***	***5***	***100***	***NE***

Notes:
FBW = Feet below water
MRRP = Most Recent Reporting Period (January - March 31, 2013)
µg/L = Micrograms per liter
NE = Not established
WH = Well head
NA = Not analyzed
NS = Not sampled
BTOC = "feet" below top of casing
(1) = Sample collected prior to purging
(2) = Duplicate sample
(3) = Sample collected from sounding tube while well was pumping
(4) = Sample was analyzed according to EPA Method 524.2 instead of EPA Method 8260B
(5) = Estimated concentration. Sample analyzed for nitrate-nitrite content and results reported as nitrate based on historical data.
(6) = See laboratory report for analytical method
(7) = Samples collected by the City of Tucson; samples analyzed using EPA Method 524.2
(8) = Not sampled due to Western Containment System shut down
(9) = Actual sample depth was 14 feet below top of water column; water column was less than 25 feet deep
(10) = Actual sample depth was 45 feet below top of water column; water column was less than 50 feet deep
(11) = Special purge sample. Other VOCs detected were gasoline indicator chemicals ethylbenzene, total xylenes, and 1,2,4-trimethylbenzene at concentrations ranging from 1.3 to 7.0 µg/L.
(12) = The VOC 1,1-dichloroethane was also reported at 1.8 µg/L
(13) = Last sample collected by URS before C-026B pump shut down on 8/17/2007
(14) = Sample collected by URS after 3 minute purge at 200 gallons per minute
(15) = Sample collected by URS after 19 minute purge at 400 gallons per minute
(16) = Sample collected from a PDB
(17) = Sample collected from a HydraSleeve™.
***Shaded/Bold Font** = concentrations exceed Arizona Department of Environmental Quality Aquifer Water Quality Standards.*
***Bold Font** = concentration above laboratory reporting limit*
Duplicate samples were identified in the December 2003 GWS event: Duplicate 1 - C056A-120303-50, Duplicate 2 - WR177A-120203-5, Duplicate 3 - WR181-120103-5, Duplicate 4 - SJ002-120203-23, Duplicate 5 - 416P-120303

PCE = tetrachloroethene
TCE = Trichloroethene
VC = Vinyl Chloride
Bz = Benzene
Cis-1,2-DCE = cis-1,2-dichloroethene
MC = methylene chloride
trans-1,2-DCE = Trans-1,2-Dichloroethene
DCDFMA = dichlorodifluoromethane

All samples were analyzed by EPA 8260B unless noted otherwise.

APPENDIX C
Data Verification Summary, Field Sampling Sheets and Laboratory Reports

Data Verification Report for the 1st Quarter 2014 Sample Results, Broadway - Pantano WQARF Site

Laboratories & Work Orders: Accutest Laboratories: C35259, C35611, C35612, C35923, C36172
Tucson Water Quality Lab (TWQL): L30233

Samples Analyzed: 30 field samples and 6 trip blanks

Review Criteria	Meets Criteria		Comments (followed by Lab work order)	Action
Chain-of-Custody		No	C36172 (C26-100): 2 vials were broken during transit.	Reviewed packing procedures with Accutest. Email from Accutest dated 10/13/2014 included in Appendix C.
Trip Blank	Yes			
Equipment Blank			Not applicable, none collected.	
Field Duplicate		No	**C35259 -1 & -2:** (WR-704A): max RPD of 12.3%. **C35611-3 & -4:** (WR-179): results non-detect, all RPDs equal 0%.	
Temperature	Yes			
Preservation	Yes			
Surrogate Recovery	Yes			
*** 1,2-dichlorobenzene-D4**	Yes			
*** Bromofluorobenzene**	Yes			
*** Dibromofluoromethane**	Yes			
*** Toluene-D8**		No	C35612: Batch VQ981: Low recovery (32%, 50%, 51%) in the MS/MSD.	The MS/MSD sample was from a different client and project; all sample surrogate recoveries for this site met site QAPP standards. No further action necessary. Email from Accutest dated 10/13/2014 included in Appendix C.
*** 4-Bromofluorobenzene**	Yes			
Method Blank (MB)	Yes			
Matrix Spike/Duplicate (MS/MSD)		No	C35259: Batch VQ958: Carbon disulfide % rec fell below 70% in the MSD.	Not a chemical of concern; no further action necessary.
		No	C35611: Batch VU850: 2-hexanone %rec fell above 130% in the MS.	Not a chemical of concern; no further action necessary.
		No	C35612: Batch VR1060: acetone % RPD fell above 20%. Dichlorodifluoromethane % rec fell above 130% in the MS.	Neither are chemicals of concern; no further action necessary.
		No	C35612: Batch VQ981: 21 compounds % rec fell out of the 70% - 130% required range, and 1 compound % RPD fell above 20%.	None are chemicals of concern, the sample spiked was not from the same project or client, no further action necessary.
		No	C35612: Batch VR1062: 3 compounds % rec fell below 70%.	None are chemicals of concern; no further action necessary.
		No	C35923: Batch VU874: carbon disulfide % rec fell below 70% for both MS/MSD.	Not a chemical of concern; no further action necessary.
		No	C36172: Batch VV827: six compounds % rec fell out of the 70% - 130% recovery range requirement, four of these same compounds % RPD exceeded 20%.	None are chemicals of concern; no further action necessary.
		No	C36172: Batch VU890: carbon disulfide % rec fell below 70% in MSD.	Not a chemical of concern; no further action necessary.

Data Verification Report for the 1st Quarter 2014 Sample Results, Broadway - Pantano WQARF Site

Laboratories & Work Orders: Accutest Laboratories: C35259, C35611, C35612, C35923, C36172
Tucson Water Quality Lab (TWQL): L30233

Samples Analyzed: 30 field samples and 6 trip blanks

Review Criteria	Meets Criteria		Comments (followed by Lab work order)	Action
		No	C36172: Batch VU893: styrene and 1,2,3 trichloropropane fell below 70% in MS and MSD.	Neither are chemical of concern; no further action is necessary.
		No	C36172: Batch VU901: carbon disulfide % rec fell below 70% in MS and MSD.	Not a chemical of concern; no further action necessary.
Blank Spike/Duplicate (LC/LCD)		No	C35611: Batch VU850: 2-hexanone and trichlorofluoromethane % rec fell above 130% in the BSD (LCD).	Neither are chemicals of concern; no further action necessary.
		No	C35612: Batch VQ981: dichlorodifluoromethane % rec fell above 130% in BSP (LC).	Not a chemical of concern; no further action necessary.
		No	C35923: Batch VU874: carbon disulfide % rec fell below 70% for both BS/BSD. Dichlorodifluoromethane % RPD fell above 20%.	Neither are chemicals of concern; no further action necessary.
		No	C36172: Batch VV827: carbon disulfide and dichlorodifluoromethane fell below 70% in the BSD (LCD)	Neither are chemicals of concern; no further action is necessary.
		No	C36172: Batch VU890: dichlorodifluoromethane % rec fell below 70% in BSD (LCD), and % RPD fell above 20%.	Not a chemical of concern; no further action necessary.
		No	C36172: Batch VU893: dichlorodifluoromethane % rec fell below 70% in BSD (LCD).	Not a chemical of concern; no further action necessary.
		No	C36172: Batch VU901: carbon disulfide % rec fell below 70% in BSD (LCD).	Not a chemical of concern; no further action necessary.
Continuing Calibration Verifications		No	C35611: dichlorodifluoromethane, methyl chloride CCV outside of control limits (biased high) for all samples.	Dichlorodifluoromethane and methyl chloride are not a chemicals of concerns; no further action is necessary.
		No	C35612: dichlorodifluoromethane CCV outside of control limits (biased high); not detected in samples -2, -3, -4, -5, -9.	Dichlorodifluoromethane is not a chemical of concern; no further action is necessary.
		No	C35923: dichlorodifluoromethane and methyl bromide CCV outside of control limits (biased high); not detected in sample -2.	Neither are chemicals of concern; no further action is necessary.
		No	C36172: acetone, methyl chloride CCV outside of control limits (biased high); not detected in samples -1, -4, -5, -6,-7, -8.	Neither are chemicals of concern; no further action is necessary.

Note: Laboratory Method 524.2 is not a covered method under the site QAPP dated September 12, 2011. Data reported by this method appears to be accurate and precise.

Duplicate Comparison
Broadway-Pantano WQARF Site
3rd Quarter 2014

Login	Date	Well_ID	Parameter	Prefix	Result		Login	Date	Well_ID	Parameter	Prefix	Result	RPD %
C35259-1	7/28/2014 7:40	WR-704A	1,1,1,2-Tetrachloroethane	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	1,1,1,2-Tetrachloroethane	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,1,1-Trichloroethane	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	1,1,1-Trichloroethane	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,1,2,2-Tetrachloroethane	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	1,1,2,2-Tetrachloroethane	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,1,2-Trichloroethane	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	1,1,2-Trichloroethane	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,1-Dichloroethane	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	1,1-Dichloroethane	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,1-Dichloroethylene	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	1,1-Dichloroethylene	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,1-Dichloropropene	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	1,1-Dichloropropene	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,2,3-Trichlorobenzene	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	1,2,3-Trichlorobenzene	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,2,3-Trichloropropane	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	1,2,3-Trichloropropane	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,2,4-Trichlorobenzene	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	1,2,4-Trichlorobenzene	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,2,4-Trimethylbenzene	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	1,2,4-Trimethylbenzene	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,2-Dibromo-3-chloropropane	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	1,2-Dibromo-3-chloropropane	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,2-Dibromoethane	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	1,2-Dibromoethane	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,2-Dichloroethane	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	1,2-Dichloroethane	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,2-Dichloropropane	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	1,2-Dichloropropane	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,3,5-Trimethylbenzene	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	1,3,5-Trimethylbenzene	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	1,3-Dichloropropane	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	1,3-Dichloropropane	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	2,2-Dichloropropane	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	2,2-Dichloropropane	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	2-Hexanone	<	0.01		C35259-2	7/28/2014 7:45	WR-704A	2-Hexanone	<	0.01	0.0%
C35259-1	7/28/2014 7:40	WR-704A	4-Methyl-2-pentanone	<	0.01		C35259-2	7/28/2014 7:45	WR-704A	4-Methyl-2-pentanone	<	0.01	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Acetone	<	0.02		C35259-2	7/28/2014 7:45	WR-704A	Acetone	<	0.02	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Benzene	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	Benzene	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Bromobenzene	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	Bromobenzene	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Bromochloromethane	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	Bromochloromethane	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Bromodichloromethane	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	Bromodichloromethane	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Bromoform	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	Bromoform	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Carbon disulfide	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	Carbon disulfide	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Carbon tetrachloride	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	Carbon tetrachloride	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Chlorobenzene	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	Chlorobenzene	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Chloroethane	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	Chloroethane	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Chloroform	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	Chloroform	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	cis-1,2-Dichloroethylene	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	cis-1,2-Dichloroethylene	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	cis-1,3-Dichloropropene	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	cis-1,3-Dichloropropene	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Dibromochloromethane	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	Dibromochloromethane	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Dichlorodifluoromethane		0.0038		C35259-2	7/28/2014 7:45	WR-704A	Dichlorodifluoromethane		0.0043	12.3%
C35259-1	7/28/2014 7:40	WR-704A	Ethylbenzene	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	Ethylbenzene	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Hexachlorobutadiene	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	Hexachlorobutadiene	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Isopropylbenzene	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	Isopropylbenzene	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	m-Dichlorobenzene	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	m-Dichlorobenzene	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Methyl bromide	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	Methyl bromide	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Methyl chloride	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	Methyl chloride	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Methyl ethyl ketone	<	0.01		C35259-2	7/28/2014 7:45	WR-704A	Methyl ethyl ketone	<	0.01	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Methyl Tert Butyl Ether	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	Methyl Tert Butyl Ether	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Methylene bromide	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	Methylene bromide	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Methylene chloride	<	0.005		C35259-2	7/28/2014 7:45	WR-704A	Methylene chloride	<	0.005	0.0%

Duplicate Comparison
Broadway-Pantano WQARF Site
3rd Quarter 2014

Login	Date	Well_ID	Parameter	Prefix	Result		Login	Date	Well_ID	Parameter	Prefix	Result	RPD %
C35259-1	7/28/2014 7:40	WR-704A	Naphthalene	<	0.005		C35259-2	7/28/2014 7:45	WR-704A	Naphthalene	<	0.005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	n-Butylbenzene	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	n-Butylbenzene	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	n-Propylbenzene	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	n-Propylbenzene	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	o-Chlorotoluene	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	o-Chlorotoluene	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	o-Dichlorobenzene	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	o-Dichlorobenzene	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	p-Chlorotoluene	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	p-Chlorotoluene	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	p-Dichlorobenzene	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	p-Dichlorobenzene	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	p-Isopropyltoluene	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	p-Isopropyltoluene	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	sec-Butylbenzene	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	sec-Butylbenzene	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Styrene	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	Styrene	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	tert-Butylbenzene	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	tert-Butylbenzene	<	0.002	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Tetrachloroethylene		0.0065		C35259-2	7/28/2014 7:45	WR-704A	Tetrachloroethylene		0.0065	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Toluene	<	0.001		C35259-2	7/28/2014 7:45	WR-704A	Toluene	<	0.001	0.0%
C35259-1	7/28/2014 7:40	WR-704A	trans-1,2-Dichloroethylene	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	trans-1,2-Dichloroethylene	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	trans-1,3-Dichloropropene	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	trans-1,3-Dichloropropene	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Trichloroethylene		0.0006		C35259-2	7/28/2014 7:45	WR-704A	Trichloroethylene		0.00055	1.8%
C35259-1	7/28/2014 7:40	WR-704A	Trichlorofluoromethane		0.0005		C35259-2	7/28/2014 7:45	WR-704A	Trichlorofluoromethane		0.0006	10.5%
C35259-1	7/28/2014 7:40	WR-704A	Vinyl chloride	<	0.0005		C35259-2	7/28/2014 7:45	WR-704A	Vinyl chloride	<	0.0005	0.0%
C35259-1	7/28/2014 7:40	WR-704A	Xylene (total)	<	0.002		C35259-2	7/28/2014 7:45	WR-704A	Xylene (total)	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,1,1,2-Tetrachloroethane	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	1,1,1,2-Tetrachloroethane	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,1,1-Trichloroethane	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	1,1,1-Trichloroethane	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,1,2,2-Tetrachloroethane	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	1,1,2,2-Tetrachloroethane	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,1,2-Trichloroethane	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	1,1,2-Trichloroethane	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,1-Dichloroethane	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	1,1-Dichloroethane	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,1-Dichloroethylene	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	1,1-Dichloroethylene	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,1-Dichloropropene	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	1,1-Dichloropropene	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,2,3-Trichlorobenzene	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	1,2,3-Trichlorobenzene	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,2,3-Trichloropropane	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	1,2,3-Trichloropropane	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,2,4-Trichlorobenzene	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	1,2,4-Trichlorobenzene	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,2,4-Trimethylbenzene	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	1,2,4-Trimethylbenzene	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,2-Dibromo-3-chloropropane	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	1,2-Dibromo-3-chloropropane	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,2-Dibromoethane	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	1,2-Dibromoethane	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,2-Dichloroethane	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	1,2-Dichloroethane	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,2-Dichloropropane	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	1,2-Dichloropropane	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,3,5-Trimethylbenzene	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	1,3,5-Trimethylbenzene	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	1,3-Dichloropropane	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	1,3-Dichloropropane	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	2,2-Dichloropropane	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	2,2-Dichloropropane	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	2-Hexanone	<	0.01		C35611-4	8/20/2014 9:48	WR-179A	2-Hexanone	<	0.01	0.0%
C35611-3	8/20/2014 9:45	WR-179A	4-Methyl-2-pentanone	<	0.01		C35611-4	8/20/2014 9:48	WR-179A	4-Methyl-2-pentanone	<	0.01	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Acetone	<	0.02		C35611-4	8/20/2014 9:48	WR-179A	Acetone	<	0.02	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Benzene	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	Benzene	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Bromobenzene	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	Bromobenzene	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Bromochloromethane	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	Bromochloromethane	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Bromodichloromethane	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	Bromodichloromethane	<	0.0005	0.0%

Duplicate Comparison
Broadway-Pantano WQARF Site
3rd Quarter 2014

Login	Date	Well_ID	Parameter	Prefix	Result		Login	Date	Well_ID	Parameter	Prefix	Result	RPD %
C35611-3	8/20/2014 9:45	WR-179A	Bromoform	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	Bromoform	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Carbon disulfide	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	Carbon disulfide	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Carbon tetrachloride	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	Carbon tetrachloride	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Chlorobenzene	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	Chlorobenzene	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Chloroethane	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	Chloroethane	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Chloroform	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	Chloroform	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	cis-1,2-Dichloroethylene	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	cis-1,2-Dichloroethylene	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	cis-1,3-Dichloropropene	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	cis-1,3-Dichloropropene	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Dibromochloromethane	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	Dibromochloromethane	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Dichlorodifluoromethane	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	Dichlorodifluoromethane	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Ethylbenzene	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	Ethylbenzene	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Hexachlorobutadiene	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	Hexachlorobutadiene	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Isopropylbenzene	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	Isopropylbenzene	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	m-Dichlorobenzene	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	m-Dichlorobenzene	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Methyl bromide	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	Methyl bromide	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Methyl chloride	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	Methyl chloride	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Methyl ethyl ketone	<	0.01		C35611-4	8/20/2014 9:48	WR-179A	Methyl ethyl ketone	<	0.01	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Methyl Tert Butyl Ether	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	Methyl Tert Butyl Ether	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Methylene bromide	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	Methylene bromide	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Methylene chloride	<	0.005		C35611-4	8/20/2014 9:48	WR-179A	Methylene chloride	<	0.005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Naphthalene	<	0.005		C35611-4	8/20/2014 9:48	WR-179A	Naphthalene	<	0.005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	n-Butylbenzene	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	n-Butylbenzene	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	n-Propylbenzene	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	n-Propylbenzene	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	o-Chlorotoluene	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	o-Chlorotoluene	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	o-Dichlorobenzene	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	o-Dichlorobenzene	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	p-Chlorotoluene	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	p-Chlorotoluene	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	p-Dichlorobenzene	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	p-Dichlorobenzene	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	p-Isopropyltoluene	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	p-Isopropyltoluene	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	sec-Butylbenzene	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	sec-Butylbenzene	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Styrene	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	Styrene	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	tert-Butylbenzene	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	tert-Butylbenzene	<	0.002	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Tetrachloroethylene	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	Tetrachloroethylene	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Toluene	<	0.001		C35611-4	8/20/2014 9:48	WR-179A	Toluene	<	0.001	0.0%
C35611-3	8/20/2014 9:45	WR-179A	trans-1,2-Dichloroethylene	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	trans-1,2-Dichloroethylene	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	trans-1,3-Dichloropropene	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	trans-1,3-Dichloropropene	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Trichloroethylene	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	Trichloroethylene	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Trichlorofluoromethane	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	Trichlorofluoromethane	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Vinyl chloride	<	0.0005		C35611-4	8/20/2014 9:48	WR-179A	Vinyl chloride	<	0.0005	0.0%
C35611-3	8/20/2014 9:45	WR-179A	Xylene (total)	<	0.002		C35611-4	8/20/2014 9:48	WR-179A	Xylene (total)	<	0.002	0.0%

Notes:
RPD % = Relative Percent Difference

From: James Rhudy <jamesr@accutest.com>
To: 'Lori Ehman' <Lori.Ehman@tucsonaz.gov>, Beth Proffitt <bethp@accutest.co...
CC: Richard Byrd <Richard.Byrd@tucsonaz.gov>, Elvin Kumar <elvink@accutest.c...
Date: 10/10/2014 5:15 PM
Subject: RE: Sample Switching at the Lab
Attachments: CA WGCMS_10_8_2014.pdf

Good Afternoon Ms Ehman,

After thoughtful investigation we determined that the 1,1,1-TCA and TCE false positive results reported for Accutest job number C36172 were a result of carry-over from a previous run and not a result of sample swapping. The investigation has been documented in corrective action WGCMS_10_8_2014_517 and has been attached for your review. We believe that the corrective action will be effective in resolving this issue moving forward and we greatly apologize for the inconvenience it has caused you. I also understand your concerns on sample swapping and we have since put in additional check systems to ensure sample integrity and that system has so far been effective. Errors are a part of human nature that although we try to have redundant review systems and oversight things still get through the cracks. A single error during a year is bad enough, let alone three, but with your patience we can better our systems and prevent these types of error in the future. We greatly value your business and I hope we can work through these issues to your complete satisfaction. Please let me know if there is anything else you would like for us to do and do not hesitate to contact me if you have any additional concerns you would like for us to address.

Thank you,

James Rhudy | Laboratory Director

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Office (408) 588-0200, ext 3505 | Cell (303) 358-4367
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The survey can be found at the following link:
https://www.surveymonkey.com/s/Accutest

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-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Tuesday, October 07, 2014 4:36 PM
To: Beth Proffitt
Cc: James Rhudy; Richard Byrd
Subject: Sample Switching at the Lab

Hi Beth,

As discussed with you on the phone, Richard and I have concerns that Accutest does not have good quality control for tracking samples and samples are being swapped at the lab.

The following are examples:

C35732: Accutest confirmed the two samples for this event were swapped.

C36172: sample results for #1 absolutely did not come from this site or from this well. Sent email to Elvin today to resolve (email attached).

C32531: Samples #7 and #8 collected in February 2014 appeared to have been swapped based on historic concentration trends. Accutest checked, but did not find that they had been swapped. These wells returned to historic concentrations trends following the next quarterly event.

Can you (or someone) review the laboratory's procedures and ability to track samples, and report back to us regarding our concerns? This will help restore confidence in your lab. We will be watching future sample results closely, and may take further steps if samples do not appear correct.

Thank you and I look forward to hearing from you on this matter in less than a month.

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

Corrective Action Summary Form

Date: 10/8/2014 5:27:59 PM **Tracking No:** WGCMS_10_8_2014_517

CA Title: False positive hits reported for C36172-1

Department: GCMS **Originator:** James Rhudy

Responsible Party: Thuy Nguyen **Date Completed:** 10/10/2014

Description:

Client contacted the lab indicating that their sample results did not correlate with historical levels on site.
No Chlorinated compounds are on this site.

Root Cause:

The original data for C36172-1 was ran in batch VV827 which had hits for 1,1,1-Trichloroethane and Trichloroethene at 10X dilution. Upon request, the sample was re-run at 5X dilution (last day of hold time). The 5X was used because the analyst assumed the first run was correct. The hits were not confirmed. The sample was again run at a 1X dilution (one day out of hold time) with still no hits. Althought this 1X run had headspace and hold time exceedance, it still indicates the previously reported chlorinated compounds were a false positive.

Immediate Fix:

Re-analysis of the sample was immediately performed and reports were re-issued.
The carryover issue was discussed with the analyst.

Corrective Action:

Our SOP # QA042 - Review of Organic Data will be revised to include the following.
1. When a parameter exceeds it's calibration range, not only is that sample reanalyzed, but the following sample must be rerun if the there is a corresponding hit above the MDL.
2. When a batch is reviewed in LIMS, the sample following the sample with an "E" qualifier will be checked for corresponding hits above the MDL. This check will be noted in the sample with the "E" by including the Job# of the following sample in the Comments.

Comments:

From: Elvin Kumar <elvink@accutest.com>
To: 'Lori Ehman' <Lori.Ehman@tucsonaz.gov>
Date: 10/13/2014 2:31 PM
Subject: RE: ADEQ policy
Attachments: ADEQ Policy 0154.pdf

Hi Lori,
Beth forwarded me this policy.
MS/MSD ONLY applies to the sample on which it was spiked, In this case it is not the project sample. Both the MS and MSD and the original sample had low 32, 50-51% recovery of the Toluene surrogate in this MS/MSD. All the other surrogates worked. The second MS/MSD on another client's sample worked and the BS/BSDs worked as well.

Policy 0154 as per attached explains the ADEQ requirements on how to report matrix effect problems.
I hope this [partially answers the question to this and the other email regarding SDG C35612

Thanks,

Elvin Kumar
Accutest Laboratories
Office | (408) 588-0200, ext 3515 | Cell (408) 612-9410

-----Original Message-----
From: Elvin Kumar
Sent: Monday, October 13, 2014 1:52 PM
To: 'Lori Ehman'
Subject: RE: ADEQ policy

I have asked my Laboratory Director and Data Validation Specialist regarding this.
Will let you know as soon as I find out.
Sorry, I'm still learning Arizona requirements

Thanks,

Elvin Kumar
Accutest Laboratories
Office | (408) 588-0200, ext 3515 | Cell (408) 612-9410

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Monday, October 13, 2014 1:30 PM
To: Elvin Kumar
Subject: RE: ADEQ policy

C35612, it's part of narrative for the S12 data qualifier.

>>> Elvin Kumar <elvink@accutest.com> 10/13/2014 1:27 PM >>>
Hi Lori,
Do you have a Lab Report/SDG#? I have not heard of this before so I'll ask someone

Thanks,

Elvin Kumar
Accutest Laboratories
Office | (408) 588-0200, ext 3515 | Cell (408) 612-9410

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Monday, October 13, 2014 1:24 PM
To: Elvin Kumar
Subject: ADEQ policy

Hi Elvin,

What is ADEQ policy 0154.00? It's mentioned in a lab report.

Thanks.

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

0154.000 ADDRESSING SPIKE AND SURROGATE RECOVERY AS THEY RELATE TO MATRIX EFFECTS IN WATER, AIR, SLUDGE AND SOIL MATRICES POLICY

Level One **Arizona Department of Environmental Quality**

Originator: Kenyon C. Carlson, Manager
Quality Assurance/Quality Control (QA\QC) Unit

Contact For Information Kenyon C. Carlson, Manager
Quality Assurance/Quality Control (QA\QC) Unit

Issue Date: October 23, 1998

PURPOSE

The Arizona Department of Health Services (ADHS) has not established a comprehensive policyon the issue of matrix spike or surrogate recoveries becausethey do not have the authority to establish criteria by which ADEQ will either accept or reject data.

This policy will assure that all data submitted to ADEQ meets regulatory requirements and are legally defensible by establishing alternative criteria for when the established method recovery acceptance criteria for matrix spikes and/or surrogates are exceeded.

ADEQ is concerned with the assumption that if spike and/or surrogate recoveries exceed method acceptance criteria and that if those results can be duplicated without re-extracting the sample, the failure of that quality control criteria is a result of matrix effects. Duplication of out-of-range results can be the result of influences other than matrix effects and could be indicative of the method or instrument being out-of-control.

The ADEQ QA/QC Unit believes a more accurate and reliable assessment of possible matrix effects can be established using either a (1) dilution technique, (2) the method of standard additions, or (3) analyzing alaboratory fortified blank (LFB) or a laboratory control sample (LCS). Because ADEQ is a regulatory agency, compliance resultsmust be able to meet all legal constraints and uphold all analytical method requirements.

AUTHORITY

A.A.C. R18-4-106 and R9-14-608.

DEFINITIONS

Data: For the purposes of this policy, data is defined as 'raw data' (examples include but are not limited to calibration curves, chromatograms, spectras, sample preparation and injection logs etc.) and does not include laboratory reports. (Contact the QA unit for further information.)

Laboratory Fortified Blank (LFB): (aka blank spike) An aliquot of organic free reagent water to which known quantities of the method analytes are added in the laboratory. The LFB is analyzed exactly like a sample, and its purpose is to determine whether the methodology (analytical process) is in control, and whether the laboratory is capable of making accurate and precise measurements at the required method detection limit.

Laboratory Fortified Blank Duplicate (LFBD): (aka blank spike duplicate) A duplicate sample of the aliquot of reagent water to which known quantities of the method analytes are added in the laboratory. The LFBD is analyzed exactly like a sample, and its purpose is to determine whether the methodology (analytical process) is in control, and whether the laboratory is capable of making accurate and precise measurements at the required method detection limit.

Laboratory Control Sample (LCS): A sample of clean dirt or sand to which known quantities of the method analytes are added in the laboratory. The LCS is extracted and analyzed exactly like a sample, and its purpose is to determine whether the methodology (sample preparation and analytical process) is in control, and whether the laboratory is capable of making accurate and precise measurements at the required method detection limit.

Laboratory Control Sample Duplicate (LCSD): A duplicate sample of clean dirt or sand to which known quantities of the method analytes are added in the laboratory. The LCSD is extracted and analyzed exactly like a sample, and its purpose is to determine whether the methodology (sample preparation and analytical process) is in control, and whether the laboratory is capable of making accurate and precise measurements at the required method

detection limit.

Laboratory Fortified SampleMatrix (LFM): (aka matrix spike) An aliquot of an environmental sample to which known quantities of the method analytes are added in the laboratory. The LFM is analyzed exactly like a sample, and its purpose is to determine whether the sample matrix contributes bias to the analytical results and therefore determines to what degree the method is successful in analyzing the target analytes. The background concentrations of the analytes in the sample matrix must be determined in a separate aliquot and the measured values in the LFM corrected for background concentrations.

Laboratory Fortified Sample Matrix Duplicate (LFMD):(aka matrix spike duplicate) A duplicate sample of the aliquot of an environmental sample to which known quantities of the method analytes are added in the laboratory. The LFMD is analyzed exactly like a sample, andits purpose is to determine whether the sample matrix contributes bias to the analytical results and therefore determinesto what degree the method is successful in analyzing the target analytes. The background concentrations of the analytes in the sample matrix must be determined in a separate aliquot and the measured values in the LFMD corrected for background concentrations.

Matrix: The predominant material, component or substrate which contains the analyte of interest. Matrix is not necessarily synonymous with phase (liquid or solid).

Matrix Interference: Also referred to as matrix effects. Matrix spike interference are those chemical and/or physical interferences that impede the analytical instrumentation in detecting the true value concentration of a target analyte within a sample. One possible source of matrix interferences may be caused by contaminantsthat are co-extracted from the sample and result in a positiveor negative bias. The extent of matrix interferences will vary considerably from source to source, depending upon the nature and diversity of the sample matrix.

Method of Standard Additions:A technique used most commonly in metals analysis by atomic absorption; however, it can be applied in many areas of the laboratory. It serves to correct for matrix effects in the sample. Aliquots of a sample are spiked with at least three different concentrations of a standard.

Surrogate: A pure analyte, which is extremely unlikely to be

found in any sample, and which is added to a sample aliquot in known amounts before extraction and is measured with the same procedures used tomeasure other sample components. A surrogate behaves similarly to the target analyte and its use is most often used with organic analytical procedures. The purpose of a surrogate analyte is to monitor method performance with each sample.

POLICY

ADEQ will not accept test results for regulatory purposes when the LFM and/or surrogate recovery exceed the acceptance criteria unless the laboratory has demonstrated that the sample itself is responsible for theQC results exceeding the methods acceptance criteria.

RESPONSIBILITY

The ***ADEQ Program staff*** will be responsible for reviewing the final report or the quality control summary sheets which accompany the final results of the laboratory analysis to verify that matrix spikes and/or surrogate recoveries were within the acceptance criteria. If the program staff are uncertain as to how to evaluate the final report, or if required information is missing, it shall be the responsibility of the program staff to forward the information to the ADEQ QA/QC Unit for review and recommendations.

The ***ADEQ QA/QC Unit*** will review data referredby program staff to ensure that the procedures outlined inAttachment A of this policy were followed by the laboratory and to report their findings to the appropriate ADEQ program staff.

APPLICABILITY

This policy is applicable to all types of water, air, sludge, and soil matrices regardless of the method of analysis.

PROCEDURES

The ***ADEQ program staff*** shall review the final report or the quality control (QC) summarysheet which accompanies the final

report. ADEQ program staff shall assess the results of the LFM and LFMB on the QC Summary sheet to determine if the recoveries are within the acceptance range. If the LFM or LFMB results exceed the established recovery criteria, ADEQ program staff will assess the recovery criteria for those out of range analytes in either the LFB/LFBD or LCS/LCSD. If the required information is not included with the final report or program staff are uncertain as how to evaluate the final report, they shall notify the QA/QC Unit so the QA/QC staff can perform a more thorough evaluation of the results.

The ***ADEQ QA/QC staff***, if necessary, shall request a laboratory data package to review the raw data, determine the validity of the results and compliance with the ADEQ data reporting policy. The QA/QC Unit shall also submit in writing, to the program staff, the data validation findings and the ADEQ QA/QC Unit's recommendations.

ATTACHMENT A

LABORATORY PROCEDURES

The ADEQ policy for addressing spike and surrogate recovery as they relate to matrix effects in water, air, sludge and soil matrices suggests three different techniques (analysis of an LFB/LFBD or LCS/LCSD pair, dilution procedure, or the standard additions technique) which may adequately explain the out-of-range QC results of samples. These three techniques do not represent an all inclusive list for demonstrating matrix effects within a sample and laboratories may have alternate and valid techniques to demonstratematrix interference. These alternate techniques should be discussed with and approved by the ADEQ QA Unit prior to analysis to avoid the rejection of data.

ADEQ also requires the analyses of either an LFB/LFBD, LCS/LCSD or LFM/LFMD pair to satisfy the precision requirements for drinking water methods. More useful information can be obtained regarding precision when comparing samples containing target analytes. Very little usefulprecision information is obtained when comparing the instrument precision using two samples that are non detect. Whenever included in the analytical batch the laboratory must report the results of the LFB/LFBD or LCS/LCSD in addition to the LFM/LFMD to ADEQ and shall include the numerical values established by the laboratory for the QC acceptance criteria whenever the method has not provided any.

While the method would require a re-extraction of that sample, to confirm matrix interference, if the LFM and/or the LFMB fall outside the method's acceptance criteria, ADEQ will accept the results of the LFB/LFBD or LCS/LCSD which demonstrate that the analytical process is in control. The LFB/LFBD and LCS/LCSD provide an interference free matrix such that if the surrogates and/or matrix spike analytes are within the method's acceptance criteria, then there is compelling data that an instrument is operating properly, the extraction procedure provided no bias, and the method is in control. The LFB/LFBD must be analyzed with the same batch as the LFM/LFMD for ADEQ to accept the LFB/LFBD results. The LCS/LCSD samples must be extracted and analyzed with the same batch as the LFM/LFMD samples for ADEQ to accept the results of the LCS/LCSD samples. The laboratory shall include the numerical values established by the laboratory for the QC acceptance criteria whenever the method has not provided any.

Another option is the dilution technique. The dilution technique is particularly well suited for demonstrating matrix effects in the LFM samples for analyses that don't require extraction procedures. Laboratories performing analytical work for ADEQ that suspect matrix interference in LFM samples may dilute that sample such that all suspected matrix effects are diluted out as well prior to spiking. Once the matrix effects have been diluted out, recovery of the matrix spikes and surrogates should fall within the acceptable recovery criteria established by the method, or the lab if none are given in the method. The dilution of samples suspected of having matrix interference such that interference is no longer a factor strongly suggests that there may have been matrix effectsin the sample and the recovery of the spiked analytes within the acceptance range demonstrates the instrumentation and method are in control. ADEQ will accept use of the dilution technique to demonstrate matrix effects in LFM and LFMD samples because notevery sample is matrix spiked and it cannot be assumed that the matrix effects observed in one sample are representative of the entire sample batch.

Because the dilution technique raises the reporting level of an analyte, it may not be a suitable technique to demonstrate matrix interference if the resulting reporting level exceeds the regulatory (trigger) or action level. The method of standard additions would be a preferred technique to help correct for positive or negative bias in the samples because this technique is unlikely to raise the reporting level of regulated contaminants that may be present in the sample. The method of standard additions usually employs aliquots of a digested or extracted sample which are spiked with at least three different concentrations of astandard. The standard additions are chosen to bracket the unknown sample concentration and the response of the instrument must be linear.

Those samples whose matrix spikes or surrogate recoveries continue to fall outside the acceptance criteria after any of the above three techniques, or an alternate method pre-approved by the ADEQ QA Unit have been employed, shall be reviewed by ADEQ on a case-by-case basis. Any results reported which are affected by matrix interference shall be flagged as an estimated quantitation.

From: Beth Proffitt <bethp@accutest.com>
To: 'Lori Ehman' <Lori.Ehman@tucsonaz.gov>
Date: 10/13/2014 10:26 AM
Subject: RE: RE: Accutest Invoice CX-28736: COT: Broadway & Pantano

We usually re-pack VOAs (in their tiny bubble bag group of 3) in a ziplock bag and then put it in a larger bubble bag (that holds a 1-liter bottle). I'll make sure Yuko is doing that too.

7 sets of 3 VOAS make a nice "brick" that fits in the ziplock and then in the bigger bubble bag.

Beth Proffitt
Accutest Laboratories
Cell (602) 501-5673

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Monday, October 13, 2014 10:13 AM
To: Beth Proffitt
Subject: RE: RE: Accutest Invoice CX-28736: COT: Broadway & Pantano

Maybe it has nothing to do with packaging and is because the Fedex people were extra ruff with the cooler. Maybe the coolers should be marked 'Fragile' if they aren't already - if this happens again..?

>>> Beth Proffitt <bethp@accutest.com> 10/13/2014 10:09 AM >>>
I'll reinforce her re-packing. That is the first item I have heard of breaking!

Beth Proffitt
Accutest Laboratories
Cell (602) 501-5673

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Monday, October 13, 2014 10:06 AM
To: Beth Proffitt
Subject: Fwd: RE: Accutest Invoice CX-28736: COT: Broadway & Pantano

Hi Beth,

For this work order, C36172, two of the vials were delivered to the lab broken. I've requested Marc of Verdad to check his packaging, and since they are repackaged by Yuko, could you request the same with her?

Thank you.

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

>>> Marc Taylor <marc@verdadgroupllc.com> 10/13/2014 10:00 AM >>>
All of the vials where in bubble wrap when I met with Yuko, I know that she does repackage for shipping. I will try to package them more carefully this go around.

Marc Taylor
Verdad Group LLC

Cell (520)222-2899

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Monday, October 13, 2014 9:38 AM
To: Marc Taylor
Subject: Fwd: Accutest Invoice CX-28736: COT: Broadway & Pantano

Hi Marc,

In this last event 2 vials were broken when they were delivered to the lab.
Please make sure to use the bubble wrap - just in case you hadn't. Or is there anything that you can do to ensure the vials won't break during shipping? I'm also wondering if Yuko repacked them incorrectly.

Thank you.

>>> <darleneh@accutest.com> 10/10/2014 7:17 AM >>>
The attached PDF contains invoice and chain of custody for:

Invoice: CX-28736
Job#: C36172
Attn: Lori Ehman lori.ehman@tucsonaz.gov
Site: COT: Broadway & Pantano

Report was sent on: 10/03/14

From: Lori Ehman
To: Proffitt, Beth
Date: 10/15/2014 3:57 PM
Subject: RE: C35612 Acetone?

Interesting article. Yes, let's remove the compounds you listed from future reports. Thank you for finding that information.

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

>>> Beth Proffitt <bethp@accutest.com> 10/15/2014 3:25 PM >>>
http://www.eonpro.com/pdfdocs/Equilibrator%20NO%20Acetone%20Content.pdf

Even EON PRO white paper says not Acetone or MEK.

Beth Proffitt
Accutest Laboratories
Cell (602) 501-5673

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Wednesday, October 15, 2014 3:08 PM
To: Beth Proffitt
Subject: RE: C35612 Acetone?

Thank you Beth for following up. TWQL will be analyzing their DI water for acetone; see attached from Frank at TWQL. Interesting point that it can come from new ice chests.

Given that TWQL doesn't report acetone for their 8260 method, it's unfavorable compound for PDBs, and it's not a constituent of concern for this site, I'd would agree to having it (and all unfavorable compounds) removed from future results. In the ITRC guidance, the unfav compounds are: acetone, methyl iso-butyl ketone, methyl tert-butyl ether, and styrene. Is this the same as yours?

Thanks.

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

>>> Beth Proffitt <bethp@accutest.com> 10/15/2014 2:56 PM >>>
Hi Lori,

I looked at 5 runs for BP-02 and BP-05 (over time) and there were never hits for Acetone, even below the

reporting limit.

There are detections of Acetone in C35612 and C35611 in almost all of the Broadway Pantano samples below the reporting limit - ranging from 5-19.9 ug/L.

There are other client's samples in the batches that do and don't have hits for Acetone, but there doesn't appear to be carryover.

As you said, Acetone is one of the unfavorable parameters for use with PDBs. Maybe we should not be report it, when we know we are receiving PDB samples. One client asks us not to report the unfavorable parameters.

I cannot put my finger on a reason why these samples have it. I do not know at what point you began buying new pdbs for this site, as opposed to re-using them. I seriously doubt that the City's excellent lab would have Acetone in their DI water that you use to fill the bags. Mike Dew probably has records for the DI water cleanliness from the day these were prepped for you. You could check with him on that.

We do use acetone in the lab, but there are lots of non-detected samples in these batches, so it is not contamination from the air in the lab.

I wish I could be more definitive with an answer, but so far it is a mystery.

Let me know what Mike says, please.
Beth

Beth Proffitt
Accutest Laboratories
Cell (602) 501-5673

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Wednesday, October 15, 2014 9:40 AM
To: Beth Proffitt
Subject: Re: C35612 Acetone?

Thanks.

>>> Beth Proffitt <bethp@accutest.com> 10/15/2014 9:34 AM >>>
Let me look into it, Lori.

Beth Proffitt
Accutest Laboratories

Office | (480) 275-8931 | Cell (602) 501-5673

Lori Ehman <Lori.Ehman@tucsonaz.gov> wrote:

HI Elvin and Beth,

With cross contamination confirmed for one of our samples, I'm revisiting the detections of acetone in two other samples under work order C35612.

Is acetone used in the lab?
If yes, how and what is it used for?

Thank you,

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

>>> Elvin Kumar <elvink@accutest.com> 9/8/2014 4:32 PM >>>
Hi Lori,
I just got a response from our Laboratory Director:
Acetone is a known laboratory contaminant, however we do not believe that the acetone reported in SDG C35612 is an artifact of lab contamination. First, the MB run with the samples was free of acetone to the MDL, and second, these samples were run as received, never opened to air, so there is little potential for contamination. Furthermore, we monitor storage blanks and there have not been any hit for acetone in storage blanks.

Please let me know if you have any additional questions or concerns

Thanks,

Elvin Kumar
Accutest Laboratories
Office | (408) 588-0200, ext 3515 | Cell (408) 612-9410

-----Original Message-----
From: Elvin Kumar
Sent: Friday, September 05, 2014 12:56 PM
To: 'Lori Ehman'
Subject: RE: C35612 Acetone?

I have asked the lab to confirm the hits and will have an answer by Monday

Thanks,

Elvin Kumar
Accutest Laboratories
Office | (408) 588-0200, ext 3515 | Cell (408) 612-9410

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Friday, September 05, 2014 12:45 PM
To: Elvin Kumar
Subject: C35612 Acetone?

Hi Elvin,

Acetone has not been previously detected at this site so I believe the concentrations of acetone in ADEQ-BP-05 and ADEQ-BP-02 are lab contaminants.

Do you concur? Why or why not? And if you do, what can we do to fix this report?

Thank you,

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

EON PRODUCTS INC.

Dear Diffusion Sampler User:

On rare occasion we have a customer who mentions that acetone has appeared in the analytical results from a sample taken using a deionized water filled, polyethylene based passive diffusion bag sampler (Equilibrator). Users of EON's Equilibrator should be aware that the Equilibrators are not to be used for analysis of acetone and several other volatile compounds, and that the presence of these compounds in analytical results does not necessarily mean the compounds are in the groundwater.

Acetone, MEK and several related VOCs exhibit very poor diffusion in water across the polyethylene membrane which makes the Polyethylene Equilibrators unsuitable for measuring these compounds. Because of the low diffusion rate, trace amounts of these compounds that may occur in the deionized fill water will not diffuse or will diffuse very slowly through the membrane. Therefore, if these compounds were present in the water from the beginning, it is possible they will show up when the lab work is done.

Acetone is commonly used in laboratories and therefore is a fairly common contaminant in trace amounts in deionized water. The contaminant may enter the water by direct contact in the lab through liquid or equipment or airborne acetone may diffuse into the water through air/water contact. There is also some speculation that airborne acetone may permeate a filled polyethylene membrane more readily that water borne acetone.

Because of the possibility of acetone contamination in the water used to fill the samplers we always advise that the user take water "blanks" and / or equipment rinsate "blanks" prior to the deployment of the Equilibrator into the well so that the fill water can be tested to show what the water contained prior to installation. We suggest A fill-water blank should also be sent to the lab on the same day that the sample is recovered in case there was acetone in the air when the sampler-water was transferred to VOA vials or in the air in the lab when they were analyzed. Based on our observations we strongly suspect that for cases of acetone "hits" either the fill water had acetone in it or there was acetone in the air when the samples were transferred or analyzed.

As part of our quality assurance program we have had the Equilibrator Passive Diffusion Samplers tested by an independent lab using rinsate blanks to demonstrate that the EON PDBs are not a source of acetone. The results came back negative for the presence of these compounds. We are certain that the Equilibrators are not introducing the acetone into the analysis. The absence of acetone in these tests is consistent with the absence of acetone in the manufacture of the materials and in the storage and handling of the samplers. Acetone has a lower boiling point than the materials used to construct the samplers which means that even trace amounts that could have come in contact with the raw materials would have vaporized during the manufacturing process. The materials used are all "virgin", having no previous use or contact with suspect chemicals.

Please contact us if you have additional questions or comments.

Sincerely,

Bradley Varhol

P.O. Box 443, Snellville, Georgia 30078
800-474-2490 770-978-9971 Fax: 770-978-8661 www.eonpro.com

From: Beth Proffitt <bethp@accutest.com>
To: 'Lori Ehman' <Lori.Ehman@tucsonaz.gov>
Date: 10/15/2014 3:23 PM
Subject: RE: C35612 Acetone?

MTBE
2-butanone (MEK)
4-methyl-2-pentanone (MIBK)
Acetone
Styrene

These are the only ones I have ever heard. A client told me MEK, but I don't really have a reference for it to be unfavorable.

Beth Proffitt
Accutest Laboratories
Cell (602) 501-5673

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Wednesday, October 15, 2014 3:08 PM
To: Beth Proffitt
Subject: RE: C35612 Acetone?

Thank you Beth for following up. TWQL will be analyzing their DI water for acetone; see attached from Frank at TWQL. Interesting point that it can come from new ice chests.

Given that TWQL doesn't report acetone for their 8260 method, it's unfavorable compound for PDBs, and it's not a constituent of concern for this site, I'd would agree to having it (and all unfavorable compounds) removed from future results. In the ITRC guidance, the unfav compounds are: acetone, methyl iso-butyl ketone, methyl tert-butyl ether, and styrene. Is this the same as yours?

Thanks.

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

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Beth

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Accutest Laboratories
Cell (602) 501-5673

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Thanks.

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Beth Proffitt
Accutest Laboratories
Office | (480) 275-8931 | Cell (602) 501-5673

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If yes, how and what is it used for?

Thank you,

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

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Please let me know if you have any additional questions or concerns

Thanks,

Elvin Kumar
Accutest Laboratories
Office | (408) 588-0200, ext 3515 | Cell (408) 612-9410

-----Original Message-----
From: Elvin Kumar
Sent: Friday, September 05, 2014 12:56 PM
To: 'Lori Ehman'
Subject: RE: C35612 Acetone?

I have asked the lab to confirm the hits and will have an answer by Monday

Thanks,

Elvin Kumar
Accutest Laboratories
Office | (408) 588-0200, ext 3515 | Cell (408) 612-9410

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Friday, September 05, 2014 12:45 PM
To: Elvin Kumar
Subject: C35612 Acetone?

Hi Elvin,

Acetone has not been previously detected at this site so I believe the concentrations of acetone in ADEQ-BP-05 and ADEQ-BP-02 are lab contaminants.

Do you concur? Why or why not? And if you do, what can we do to fix this report?

Thank you,

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

From: Francisco Ramirez
To: Lori Ehman
CC: Dew, Michael
Date: 10/15/2014 4:05 PM
Subject: Fwd: RE: C35612 Acetone?

Glad to hear that the source of the contamination has been determined.
Just check on that DI water sample we just analyzed and it is clean.

Anytime,

Francisco Ramirez

>>> On 10/15/14 at 4:01 PM, in message <543E9A49.00CE.0024.1@tucsonaz.gov>, Lori Ehman wrote:
Hi Francisco,

See below - it turns out acetone is an unfavorable compound to sample by PDB. The TWQL DI water is likely fine.

Thank you for checking into this.

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

>>> Lori Ehman 10/15/2014 3:57 PM >>>
Interesting article. Yes, let's remove the compounds you listed from future reports. Thank you for finding that information.

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

>>> Beth Proffitt <bethp@accutest.com> 10/15/2014 3:25 PM >>>
http://www.eonpro.com/pdfdocs/Equilibrator%20NO%20Acetone%20Content.pdf

Even EON PRO white paper says not Acetone or MEK.

Beth Proffitt
Accutest Laboratories
Cell (602) 501-5673

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Wednesday, October 15, 2014 3:08 PM
To: Beth Proffitt

Subject: RE: C35612 Acetone?

Thank you Beth for following up. TWQL will be analyzing their DI water for acetone; see attached from Frank at TWQL. Interesting point that it can come from new ice chests.

Given that TWQL doesn't report acetone for their 8260 method, it's unfavorable compound for PDBs, and it's not a constituent of concern for this site, I'd would agree to having it (and all unfavorable compounds) removed from future results. In the ITRC guidance, the unfav compounds are: acetone, methyl iso-butyl ketone, methyl tert-butyl ether, and styrene. Is this the same as yours?

Thanks.

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

>>> Beth Proffitt <bethp@accutest.com> 10/15/2014 2:56 PM >>>
Hi Lori,

I looked at 5 runs for BP-02 and BP-05 (over time) and there were never hits for Acetone, even below the reporting limit.

There are detections of Acetone in C35612 and C35611 in almost all of the Broadway Pantano samples below the reporting limit - ranging from 5-19.9 ug/L.

There are other client's samples in the batches that do and don't have hits for Acetone, but there doesn't appear to be carryover.

As you said, Acetone is one of the unfavorable parameters for use with PDBs. Maybe we should not be report it, when we know we are receiving PDB samples. One client asks us not to report the unfavorable parameters.

I cannot put my finger on a reason why these samples have it. I do not know at what point you began buying new pdbs for this site, as opposed to re-using them. I seriously doubt that the City's excellent lab would have Acetone in their DI water that you use to fill the bags. Mike Dew probably has records for the DI water cleanliness from the day these were prepped for you. You could check with him on that.

We do use acetone in the lab, but there are lots of non-detected samples in these batches, so it is not contamination from the air in the lab.

I wish I could be more definitive with an answer, but so far it is a mystery.

Let me know what Mike says, please.
Beth

Beth Proffitt
Accutest Laboratories
Cell (602) 501-5673

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Wednesday, October 15, 2014 9:40 AM
To: Beth Proffitt
Subject: Re: C35612 Acetone?

Thanks.

>>> Beth Proffitt <bethp@accutest.com> 10/15/2014 9:34 AM >>>
Let me look into it, Lori.

Beth Proffitt
Accutest Laboratories
Office | (480) 275-8931 | Cell (602) 501-5673

Lori Ehman <Lori.Ehman@tucsonaz.gov> wrote:

HI Elvin and Beth,

With cross contamination confirmed for one of our samples, I'm revisiting the detections of acetone in two other samples under work order C35612.

Is acetone used in the lab?
If yes, how and what is it used for?

Thank you,

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

>>> Elvin Kumar <elvink@accutest.com> 9/8/2014 4:32 PM >>>
Hi Lori,
I just got a response from our Laboratory Director:
Acetone is a known laboratory contaminant, however we do not believe that the acetone reported in SDG C35612 is an artifact of lab contamination. First, the MB run with the samples was free of acetone to the MDL, and second, these samples were run as received, never opened to air, so there is little potential for contamination. Furthermore, we monitor storage blanks and there have not been any hit for acetone in

storage blanks.

Please let me know if you have any additional questions or concerns

Thanks,

Elvin Kumar
Accutest Laboratories
Office | (408) 588-0200, ext 3515 | Cell (408) 612-9410

-----Original Message-----
From: Elvin Kumar
Sent: Friday, September 05, 2014 12:56 PM
To: 'Lori Ehman'
Subject: RE: C35612 Acetone?

I have asked the lab to confirm the hits and will have an answer by Monday

Thanks,

Elvin Kumar
Accutest Laboratories
Office | (408) 588-0200, ext 3515 | Cell (408) 612-9410

-----Original Message-----
From: Lori Ehman [mailto:Lori.Ehman@tucsonaz.gov]
Sent: Friday, September 05, 2014 12:45 PM
To: Elvin Kumar
Subject: C35612 Acetone?

Hi Elvin,

Acetone has not been previously detected at this site so I believe the concentrations of acetone in ADEQ-BP-05 and ADEQ-BP-02 are lab contaminants.

Do you concur? Why or why not? And if you do, what can we do to fix this report?

Thank you,

Lori Ehman
City of Tucson - Environmental Services
520-837-3702

Environmental Services

PDB Woksheet

WELL # **ADEQ-BP-02**

PDB Depth: 25' below the water table

Initial WL: 305.00

Set Date: 3/18/2013

Initial Set Point: 331.00

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	comments
JM/GB	4/2/13	1035	304.92	330.92	Yes	No Adjustments Made
GB/JB	6/4/13	0800	304.22	330.22	YES	No Adjustments Made
GB/JM	8/22/13	0905	304.28	330.28	YES	NO ADJUSTMENTS MADE
JM/GB	11/19/13	0951	304.17	330.17	YES	" " "
JM/GB	2/20/14	0739	304.22	330.22	Yes	" " "
GB/JVM	5/15/14	0945	303.55	329.55	Yes	No adj made
GB/JM	7-25-14	0940	—	—	YES	NO ADJ MADE - REPLACED PDB.
GB/JVM	8/21/14	0855	303.21	329.21	Yes	NO ADJ MADE - NEW PDB installed

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor _____

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD
D (diameter)
d factor

Well Name ADEQ-BP-02 **Project** Broadway Landfill

Date Aug 21, 2014 Field Personnel GB/JVM

Weather CLOUDY/COOL

Static Water Level 303.21 Time 08:55:00 Totalizer: End

Sounder ID SOL 3 Start 0

Total (gal) 0

Well Volumes (gallons): **Discharge Rate(GPM)**

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start

End

Total (min)

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date:

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 09:00:00 Dup Time: Time Ended: 09:05:00

Transferred to: Relinquished by: George Bejarano Date Aug 21, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE.

Environmental Services

PDB Woksheet

WELL # **ADEQ-BP-03**

PDB Depth: 25' below the water table

Initial WL: 301.81

Set Date: 3/18/2013

Initial Set Point: 327.81

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
JM/GB	4/2/13	1010	301.73	327.73	Yes	SOL 2	No Adjustments Made
GB/JB	6/4/13	0820	300.91	326.91	YES	HER 1	No Adjustments Made
GB/JM	8/22/13	0920	300.85	326.85	YES	SOL 3	NO ADJUSTMENTS MADE
JM/JB	11/19/13	1013	300.67	326.67	YES	Sol 4	" " "
JM/JB	2/20/14	0800	300.50	326.50	YES	Sol 4	" " "
GB/JVM	5/15/14	0920	300.35	326.35	Yes	Sol 4	NO ADJ MADE
GB/JVM	7-25-14	0800	—	—	YES	—	NO ADJ MADE - REPLACED PDB
GB/JVM	8/21/14	0945	299.92	325.92	YES	SOL 3	NO ADJ MADE - new PDB installed

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor -

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD
D (diameter)
d factor

Well Name ADEQ-BP-03

Project Broadway Landfill

Date Aug 21, 2014

Field Personnel GB/JM

Weather Cloudy/Cool

Static Water Level 299.92

Time 09:45:00

Totalizer: End
Start 0
Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM)

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start
End
Total (min)

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date:

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 09:50:00 Dup Time: Time Ended: 09:55:00

Transferred to: Relinquished by: George Bejarano Date Aug 21, 2014

Reason for Sampling: ☐ Monthly ☐ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE.

Environmental Services

PDB Woksheet

WELL # **ADEQ-BP-04**

PDB Depth: 25' below the water table

Initial WL: 311.22

Set Date: 3/18/2013

Initial Set Point: 337.22

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
JM/GB	4/2/13	1055	311.04	337.04	Yes	Sol 2	No Adjustments Made
GB/OB	6/4/13	0743	310.79	336.79	YES	Sol 4	No Adjustments Made
OB/JM	8/22/13	0817	310.33	336.93	YES	Sol 3	No adjustments made
JM/JB	11/19/13	0931	310.47	336.47	YES	Sol 4	" " "
JM/JB	2/20/14	0720	310.55	336.55	YES	Sol 4	" " "
OB/JVM	5/15/14	1000	309.48	335.48	yes	Sol 4	No Adj made
GB/JVM	7-25-14	0715	—	—	YES	—	NO ADJ MADE - RE-PLACED PDB
OB/JVM	8/21/04	0955	309.24	335.24	YES	Sol 3	NO ADJ MADE - New PDB installed

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor _____

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD _____
D (diameter) _____
d factor _____

Well Name ADEQ-BP-04

Project Broadway Landfill

Date Aug 21, 2014

Field Personnel GB/JVM

Weather CLOUDY/COOL

Static Water Level 309.24 Time 09:25:00

Totalizer: End _____ Start 0 Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM) _____

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start _____ End _____ Total (min) _____

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date: _____

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 09:30:00 Dup Time: _____ Time Ended: 09:35:00

Transferred to: _____ Relinquished by: George Bejarano Date Aug 21, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE.

Environmental Services

PDB Woksheet

WELL # **ADEQ-BP-05**

PDB Depth: 25' below the water table

Set Date: 3/15/2013

Initial WL: 328.03

Initial Set Point: 354.03

353.97' corrected CB 6/3/13

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
KM/JM/JB	4/1/13	0946	327.97	~~354~~ 353.97	Yes	Sol 2	No adjustments made
GB/JM	6/3/13	1022	327.0	353.0	YES	HER 1	NO ADJUSTMENTS made
CB/JM	8/22/13	0840	326.88	352.88	YES	SOL3	NO ADJUSTMENTS MADE
GB/JB	11/18/13	1127	326.96	352.96	YES	HER 1	" " "
JM/JB	2/19/14	1044	326.99	352.99	Yes	Sol 4	" " "
CB/JM	5/14/14	1045	325.52	351.52	YES	SOL 4	No adj made
GB/JM	7/25/14	1030	—	—	YES	—	NO ADJ MADE- REPLACED PDB
CB/JM	8/21/14	0820	325.30	351.30	YES	SOL3	NO ADJ MADE NEW PDB-INSTALLED

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor _____

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD _____
D (diameter) _____
d factor _____

Well Name ADEQ-BP-05

Project Broadway Landfill

Date Aug 21, 2014

Field Personnel GB/JVM

Weather CLOUDY/COOL

Static Water Level 325.30

Time 08:20:00

Totalizer: End _____ Start 0 Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM) _____

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start _____ End _____ Total (min) _____

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date: _____

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 08:25:00 Dup Time: _____ Time Ended: 08:30:00

Transferred to: _____ Relinquished by: George Bejarano Date Aug 21, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE.

Environmental Services

PDB Woksheet

WELL # **ADEQ-BP-16**

PDB Depth: 25' below the water table

Initial WL: 347.22

Set Date: 3/18/2013

Initial Set Point: 373.22 / After 8/20/14 368.22

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
JM/JB	4/1/13	1138	347.00	373.00	Yes	SOL 2	No Adjustments Made
CB/JM	6/3/13	0715	345.95	371.95	YES	HER 1	NO ADJUSTMENTS MADE
HV/JB CB 6/3/13	8/21/13	1244	345.95	371.95	Yes	HER 1	" " "
GB/OB	11/18/13	0838	344.59	370.59	Yes	HER 1	" " "
OM/JB	2/4/14	0840	344.38	370.38	Yes	Sol 4	" " "
OB/JM	5/14/14	0845	344.15	370.15	Yes	SOL 4	No Adj made
GB/JM	7-28-14	0850	—	—	YES	—	NO ADJ MADE - REPLACED PDB
OB/JM	8/20/14	0915	343.92	369.92	NO	SOL 3	RAISED 5FT - on rope 1835
10/17 LE comment: New PDB set depth = 368.22							

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor +0.35

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD
D (diameter) 5
d factor

Well Name ADEQ-BP-16
Project Broadway Landfill
Date Aug 20, 2014
Field Personnel GB/JVM
Weather SUNNY/COOL

Static Water Level 343.92
Time 09:15:00
Totalizer: End
Start 0
Sounder ID SOL 3
Total (gal) 0

Well Volumes (gallons):
Discharge Rate(GPM)

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start
End
Total (min)

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS
Calibration Date:

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano
Time Started: 09:05:00
Dup Time:
Time Ended: 09:10:00

Transferred to:
Relinquished by: George Bejarano
Date Aug 20, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. ADJUSTED PDB BY RAISING IT 5FT-SET PT ON ROPE 1835.

Environmental Services

PDB Woksheet

WELL # **ADEQ-BP-21**

PDB Depth: 25' below the water table

Initial WL: 301.14

Set Date: 3/18/2013

Initial Set Point: 327.14

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
JM/GB	4/2/13	1129	301.05	327.05	Yes	SOL 2	No Adjustments Made
GB/JB	6/4/13	0840	300.33	326.33	YES	HER 1	No Adjustments Made
KM/JM	8/6/13	0825	300.61	326.61	Yes	SOL 1	Added Hydro. Sleeve & Bottom of tether. w/ 3' extra.
KM/HM/JB	8/21/13	0930	299.97	325.97	Yes	HER 1	NO ADJUSTMENTS
JM/JB	11/19/13	1029	299.81	325.81	Yes	Sol 4	" " "
JM/JB	2/20/14	0814	299.96	325.96	YES	Sol 4	" " "
GB/JVM	5/15/14	0910	GBS 5/15/14 ~~298.78~~ 299.78	325.78	Yes	Sl 4	No adj made
GB/JVM	7-25-14	0825	—	—	YES	—	NO ADJ MADE - REPLACED PDB
GB/JVM	8/21/14	1005	299.39	325.39	YES	SOL 3	NO ADJ MADE - new PDB installed

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor -

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD
D (diameter)
d factor

Well Name ADEQ-BP-21
Project Broadway Landfill
Date Aug 21, 2014
Field Personnel GB/JVM
Weather CLOUDY/COOL

Static Water Level 299.39 Time 10:05:00
Totalizer: End
Start 0
Sounder ID SOL 3
Total (gal) 0

Well Volumes (gallons):
Discharge Rate(GPM)

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start
End
Total (min)

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS
Calibration Date:

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 10:10:00 Dup Time: Time Ended: 10:15:00

Transferred to: Relinquished by: George Bejarano Date

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE.

Environmental Services

PDB Woksheet

WELL # **ADEQ-SJ-01**

PDB Depth: 25' below the water table

Initial WL: 339.14

Set Date: 4/1/2013

Initial Set Point: 365.14

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
KM/JM/JB	4/1/13	0821	339.14	365.14	Yes	SOL 2	Reset PDB on New tether
GB/JM	6/3/13	0842	338.05	364.05	YES	HER-1	NO ADJUSTMENT MADE
HU/JB	8/21/13	1014	337.92	363.92	yes	HER-1	" " "
GB/JB	11/15/13	0953	337.44	363.44	yes	HER-1	" " "
JM/JB	2/20/14	0659	337.51	363.51	YES	Sol 4	" " "
GB/JVM	5/15/14	0715	336.45	362.45	Yes	SOL 4	No adj made
GB/JVM	7-28-14	0655	—	—	YES	—	NO ADJ MADE. REPLACED PDB
GB/JVM	8/21/14	0650	336.14	362.14	YES	SOL 3	NO ADJ MADE / New PDB installed

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor +1.09

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD
D (diameter)
d factor

Well Name ADEQ-SJ-01

Project Broadway Landfill

Date Aug 21, 2014

Field Personnel GB/JVM

Weather CLOUDY/COOL

Static Water Level 336.14

Time 06:50:00

Totalizer: End
Start 0
Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM)

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start
End
Total (min)

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date:

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 07:10:00 Dup Time: Time Ended: 07:15:00

Transferred to: Relinquished by: George Bejarano Date Aug 21, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE.

Environmental Services

PDB Woksheet

WELL # **ADEQ-SJ-02**

PDB Depth: 25' below the water table

Set Date: 3/15/2013

Initial WL: 343.67

Initial Set Point: 369.67 / After 8/20/14 367.67

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
KM/JM/JB	4/1/13	0909	343.52	369.52	Yes	SOL 2	No Adjustments made
GB/JM	6/3/13	0912	342.51	368.51	YES	HERI	No Adjustments made
NW/JB	8/21/13	1046	341.99	367.99	Yes	HERI	" " "
GB/JB	11/18/13	1016	341.91	367.91	Yes	HERI	" " "
OM/JB	2/14/14	0947	341.81	367.81	Yes	SOL4	" " "
GB/JM	3/14/14	0815	340.89 ~~340.89~~	366.89	Yes	SOL4	" "
GB/JM	7-28-14	0715	—	—	YES	—	NO ADJ MADE - REPLACED PDB
OB/JM	8/20/14	1022	340.46	366.49	NO	SOL3	RAISED 2FT - ROPE
10/17/14	LE Comment: PDB new depth: 367.67						

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor +1.11

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD
D (diameter) 5
d factor

Well Name **ADEQ-SJ-02**
Project Broadway Landfill
Date Aug 20, 2014
Field Personnel GB/JVM
Weather SUNNY/COOL

Static Water Level 340.49 Time 10:22:00
Totalizer: End
Start 0
Sounder ID SOL 3
Total (gal) 0

Well Volumes (gallons):
Discharge Rate(GPM)

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start
End
Total (min)

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS
Calibration Date:

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 10:15:00 Dup Time: Time Ended: 10:20:00

Transferred to: Relinquished by: George Bejarano Date Aug 20, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. ADJUSTED PDB BY RAISING IT 2FT.

Environmental Services

PDB Woksheet

WELL # **WR-178A**

PDB Depth: 25' below the water table

Initial WL: 319.61

Set Date: 3/14/2013

Initial Set Point: 345.61

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
KW/JM/JB	4/1/13	1024	319.45	345.45	Yes	SOL 4	No Adjustments Made
GB/JM	6/3/13	0940	318.50	344.50	YES	HERL	No Adjustments made
JH/GB	8/21/13	1111	318.01	344.01	Yes	HERL	" " "
GB/JB	11/18/13	1043	318.13	344.13	Yes	HERL	" " "
JH/JB	2/19/14	1011	318.20	344.20	Yes	SOL 4	" " "
GB/JVM	5/14/14	1010	317.19	343.19	Yes	SOL 4	No adj made
GB/JVM	7-25-14	0945	—	—	YES	—	NO ADJ MADE - REPLACED PDB
GB/JVM	8/21/14	0735	316.82	342.82	YES	SOL 3	NO ADJ MADE / NEW PDB installed

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor -1.02

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD
D (diameter)
d factor

Well Name WR-178A

Project Broadway Landfill

Date Aug 21, 2014

Field Personnel GB/JVM

Weather CLOUDY/COOL

Static Water Level 316.82 Time 07:35:00

Totalizer: End
Start 0
Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM)

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start
End
Total (min)

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date:

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 07:40:00 Dup Time: Time Ended: 07:45:00

Transferred to: Relinquished by: George Bejarano Date Aug 21, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE. DIRTY MESH OUTSIDE OF PDB-CLEANED IT WITH DI PRIOR TO SAMPLING.

Environmental Services

PDB Woksheet

WELL # **WR-179A**

PDB Depth: 25' below the water table

Initial WL: 348.11

Set Date: 3/18/2013

Initial Set Point: 374.11 / After 8/20/14 369.11

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
JM/JB	4/1/13	1131	347.90	373.90	Yes	Sol 2	No Adjustments Made
GB/JM	6/3/13	0740	346.83	372.83	YES	HERI	No Adjustment Made
HU/OB	8/21/13	1210	346.21	372.21	Yes	HERI	" " "
GB/OB	11/15/13	0907	345.73	371.73	Yes	HER	" " "
OM/OB	2/19/14	0905	345.60	371.60	YES	Sol 4	" " "
GB/JM	5/14/14	0945	05/14/14 ~~346.10~~ 345.10	371.10	YES	Sol 4	No adj made
GB/JM	7-28-14	0830	—	—	YES	—	NO ADJ MADE - REPLACED PDB
CS/JM	8/20/14	0940	344.88	370.88	NO	Sol 3	RAISED 5ft - no. on rope not distinct
10/17/2014 LE Comment: PDB new set depth = 369.11							

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor -0.56

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD
D (diameter) 5
d factor

Well Name **WR-179A**

Project Broadway Landfill

Date Aug 20, 2014

Field Personnel GB/JVM

Weather SUNNY/COOL

Static Water Level 344.88 Time 09:40:00

Totalizer: End
Start 0
Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM)

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start
End
Total (min)

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date:

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 09:45:00 Dup Time: 09:48:00 Time Ended: 09:50:00

Transferred to: Relinquished by: George Bejarano Date Aug 20, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☒ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. ADJUSTED PDB BY RAISING IT 5FT.

Environmental Services

PDB Woksheet

WELL # **WR-180A**

PDB Depth: 25' below the water table

Initial WL: 314.64

Set Date: 4/2/2013

Initial Set Point: 340.64

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
JM/GB	4/2/13	0815	314.64	340.64	Yes	SOL 2	Reset PDB on New Tether
GB/OB	6/4/13	0715	315.85	341.85	YES	HER 1	No adjustments Made
OB/JM	8/22/13	0745	313.65	339.65	YES	SOL3	No adjustments made
OM/OB	11/19/13	0903	313.44	339.44	YES	Sol 4	" " "
JM/OB	2/19/14	1107	313.50	339.50	YES	Sol 4	" " "
OB/JM	5/14/14	0910	312.28	338.28	Yes	Sol 4	no adj made
GB/JM	7-28-14	0830	—	—	YES	—	NO ADJ MADE-REPLACED PDB
OB/JM	8/20/14	1115	311.87	337.87	Yes	SOL3	NO ADJ MADE

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor _____

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD _____
D (diameter) 5
d factor _____

Well Name **WR-180A**

Project Broadway Landfill

Date Aug 20, 2014

Field Personnel GB/JVM

Weather SUNNY/COOL

Static Water Level 311.87 Time 11:15:00

Totalizer: End _____ Start 0 Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM) _____

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start _____ End _____ Total (min) _____

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date: _____

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 11:20:00 Dup Time: _____ Time Ended: 11:25:00

Transferred to: _____ Relinquished by: George Bejarano Date Aug 20, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE.

Environmental Services

PDB Woksheet

WELL # **WR-352A**

PDB Depth: 25' below the water table

Initial WL: 317.64

Set Date: 3/14/2013

Initial Set Point: 430.00 *

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
KM/JM/JB	4/1/13	1038	317.47	343.47	Yes	Sol 2	PDB leaking/replaced PDB
GB/JM	6/3/13	1000	316.60	342.60	YES	HER 1	No adjustments made
HV/JB	8/21/13	1137	316.08	342.08	Yes	HER1	" " "
GB/JB	11/18/13	1059	316.19	342.19	Yes	HER1	" " "
JM/JB	2/14/13	1026	316.28	342.28	YES	Sol 4	" " "
GB/JM	5/14/14	1025	315.29	341.29	Yes	Sol 4	No adj made
GB/JM	7-25-14	1005	—	—	YES	—	NO ADJ MADE - REPLACED PDB
GB/JM	8/21/14	0750	314.92	340.92	YES	SOL3	NO ADJ MADE — new PDB installed

Notes:

* This well's PDB set point will always stay at 429'. No need to make any adjustments.

Correction factor +0.44

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD
D (diameter)
d factor

Well Name WR-352A

Project Broadway Landfill

Date Aug 21, 2014

Field Personnel GB/JVM

Weather CLOUDY/COOL

Static Water Level 314.92

Time 07:50:00

Totalizer: End
Start 0
Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM)

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start
End
Total (min)

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date:

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 07:55:00 Dup Time: Time Ended: 08:00:00

Transferred to: Relinquished by: George Bejarano Date Aug 21, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE.

Environmental Services

PDB Woksheet

WELL # **WR-354A**

PDB Depth: 25' below the water table

Initial WL: 324.45

Set Date: 3/15/2013

Initial Set Point: 350.45

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
JM/JB	4/1/13	1103	324.37	350.37	Yes	SOL 2	No Adjustments Made
GB/JM	6/3/13	0807	323.42	349.4	YES	HERI	No Adjustments Made
HV/JB	8/21/13	0813	322.91	348.91	Yes	HERI	" "
GB/JB	11/18/13	0929	322.55	348.55	Yes	HERI	" "
JM/JB	2/19/14	0926	322.40	348.40	Yes	Sol 4	" "
GB/JM	5/14/14	1125	322.05	348.05	Yes	SOL4	No Adj made
GB/JM	7-28-14	0930	—	—	YES	—	NO ADJ MADE—REPLACED PDB.
GB/JM	8/21/14	1040	321.74	347.74	YES	SOL3	NO ADJ MADE

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor +0.49

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD
D (diameter) 5
d factor

Well Name **WR-354A**

Project Broadway Landfill

Date Aug 20, 2014

Field Personnel GB/JVM

Weather SUNNY/COOL

Static Water Level 321.74 Time 10:40:00

Totalizer: End
Start 0
Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM)

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start
End
Total (min)

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date:

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 10:45:00 Dup Time: Time Ended: 10:50:00

Transferred to: Relinquished by: George Bejarano Date Aug 20, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE.

Environmental Services

PDB Woksheet

WELL # **WR-702A**

PDB Depth: 25' below the water table

Initial WL: 297.49

Set Date: 3/18/2013

Initial Set Point: 323.49

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
JM/GB	4/2/13	0944	297.55 ~~279~~	323.55	Yes	SOL 2	No Adjustments Made
GB/JB	6/4/13	0859	296.96	322.96	YES	WER1	No Adjustments Made
GB/JM	8/22/13	0950	296.57	322.57	YES	SOL3	No Adjustments made
JM/JB	11/19/13	1047	296.11	322.11	YES	Sol4	" " "
JM/JB	2/20/14	0836	296.27	322.27	YES	Sol4	" " "
GB/JVM	5/15/14	0845	296.29	322.29	YES	SOL4	no adj made
GB/JVM	7-25-14	0845	—	—	YES	—	NO ADJ MADE - REPLACED PDB.
GB/JVM	8-20-14	0755	295.69	321.69	YES	SOL 3	NO ADJ. MADE - REPLACED PDB.

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor _____

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD _____
D (diameter) _____
d factor _____

Well Name **WR-702A**

Project Broadway Landfill

Date Aug 20, 2014

Field Personnel GB/JVM

Weather SUNNY/COOL

Static Water Level 295.69 Time 07:55:00

Totalizer: End _____ Start 0 Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM) _____

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start _____ End _____ Total (min) _____

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date: _____

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 08:30:00 Dup Time: _____ Time Ended: 08:35:00

Transferred to: _____ Relinquished by: George Bejarano Date Aug 20, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE.

Environmental Services

PDB Woksheet

WELL # **WR-703A**

PDB Depth: 25' below the water table

Initial WL: 292.56

Set Date: 3/18/2013

Initial Set Point: 318.56

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
JM/GB	4/2/13	0928	292.59	318.59	Yes	SOL 2	No Adjustments Made
GB/JB	6/4/13	0921	291.95	317.95	YES	HERI	No Adjustments Made
GB/JM	8/22/13	1005	291.48	317.48	YES	SOL3	NO Adjustments made
JM/JB	11/4/13	1102	291.13	317.13	YES	SOL4	" " "
JM/JB	2/20/14	0857	291.38	317.38	YES	SOL4	" " "
GB/JVM	5/15/14	0825	291.40	317.40	Yes	Sol 4	NO Adj made
GB/JVM	7-28-14	0800	—	—	YES	—	NO ADJ MADE - REPLACED PDB.
GB/JM	8/20/14	1150	290.71	316.71	Yes	SOL3	NO ADJ MADE

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

Correction factor _____

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD _____
D (diameter) 5
d factor _____

Well Name WR-703A

Project Broadway Landfill

Date Aug 20, 2014

Field Personnel GB/JVM

Weather SUNNY/COOL

Static Water Level 290.71 Time 11:50:00

Totalizer: End _____ Start 0 Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM) _____

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start _____ End _____ Total (min) _____

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date: _____

Parameters: *(Stable within)*		*+/-0.1*	*+/-3%*	*+/-3%*	*+/-10%*	*+/-20 mv*		
Gallons	**Time (hrs)**	**pH**	**SpC (µS/cm)**	**Temp (C)**	**DO (mg/l)**	**ORP**	**PWL (feet)**	**Turbidity (ntu)**
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 11:55:00 Dup Time: _____ Time Ended: 12:00:00

Transferred to: _____ Relinquished by: George Bejarano Date Aug 20, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE.

Environmental Services

PDB Woksheet

WELL # **WR-704A**

PDB Depth: 25' below the water table

Initial WL: 297.64

Set Date: 4/2/2013

Initial Set Point: 323.64 / AKM 9/10/14 321.64

Intials	Date	Time	dtw	dtw + 26'	within +/- 3'	Sounder ID	comments
JM/GB	4/2/13	0901	297.64	323.64	Yes	SOL 2	Reset PDB on New tether
KM/LE	4/25/13	0935	297.41	323.41	yes	SOL 2	Monthly Sample
KM/JM	5/23/13	0801	297.14	323.14	Yes	SOL 2	Monthly Sample—No Adjustments Made.
GB/JB	6/4/13	0947	296.91	322.91	YES	HER 1	No adjustments Made
JB/JM	7/29/13	0802	296.47	322.47	YES	SOL 4	" "
GB/JM	8/22/13	1015	295.58	321.58	YES	SOL 3	No Adjustments made
GB/JM	9/11/13	0830	295.48	321.48	YES	SOL 4	No adjustments made
JB/JM	10/24/13	0856	295.58	321.58	Yes	SOL 3	" " "
GB/KM	11/6/13	0930	—	—	—	—	added hydrasleeve below PDB SB 11/6/13
JM/JB	11/19/13	1120	295.62	321.62	YES	SOL 4	NO ADJUSTMENTS
JB/KM	12/19/13	0847	295.71	321.71	YES	SOL 3	" "
KM/HV	1/14/14	0848	295.30	321.30	YES	SOL 1	" "
JM/JB	2/20/14	0921	295.46	321.46	YES	SOL 4	" "
KM/JB	3/18/14	0918	296.24	322.24	Yes	SOL 4	" "
JB/JB	4/24/14	0829	296.33	322.33	Yes	SOL 4	" "
GB/JVM	5/15/14	0810	295.77	321.77	Yes	SOL 4	No adj made
GB/HV	6/6/14	0915	295.45	321.45	Yes	SOL 2	No adj made
GB/JVM	6/25/14	0720	295.27	321.27	yes	SOL 3	no adj made
GB/JVM	7/28/14	0730	295.12	321.12	Yes	SOL	No adj made
GB/JVM	8/20/14	1210	294.80	320.80	Yes	SOL 3	No adj made

Notes:

To account for the length of each PDB bag, 26 feet will be added to the water level measurement taken during each vist. This will allow the set point to be in the middle of the PDB.

GB/HV	9/10/14	0730	294.64	320.64	Yes	SOL 3	RAISED 2' - 321.64 marked pt, w/marker

Correction factor _____

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD _____
D (diameter) _____
d factor _____

Well Name WR-704A

Project Broadway Landfill

Date Jul 28, 2014

Field Personnel GB/JVM

Weather CLOUDY/COOL

Static Water Level 295.12

Time 07:35:00

Totalizer: End _____
Start 0
Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM) _____

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start _____
End _____
Total (min) _____

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date: _____

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 07:40:00 Dup Time: 07:45:00 Time Ended: 07:45:00

Transferred to: _____ Relinquished by: George Bejarano Date Jul 28, 2014

Reason for Sampling: ☒ Monthly ☐ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☒ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. AFTER SAMPLING REPLACED OLD PDB WITH NEW PDB. FILLED NEW PDB WITH TWQL DI WATER 7/24/14. NO ADJUSTMENTS MADE.

Correction factor _____

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD _____
D (diameter) 5
d factor _____

Well Name **WR-704A**

Project Broadway Landfill

Date Aug 20, 2014

Field Personnel GB/JVM

Weather SUNNY/COOL

Static Water Level 294.80 Time 12:10:00

Totalizer: End _____ Start 0 Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM) _____

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start _____ End _____ Total (min) _____

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date: _____

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 12:15:00 Dup Time: _____ Time Ended: 12:20:00

Transferred to: _____ Relinquished by: George Bejarano Date Aug 20, 2014

Reason for Sampling: ☐ Monthly ☒ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 8/19/14. NO ADJUSTMENT MADE.

Correction factor _____

CITY OF TUCSON
Environmental Services
Sampling Data Form

HP PDB
TD _____
D (diameter) _____
d factor _____

Well Name WR-704A

Project Broadway Landfill

Date Sep 10, 2014

Field Personnel GB/HV

Weather SUNNY/COOL

Static Water Level 294.64

Time 07:30:00

Totalizer: End _____
Start 0
Total (gal) 0

Sounder ID SOL 3

Well Volumes (gallons):

Discharge Rate(GPM) _____

1 0 1.5 0 2 0 2.5 0 3 0 3.5 0 4 0 4.5 0 5 0

Pump Time: Start _____
End _____
Total (min) _____

Meters and Type: ☐ YSI #1 ☐ YSI #2 ☐ YSI QS

Calibration Date: _____

Parameters: *(Stable within)* *+/-0.1* *+/-3%* *+/-3%* *+/-10%* *+/-20 mv*

Gallons	Time (hrs)	pH	SpC (µS/cm)	Temp (C)	DO (mg/l)	ORP	PWL (feet)	Turbidity (ntu)
0								
0								
0								
0								
0								
0								
0								
0								
0								

Sampling:

Samples Collected by: George Bejarano Time Started: 07:40:00 Dup Time: _____ Time Ended: 07:45:00

Transferred to: _____ Relinquished by: George Bejarano Date Sep 10, 2014

Reason for Sampling: ☒ Monthly ☐ Quarterly ☐ Semi-Annual ☐ Annual ☐ Investigation

☐ **Duplicate** ☐ **GAC Treatment** ☐ **Grab Sample** ☐ **Bail Sample**

Comments: PDB SAMPLE. SAMPLE TO ACCUTEST. INSTALLED NEW PDB AND FILLED IT WITH TWQL DI H2O 9/3/14. ADJUSTED PDB 2FT-PLACED AT 321.64FT.

Broadway/Pantano Quarterly Well Sampling Notes

Well ID	PDB Deployment									PDB Retrieval			Comments
	Date	Time	Groundwater Depth (ft)	Groundwater level + 25'	Measurment at top of line *	Depth of 25' PDB *	Depth of 50' PDB *	Depth of 75' PDB *	Depth of 100' PDB/Bottom of line *	Groundwater Depth (ft)	Sample Date	Sample Time	
R-92a	9/4/14	0815	318.79	344.79	2228	2557	2592	2617	2642	—	9/23/14	—	PDB Stuck
C-26	9/4/14	1015	302.16	328.16	2184.16	1856	1831	1806	1781	302.19	9/23/14	0900	
R-90a	9/4/14	1230	314.72	340.72	3061	2721	2696	2671	2646	314.7	9/23/14	1120	

*Measurement taken from line PDB's are deployed on

CHAIN OF CUSTODY

ACCUTEST® LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C

Client / Reporting Information

Company Name: City of Tucson
Address: PO Box 27210
City: Tucson State: AZ Zip: 85726
Project Contact: Lori Ehman
Phone #: 520-791-3175
Samplers's Name: Mark Taylor

Project Information

Project Name: BROADWAY/PANTANO
Street:
City: State:
Project #: P01154
EMAIL: Lori.Ehman@tucsonaz.gov
Client Purchase Order #:

Requested Analysis

8260

Matrix Codes

WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
Ol-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	8260	LAB USE ONLY
	C26-25	9/23/14	0910	MT	GW	3	3								✓	
	C26-50	9/23/14	0920	MT	GW	3	3								✓	
	C26-75	9/23/14	0930	MT	GW	3	3								✓	
	C26-100	9/23/14	0940	MT	GW	3	3								✓	
	R90a-25	9/23/14	1130	MT	GW	3	3								✓	
	R90a-50	9/23/14	1140	MT	GW	3	3								✓	
	R90a-75	9/23/14	1150	MT	GW	3	3								✓	
	R90a-100	9/23/14	1200	MT	GW	3	3								✓	
	Trip Blank	9/23/14	1507			3	3								✓	
		9/23/14														

Turnaround Time (Business days)

Approved By:/ Date:

- 10 Day
- 5 Day
- 3 Day
- 2 Day
- 1 Day
- Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- Commercial "A" - Results only
- Commercial "B" - Results with QC summaries
- Commerical "B+" - Results, QC, and chromatograms
- FULT1 - Level 4 data package
- EDF for Geotracker
- EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	9/23/14 1530	1	2		2
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #		

Appropriate Bottle / Pres. Y / N Headspace Y / N On Ice Y / N Cooler Temp.
Labels match Coc? Y / N Separate Receiving Check List used: Y / N ____oC

4401 S. Tucson Estates Parkway
Tucson, Arizona 85735
520.791.2544 Phone
520.791.5260 Fax

16 October 2014

Mohsen Belyani

Environmental Compliance and Regulatory Section

4401 S. Tucson Estates Pkwy

Tucson, AZ 85735

RE: Well Investigation

Enclosed are the results for Work Order L140986, received by the laboratory on 08/14/2014 09:42. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Frank Walker For Michael E. Dew

Lab Manager

Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-051B	L140986-03	Aqueous	08/14/2014 08:35	08/14/2014 09:42
C-125A	L140986-07	Aqueous	08/14/2014 07:55	08/14/2014 09:42
TRIP BLANK	L140986-08	Aqueous	08/14/2014 06:27	08/14/2014 09:42

All QC results were within QC limits. Data results for C-051B , C-125A, and Trip Blank are being reported to Environmental Services in this report.

Tucson Water Quality Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Frank Walker For Michael E. Dew, Lab Manager

Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

C-051B

L140986-03 (Aqueous)

Sampled: 08/14/2014 8:35

Tucson Water Quality Laboratory

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,1,2-TETRACHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1,1-TRICHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1,2,2-TETRACHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1,2-TRICHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1-DICHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1-DICHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1-DICHLOROPROPENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2,3-TRICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2,3-TRICHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2,4-TRICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2,4-TRIMETHYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2-DICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2-DICHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2-DICHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,3,5-TRIMETHYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,3-DICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,3-DICHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,3-DICHLOROPROPENE, TOTAL	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,4-DICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
2,2-DICHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
2-CHLOROTOLUENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
4-CHLOROTOLUENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

C-051B

L140986-03 (Aqueous)

Sampled: 08/14/2014 8:35

Tucson Water Quality Laboratory

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-ISOPROPYLTOLUENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMOBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMOCHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMODICHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMOFORM	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMOMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CARBON TETRACHLORIDE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CHLOROFORM	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CIS-1,2-DICHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CIS-1,3-DICHLOROPROPENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
DIBROMOCHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
DIBROMOMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
DICHLORODIFLUOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
DICHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
ETHYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
ETHYLENE DIBROMIDE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
HEXACHLOROBUTADIENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
ISOPROPYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
M/P-XYLENES	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

C-051B

L140986-03 (Aqueous)

Sampled: 08/14/2014 8:35

Tucson Water Quality Laboratory

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
METHYL-TERT-BUTYL ETHER	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
NAPHTHALENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
N-BUTYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
N-PROPYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
ORTHO-XYLENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
SEC-BUTYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
STYRENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TERT-BUTYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TETRACHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TOLUENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TOTAL TRIHALOMETHANES	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TRANS-1,2-DICHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TRANS-1,3-DICHLOROPROPENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TRICHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TRICHLOROFLUOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
VINYL CHLORIDE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
XYLENES (TOTAL)	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
Surrogate: 1,2-DICHLOROBENZENE-D4 (SURR.)		*100 %*	*70-130*		*BH41506*	*08/14/2014*	*08/14/2014*	*EPA 524.2*	
Surrogate: BROMOFLUOROBENZENE (SURR.)		*98 %*	*70-130*		*BH41506*	*08/14/2014*	*08/14/2014*	*EPA 524.2*	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

C-125A

L140986-07 (Aqueous)

Sampled: 08/14/2014 7:55

Tucson Water Quality Laboratory

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,1,2-TETRACHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1,1-TRICHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1,2,2-TETRACHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1,2-TRICHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1-DICHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1-DICHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1-DICHLOROPROPENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2,3-TRICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2,3-TRICHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2,4-TRICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2,4-TRIMETHYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2-DICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2-DICHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2-DICHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,3,5-TRIMETHYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,3-DICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,3-DICHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,3-DICHLOROPROPENE, TOTAL	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,4-DICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
2,2-DICHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
2-CHLOROTOLUENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
4-CHLOROTOLUENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

C-125A

L140986-07 (Aqueous)

Sampled: 08/14/2014 7:55

Tucson Water Quality Laboratory

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-ISOPROPYLTOLUENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMOBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMOCHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMODICHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMOFORM	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMOMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CARBON TETRACHLORIDE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CHLOROFORM	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CIS-1,2-DICHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CIS-1,3-DICHLOROPROPENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
DIBROMOCHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
DIBROMOMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
DICHLORODIFLUOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
DICHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
ETHYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
ETHYLENE DIBROMIDE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
HEXACHLOROBUTADIENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
ISOPROPYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
M/P-XYLENES	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

C-125A

L140986-07 (Aqueous)

Sampled: 08/14/2014 7:55

Tucson Water Quality Laboratory

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
METHYL-TERT-BUTYL ETHER	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
NAPHTHALENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
N-BUTYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
N-PROPYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
ORTHO-XYLENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
SEC-BUTYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
STYRENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TERT-BUTYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TETRACHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TOLUENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TOTAL TRIHALOMETHANES	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TRANS-1,2-DICHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TRANS-1,3-DICHLOROPROPENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TRICHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TRICHLOROFLUOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
VINYL CHLORIDE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
XYLENES (TOTAL)	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
Surrogate: 1,2-DICHLOROBENZENE-D4 (SURR.)		*100 %*	*70-130*		*BH41506*	*08/14/2014*	*08/14/2014*	*EPA 524.2*	
Surrogate: BROMOFLUOROBENZENE (SURR.)		*96 %*	*70-130*		*BH41506*	*08/14/2014*	*08/14/2014*	*EPA 524.2*	

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

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L140986-08 (Aqueous)

Sampled: 08/14/2014 6:27

Tucson Water Quality Laboratory

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,1,2-TETRACHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1,1-TRICHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1,2,2-TETRACHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1,2-TRICHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1-DICHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1-DICHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,1-DICHLOROPROPENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2,3-TRICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2,3-TRICHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2,4-TRICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2,4-TRIMETHYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2-DICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2-DICHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,2-DICHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,3,5-TRIMETHYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,3-DICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,3-DICHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,3-DICHLOROPROPENE, TOTAL	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
1,4-DICHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
2,2-DICHLOROPROPANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
2-CHLOROTOLUENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
4-CHLOROTOLUENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

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L140986-08 (Aqueous)

Sampled: 08/14/2014 6:27

Tucson Water Quality Laboratory

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-ISOPROPYLTOLUENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMOBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMOCHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMODICHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMOFORM	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
BROMOMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CARBON TETRACHLORIDE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CHLOROBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CHLOROETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CHLOROFORM	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CIS-1,2-DICHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
CIS-1,3-DICHLOROPROPENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
DIBROMOCHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
DIBROMOMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
DICHLORODIFLUOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
DICHLOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
ETHYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
ETHYLENE DIBROMIDE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
HEXACHLOROBUTADIENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
ISOPROPYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
M/P-XYLENES	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	

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4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
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Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

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L140986-08 (Aqueous)

Sampled: 08/14/2014 6:27

Tucson Water Quality Laboratory

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
METHYL-TERT-BUTYL ETHER	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
NAPHTHALENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
N-BUTYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
N-PROPYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
ORTHO-XYLENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
SEC-BUTYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
STYRENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TERT-BUTYLBENZENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TETRACHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TOLUENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TOTAL TRIHALOMETHANES	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TRANS-1,2-DICHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TRANS-1,3-DICHLOROPROPENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TRICHLOROETHENE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
TRICHLOROFLUOROMETHANE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
VINYL CHLORIDE	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
XYLENES (TOTAL)	ND	0.0005	mg/L	1	BH41506	08/14/2014	08/14/2014	EPA 524.2	
Surrogate: 1,2-DICHLOROBENZENE-D4 (SURR.)		*100 %*	*70-130*		*BH41506*	*08/14/2014*	*08/14/2014*	*EPA 524.2*	
Surrogate: BROMOFLUOROBENZENE (SURR.)		*98 %*	*70-130*		*BH41506*	*08/14/2014*	*08/14/2014*	*EPA 524.2*	

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Tucson Water Quality Lab
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Tucson, AZ 85735
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Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BH41506-BLK1)				Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
1,1,1,2-TETRACHLOROETHANE	ND	0.0005	mg/L							
1,1,1-TRICHLOROETHANE	ND	0.0005	mg/L							
1,1,2,2-TETRACHLOROETHANE	ND	0.0005	mg/L							
1,1,2-TRICHLOROETHANE	ND	0.0005	mg/L							
1,1-DICHLOROETHANE	ND	0.0005	mg/L							
1,1-DICHLOROETHENE	ND	0.0005	mg/L							
1,1-DICHLOROPROPENE	ND	0.0005	mg/L							
1,2,3-TRICHLOROBENZENE	ND	0.0005	mg/L							
1,2,3-TRICHLOROPROPANE	ND	0.0005	mg/L							
1,2,4-TRICHLOROBENZENE	ND	0.0005	mg/L							
1,2,4-TRIMETHYLBENZENE	ND	0.0005	mg/L							
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.0005	mg/L							
1,2-DICHLOROBENZENE	ND	0.0005	mg/L							
1,2-DICHLOROETHANE	ND	0.0005	mg/L							
1,2-DICHLOROPROPANE	ND	0.0005	mg/L							
1,3,5-TRIMETHYLBENZENE	ND	0.0005	mg/L							
1,3-DICHLOROBENZENE	ND	0.0005	mg/L							
1,3-DICHLOROPROPANE	ND	0.0005	mg/L							
1,3-DICHLOROPROPENE, TOTAL	ND	0.0005	mg/L							
1,4-DICHLOROBENZENE	ND	0.0005	mg/L							
2,2-DICHLOROPROPANE	ND	0.0005	mg/L							
2-CHLOROTOLUENE	ND	0.0005	mg/L							
4-CHLOROTOLUENE	ND	0.0005	mg/L							
4-ISOPROPYLTOLUENE	ND	0.0005	mg/L							
BENZENE	ND	0.0005	mg/L							

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BH41506-BLK1)				Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
BROMOBENZENE	ND	0.0005	mg/L							
BROMOCHLOROMETHANE	ND	0.0005	mg/L							
BROMODICHLOROMETHANE	ND	0.0005	mg/L							
BROMOFORM	ND	0.0005	mg/L							
BROMOMETHANE	ND	0.0005	mg/L							
CARBON TETRACHLORIDE	ND	0.0005	mg/L							
CHLOROBENZENE	ND	0.0005	mg/L							
CHLOROETHANE	ND	0.0005	mg/L							
CHLOROFORM	ND	0.0005	mg/L							
CHLOROMETHANE	ND	0.0005	mg/L							
CIS-1,2-DICHLOROETHENE	ND	0.0005	mg/L							
CIS-1,3-DICHLOROPROPENE	ND	0.0005	mg/L							
DIBROMOCHLOROMETHANE	ND	0.0005	mg/L							
DIBROMOMETHANE	ND	0.0005	mg/L							
DICHLORODIFLUOROMETHANE	ND	0.0005	mg/L							
DICHLOROMETHANE	ND	0.0005	mg/L							
ETHYLBENZENE	ND	0.0005	mg/L							
ETHYLENE DIBROMIDE	ND	0.0005	mg/L							
HEXACHLOROBUTADIENE	ND	0.0005	mg/L							
ISOPROPYLBENZENE	ND	0.0005	mg/L							
M/P-XYLENES	ND	0.0005	mg/L							
METHYL-TERT-BUTYL ETHER	ND	0.0005	mg/L							
NAPHTHALENE	ND	0.0005	mg/L							
N-BUTYLBENZENE	ND	0.0005	mg/L							
N-PROPYLBENZENE	ND	0.0005	mg/L							
ORTHO-XYLENE	ND	0.0005	mg/L							

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BH41506-BLK1)				Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
SEC-BUTYLBENZENE	ND	0.0005	mg/L							
STYRENE	ND	0.0005	mg/L							
TERT-BUTYLBENZENE	ND	0.0005	mg/L							
TETRACHLOROETHENE	ND	0.0005	mg/L							
TOLUENE	ND	0.0005	mg/L							
TOTAL TRIHALOMETHANES	ND	0.0005	mg/L							
TRANS-1,2-DICHLOROETHENE	ND	0.0005	mg/L							
TRANS-1,3-DICHLOROPROPENE	ND	0.0005	mg/L							
TRICHLOROETHENE	ND	0.0005	mg/L							
TRICHLOROFLUOROMETHANE	ND	0.0005	mg/L							
VINYL CHLORIDE	ND	0.0005	mg/L							
XYLENES (TOTAL)	ND	0.0005	mg/L							
Surrogate: 1,2-DICHLOROBENZENE-D4 (SURR.)	*4.92*		ug/L	*5.00*		*98*	*70-130*			
Surrogate: BROMOFLUOROBENZENE (SURR.)	*4.86*		ug/L	*5.00*		*97*	*70-130*			

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Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
MRL Check (BH41506-MRL1)				Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
1,1,1,2-TETRACHLOROETHANE	0.480		ug/L	0.500		96	50-150			
1,1,1-TRICHLOROETHANE	0.470		ug/L	0.500		94	50-150			
1,1,2,2-TETRACHLOROETHANE	0.560		ug/L	0.500		112	50-150			
1,1,2-TRICHLOROETHANE	0.540		ug/L	0.500		108	50-150			
1,1-DICHLOROETHANE	0.540		ug/L	0.500		108	50-150			
1,1-DICHLOROETHENE	0.530		ug/L	0.500		106	50-150			
1,1-DICHLOROPROPENE	0.580		ug/L	0.500		116	50-150			
1,2,3-TRICHLOROBENZENE	0.540		ug/L	0.500		108	50-150			
1,2,3-TRICHLOROPROPANE	0.500		ug/L	0.500		100	50-150			
1,2,4-TRICHLOROBENZENE	0.530		ug/L	0.500		106	50-150			
1,2,4-TRIMETHYLBENZENE	0.500		ug/L	0.500		100	50-150			
1,2-DIBROMO-3-CHLOROPROPANE	0.410		ug/L	0.500		82	50-150			
1,2-DICHLOROBENZENE	0.540		ug/L	0.500		108	50-150			
1,2-DICHLOROETHANE	0.550		ug/L	0.500		110	50-150			
1,2-DICHLOROPROPANE	0.540		ug/L	0.500		108	50-150			
1,3,5-TRIMETHYLBENZENE	0.490		ug/L	0.500		98	50-150			
1,3-DICHLOROBENZENE	0.510		ug/L	0.500		102	50-150			
1,3-DICHLOROPROPANE	0.520		ug/L	0.500		104	50-150			
1,3-DICHLOROPROPENE, TOTAL	ND	0.0005	mg/L				0-200			
1,4-DICHLOROBENZENE	0.560		ug/L	0.500		112	50-150			
2,2-DICHLOROPROPANE	0.460		ug/L	0.500		92	50-150			
2-CHLOROTOLUENE	0.500		ug/L	0.500		100	50-150			
4-CHLOROTOLUENE	0.510		ug/L	0.500		102	50-150			
4-ISOPROPYLTOLUENE	0.500		ug/L	0.500		100	50-150			
BENZENE	0.520		ug/L	0.500		104	50-150			

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Environmental Compliance and Regulatory Section	Project: Well Investigation	
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Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
MRL Check (BH41506-MRL1)				Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
BROMOBENZENE	0.540		ug/L	0.500		108	50-150			
BROMOCHLOROMETHANE	0.560		ug/L	0.500		112	50-150			
BROMODICHLOROMETHANE	0.530		ug/L	0.500		106	50-150			
BROMOFORM	0.520		ug/L	0.500		104	50-150			
BROMOMETHANE	0.640		ug/L	0.500		128	50-150			
CARBON TETRACHLORIDE	0.510		ug/L	0.500		102	50-150			
CHLOROBENZENE	0.540		ug/L	0.500		108	50-150			
CHLOROETHANE	0.600		ug/L	0.500		120	50-150			
CHLOROFORM	0.560		ug/L	0.500		112	50-150			
CHLOROMETHANE	0.540		ug/L	0.500		108	50-150			
CIS-1,2-DICHLOROETHENE	0.510		ug/L	0.500		102	50-150			
CIS-1,3-DICHLOROPROPENE	0.450		ug/L	0.500		90	50-150			
DIBROMOCHLOROMETHANE	0.480		ug/L	0.500		96	50-150			
DIBROMOMETHANE	0.530		ug/L	0.500		106	50-150			
DICHLORODIFLUOROMETHANE	0.530		ug/L	0.500		106	50-150			
DICHLOROMETHANE	0.560		ug/L	0.500		112	50-150			
ETHYLBENZENE	0.530		ug/L	0.500		106	50-150			
ETHYLENE DIBROMIDE	0.480		ug/L	0.500		96	50-150			
HEXACHLOROBUTADIENE	0.650		ug/L	0.500		130	50-150			
ISOPROPYLBENZENE	0.500		ug/L	0.500		100	50-150			
M/P-XYLENES	0.980		ug/L	1.00		98	50-150			
METHYL-TERT-BUTYL ETHER	0.500		ug/L	0.500		100	50-150			
NAPHTHALENE	0.530		ug/L	0.500		106	50-150			
N-BUTYLBENZENE	0.520		ug/L	0.500		104	50-150			
N-PROPYLBENZENE	0.540		ug/L	0.500		108	50-150			
ORTHO-XYLENE	0.510		ug/L	0.500		102	50-150			

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
MRL Check (BH41506-MRL1)				Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
SEC-BUTYLBENZENE	0.520		ug/L	0.500		104	50-150			
STYRENE	0.500		ug/L	0.500		100	50-150			
TERT-BUTYLBENZENE	0.530		ug/L	0.500		106	50-150			
TETRACHLOROETHENE	0.530		ug/L	0.500		106	50-150			
TOLUENE	0.530		ug/L	0.500		106	50-150			
TOTAL TRIHALOMETHANES	0.00161	0.0005	mg/L				0-200			
TRANS-1,2-DICHLOROETHENE	0.530		ug/L	0.500		106	50-150			
TRANS-1,3-DICHLOROPROPENE	0.470		ug/L	0.500		94	50-150			
TRICHLOROETHENE	0.530		ug/L	0.500		106	50-150			
TRICHLOROFLUOROMETHANE	0.580		ug/L	0.500		116	50-150			
VINYL CHLORIDE	0.460		ug/L	0.500		92	50-150			
XYLENES (TOTAL)	0.00149	0.0005	mg/L				0-200			
Surrogate: 1,2-DICHLOROBENZENE-D4 (SURR.)	*5.06*		ug/L	*5.00*		*101*	*70-130*			
Surrogate: BROMOFLUOROBENZENE (SURR.)	*4.92*		ug/L	*5.00*		*98*	*70-130*			

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Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BH41506-MS1)		**Source: L140986-03**		Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
1,1,1,2-TETRACHLOROETHANE	4.78		ug/L	5.00	ND	96	70-130			
1,1,1-TRICHLOROETHANE	4.57		ug/L	5.00	ND	91	70-130			
1,1,2,2-TETRACHLOROETHANE	4.96		ug/L	5.00	ND	99	70-130			
1,1,2-TRICHLOROETHANE	4.79		ug/L	5.00	ND	96	70-130			
1,1-DICHLOROETHANE	4.82		ug/L	5.00	ND	96	70-130			
1,1-DICHLOROETHENE	4.96		ug/L	5.00	ND	99	70-130			
1,1-DICHLOROPROPENE	5.35		ug/L	5.00	ND	107	70-130			
1,2,3-TRICHLOROBENZENE	4.76		ug/L	5.00	ND	95	70-130			
1,2,3-TRICHLOROPROPANE	4.70		ug/L	5.00	ND	94	70-130			
1,2,4-TRICHLOROBENZENE	4.91		ug/L	5.00	ND	98	70-130			
1,2,4-TRIMETHYLBENZENE	4.89		ug/L	5.00	ND	98	70-130			
1,2-DIBROMO-3-CHLOROPROPANE	3.98		ug/L	5.00	ND	80	70-130			
1,2-DICHLOROBENZENE	4.80		ug/L	5.00	ND	96	70-130			
1,2-DICHLOROETHANE	4.80		ug/L	5.00	ND	96	70-130			
1,2-DICHLOROPROPANE	4.66		ug/L	5.00	ND	93	70-130			
1,3,5-TRIMETHYLBENZENE	4.71		ug/L	5.00	ND	94	70-130			
1,3-DICHLOROBENZENE	4.96		ug/L	5.00	ND	99	70-130			
1,3-DICHLOROPROPANE	4.84		ug/L	5.00	ND	97	70-130			
1,4-DICHLOROBENZENE	5.10		ug/L	5.00	ND	102	70-130			
2,2-DICHLOROPROPANE	4.42		ug/L	5.00	ND	88	70-130			
2-CHLOROTOLUENE	4.93		ug/L	5.00	ND	99	70-130			
4-CHLOROTOLUENE	4.88		ug/L	5.00	ND	98	70-130			
4-ISOPROPYLTOLUENE	4.99		ug/L	5.00	ND	100	70-130			
BENZENE	4.83		ug/L	5.00	ND	97	70-130			
BROMOBENZENE	4.89		ug/L	5.00	ND	98	70-130			

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Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BH41506-MS1)		**Source: L140986-03**		Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
BROMOCHLOROMETHANE	4.83		ug/L	5.00	ND	97	70-130			
BROMODICHLOROMETHANE	4.85		ug/L	5.00	ND	97	70-130			
BROMOFORM	4.60		ug/L	5.00	ND	92	70-130			
BROMOMETHANE	5.47		ug/L	5.00	ND	109	70-130			
CARBON TETRACHLORIDE	4.89		ug/L	5.00	ND	98	70-130			
CHLOROBENZENE	4.74		ug/L	5.00	ND	95	70-130			
CHLOROETHANE	5.44		ug/L	5.00	ND	109	70-130			
CHLOROFORM	4.90		ug/L	5.00	ND	98	70-130			
CHLOROMETHANE	4.74		ug/L	5.00	ND	95	70-130			
CIS-1,2-DICHLOROETHENE	5.03		ug/L	5.00	ND	101	70-130			
CIS-1,3-DICHLOROPROPENE	4.20		ug/L	5.00	ND	84	70-130			
DIBROMOCHLOROMETHANE	4.64		ug/L	5.00	ND	93	70-130			
DIBROMOMETHANE	4.87		ug/L	5.00	ND	97	70-130			
DICHLORODIFLUOROMETHANE	4.80		ug/L	5.00	ND	96	70-130			
DICHLOROMETHANE	4.75		ug/L	5.00	ND	95	70-130			
ETHYLBENZENE	4.88		ug/L	5.00	ND	98	70-130			
ETHYLENE DIBROMIDE	4.26		ug/L	5.00	ND	85	70-130			
HEXACHLOROBUTADIENE	5.63		ug/L	5.00	ND	113	70-130			
ISOPROPYLBENZENE	4.92		ug/L	5.00	ND	98	70-130			
M/P-XYLENES	9.80		ug/L	10.0	ND	98	70-130			
METHYL-TERT-BUTYL ETHER	4.14		ug/L	5.00	ND	83	70-130			
NAPHTHALENE	4.56		ug/L	5.00	ND	91	70-130			
N-BUTYLBENZENE	5.01		ug/L	5.00	ND	100	70-130			
N-PROPYLBENZENE	4.96		ug/L	5.00	ND	99	70-130			
ORTHO-XYLENE	4.78		ug/L	5.00	ND	96	70-130			
SEC-BUTYLBENZENE	5.09		ug/L	5.00	ND	102	70-130			

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Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BH41506-MS1)		**Source: L140986-03**		Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
STYRENE	4.97		ug/L	5.00	ND	99	70-130			
TERT-BUTYLBENZENE	4.82		ug/L	5.00	ND	96	70-130			
TETRACHLOROETHENE	5.18		ug/L	5.00	ND	104	70-130			
TOLUENE	4.80		ug/L	5.00	ND	96	70-130			
TRANS-1,2-DICHLOROETHENE	4.95		ug/L	5.00	ND	99	70-130			
TRANS-1,3-DICHLOROPROPENE	4.00		ug/L	5.00	ND	80	70-130			
TRICHLOROETHENE	5.17		ug/L	5.00	ND	103	70-130			
TRICHLOROFLUOROMETHANE	5.32		ug/L	5.00	ND	106	70-130			
VINYL CHLORIDE	4.62		ug/L	5.00	ND	92	70-130			
Surrogate: 1,2-DICHLOROBENZENE-D4 (SURR.)	*5.09*		ug/L	*5.00*		*102*	*70-130*			
Surrogate: BROMOFLUOROBENZENE (SURR.)	*5.05*		ug/L	*5.00*		*101*	*70-130*			

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Environmental Compliance and Regulatory Section	Project: Well Investigation	
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Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Reference (BH41506-SRM1)				Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
1,1,1,2-TETRACHLOROETHANE	9.56		ug/L	10.0		96	70-130			
1,1,1-TRICHLOROETHANE	8.58		ug/L	10.0		86	70-130			
1,1,2,2-TETRACHLOROETHANE	10.6		ug/L	10.0		106	70-130			
1,1,2-TRICHLOROETHANE	9.92		ug/L	10.0		99	70-130			
1,1-DICHLOROETHANE	9.59		ug/L	10.0		96	70-130			
1,1-DICHLOROETHENE	9.73		ug/L	10.0		97	70-130			
1,1-DICHLOROPROPENE	10.4		ug/L	10.0		104	70-130			
1,2,3-TRICHLOROBENZENE	9.88		ug/L	10.0		99	70-130			
1,2,3-TRICHLOROPROPANE	10.1		ug/L	10.0		101	70-130			
1,2,4-TRICHLOROBENZENE	9.86		ug/L	10.0		99	70-130			
1,2,4-TRIMETHYLBENZENE	10.0		ug/L	10.0		100	70-130			
1,2-DIBROMO-3-CHLOROPROPANE	8.97		ug/L	10.0		90	70-130			
1,2-DICHLOROBENZENE	9.90		ug/L	10.0		99	70-130			
1,2-DICHLOROETHANE	9.90		ug/L	10.0		99	70-130			
1,2-DICHLOROPROPANE	9.76		ug/L	10.0		98	70-130			
1,3,5-TRIMETHYLBENZENE	9.74		ug/L	10.0		97	70-130			
1,3-DICHLOROBENZENE	10.0		ug/L	10.0		100	70-130			
1,3-DICHLOROPROPANE	10.2		ug/L	10.0		102	70-130			
1,4-DICHLOROBENZENE	10.4		ug/L	10.0		104	70-130			
2,2-DICHLOROPROPANE	8.60		ug/L	10.0		86	70-130			
2-CHLOROTOLUENE	9.96		ug/L	10.0		100	70-130			
4-CHLOROTOLUENE	9.97		ug/L	10.0		100	70-130			
4-ISOPROPYLTOLUENE	10.0		ug/L	10.0		100	70-130			
BENZENE	9.67		ug/L	10.0		97	70-130			
BROMOBENZENE	9.80		ug/L	10.0		98	70-130			

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Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Reference (BH41506-SRM1)				Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
BROMOCHLOROMETHANE	10.0		ug/L	10.0		100	70-130			
BROMODICHLOROMETHANE	9.83		ug/L	10.0		98	70-130			
BROMOFORM	9.82		ug/L	10.0		98	70-130			
BROMOMETHANE	11.2		ug/L	10.0		112	70-130			
CARBON TETRACHLORIDE	9.44		ug/L	10.0		94	70-130			
CHLOROBENZENE	9.72		ug/L	10.0		97	70-130			
CHLOROETHANE	10.3		ug/L	10.0		103	70-130			
CHLOROFORM	9.86		ug/L	10.0		99	70-130			
CHLOROMETHANE	9.51		ug/L	10.0		95	70-130			
CIS-1,2-DICHLOROETHENE	9.97		ug/L	10.0		100	70-130			
CIS-1,3-DICHLOROPROPENE	8.88		ug/L	10.0		89	70-130			
DIBROMOCHLOROMETHANE	9.63		ug/L	10.0		96	70-130			
DIBROMOMETHANE	10.2		ug/L	10.0		102	70-130			
DICHLORODIFLUOROMETHANE	9.22		ug/L	10.0		92	70-130			
DICHLOROMETHANE	9.55		ug/L	10.0		96	70-130			
ETHYLBENZENE	9.94		ug/L	10.0		99	70-130			
ETHYLENE DIBROMIDE	9.16		ug/L	10.0		92	70-130			
HEXACHLOROBUTADIENE	10.5		ug/L	10.0		105	70-130			
ISOPROPYLBENZENE	9.92		ug/L	10.0		99	70-130			
M/P-XYLENES	19.6		ug/L	20.0		98	70-130			
METHYL-TERT-BUTYL ETHER	8.83		ug/L	10.0		88	70-130			
NAPHTHALENE	10.1		ug/L	10.0		101	70-130			
N-BUTYLBENZENE	9.87		ug/L	10.0		99	70-130			
N-PROPYLBENZENE	9.92		ug/L	10.0		99	70-130			
ORTHO-XYLENE	9.74		ug/L	10.0		97	70-130			
SEC-BUTYLBENZENE	10.0		ug/L	10.0		100	70-130			

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Reference (BH41506-SRM1)				Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
STYRENE	10.2		ug/L	10.0		102	70-130			
TERT-BUTYLBENZENE	9.60		ug/L	10.0		96	70-130			
TETRACHLOROETHENE	9.96		ug/L	10.0		100	70-130			
TOLUENE	9.65		ug/L	10.0		96	70-130			
TRANS-1,2-DICHLOROETHENE	9.63		ug/L	10.0		96	70-130			
TRANS-1,3-DICHLOROPROPENE	8.63		ug/L	10.0		86	70-130			
TRICHLOROETHENE	9.94		ug/L	10.0		99	70-130			
TRICHLOROFLUOROMETHANE	10.2		ug/L	10.0		102	70-130			
VINYL CHLORIDE	8.69		ug/L	10.0		87	70-130			
Surrogate: 1,2-DICHLOROBENZENE-D4 (SURR.)	*5.26*		ug/L	*5.00*		*105*	*70-130*			
Surrogate: BROMOFLUOROBENZENE (SURR.)	*5.09*		ug/L	*5.00*		*102*	*70-130*			

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Reference (BH41506-SRM2)				Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
1,1,1,2-TETRACHLOROETHANE	4.84		ug/L	5.00		97	70-130			
1,1,1-TRICHLOROETHANE	4.27		ug/L	5.00		85	70-130			
1,1,2,2-TETRACHLOROETHANE	5.16		ug/L	5.00		103	70-130			
1,1,2-TRICHLOROETHANE	4.98		ug/L	5.00		100	70-130			
1,1-DICHLOROETHANE	4.79		ug/L	5.00		96	70-130			
1,1-DICHLOROETHENE	4.73		ug/L	5.00		95	70-130			
1,1-DICHLOROPROPENE	5.12		ug/L	5.00		102	70-130			
1,2,3-TRICHLOROBENZENE	4.86		ug/L	5.00		97	70-130			
1,2,3-TRICHLOROPROPANE	5.11		ug/L	5.00		102	70-130			
1,2,4-TRICHLOROBENZENE	4.80		ug/L	5.00		96	70-130			
1,2,4-TRIMETHYLBENZENE	4.77		ug/L	5.00		95	70-130			
1,2-DIBROMO-3-CHLOROPROPANE	4.29		ug/L	5.00		86	70-130			
1,2-DICHLOROBENZENE	4.91		ug/L	5.00		98	70-130			
1,2-DICHLOROETHANE	4.83		ug/L	5.00		97	70-130			
1,2-DICHLOROPROPANE	4.67		ug/L	5.00		93	70-130			
1,3,5-TRIMETHYLBENZENE	4.65		ug/L	5.00		93	70-130			
1,3-DICHLOROBENZENE	4.90		ug/L	5.00		98	70-130			
1,3-DICHLOROPROPANE	4.86		ug/L	5.00		97	70-130			
1,4-DICHLOROBENZENE	5.11		ug/L	5.00		102	70-130			
2,2-DICHLOROPROPANE	3.88		ug/L	5.00		78	70-130			
2-CHLOROTOLUENE	4.88		ug/L	5.00		98	70-130			
4-CHLOROTOLUENE	4.86		ug/L	5.00		97	70-130			
4-ISOPROPYLTOLUENE	4.74		ug/L	5.00		95	70-130			
BENZENE	4.81		ug/L	5.00		96	70-130			
BROMOBENZENE	4.98		ug/L	5.00		100	70-130			

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Reference (BH41506-SRM2)				Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
BROMOCHLOROMETHANE	4.98		ug/L	5.00		100	70-130			
BROMODICHLOROMETHANE	4.99		ug/L	5.00		100	70-130			
BROMOFORM	4.96		ug/L	5.00		99	70-130			
BROMOMETHANE	5.22		ug/L	5.00		104	70-130			
CARBON TETRACHLORIDE	4.93		ug/L	5.00		99	70-130			
CHLOROBENZENE	4.77		ug/L	5.00		95	70-130			
CHLOROETHANE	5.08		ug/L	5.00		102	70-130			
CHLOROFORM	4.85		ug/L	5.00		97	70-130			
CHLOROMETHANE	4.64		ug/L	5.00		93	70-130			
CIS-1,2-DICHLOROETHENE	5.03		ug/L	5.00		101	70-130			
CIS-1,3-DICHLOROPROPENE	4.17		ug/L	5.00		83	70-130			
DIBROMOCHLOROMETHANE	4.89		ug/L	5.00		98	70-130			
DIBROMOMETHANE	5.02		ug/L	5.00		100	70-130			
DICHLORODIFLUOROMETHANE	4.53		ug/L	5.00		91	70-130			
DICHLOROMETHANE	4.74		ug/L	5.00		95	70-130			
ETHYLBENZENE	4.75		ug/L	5.00		95	70-130			
ETHYLENE DIBROMIDE	4.45		ug/L	5.00		89	70-130			
HEXACHLOROBUTADIENE	5.11		ug/L	5.00		102	70-130			
ISOPROPYLBENZENE	4.85		ug/L	5.00		97	70-130			
M/P-XYLENES	9.47		ug/L	10.0		95	70-130			
METHYL-TERT-BUTYL ETHER	4.22		ug/L	5.00		84	70-130			
NAPHTHALENE	4.83		ug/L	5.00		97	70-130			
N-BUTYLBENZENE	4.68		ug/L	5.00		94	70-130			
N-PROPYLBENZENE	4.67		ug/L	5.00		93	70-130			
ORTHO-XYLENE	4.70		ug/L	5.00		94	70-130			
SEC-BUTYLBENZENE	4.86		ug/L	5.00		97	70-130			

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Volatile Organic Compounds by GC/MS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Reference (BH41506-SRM2)				Prepared & Analyzed: 08/14/2014						
Batch BH41506 - DEFAULT ORGANIC PREP										
STYRENE	5.00		ug/L	5.00		100	70-130			
TERT-BUTYLBENZENE	4.69		ug/L	5.00		94	70-130			
TETRACHLOROETHENE	4.95		ug/L	5.00		99	70-130			
TOLUENE	4.72		ug/L	5.00		94	70-130			
TRANS-1,2-DICHLOROETHENE	4.75		ug/L	5.00		95	70-130			
TRANS-1,3-DICHLOROPROPENE	4.11		ug/L	5.00		82	70-130			
TRICHLOROETHENE	4.95		ug/L	5.00		99	70-130			
TRICHLOROFLUOROMETHANE	4.94		ug/L	5.00		99	70-130			
VINYL CHLORIDE	4.38		ug/L	5.00		88	70-130			
Surrogate: 1,2-DICHLOROBENZENE-D4 (SURR.)	*5.12*		ug/L	*5.00*		*102*	*70-130*			
Surrogate: BROMOFLUOROBENZENE (SURR.)	*4.93*		ug/L	*5.00*		*99*	*70-130*			

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Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Certified Analyses included in this Report

Analyte	Certifications

Code	Description	Number	Expires

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Environmental Compliance and Regulatory Section	Project: Well Investigation	
4401 S. Tucson Estates Pkwy	Project Number: P01142	**Reported:**
Tucson AZ, 85735	Project Manager: Mohsen Belyani	10/16/2014 15:55

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			This is a modified report
			VERSION 6.12:2007
	VOA (I)524.2	(Aqueous)	RPD calculations based on %Recovery

Phoenix: L140986

TUCSON WATER CHAIN OF CUSTODY

LOGIN ID: L30233

CLIENT: TSD

PROJECT NAME/FREQUENCY:
Well Investigation
VOC Quarterly/Annual

PROJECT #: P01142

SAMPLING DATE: 8/14/14

SAMPLED BY:
print full name
MIKE METZINGER
signature

SAMPLE #	TIME	LOCATION	SITE	NUMBER OF CONTAINERS	ICP	ICP	ICP	ICP	ICP	ICPMS (Pb)	524.2 (HCl/Ascorbic Acid)	COMMENTS
				PRESERVATIVE	(HNO3)							
1	0.0.5.	~~C-046B~~		3							X	TB-08 8/14/14
2	0.0.5.	~~C-048B~~		3							X	TB-08 8/14/14
3	08:35	C-051B		3							X	TB-08
4	07:55	B-039B		3							X	TB-08
5	06:27	951V		4						X	X	TB-08
6	0.0.5.	~~C-124A~~		3							X	TB-08 8/14/14
7	07:55	C-125A		3							X	TB-08
8	06:27	Trip Blank	TWQL	2							X	Lot # 062614

	(Na2S2O3)		EEA
	(Unpreserved)		EEA
	(H2SO4)		EEA
	(NaS2O3/H2SO4)		EEA
	(Unpreserved)		EEA
	(Unpreserved)		EEA
	(Ascorbic Acid)		EEA
	(Na2S2O3)		EEA
	(Unpreserved)		EEA
	(Unpreserved)		EEA
	(Unpreserved)		EEA
	(Unpreserved)		EEA
	(H2SO4)		EEA
	(NaOH)		EEA
	(NaOH/Zinc Acetate)		EEA

COMMENTS:

SPECIAL TURNAROUND TIME:

	SIGNATURE	DATE/TIME		SIGNATURE	DATE/TIME
RELINQUISHED BY:		8/14/14 09:26	RECEIVED BY:		08/14/14 0942
RELINQUISHED BY:			RECEIVED BY:		

RECEIVING TEMPERATURE= 2.6°C

Northern California
ACCUTEST LABORATORIES

08/05/14

Technical Report for

City of Tucson Environmental Services

COT: Broadway & Pantano

PO1154

Accutest Job Number: C35259

Sampling Date: 07/28/14

Report to:

City of Tucson - Env.Services
4400 S. Park Ave., Bldg 1 P.O. Box 27210
Tucson, AZ 85726
lori.ehman@tucsonaz.gov

ATTN: Lori Ehman

Total number of pages in report: **29**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Elvin Kumar 408-588-0200

Certifications: OR (CA300006) CA (08258CA) CA (ELAP 2910) AZ (AZ0762) DoD ELAP (L-A-B L2242)

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Accutest Laboratories

Sample Summary

City of Tucson Environmental Services

Job No: C35259

COT: Broadway & Pantano
Project No: PO1154

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C35259-1	07/28/14	07:40	GB	07/29/14	AQ	Ground Water	WR-704A
C35259-2	07/28/14	07:45	GB	07/29/14	AQ	Ground Water	WR-704A(DUP)
C35259-3	07/28/14	00:00	GB	07/29/14	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	City of Tucson Environmental Services	**Job No**	C35259
Site:	COT: Broadway & Pantano	**Report Date**	8/5/2014 8:25:32 PM

2 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 07/28/2014 and were received at Accutest on 07/29/2014 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of C35259. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VQ956

- Sample(s) C35103-4MS, C35103-4MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VQ958

- Sample(s) C35103-12MS, C35103-12MSD were used as the QC samples indicated.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C35259
Account: City of Tucson Environmental Services
Project: COT: Broadway & Pantano
Collected: 07/28/14

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C35259-1	**WR-704A**					
Dichlorodifluoromethane		3.8	0.50		ug/l	SW846 8260B
Tetrachloroethylene		6.5	0.50		ug/l	SW846 8260B
Trichloroethylene		0.56	0.50		ug/l	SW846 8260B
Trichlorofluoromethane		0.54	0.50		ug/l	SW846 8260B
C35259-2	**WR-704A(DUP)**					
Dichlorodifluoromethane		4.3	0.50		ug/l	SW846 8260B
Tetrachloroethylene		6.5	0.50		ug/l	SW846 8260B
Trichloroethylene		0.55	0.50		ug/l	SW846 8260B
Trichlorofluoromethane		0.60	0.50		ug/l	SW846 8260B
C35259-3	**TRIP BLANK**					

No hits reported in this sample.

Northern California ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WR-704A		
Lab Sample ID:	C35259-1	**Date Sampled:**	07/28/14
Matrix:	AQ - Ground Water	**Date Received:**	07/29/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q22883.D	1	07/30/14	RD	n/a	n/a	VQ956
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	3.8	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-704A		
Lab Sample ID:	C35259-1	**Date Sampled:**	07/28/14
Matrix:	AQ - Ground Water	**Date Received:**	07/29/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	6.5	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	0.56	0.50	ug/l	
75-69-4	Trichlorofluoromethane	0.54	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-130%
2037-26-5	Toluene-D8	107%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-704A(DUP)		
Lab Sample ID:	C35259-2	**Date Sampled:**	07/28/14
Matrix:	AQ - Ground Water	**Date Received:**	07/29/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q22908.D	1	07/31/14	RD	n/a	n/a	VQ958
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	4.3	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-704A(DUP)		
Lab Sample ID:	C35259-2	**Date Sampled:**	07/28/14
Matrix:	AQ - Ground Water	**Date Received:**	07/29/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	6.5	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	0.55	0.50	ug/l	
75-69-4	Trichlorofluoromethane	0.60	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%
2037-26-5	Toluene-D8	107%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C35259-3	**Date Sampled:**	07/28/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/29/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q22884.D	1	07/30/14	RD	n/a	n/a	VQ956
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C35259-3	**Date Sampled:**	07/28/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/29/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
2037-26-5	Toluene-D8	108%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Northern California ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

PHOENIX

ACCUTEST® LABORATORIES

CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # 8034103429 0
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C 35259

Client / Reporting Information

Company Name: City of Tucson
Address: P.O. Box 27210
City: Tucson State: AZ Zip: 85726
Project Contact: Lori Ehman
Phone #: 520 791 3175
Samplers's Name: G. Bejarano

Project Information

Project Name: Broadway
Street
City State
Project #: P01154
EMAIL:
Client Purchase Order #

Requested Analysis: 8260 VOC

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; Oil-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	8260 VOC	LAB USE ONLY
1	WR-704A	7/28/14	0740	GB	GW	3									X	
2	WR-704A (dup)	7/28/14	0745	GB	GW	3									X	
3	TRIP BLANK					3									X	

Turnaround Time (Business days)

Approved By:/ Date:
- 10 Day
- 5 Day
- 3 Day
- 2 Day
- 1 Day
- Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- Commercial "A" - Results only
- Commercial "B" - Results with QC summaries
- Commerical "B+" - Results, QC, and chromatograms
- FULT1 - Level 4 data package
- EDF for Geotracker EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time	Received By:	Relinquished By:	Date Time:	Received By:
1 G Bejarano	7/28/14 1103	1 [signature]	2 [signature]	7/28/14 12:00	2 Fedex
Relinquished by: 3 Fedex	Date Time: 7/29/14 0833	Received By: 3 [signature]	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # Y	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N	Headspace Y / N; Separate Receiving Check List used: Y / N; On Ice Y / N; Cooler Temp. 3.5-0.3=3.2 oC

5.1 5

C35259: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C35259 **Client:** CITY OF TUCSON **Project:** BROADWAY

Date / Time Received: 7/29/2014 **Delivery Method:** FedEx **Airbill #'s:** 803401034290

Cooler Temps (Initial/Adjusted): #1: (3.5/3.2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:408.588.0200

2105 Lundy Avenue
F: 408.588.0201

San Jose, CA 95131
www/accutest.com

C35259: Chain of Custody
Page 2 of 2

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ956-MB	Q22875.D	1	07/30/14	RD	n/a	n/a	VQ956

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-1, C35259-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ956-MB	Q22875.D	1	07/30/14	RD	n/a	n/a	VQ956

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-1, C35259-3

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
2037-26-5	Toluene-D8	108%	70-130%
460-00-4	4-Bromofluorobenzene	97%	70-130%

Method Blank Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ958-MB	Q22900.D	1	07/31/14	RD	n/a	n/a	VQ958

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ958-MB	Q22900.D	1	07/31/14	RD	n/a	n/a	VQ958

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	70-130%
2037-26-5	Toluene-D8	106%	70-130%
460-00-4	4-Bromofluorobenzene	95%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ956-BS	Q22872.D	1	07/30/14	RD	n/a	n/a	VQ956
VQ956-BSD	Q22873.D	1	07/30/14	RD	n/a	n/a	VQ956

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-1, C35259-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	81.8	102	78.9	99	4	38-159/24
71-43-2	Benzene	20	18.6	93	18.2	91	2	77-122/25
108-86-1	Bromobenzene	20	19.2	96	19.0	95	1	76-126/17
74-97-5	Bromochloromethane	20	18.8	94	17.9	90	5	77-130/17
75-27-4	Bromodichloromethane	20	18.0	90	17.4	87	3	75-127/16
75-25-2	Bromoform	20	17.3	87	17.0	85	2	69-141/17
104-51-8	n-Butylbenzene	20	18.6	93	18.6	93	0	72-129/18
135-98-8	sec-Butylbenzene	20	18.3	92	18.5	93	1	74-128/18
98-06-6	tert-Butylbenzene	20	18.0	90	18.2	91	1	73-127/18
108-90-7	Chlorobenzene	20	18.7	94	18.7	94	0	77-122/16
75-00-3	Chloroethane	20	17.6	88	17.4	87	1	69-133/18
67-66-3	Chloroform	20	18.4	92	17.7	89	4	74-126/17
95-49-8	o-Chlorotoluene	20	20.2	101	20.1	101	0	72-127/20
106-43-4	p-Chlorotoluene	20	20.1	101	20.2	101	0	68-127/18
75-15-0	Carbon disulfide	20	15.9	80	15.8	79	1	56-137/19
56-23-5	Carbon tetrachloride	20	18.9	95	19.0	95	1	71-133/19
75-34-3	1,1-Dichloroethane	20	17.7	89	17.2	86	3	71-125/17
75-35-4	1,1-Dichloroethylene	20	18.3	92	18.3	92	0	66-125/20
563-58-6	1,1-Dichloropropene	20	19.9	100	20.0	100	1	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	18.6	93	18.9	95	2	65-131/20
106-93-4	1,2-Dibromoethane	20	19.6	98	19.5	98	1	75-135/17
107-06-2	1,2-Dichloroethane	20	18.2	91	17.6	88	3	71-131/17
78-87-5	1,2-Dichloropropane	20	18.3	92	17.9	90	2	78-124/16
142-28-9	1,3-Dichloropropane	20	18.4	92	18.3	92	1	78-123/16
594-20-7	2,2-Dichloropropane	20	19.2	96	18.7	94	3	70-131/19
124-48-1	Dibromochloromethane	20	19.3	97	19.2	96	1	76-132/16
75-71-8	Dichlorodifluoromethane	20	19.7	99	19.4	97	2	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	18.9	95	18.4	92	3	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	20.8	104	20.4	102	2	72-130/16
541-73-1	m-Dichlorobenzene	20	19.1	96	18.9	95	1	75-124/16
95-50-1	o-Dichlorobenzene	20	18.7	94	18.5	93	1	76-124/16
106-46-7	p-Dichlorobenzene	20	18.2	91	18.0	90	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	18.4	92	17.9	90	3	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	19.1	96	18.9	95	1	71-126/16
100-41-4	Ethylbenzene	20	19.3	97	19.2	96	1	76-126/17
591-78-6	2-Hexanone	80	82.5	103	82.3	103	0	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ956-BS	Q22872.D	1	07/30/14	RD	n/a	n/a	VQ956
VQ956-BSD	Q22873.D	1	07/30/14	RD	n/a	n/a	VQ956

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-1, C35259-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	15.1	76	15.7	79	4	69-135/20
98-82-8	Isopropylbenzene	20	18.4	92	18.4	92	0	61-125/17
99-87-6	p-Isopropyltoluene	20	17.3	87	17.5	88	1	68-127/18
108-10-1	4-Methyl-2-pentanone	80	72.7	91	72.3	90	1	71-142/21
74-83-9	Methyl bromide	20	16.1	81	16.0	80	1	68-132/18
74-87-3	Methyl chloride	20	17.1	86	18.1	91	6	39-150/28
74-95-3	Methylene bromide	20	18.6	93	18.2	91	2	77-127/16
75-09-2	Methylene chloride	20	19.8	99	18.6	93	6	67-128/18
78-93-3	Methyl ethyl ketone	80	86.2	108	83.5	104	3	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	19.7	99	19.3	97	2	73-132/17
91-20-3	Naphthalene	20	17.5	88	17.9	90	2	70-136/20
103-65-1	n-Propylbenzene	20	20.7	104	20.9	105	1	71-127/17
100-42-5	Styrene	20	16.9	85	16.7	84	1	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	18.6	93	18.4	92	1	77-130/16
71-55-6	1,1,1-Trichloroethane	20	18.9	95	18.7	94	1	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	18.6	93	18.6	93	0	77-129/17
79-00-5	1,1,2-Trichloroethane	20	18.4	92	18.2	91	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	15.9	80	16.1	81	1	70-133/18
96-18-4	1,2,3-Trichloropropane	20	19.7	99	19.5	98	1	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	15.8	79	16.1	81	2	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	17.8	89	17.7	89	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	18.6	93	18.7	94	1	77-129/17
127-18-4	Tetrachloroethylene	20	18.9	95	19.0	95	1	69-127/20
108-88-3	Toluene	20	19.0	95	19.1	96	1	75-122/17
79-01-6	Trichloroethylene	20	18.9	95	18.6	93	2	78-123/17
75-69-4	Trichlorofluoromethane	20	19.1	96	19.4	97	2	65-136/23
75-01-4	Vinyl chloride	20	17.2	86	17.0	85	1	57-146/22
1330-20-7	Xylene (total)	60	55.5	93	55.2	92	1	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	98%	70-130%
2037-26-5	Toluene-D8	105%	106%	70-130%
460-00-4	4-Bromofluorobenzene	106%	105%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ958-BS	Q22897.D	1	07/31/14	RD	n/a	n/a	VQ958
VQ958-BSD	Q22898.D	1	07/31/14	RD	n/a	n/a	VQ958

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	87.2	109	84.2	105	4	38-159/24
71-43-2	Benzene	20	18.9	95	18.9	95	0	77-122/25
108-86-1	Bromobenzene	20	19.3	97	19.6	98	2	76-126/17
74-97-5	Bromochloromethane	20	19.7	99	18.9	95	4	77-130/17
75-27-4	Bromodichloromethane	20	18.5	93	18.2	91	2	75-127/16
75-25-2	Bromoform	20	17.2	86	17.2	86	0	69-141/17
104-51-8	n-Butylbenzene	20	18.7	94	19.2	96	3	72-129/18
135-98-8	sec-Butylbenzene	20	18.3	92	18.9	95	3	74-128/18
98-06-6	tert-Butylbenzene	20	18.1	91	18.5	93	2	73-127/18
108-90-7	Chlorobenzene	20	18.8	94	19.1	96	2	77-122/16
75-00-3	Chloroethane	20	18.6	93	18.2	91	2	69-133/18
67-66-3	Chloroform	20	19.8	99	19.0	95	4	74-126/17
95-49-8	o-Chlorotoluene	20	20.7	104	20.7	104	0	72-127/20
106-43-4	p-Chlorotoluene	20	21.0	105	21.1	106	0	68-127/18
75-15-0	Carbon disulfide	20	16.7	84	16.7	84	0	56-137/19
56-23-5	Carbon tetrachloride	20	19.3	97	20.0	100	4	71-133/19
75-34-3	1,1-Dichloroethane	20	19.1	96	18.3	92	4	71-125/17
75-35-4	1,1-Dichloroethylene	20	18.8	94	18.8	94	0	66-125/20
563-58-6	1,1-Dichloropropene	20	20.2	101	20.8	104	3	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	19.6	98	19.4	97	1	65-131/20
106-93-4	1,2-Dibromoethane	20	19.9	100	19.8	99	1	75-135/17
107-06-2	1,2-Dichloroethane	20	19.1	96	18.7	94	2	71-131/17
78-87-5	1,2-Dichloropropane	20	19.0	95	18.8	94	1	78-124/16
142-28-9	1,3-Dichloropropane	20	18.9	95	18.8	94	1	78-123/16
594-20-7	2,2-Dichloropropane	20	20.3	102	19.8	99	2	70-131/19
124-48-1	Dibromochloromethane	20	19.5	98	19.4	97	1	76-132/16
75-71-8	Dichlorodifluoromethane	20	20.4	102	20.8	104	2	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	20.1	101	19.4	97	4	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	21.4	107	21.1	106	1	72-130/16
541-73-1	m-Dichlorobenzene	20	19.3	97	19.3	97	0	75-124/16
95-50-1	o-Dichlorobenzene	20	19.1	96	19.1	96	0	76-124/16
106-46-7	p-Dichlorobenzene	20	18.5	93	18.5	93	0	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	19.2	96	19.1	96	1	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	19.3	97	19.4	97	1	71-126/16
100-41-4	Ethylbenzene	20	19.4	97	19.8	99	2	76-126/17
591-78-6	2-Hexanone	80	86.9	109	85.2	107	2	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ958-BS	Q22897.D	1	07/31/14	RD	n/a	n/a	VQ958
VQ958-BSD	Q22898.D	1	07/31/14	RD	n/a	n/a	VQ958

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	15.5	78	16.2	81	4	69-135/20
98-82-8	Isopropylbenzene	20	18.4	92	18.7	94	2	61-125/17
99-87-6	p-Isopropyltoluene	20	17.3	87	17.7	89	2	68-127/18
108-10-1	4-Methyl-2-pentanone	80	74.5	93	73.3	92	2	71-142/21
74-83-9	Methyl bromide	20	17.2	86	16.6	83	4	68-132/18
74-87-3	Methyl chloride	20	19.0	95	19.6	98	3	39-150/28
74-95-3	Methylene bromide	20	19.5	98	18.9	95	3	77-127/16
75-09-2	Methylene chloride	20	20.5	103	19.7	99	4	67-128/18
78-93-3	Methyl ethyl ketone	80	92.9	116	87.9	110	6	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	21.4	107	20.3	102	5	73-132/17
91-20-3	Naphthalene	20	18.0	90	18.1	91	1	70-136/20
103-65-1	n-Propylbenzene	20	20.9	105	21.6	108	3	71-127/17
100-42-5	Styrene	20	17.0	85	17.0	85	0	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	18.6	93	18.8	94	1	77-130/16
71-55-6	1,1,1-Trichloroethane	20	20.1	101	20.0	100	0	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	19.6	98	19.5	98	1	77-129/17
79-00-5	1,1,2-Trichloroethane	20	19.0	95	18.9	95	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	15.8	79	16.1	81	2	70-133/18
96-18-4	1,2,3-Trichloropropane	20	20.0	100	19.8	99	1	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	15.8	79	16.1	81	2	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	18.2	91	18.3	92	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	18.8	94	19.1	96	2	77-129/17
127-18-4	Tetrachloroethylene	20	18.3	92	19.2	96	5	69-127/20
108-88-3	Toluene	20	19.1	96	19.5	98	2	75-122/17
79-01-6	Trichloroethylene	20	19.1	96	19.3	97	1	78-123/17
75-69-4	Trichlorofluoromethane	20	19.6	98	20.0	100	2	65-136/23
75-01-4	Vinyl chloride	20	17.5	88	17.4	87	1	57-146/22
1330-20-7	Xylene (total)	60	55.4	92	56.4	94	2	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	105%	101%	70-130%
2037-26-5	Toluene-D8	104%	106%	70-130%
460-00-4	4-Bromofluorobenzene	107%	107%	70-130%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ958-LCS	Q22899.D	1	07/31/14	RD	n/a	n/a	VQ958

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-2

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
2037-26-5	Toluene-D8	108%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35103-4MS	Q22890.D	10	07/30/14	RD	n/a	n/a	VQ956
C35103-4MSD	Q22891.D	10	07/30/14	RD	n/a	n/a	VQ956
C35103-4	Q22882.D	10	07/30/14	RD	n/a	n/a	VQ956

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-1, C35259-3

CAS No.	Compound	C35103-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		800	863	108	800	919	115	6	38-159/24
71-43-2	Benzene	ND		200	199	100	200	197	99	1	77-122/16
108-86-1	Bromobenzene	ND		200	195	98	200	198	99	2	76-126/17
74-97-5	Bromochloromethane	ND		200	198	99	200	199	100	1	77-130/17
75-27-4	Bromodichloromethane	ND		200	186	93	200	186	93	0	75-127/16
75-25-2	Bromoform	ND		200	142	71	200	146	73	3	69-141/17
104-51-8	n-Butylbenzene	ND		200	188	94	200	192	96	2	72-129/18
135-98-8	sec-Butylbenzene	ND		200	186	93	200	188	94	1	74-128/18
98-06-6	tert-Butylbenzene	ND		200	184	92	200	186	93	1	73-127/18
108-90-7	Chlorobenzene	ND		200	194	97	200	191	96	2	77-122/16
75-00-3	Chloroethane	ND		200	190	95	200	196	98	3	69-133/18
67-66-3	Chloroform	ND		200	203	102	200	204	102	0	74-126/17
95-49-8	o-Chlorotoluene	ND		200	212	106	200	215	108	1	72-127/20
106-43-4	p-Chlorotoluene	ND		200	209	105	200	211	106	1	68-127/18
75-15-0	Carbon disulfide	ND		200	149	75	200	153	77	3	56-137/19
56-23-5	Carbon tetrachloride	ND		200	205	103	200	204	102	0	71-133/19
75-34-3	1,1-Dichloroethane	ND		200	198	99	200	199	100	1	71-125/17
75-35-4	1,1-Dichloroethylene	ND		200	196	98	200	201	101	3	66-125/20
563-58-6	1,1-Dichloropropene	ND		200	218	109	200	214	107	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		200	194	97	200	198	99	2	65-131/20
106-93-4	1,2-Dibromoethane	ND		200	200	100	200	201	101	0	75-135/17
107-06-2	1,2-Dichloroethane	ND		200	197	99	200	197	99	0	71-131/17
78-87-5	1,2-Dichloropropane	ND		200	197	99	200	197	99	0	78-124/16
142-28-9	1,3-Dichloropropane	ND		200	194	97	200	192	96	1	78-123/16
594-20-7	2,2-Dichloropropane	ND		200	200	100	200	196	98	2	70-131/19
124-48-1	Dibromochloromethane	ND		200	179	90	200	182	91	2	76-132/16
75-71-8	Dichlorodifluoromethane	ND		200	216	108	200	251	126	15	32-168/28
156-59-2	cis-1,2-Dichloroethylene	ND		200	206	103	200	207	104	0	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		200	201	101	200	207	104	3	72-130/16
541-73-1	m-Dichlorobenzene	ND		200	194	97	200	197	99	2	75-124/16
95-50-1	o-Dichlorobenzene	ND		200	193	97	200	195	98	1	76-124/16
106-46-7	p-Dichlorobenzene	ND		200	187	94	200	187	94	0	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		200	199	100	200	199	100	0	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		200	182	91	200	185	93	2	71-126/16
100-41-4	Ethylbenzene	ND		200	204	102	200	200	100	2	76-126/17
591-78-6	2-Hexanone	ND		800	867	108	800	880	110	1	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35103-4MS	Q22890.D	10	07/30/14	RD	n/a	n/a	VQ956
C35103-4MSD	Q22891.D	10	07/30/14	RD	n/a	n/a	VQ956
C35103-4	Q22882.D	10	07/30/14	RD	n/a	n/a	VQ956

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-1, C35259-3

CAS No.	Compound	C35103-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		200	140	70	200	151	76	8	69-135/20
98-82-8	Isopropylbenzene	ND		200	192	96	200	189	95	2	61-125/17
99-87-6	p-Isopropyltoluene	ND		200	173	87	200	176	88	2	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		800	728	91	800	748	94	3	71-142/21
74-83-9	Methyl bromide	ND		200	170	85	200	175	88	3	68-132/18
74-87-3	Methyl chloride	ND		200	206	103	200	201	101	2	39-150/28
74-95-3	Methylene bromide	ND		200	199	100	200	198	99	1	77-127/16
75-09-2	Methylene chloride	ND		200	215	108	200	215	108	0	67-128/18
78-93-3	Methyl ethyl ketone	ND		800	887	111	800	929	116	5	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		200	206	103	200	214	107	4	73-132/17
91-20-3	Naphthalene	ND		200	175	88	200	183	92	4	70-136/20
103-65-1	n-Propylbenzene	ND		200	214	107	200	216	108	1	71-127/17
100-42-5	Styrene	ND		200	173	87	200	171	86	1	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	ND		200	190	95	200	189	95	1	77-130/16
71-55-6	1,1,1-Trichloroethane	ND		200	215	108	200	215	108	0	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	194	97	200	200	100	3	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		200	195	98	200	193	97	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		200	153	77	200	163	82	6	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		200	176	88	200	182	91	3	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		200	151	76	200	160	80	6	68-129/17
95-63-6	1,2,4-Trimethylbenzene	ND		200	183	92	200	184	92	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	ND		200	190	95	200	192	96	1	77-129/17
127-18-4	Tetrachloroethylene	200		200	389	95	200	380	90	2	69-127/20
108-88-3	Toluene	ND		200	198	99	200	197	99	1	75-122/17
79-01-6	Trichloroethylene	211		200	421	105	200	411	100	2	78-123/17
75-69-4	Trichlorofluoromethane	ND		200	191	96	200	221	111	15	65-136/23
75-01-4	Vinyl chloride	ND		200	181	91	200	197	99	8	57-146/22
1330-20-7	Xylene (total)	ND		600	578	96	600	569	95	2	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C35103-4	Limits
1868-53-7	Dibromofluoromethane	107%	106%	107%	70-130%
2037-26-5	Toluene-D8	105%	104%	106%	70-130%
460-00-4	4-Bromofluorobenzene	107%	106%	94%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35103-12MS	Q22915.D	20	07/31/14	RD	n/a	n/a	VQ958
C35103-12MSD	Q22916.D	20	07/31/14	RD	n/a	n/a	VQ958
C35103-12	Q22904.D	20	07/31/14	RD	n/a	n/a	VQ958

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-2

CAS No.	Compound	C35103-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1600	1870	117	1600	1700	106	10	38-159/24
71-43-2	Benzene	ND		400	407	102	400	394	99	3	77-122/16
108-86-1	Bromobenzene	ND		400	416	104	400	409	102	2	76-126/17
74-97-5	Bromochloromethane	ND		400	418	105	400	395	99	6	77-130/17
75-27-4	Bromodichloromethane	ND		400	371	93	400	358	90	4	75-127/16
75-25-2	Bromoform	ND		400	283	71	400	281	70	1	69-141/17
104-51-8	n-Butylbenzene	ND		400	388	97	400	383	96	1	72-129/18
135-98-8	sec-Butylbenzene	ND		400	389	97	400	384	96	1	74-128/18
98-06-6	tert-Butylbenzene	ND		400	385	96	400	381	95	1	73-127/18
108-90-7	Chlorobenzene	ND		400	403	101	400	397	99	2	77-122/16
75-00-3	Chloroethane	ND		400	398	100	400	379	95	5	69-133/18
67-66-3	Chloroform	ND		400	413	103	400	394	99	5	74-126/17
95-49-8	o-Chlorotoluene	ND		400	440	110	400	435	109	1	72-127/20
106-43-4	p-Chlorotoluene	ND		400	432	108	400	428	107	1	68-127/18
75-15-0	Carbon disulfide	ND		400	292	73	400	269	67	8	56-137/19
56-23-5	Carbon tetrachloride	ND		400	426	107	400	400	100	6	71-133/19
75-34-3	1,1-Dichloroethane	ND		400	401	100	400	375	94	7	71-125/17
75-35-4	1,1-Dichloroethylene	ND		400	423	106	400	393	98	7	66-125/20
563-58-6	1,1-Dichloropropene	ND		400	451	113	400	429	107	5	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		400	395	99	400	380	95	4	65-131/20
106-93-4	1,2-Dibromoethane	ND		400	418	105	400	409	102	2	75-135/17
107-06-2	1,2-Dichloroethane	ND		400	399	100	400	383	96	4	71-131/17
78-87-5	1,2-Dichloropropane	ND		400	399	100	400	387	97	3	78-124/16
142-28-9	1,3-Dichloropropane	ND		400	393	98	400	389	97	1	78-123/16
594-20-7	2,2-Dichloropropane	ND		400	413	103	400	375	94	10	70-131/19
124-48-1	Dibromochloromethane	ND		400	361	90	400	357	89	1	76-132/16
75-71-8	Dichlorodifluoromethane	ND		400	441	110	400	399	100	10	32-168/28
156-59-2	cis-1,2-Dichloroethylene	ND		400	425	106	400	406	102	5	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		400	421	105	400	410	103	3	72-130/16
541-73-1	m-Dichlorobenzene	ND		400	405	101	400	399	100	1	75-124/16
95-50-1	o-Dichlorobenzene	ND		400	398	100	400	392	98	2	76-124/16
106-46-7	p-Dichlorobenzene	ND		400	386	97	400	382	96	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		400	415	104	400	394	99	5	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		400	379	95	400	375	94	1	71-126/16
100-41-4	Ethylbenzene	ND		400	418	105	400	408	102	2	76-126/17
591-78-6	2-Hexanone	ND		1600	1770	111	1600	1710	107	3	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35259
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35103-12MS	Q22915.D	20	07/31/14	RD	n/a	n/a	VQ958
C35103-12MSD	Q22916.D	20	07/31/14	RD	n/a	n/a	VQ958
C35103-12	Q22904.D	20	07/31/14	RD	n/a	n/a	VQ958

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35259-2

CAS No.	Compound	C35103-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		400	310	78	400	314	79	1	69-135/20
98-82-8	Isopropylbenzene	ND		400	390	98	400	381	95	2	61-125/17
99-87-6	p-Isopropyltoluene	ND		400	363	91	400	359	90	1	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		1600	1540	96	1600	1480	93	4	71-142/21
74-83-9	Methyl bromide	ND		400	366	92	400	350	88	4	68-132/18
74-87-3	Methyl chloride	ND		400	395	99	400	374	94	5	39-150/28
74-95-3	Methylene bromide	ND		400	406	102	400	391	98	4	77-127/16
75-09-2	Methylene chloride	95.2	J	400	438	86	400	418	81	5	67-128/18
78-93-3	Methyl ethyl ketone	ND		1600	1910	119	1600	1780	111	7	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		400	439	110	400	417	104	5	73-132/17
91-20-3	Naphthalene	ND		400	368	92	400	360	90	2	70-136/20
103-65-1	n-Propylbenzene	ND		400	450	113	400	441	110	2	71-127/17
100-42-5	Styrene	ND		400	353	88	400	348	87	1	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	ND		400	399	100	400	385	96	4	77-130/16
71-55-6	1,1,1-Trichloroethane	ND		400	437	109	400	405	101	8	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		400	405	101	400	397	99	2	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		400	397	99	400	393	98	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		400	322	81	400	325	81	1	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		400	375	94	400	367	92	2	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		400	324	81	400	326	82	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	ND		400	379	95	400	374	94	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	ND		400	396	99	400	393	98	1	77-129/17
127-18-4	Tetrachloroethylene	544		400	990	112	400	951	102	4	69-127/20
108-88-3	Toluene	ND		400	417	104	400	407	102	2	75-122/17
79-01-6	Trichloroethylene	124		400	548	106	400	528	101	4	78-123/17
75-69-4	Trichlorofluoromethane	ND		400	432	108	400	397	99	8	65-136/23
75-01-4	Vinyl chloride	ND		400	385	96	400	364	91	6	57-146/22
1330-20-7	Xylene (total)	ND		1200	1190	99	1200	1170	98	2	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C35103-12	Limits
1868-53-7	Dibromofluoromethane	103%	100%	111%	70-130%
2037-26-5	Toluene-D8	104%	105%	105%	70-130%
460-00-4	4-Bromofluorobenzene	105%	104%	94%	70-130%

* = Outside of Control Limits.

Northern California
ACCUTEST
LABORATORIES

09/04/14

Technical Report for

City of Tucson Environmental Services

COT: Broadway & Pantano

PO#:1154

Accutest Job Number: C35611

Sampling Date: 08/20/14

Report to:

City of Tucson - Env.Services
4400 S. Park Ave., Bldg 1 P.O. Box 27210
Tucson, AZ 85726
lori.ehman@tucsonaz.gov

ATTN: Lori Ehman

Total number of pages in report: **47**

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Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Elvin Kumar 408-588-0200

Certifications: OR (CA300006) CA (08258CA) CA (ELAP 2910) AZ (AZ0762) DoD ELAP (L-A-B L2242)

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Accutest Laboratories

Sample Summary

City of Tucson Environmental Services

Job No: C35611

COT: Broadway & Pantano
Project No: PO#:1154

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C35611-1	08/20/14	08:30	GB	08/22/14	AQ	Ground Water	WR-702A
C35611-2	08/20/14	09:05	GB	08/22/14	AQ	Ground Water	ADEQ-BP-16
C35611-3	08/20/14	09:45	GB	08/22/14	AQ	Ground Water	WR-179A
C35611-4	08/20/14	09:48	GB	08/22/14	AQ	Ground Water	WR-179ADUP
C35611-5	08/20/14	10:15	GB	08/22/14	AQ	Ground Water	ADEQ-SJ-02
C35611-6	08/20/14	10:45	GB	08/22/14	AQ	Ground Water	WR-354A
C35611-7	08/20/14	11:20	GB	08/22/14	AQ	Ground Water	WR-180A
C35611-8	08/20/14	11:55	GB	08/22/14	AQ	Ground Water	WR-703A
C35611-9	08/20/14	12:15	GB	08/22/14	AQ	Ground Water	WR-704A
C35611-10	08/20/14	00:00	GB	08/22/14	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	City of Tucson Environmental Services	**Job No**	C35611
Site:	COT: Broadway & Pantano	**Report Date**	9/4/2014 9:38:19 PM

9 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 08/20/2014 and were received at Accutest on 08/22/2014 properly preserved, at 4.4 Deg. C and intact. These Samples received an Accutest job number of C35611. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VR1063

- Sample(s) C35667-21MS, C35667-21MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VU850

- Sample(s) C35505-18MS, C35505-18MSD were used as the QC samples indicated.
- Sample(s) C35611-1, C35611-2, C35611-3, C35611-4, C35611-5, C35611-6, C35611-7, C35611-8, C35611-9, C35611-10 have for Dichlorodifluoromethane, Methyl chloride a CCV outside of control limits (biased high); not detected in samples.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C35611
Account: City of Tucson Environmental Services
Project: COT: Broadway & Pantano
Collected: 08/20/14

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C35611-1	**WR-702A**					
Dichlorodifluoromethane		1.3	0.50		ug/l	SW846 8260B
Tetrachloroethylene		2.2	0.50		ug/l	SW846 8260B
C35611-2	**ADEQ-BP-16**					
Bromodichloromethane		0.62	0.50		ug/l	SW846 8260B
Chloroform		8.9	0.50		ug/l	SW846 8260B
Dichlorodifluoromethane		0.81	0.50		ug/l	SW846 8260B
Tetrachloroethylene		1.5	0.50		ug/l	SW846 8260B
C35611-3	**WR-179A**					
No hits reported in this sample.						
C35611-4	**WR-179ADUP**					
No hits reported in this sample.						
C35611-5	**ADEQ-SJ-02**					
Tetrachloroethylene		5.9	0.50		ug/l	SW846 8260B
Trichloroethylene		1.2	0.50		ug/l	SW846 8260B
C35611-6	**WR-354A**					
No hits reported in this sample.						
C35611-7	**WR-180A**					
No hits reported in this sample.						
C35611-8	**WR-703A**					
No hits reported in this sample.						
C35611-9	**WR-704A**					
Dichlorodifluoromethane		3.3	0.50		ug/l	SW846 8260B
Tetrachloroethylene		6.1	0.50		ug/l	SW846 8260B
Trichloroethylene		0.60	0.50		ug/l	SW846 8260B
Trichlorofluoromethane		0.57	0.50		ug/l	SW846 8260B

Summary of Hits

Job Number: C35611
Account: City of Tucson Environmental Services
Project: COT: Broadway & Pantano
Collected: 08/20/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C35611-10	**TRIP BLANK**					

No hits reported in this sample.

Northern California ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WR-702A		
Lab Sample ID:	C35611-1	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21049.D	1	08/29/14	JC	n/a	n/a	VU850
Run #2	R28470.D	1	09/03/14	BD	n/a	n/a	VR1063

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.3 [a]	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-702A		
Lab Sample ID:	C35611-1	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [b]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	2.2	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	88%	70-130%
2037-26-5	Toluene-D8	109%	94%	70-130%
460-00-4	4-Bromofluorobenzene	101%	89%	70-130%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-702A		
Lab Sample ID:	C35611-1	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q

(b) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-16		
Lab Sample ID:	C35611-2	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21050.D	1	08/29/14	JC	n/a	n/a	VU850
Run #2	R28471.D	1	09/03/14	BD	n/a	n/a	VR1063

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	0.62	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	8.9	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	0.81 [a]	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-16		
Lab Sample ID:	C35611-2	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [b]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	1.5	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	88%	70-130%
2037-26-5	Toluene-D8	110%	95%	70-130%
460-00-4	4-Bromofluorobenzene	102%	89%	70-130%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-16		
Lab Sample ID:	C35611-2	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q

(b) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-179A		
Lab Sample ID:	C35611-3	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21051.D	1	08/29/14	JC	n/a	n/a	VU850
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-179A		
Lab Sample ID:	C35611-3	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [a]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	108%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-179ADUP		
Lab Sample ID:	C35611-4	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21052.D	1	08/29/14	JC	n/a	n/a	VU850
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-179ADUP		
Lab Sample ID:	C35611-4	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [a]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		70-130%
2037-26-5	Toluene-D8	108%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-SJ-02		
Lab Sample ID:	C35611-5	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21053.D	1	08/29/14	JC	n/a	n/a	VU850
Run #2	R28472.D	1	09/03/14	BD	n/a	n/a	VR1063

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND [a]	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-SJ-02		
Lab Sample ID:	C35611-5	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [b]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	5.9	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	1.2	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%	87%	70-130%
2037-26-5	Toluene-D8	109%	95%	70-130%
460-00-4	4-Bromofluorobenzene	102%	91%	70-130%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-SJ-02		
Lab Sample ID:	C35611-5	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q

(b) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-354A		
Lab Sample ID:	C35611-6	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21054.D	1	08/29/14	JC	n/a	n/a	VU850
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-354A		
Lab Sample ID:	C35611-6	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [a]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-180A		
Lab Sample ID:	C35611-7	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21055.D	1	08/29/14	JC	n/a	n/a	VU850
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-180A		
Lab Sample ID:	C35611-7	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [a]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%
2037-26-5	Toluene-D8	108%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-703A		
Lab Sample ID:	C35611-8	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21056.D	1	08/29/14	JC	n/a	n/a	VU850
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-703A		
Lab Sample ID:	C35611-8	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [a]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%
2037-26-5	Toluene-D8	109%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-704A		
Lab Sample ID:	C35611-9	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21057.D	1	08/29/14	JC	n/a	n/a	VU850
Run #2	R28473.D	1	09/03/14	BD	n/a	n/a	VR1063

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	3.3 [a]	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-704A		
Lab Sample ID:	C35611-9	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [b]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	6.1	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	0.60	0.50	ug/l	
75-69-4	Trichlorofluoromethane	0.57	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%	87%	70-130%
2037-26-5	Toluene-D8	112%	94%	70-130%
460-00-4	4-Bromofluorobenzene	101%	89%	70-130%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-704A		
Lab Sample ID:	C35611-9	**Date Sampled:**	08/20/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q

(b) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C35611-10	**Date Sampled:**	08/20/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21058.D	1	08/29/14	JC	n/a	n/a	VU850
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C35611-10	**Date Sampled:**	08/20/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [a]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%
2037-26-5	Toluene-D8	108%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Northern California ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Arizona Qualifiers
- Chain of Custody

Arizona Qualifiers

Job Number: C35611
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

The following Arizona qualifiers have been applied to data and/or QC in this report.

Qual	Description
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

PHOENIX

ACCUTEST® LABORATORIES

CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # 7099 0755 2977
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C35611

Client / Reporting Information

Company Name: City of Tucson
Address: P.O. BOX 27210
City: Tucson State: AZ Zip: 85726
Project Contact: Lori Ehman
Phone #: 520-791-3175
Samplers's Name: G Beyrouw

Project Information

Project Name: BROADWAY
Street:
City: State:
Project #: PO 1154
EMAIL:
Client Purchase Order #:

Requested Analysis: 8260D

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	8260D	LAB USE ONLY
1	WR-702A	8/20/14	0830	GB	GW	3									X	
2	ADEQ-BP-16	8/20/14	0905	GB	GW	3									X	
3	WR-179A	8/20/14	0945	GB	GW	3									X	
4	WR-179A dup	8/20/14	0948	GB	GW	3									X	
5	ADEQ-SJ-02	8/20/14	1015	GB	GW	3									X	
6	WR-354A	8/20/14	1045	GB	GW	3									X	
7	WR-180A	8/20/14	1120	GB	GW	3									X	
8	WR-703A	8/20/14	1155	GB	GW	3									X	
9	WR-704A	8/20/14	1215	GB	GW	3									X	
10	TRIP BLANK					3									X	

Turnaround Time (Business days)

Approved By:/ Date:

- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [ ] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 G Beyrouw	8/20/14	1 FEDEX	2 Fedex	8/22/14 0734	2 Marc Odra
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #		

Appropriate Bottle / Pres. Y / N Headspace Y / N On Ice Y / N Cooler Temp. 4.7-0.3=4.4 °C

Labels match Coc? Y / N Separate Receiving Check List used: Y / N

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C35611: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C35611 **Client:** CITY OF TUCSON **Project:** BROADWAY

Date / Time Received: 8/22/2014 **Delivery Method:** FedEx **Airbill #'s:** 709907552977

Cooler Temps (Initial/Adjusted): #1: (4.7/4.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:408.588.0200

2105 Lundy Avenue
F: 408.588.0201

San Jose, CA 95131
www/accutest.com

5.2

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C35611: Chain of Custody

Page 2 of 2

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C35611
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU850-MB	U21040.D	1	08/29/14	JC	n/a	n/a	VU850

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35611-1, C35611-2, C35611-3, C35611-4, C35611-5, C35611-6, C35611-7, C35611-8, C35611-9, C35611-10

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C35611
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU850-MB	U21040.D	1	08/29/14	JC	n/a	n/a	VU850

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35611-1, C35611-2, C35611-3, C35611-4, C35611-5, C35611-6, C35611-7, C35611-8, C35611-9, C35611-10

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	70-130%
2037-26-5	Toluene-D8	111%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

Method Blank Summary

Job Number: C35611
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1063-MB	R28463.D	1	09/03/14	BD	n/a	n/a	VR1063

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35611-1, C35611-2, C35611-5, C35611-9

CAS No.	Compound	Result	RL	Units	Q
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	84%	70-130%
2037-26-5	Toluene-D8	93%	70-130%
460-00-4	4-Bromofluorobenzene	88%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35611
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU850-BS	U21037.D	1	08/29/14	JC	n/a	n/a	VU850
VU850-BSD	U21038.D	1	08/29/14	JC	n/a	n/a	VU850

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35611-1, C35611-2, C35611-3, C35611-4, C35611-5, C35611-6, C35611-7, C35611-8, C35611-9, C35611-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	92.2	115	101	126	9	38-159/24
71-43-2	Benzene	20	20.7	104	22.8	114	10	77-122/25
108-86-1	Bromobenzene	20	20.4	102	22.5	113	10	76-126/17
74-97-5	Bromochloromethane	20	20.8	104	23.4	117	12	77-130/17
75-27-4	Bromodichloromethane	20	21.1	106	23.2	116	9	75-127/16
75-25-2	Bromoform	20	20.6	103	22.8	114	10	69-141/17
104-51-8	n-Butylbenzene	20	20.9	105	23.5	118	12	72-129/18
135-98-8	sec-Butylbenzene	20	21.9	110	24.8	124	12	74-128/18
98-06-6	tert-Butylbenzene	20	21.4	107	24.0	120	11	73-127/18
108-90-7	Chlorobenzene	20	20.6	103	22.6	113	9	77-122/16
75-00-3	Chloroethane	20	21.3	107	23.6	118	10	69-133/18
67-66-3	Chloroform	20	21.9	110	24.3	122	10	74-126/17
95-49-8	o-Chlorotoluene	20	22.6	113	25.4	127	12	72-127/20
106-43-4	p-Chlorotoluene	20	21.7	109	23.9	120	10	68-127/18
75-15-0	Carbon disulfide	20	18.8	94	20.8	104	10	56-137/19
56-23-5	Carbon tetrachloride	20	22.2	111	24.8	124	11	71-133/19
75-34-3	1,1-Dichloroethane	20	21.3	107	23.5	118	10	71-125/17
75-35-4	1,1-Dichloroethylene	20	20.6	103	23.1	116	11	66-125/20
563-58-6	1,1-Dichloropropene	20	22.0	110	24.5	123	11	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	22.7	114	25.7	129	12	65-131/20
106-93-4	1,2-Dibromoethane	20	20.8	104	22.8	114	9	75-135/17
107-06-2	1,2-Dichloroethane	20	21.6	108	23.5	118	8	71-131/17
78-87-5	1,2-Dichloropropane	20	21.4	107	23.5	118	9	78-124/16
142-28-9	1,3-Dichloropropane	20	20.7	104	22.8	114	10	78-123/16
594-20-7	2,2-Dichloropropane	20	19.9	100	22.3	112	11	70-131/19
124-48-1	Dibromochloromethane	20	20.4	102	22.5	113	10	76-132/16
75-71-8	Dichlorodifluoromethane	20	22.1	111	23.9	120	8	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	20.5	103	22.9	115	11	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	21.9	110	24.3	122	10	72-130/16
541-73-1	m-Dichlorobenzene	20	21.0	105	23.6	118	12	75-124/16
95-50-1	o-Dichlorobenzene	20	21.0	105	23.5	118	11	76-124/16
106-46-7	p-Dichlorobenzene	20	20.0	100	22.2	111	10	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	20.0	100	22.5	113	12	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	20.8	104	22.9	115	10	71-126/16
100-41-4	Ethylbenzene	20	20.9	105	23.0	115	10	76-126/17
591-78-6	2-Hexanone	80	99.4	124	107	134	7	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35611
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU850-BS	U21037.D	1	08/29/14	JC	n/a	n/a	VU850
VU850-BSD	U21038.D	1	08/29/14	JC	n/a	n/a	VU850

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35611-1, C35611-2, C35611-3, C35611-4, C35611-5, C35611-6, C35611-7, C35611-8, C35611-9, C35611-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	19.7	99	23.0	115	15	69-135/20
98-82-8	Isopropylbenzene	20	21.7	109	24.1	121	10	61-125/17
99-87-6	p-Isopropyltoluene	20	21.1	106	23.7	119	12	68-127/18
108-10-1	4-Methyl-2-pentanone	80	95.6	120	103	129	7	71-142/21
74-83-9	Methyl bromide	20	22.8	114	25.2	126	10	68-132/18
74-87-3	Methyl chloride	20	21.6	108	23.0	115	6	39-150/28
74-95-3	Methylene bromide	20	21.2	106	23.3	117	9	77-127/16
75-09-2	Methylene chloride	20	20.4	102	22.8	114	11	67-128/18
78-93-3	Methyl ethyl ketone	80	93.6	117	102	128	9	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	20.7	104	23.1	116	11	73-132/17
91-20-3	Naphthalene	20	21.2	106	25.3	127	18	70-136/20
103-65-1	n-Propylbenzene	20	21.8	109	24.5	123	12	71-127/17
100-42-5	Styrene	20	20.8	104	23.0	115	10	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	21.2	106	23.4	117	10	77-130/16
71-55-6	1,1,1-Trichloroethane	20	22.1	111	25.0	125	12	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	21.7	109	24.0	120	10	77-129/17
79-00-5	1,1,2-Trichloroethane	20	20.8	104	22.8	114	9	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	20.6	103	24.3	122	16	70-133/18
96-18-4	1,2,3-Trichloropropane	20	20.3	102	22.2	111	9	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	20.1	101	23.2	116	14	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	21.2	106	23.6	118	11	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	22.0	110	24.6	123	11	77-129/17
127-18-4	Tetrachloroethylene	20	19.0	95	21.5	108	12	69-127/20
108-88-3	Toluene	20	20.0	100	22.0	110	10	75-122/17
79-01-6	Trichloroethylene	20	20.4	102	22.7	114	11	78-123/17
75-69-4	Trichlorofluoromethane	20	23.2	116	26.2	131	12	65-136/23
75-01-4	Vinyl chloride	20	19.1	96	20.9	105	9	57-146/22
1330-20-7	Xylene (total)	60	62.7	105	69.3	116	10	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	112%	111%	70-130%
2037-26-5	Toluene-D8	107%	106%	70-130%
460-00-4	4-Bromofluorobenzene	109%	107%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35611
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1063-BS	R28460.D	1	09/03/14	BD	n/a	n/a	VR1063
VR1063-BSD	R28461.D	1	09/03/14	BD	n/a	n/a	VR1063

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35611-1, C35611-2, C35611-5, C35611-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
75-71-8	Dichlorodifluoromethane	20	18.8	94	17.9	90	5	32-168/28

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	97%	98%	70-130%
2037-26-5	Toluene-D8	91%	90%	70-130%
460-00-4	4-Bromofluorobenzene	92%	91%	70-130%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C35611
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU850-LCS	U21039.D	1	08/29/14	JC	n/a	n/a	VU850

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35611-1, C35611-2, C35611-3, C35611-4, C35611-5, C35611-6, C35611-7, C35611-8, C35611-9, C35611-10

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	108%	70-130%
2037-26-5	Toluene-D8	110%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35611
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35505-18MS	U21059.D	10	08/29/14	JC	n/a	n/a	VU850
C35505-18MSD	U21060.D	10	08/29/14	JC	n/a	n/a	VU850
C35505-18 [a]	U21048.D	10	08/29/14	JC	n/a	n/a	VU850

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35611-1, C35611-2, C35611-3, C35611-4, C35611-5, C35611-6, C35611-7, C35611-8, C35611-9, C35611-10

CAS No.	Compound	C35505-18 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		800	979	122	800	970	121	1	38-159/24
71-43-2	Benzene	487		200	669	91	200	666	90	0	77-122/16
108-86-1	Bromobenzene	ND		200	199	100	200	203	102	2	76-126/17
74-97-5	Bromochloromethane	ND		200	213	107	200	217	109	2	77-130/17
75-27-4	Bromodichloromethane	ND		200	202	101	200	207	104	2	75-127/16
75-25-2	Bromoform	ND		200	163	82	200	167	84	2	69-141/17
104-51-8	n-Butylbenzene	2.3	J	200	204	101	200	202	100	1	72-129/18
135-98-8	sec-Butylbenzene	ND		200	214	107	200	218	109	2	74-128/18
98-06-6	tert-Butylbenzene	ND		200	219	110	200	226	113	3	73-127/18
108-90-7	Chlorobenzene	ND		200	205	103	200	209	105	2	77-122/16
75-00-3	Chloroethane	ND		200	217	109	200	220	110	1	69-133/18
67-66-3	Chloroform	ND		200	226	113	200	229	115	1	74-126/17
95-49-8	o-Chlorotoluene	ND		200	224	112	200	228	114	2	72-127/20
106-43-4	p-Chlorotoluene	ND		200	213	107	200	216	108	1	68-127/18
75-15-0	Carbon disulfide	ND		200	141	71	200	153	77	8	56-137/19
56-23-5	Carbon tetrachloride	ND		200	213	107	200	221	111	4	71-133/19
75-34-3	1,1-Dichloroethane	ND		200	220	110	200	222	111	1	71-125/17
75-35-4	1,1-Dichloroethylene	ND		200	201	101	200	211	106	5	66-125/20
563-58-6	1,1-Dichloropropene	ND		200	214	107	200	220	110	3	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		200	231	116	200	232	116	0	65-131/20
106-93-4	1,2-Dibromoethane	ND		200	211	106	200	213	107	1	75-135/17
107-06-2	1,2-Dichloroethane	ND		200	224	112	200	225	113	0	71-131/17
78-87-5	1,2-Dichloropropane	ND		200	217	109	200	219	110	1	78-124/16
142-28-9	1,3-Dichloropropane	ND		200	212	106	200	214	107	1	78-123/16
594-20-7	2,2-Dichloropropane	ND		200	161	81	200	158	79	2	70-131/19
124-48-1	Dibromochloromethane	ND		200	180	90	200	186	93	3	76-132/16
75-71-8	Dichlorodifluoromethane	ND		200	231	116	200	214	107	8	32-168/28
156-59-2	cis-1,2-Dichloroethylene	ND		200	207	104	200	213	107	3	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		200	204	102	200	206	103	1	72-130/16
541-73-1	m-Dichlorobenzene	ND		200	207	104	200	209	105	1	75-124/16
95-50-1	o-Dichlorobenzene	ND		200	212	106	200	212	106	0	76-124/16
106-46-7	p-Dichlorobenzene	ND		200	197	99	200	199	100	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		200	199	100	200	205	103	3	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		200	196	98	200	195	98	1	71-126/16
100-41-4	Ethylbenzene	71.6		200	281	105	200	281	105	0	76-126/17
591-78-6	2-Hexanone	ND		800	1050	131	800	1020	128	3	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35611
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35505-18MS	U21059.D	10	08/29/14	JC	n/a	n/a	VU850
C35505-18MSD	U21060.D	10	08/29/14	JC	n/a	n/a	VU850
C35505-18 [a]	U21048.D	10	08/29/14	JC	n/a	n/a	VU850

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35611-1, C35611-2, C35611-3, C35611-4, C35611-5, C35611-6, C35611-7, C35611-8, C35611-9, C35611-10

CAS No.	Compound	C35505-18 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		200	190	95	200	194	97	2	69-135/20
98-82-8	Isopropylbenzene	10.7		200	228	109	200	228	109	0	61-125/17
99-87-6	p-Isopropyltoluene	ND		200	204	102	200	206	103	1	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		800	986	123	800	969	121	2	71-142/21
74-83-9	Methyl bromide	ND		200	224	112	200	227	114	1	68-132/18
74-87-3	Methyl chloride	ND		200	231	116	200	211	106	9	39-150/28
74-95-3	Methylene bromide	ND		200	218	109	200	219	110	0	77-127/16
75-09-2	Methylene chloride	ND		200	209	105	200	212	106	1	67-128/18
78-93-3	Methyl ethyl ketone	ND		800	953	119	800	964	121	1	56-155/23
1634-04-4	Methyl Tert Butyl Ether	115		200	332	109	200	341	113	3	73-132/17
91-20-3	Naphthalene	6.9	J	200	220	107	200	233	113	6	70-136/20
103-65-1	n-Propylbenzene	19.3	J	200	230	105	200	234	107	2	71-127/17
100-42-5	Styrene	ND		200	209	105	200	208	104	0	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	ND		200	213	107	200	217	109	2	77-130/16
71-55-6	1,1,1-Trichloroethane	ND		200	227	114	200	232	116	2	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	218	109	200	222	111	2	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		200	214	107	200	214	107	0	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		200	204	102	200	213	107	4	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		200	198	99	200	191	96	4	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		200	202	101	200	200	100	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	54.0		200	267	107	200	268	107	0	74-129/17
108-67-8	1,3,5-Trimethylbenzene	12.7	J	200	241	114	200	247	117	2	77-129/17
127-18-4	Tetrachloroethylene	ND		200	179	90	200	180	90	1	69-127/20
108-88-3	Toluene	26.2		200	222	98	200	226	100	2	75-122/17
79-01-6	Trichloroethylene	ND		200	204	102	200	207	104	1	78-123/17
75-69-4	Trichlorofluoromethane	ND		200	234	117	200	232	116	1	65-136/23
75-01-4	Vinyl chloride	ND		200	201	101	200	193	97	4	57-146/22
1330-20-7	Xylene (total)	71.8		600	702	105	600	704	105	0	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C35505-18	Limits
1868-53-7	Dibromofluoromethane	117%	116%	111%	70-130%
2037-26-5	Toluene-D8	107%	107%	110%	70-130%
460-00-4	4-Bromofluorobenzene	112%	109%	107%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35611
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35505-18MS	U21059.D	10	08/29/14	JC	n/a	n/a	VU850
C35505-18MSD	U21060.D	10	08/29/14	JC	n/a	n/a	VU850
C35505-18 [a]	U21048.D	10	08/29/14	JC	n/a	n/a	VU850

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35611-1, C35611-2, C35611-3, C35611-4, C35611-5, C35611-6, C35611-7, C35611-8, C35611-9, C35611-10

(a) Sample analyzed past hold-time due to need for reanalysis; originally analyzed within hold-time.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35611
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35667-21MS	R28483.D	1	09/03/14	BD	n/a	n/a	VR1063
C35667-21MSD	R28484.D	1	09/03/14	BD	n/a	n/a	VR1063
C35667-21	R28482.D	1	09/03/14	BD	n/a	n/a	VR1063

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35611-1, C35611-2, C35611-5, C35611-9

CAS No.	Compound	C35667-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-71-8	Dichlorodifluoromethane	1.0	U	20	15.2	76	20	15.3	77	1	32-168/28

CAS No.	Surrogate Recoveries	MS	MSD	C35667-21	Limits
1868-53-7	Dibromofluoromethane	92%	92%	86%	70-130%
2037-26-5	Toluene-D8	94%	93%	94%	70-130%
460-00-4	4-Bromofluorobenzene	93%	93%	92%	70-130%

* = Outside of Control Limits.

Northern California
ACCUTEST
LABORATORIES

09/04/14

Technical Report for

City of Tucson Environmental Services

COT: Broadway & Pantano

PO#:1154

Accutest Job Number: C35612

Sampling Date: 08/21/14

Report to:

City of Tucson - Env.Services
4400 S. Park Ave., Bldg 1 P.O. Box 27210
Tucson, AZ 85726
lori.ehman@tucsonaz.gov

ATTN: Lori Ehman

Total number of pages in report: **50**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Elvin Kumar 408-588-0200

Certifications: OR (CA300006) CA (08258CA) CA (ELAP 2910) AZ (AZ0762) DoD ELAP (L-A-B L2242)

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Accutest Laboratories

Sample Summary

City of Tucson Environmental Services

Job No: C35612

COT: Broadway & Pantano
Project No: PO#:1154

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C35612-1	08/21/14	07:10	GB	08/22/14	AQ	Ground Water	ADEQ-SJ-01
C35612-2	08/21/14	07:40	GB	08/22/14	AQ	Ground Water	WR-178A
C35612-3	08/21/14	07:55	GB	08/22/14	AQ	Ground Water	WR-352A
C35612-4	08/21/14	08:25	GB	08/22/14	AQ	Ground Water	ADEQ-BP-05
C35612-5	08/21/14	09:00	GB	08/22/14	AQ	Ground Water	ADEQ-BP-02
C35612-6	08/21/14	09:30	GB	08/22/14	AQ	Ground Water	ADEQ-BP-04
C35612-7	08/21/14	09:50	GB	08/22/14	AQ	Ground Water	ADEQ-BP-03
C35612-8	08/21/14	10:10	GB	08/22/14	AQ	Ground Water	ADEQ-BP-21
C35612-9	08/21/14	00:00	GB	08/22/14	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	City of Tucson Environmental Services	**Job No**	C35612
Site:	COT: Broadway & Pantano	**Report Date**	9/4/2014 9:34:44 PM

8 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 08/21/2014 and were received at Accutest on 08/22/2014 properly preserved, at 4.4 Deg. C and intact. These Samples received an Accutest job number of C35612. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VQ981

- Sample(s) C35607-4MS, C35607-4MSD were used as the QC samples indicated.
- Sample(s) C35612-2, C35612-3, C35612-4, C35612-5 have for Dichlorodifluoromethane a CCV outside of control limits (biased high); not detected in samples.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3,5-Trimethylbenzene, 1,3-Dichloropropane, Bromodichloromethane, Carbon tetrachloride, Chloroform, Ethylbenzene, Methylene bromide, Naphthalene, p-Isopropyltoluene, Styrene, Toluene, Xylene (total) are outside control limits. RPD for MSD for Styrene is outside control limits for sample C35607-4MSD. Surrogate recoveries for Toluene-D8 for C35607-4MS, C35607-4MSD are outside control limits. Probable cause due to matrix interference. The associated lab controls (blank spike and daily calibration check) had recoveries within control limits for these analytes. Additionally, the sample spiked for the MS/MSD was not one of the samples from this SDG/work order; therefore, there are no data quality issues that affect this sample set.

Matrix: AQ **Batch ID:** VR1060

- Sample(s) C35587-7MS, C35587-7MSD were used as the QC samples indicated.
- Sample(s) C35612-9 have for Dichlorodifluoromethane a CCV outside of control limits (biased high); not detected in sample.

Matrix: AQ **Batch ID:** VR1062

- Sample(s) C35667-1MS, C35667-1MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Styrene, Xylene (total) are outside control limits. Probable cause due to matrix interference. The associated lab controls (blank spike and daily calibration check) had recoveries within control limits for these analytes. Additionally, the sample spiked for the MS/MSD was not one of the samples from this SDG/work order; therefore, there are no data quality issues that affect this sample set.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C35612
Account: City of Tucson Environmental Services
Project: COT: Broadway & Pantano
Collected: 08/21/14

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C35612-1	**ADEQ-SJ-01**					
Dichlorodifluoromethane		0.64	0.50		ug/l	SW846 8260B
Tetrachloroethylene		3.3	0.50		ug/l	SW846 8260B
C35612-2	**WR-178A**					
Tetrachloroethylene		2.1	0.50		ug/l	SW846 8260B
C35612-3	**WR-352A**					
No hits reported in this sample.						
C35612-4	**ADEQ-BP-05**					
Acetone		24.3	20		ug/l	SW846 8260B
C35612-5	**ADEQ-BP-02**					
Acetone		21.5	20		ug/l	SW846 8260B
C35612-6	**ADEQ-BP-04**					
No hits reported in this sample.						
C35612-7	**ADEQ-BP-03**					
No hits reported in this sample.						
C35612-8	**ADEQ-BP-21**					
Dichlorodifluoromethane		0.62	0.50		ug/l	SW846 8260B
C35612-9	**TRIP BLANK**					
No hits reported in this sample.						

Northern California ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	ADEQ-SJ-01		
Lab Sample ID:	C35612-1	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R28432.D	1	09/02/14	BD	n/a	n/a	VR1062
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	0.64	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-SJ-01		
Lab Sample ID:	C35612-1	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	3.3	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%
2037-26-5	Toluene-D8	92%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-178A		
Lab Sample ID:	C35612-2	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q23449.D	1	08/31/14	TN	n/a	n/a	VQ981
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-178A		
Lab Sample ID:	C35612-2	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	2.1	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	94%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-352A		
Lab Sample ID:	C35612-3	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q23450.D	1	08/31/14	TN	n/a	n/a	VQ981
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-352A		
Lab Sample ID:	C35612-3	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-05		
Lab Sample ID:	C35612-4	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q23451.D	1	08/31/14	TN	n/a	n/a	VQ981
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	24.3	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-05		
Lab Sample ID:	C35612-4	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	94%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-02		
Lab Sample ID:	C35612-5	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q23452.D	1	08/31/14	TN	n/a	n/a	VQ981
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	21.5	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-02		
Lab Sample ID:	C35612-5	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	94%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-04		
Lab Sample ID:	C35612-6	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R28433.D	1	09/02/14	BD	n/a	n/a	VR1062
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-04		
Lab Sample ID:	C35612-6	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	89%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-03		
Lab Sample ID:	C35612-7	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R28434.D	1	09/02/14	BD	n/a	n/a	VR1062
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-03		
Lab Sample ID:	C35612-7	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-21		
Lab Sample ID:	C35612-8	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R28435.D	1	09/02/14	BD	n/a	n/a	VR1062
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	0.62	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ADEQ-BP-21		
Lab Sample ID:	C35612-8	**Date Sampled:**	08/21/14
Matrix:	AQ - Ground Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C35612-9	**Date Sampled:**	08/21/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R28396.D	1	08/31/14	TN	n/a	n/a	VR1060
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C35612-9	**Date Sampled:**	08/21/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	92%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Northern California ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Arizona Qualifiers
- Chain of Custody

Arizona Qualifiers

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

The following Arizona qualifiers have been applied to data and/or QC in this report.

Qual	Description
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
R9	Sample RPD exceeded the laboratory acceptance limit.
S12	Surrogate recovery was low. Data reported per ADEQ policy 0154.000.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

PHOENIX

ACCUTEST® LABORATORIES

CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # 7094 0755 2977
Accutest Quote #
Bottle Order Control #
Accutest NC Job #: C C35612

Client / Reporting Information

Company Name: City of Tucson
Address: P.O. Box 27210
City: Tucson State: AZ Zip:
Project Contact: Lori Ehman
Phone #: 520.791.3175
Samplers's Name: G Byarano 03

Project Information

Project Name: Broadway
Street:
City: State:
Project #: P.O. 1154
EMAIL:
Client Purchase Order #:

Requested Analysis: 8260

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	8260	LAB USE ONLY
1	ADEQ-SJ-01	8/21/14	0710	GB	GW	3									X	
2	WR-178A	8/21/14	0740	GB	GW	3									X	
3	WR-352A	8/21/14	0753	GB	GW	3									X	
4	ADEQ-BP-05	8/21/14	0825	GB	GW	3									X	
5	ADEQ-BP-02	8/21/14	0900	GB	GW	3									X	
6	ADEQ-BP-04	8/21/14	0930	GB	GW	3									X	
7	ADEQ-BP-03	8/21/14	0950	GB	GW	3									X	
8	ADEQ-BP-21	8/21/14	1010	GB	GW	3									X	
9	TRIP BLANK					3									X	

Turnaround Time (Business days)

Approved By:/ Date:

- 10 Day
- 5 Day
- 3 Day
- 2 Day
- 1 Day
- Same Day

Data Deliverable Information

- Commercial "A" - Results only
- Commercial "B" - Results with QC summaries
- Commerical "B+" - Results, QC, and chromatograms
- FULT1 - Level 4 data package
- EDF for Geotracker — EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Emergency T/A data available VIA Lablink

• Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 G Byarano	8/21/14	1 FEDEX	2 Fedex	8/22/14 0731	2 [signature]
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N; Headspace Y / N; Separate Receiving Check List used: Y / N; On Ice Y / N	Cooler Temp. 4.7-0.3=4.4 °C

C35612: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C35612 **Client:** CITY OF TUCSON **Project:** BROADWAY

Date / Time Received: 8/22/2014 **Delivery Method:** FedEx **Airbill #'s:** 709907552977

Cooler Temps (Initial/Adjusted): #1: (4.7/4.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:408.588.0200

2105 Lundy Avenue
F: 408.588.0201

San Jose, CA 95131
www/accutest.com

5.2

5

C35612: Chain of Custody
Page 2 of 2

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1060-MB	R28394.D	1	08/31/14	TN	n/a	n/a	VR1060

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-9

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1060-MB	R28394.D	1	08/31/14	TN	n/a	n/a	VR1060

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-9

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	86%	70-130%
2037-26-5	Toluene-D8	93%	70-130%
460-00-4	4-Bromofluorobenzene	87%	70-130%

Method Blank Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1060-MB	R28394.D	1	08/31/14	TN	n/a	n/a	VR1060

The QC reported here applies to the following samples: **Method:**

C35612-9

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile [a]			ug/l	

(a) The following compounds were not detected by library search: 1,3-Butadiene, Dicyclopentadiene, 4-Ethyltoluene, Propylene.

Method Blank Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ981-MB	Q23447.D	1	08/31/14	TN	n/a	n/a	VQ981

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-2, C35612-3, C35612-4, C35612-5

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ981-MB	Q23447.D	1	08/31/14	TN	n/a	n/a	VQ981

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-2, C35612-3, C35612-4, C35612-5

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	91%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	92%	70-130%

Method Blank Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1062-MB	R28430.D	1	09/02/14	BD	n/a	n/a	VR1062

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-1, C35612-6, C35612-7, C35612-8

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1062-MB	R28430.D	1	09/02/14	BD	n/a	n/a	VR1062

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-1, C35612-6, C35612-7, C35612-8

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	85%	70-130%
2037-26-5	Toluene-D8	94%	70-130%
460-00-4	4-Bromofluorobenzene	88%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1060-BS	R28391.D	1	08/31/14	TN	n/a	n/a	VR1060
VR1060-BSD	R28392.D	1	08/31/14	TN	n/a	n/a	VR1060

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	79.7	100	76.2	95	4	38-159/24
71-43-2	Benzene	20	20.4	102	20.3	102	0	77-122/25
108-86-1	Bromobenzene	20	20.4	102	20.4	102	0	76-126/17
74-97-5	Bromochloromethane	20	19.8	99	19.6	98	1	77-130/17
75-27-4	Bromodichloromethane	20	20.7	104	20.4	102	1	75-127/16
75-25-2	Bromoform	20	19.6	98	19.5	98	1	69-141/17
104-51-8	n-Butylbenzene	20	21.4	107	21.3	107	0	72-129/18
135-98-8	sec-Butylbenzene	20	23.0	115	23.2	116	1	74-128/18
98-06-6	tert-Butylbenzene	20	22.7	114	22.8	114	0	73-127/18
108-90-7	Chlorobenzene	20	21.3	107	21.1	106	1	77-122/16
75-00-3	Chloroethane	20	18.8	94	18.8	94	0	69-133/18
67-66-3	Chloroform	20	19.7	99	19.3	97	2	74-126/17
95-49-8	o-Chlorotoluene	20	21.4	107	21.8	109	2	72-127/20
106-43-4	p-Chlorotoluene	20	21.6	108	21.1	106	2	68-127/18
75-15-0	Carbon disulfide	20	18.1	91	18.0	90	1	56-137/19
56-23-5	Carbon tetrachloride	20	23.6	118	23.1	116	2	71-133/19
75-34-3	1,1-Dichloroethane	20	18.9	95	18.8	94	1	71-125/17
75-35-4	1,1-Dichloroethylene	20	21.5	108	21.2	106	1	66-125/20
563-58-6	1,1-Dichloropropene	20	23.2	116	22.9	115	1	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	21.5	108	21.0	105	2	65-131/20
106-93-4	1,2-Dibromoethane	20	21.1	106	20.9	105	1	75-135/17
107-06-2	1,2-Dichloroethane	20	20.2	101	19.7	99	3	71-131/17
78-87-5	1,2-Dichloropropane	20	20.4	102	20.3	102	0	78-124/16
142-28-9	1,3-Dichloropropane	20	20.4	102	20.2	101	1	78-123/16
594-20-7	2,2-Dichloropropane	20	21.0	105	20.5	103	2	70-131/19
124-48-1	Dibromochloromethane	20	21.2	106	21.1	106	0	76-132/16
75-71-8	Dichlorodifluoromethane	20	24.9	125	23.5	118	6	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	19.7	99	19.6	98	1	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	21.9	110	21.9	110	0	72-130/16
541-73-1	m-Dichlorobenzene	20	21.2	106	21.2	106	0	75-124/16
95-50-1	o-Dichlorobenzene	20	21.0	105	21.1	106	0	76-124/16
106-46-7	p-Dichlorobenzene	20	20.0	100	20.1	101	0	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	19.5	98	19.4	97	1	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	20.9	105	20.8	104	0	71-126/16
100-41-4	Ethylbenzene	20	21.3	107	21.1	106	1	76-126/17
591-78-6	2-Hexanone	80	91.1	114	89.6	112	2	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1060-BS	R28391.D	1	08/31/14	TN	n/a	n/a	VR1060
VR1060-BSD	R28392.D	1	08/31/14	TN	n/a	n/a	VR1060

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	21.4	107	21.3	107	0	69-135/20
98-82-8	Isopropylbenzene	20	22.6	113	22.5	113	0	61-125/17
99-87-6	p-Isopropyltoluene	20	21.3	107	21.4	107	0	68-127/18
108-10-1	4-Methyl-2-pentanone	80	87.1	109	85.8	107	2	71-142/21
74-83-9	Methyl bromide	20	22.0	110	21.8	109	1	68-132/18
74-87-3	Methyl chloride	20	19.8	99	20.0	100	1	39-150/28
74-95-3	Methylene bromide	20	20.9	105	20.6	103	1	77-127/16
75-09-2	Methylene chloride	20	17.6	88	17.5	88	1	67-128/18
78-93-3	Methyl ethyl ketone	80	84.1	105	82.9	104	1	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	18.7	94	18.7	94	0	73-132/17
91-20-3	Naphthalene	20	21.0	105	21.0	105	0	70-136/20
103-65-1	n-Propylbenzene	20	22.0	110	22.1	111	0	71-127/17
100-42-5	Styrene	20	19.5	98	19.5	98	0	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	21.4	107	21.3	107	0	77-130/16
71-55-6	1,1,1-Trichloroethane	20	21.4	107	21.0	105	2	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	20.9	105	20.9	105	0	77-129/17
79-00-5	1,1,2-Trichloroethane	20	20.2	101	20.0	100	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	20.4	102	20.4	102	0	70-133/18
96-18-4	1,2,3-Trichloropropane	20	20.9	105	20.6	103	1	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	20.3	102	20.3	102	0	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	21.4	107	21.3	107	0	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	22.4	112	22.3	112	0	77-129/17
127-18-4	Tetrachloroethylene	20	20.6	103	20.8	104	1	69-127/20
108-88-3	Toluene	20	20.8	104	20.7	104	0	75-122/17
79-01-6	Trichloroethylene	20	21.0	105	20.8	104	1	78-123/17
75-69-4	Trichlorofluoromethane	20	22.3	112	21.9	110	2	65-136/23
75-01-4	Vinyl chloride	20	22.4	112	21.8	109	3	57-146/22
1330-20-7	Xylene (total)	60	65.5	109	65.2	109	0	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	87%	86%	70-130%
2037-26-5	Toluene-D8	93%	92%	70-130%
460-00-4	4-Bromofluorobenzene	93%	93%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ981-BS	Q23444.D	1	08/31/14	TN	n/a	n/a	VQ981
VQ981-BSD	Q23445.D	1	08/31/14	TN	n/a	n/a	VQ981

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-2, C35612-3, C35612-4, C35612-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	78.7	98	79.7	100	1	38-159/24
71-43-2	Benzene	20	21.2	106	21.1	106	0	77-122/25
108-86-1	Bromobenzene	20	21.2	106	21.1	106	0	76-126/17
74-97-5	Bromochloromethane	20	22.0	110	22.3	112	1	77-130/17
75-27-4	Bromodichloromethane	20	22.1	111	22.1	111	0	75-127/16
75-25-2	Bromoform	20	19.7	99	19.8	99	1	69-141/17
104-51-8	n-Butylbenzene	20	22.8	114	22.3	112	2	72-129/18
135-98-8	sec-Butylbenzene	20	24.1	121	23.5	118	3	74-128/18
98-06-6	tert-Butylbenzene	20	22.3	112	22.0	110	1	73-127/18
108-90-7	Chlorobenzene	20	21.6	108	21.6	108	0	77-122/16
75-00-3	Chloroethane	20	20.8	104	20.5	103	1	69-133/18
67-66-3	Chloroform	20	21.9	110	22.0	110	0	74-126/17
95-49-8	o-Chlorotoluene	20	22.9	115	22.8	114	0	72-127/20
106-43-4	p-Chlorotoluene	20	22.1	111	21.4	107	3	68-127/18
75-15-0	Carbon disulfide	20	20.8	104	20.4	102	2	56-137/19
56-23-5	Carbon tetrachloride	20	23.6	118	23.3	117	1	71-133/19
75-34-3	1,1-Dichloroethane	20	21.6	108	21.6	108	0	71-125/17
75-35-4	1,1-Dichloroethylene	20	22.7	114	22.6	113	0	66-125/20
563-58-6	1,1-Dichloropropene	20	23.8	119	23.6	118	1	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	22.5	113	22.7	114	1	65-131/20
106-93-4	1,2-Dibromoethane	20	21.9	110	22.3	112	2	75-135/17
107-06-2	1,2-Dichloroethane	20	21.1	106	21.3	107	1	71-131/17
78-87-5	1,2-Dichloropropane	20	21.8	109	21.7	109	0	78-124/16
142-28-9	1,3-Dichloropropane	20	21.2	106	21.5	108	1	78-123/16
594-20-7	2,2-Dichloropropane	20	22.8	114	22.3	112	2	70-131/19
124-48-1	Dibromochloromethane	20	19.9	100	19.9	100	0	76-132/16
75-71-8	Dichlorodifluoromethane	20	27.8	139	25.9	130	7	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	21.9	110	22.0	110	0	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	23.4	117	23.6	118	1	72-130/16
541-73-1	m-Dichlorobenzene	20	21.8	109	21.6	108	1	75-124/16
95-50-1	o-Dichlorobenzene	20	21.6	108	21.5	108	0	76-124/16
106-46-7	p-Dichlorobenzene	20	20.5	103	20.4	102	0	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	21.7	109	21.7	109	0	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	22.3	112	22.6	113	1	71-126/16
100-41-4	Ethylbenzene	20	21.6	108	21.3	107	1	76-126/17
591-78-6	2-Hexanone	80	95.2	119	96.8	121	2	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ981-BS	Q23444.D	1	08/31/14	TN	n/a	n/a	VQ981
VQ981-BSD	Q23445.D	1	08/31/14	TN	n/a	n/a	VQ981

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-2, C35612-3, C35612-4, C35612-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	21.9	110	21.6	108	1	69-135/20
98-82-8	Isopropylbenzene	20	23.0	115	22.6	113	2	61-125/17
99-87-6	p-Isopropyltoluene	20	23.0	115	22.5	113	2	68-127/18
108-10-1	4-Methyl-2-pentanone	80	86.9	109	89.7	112	3	71-142/21
74-83-9	Methyl bromide	20	22.9	115	22.7	114	1	68-132/18
74-87-3	Methyl chloride	20	22.6	113	21.8	109	4	39-150/28
74-95-3	Methylene bromide	20	21.9	110	22.2	111	1	77-127/16
75-09-2	Methylene chloride	20	20.2	101	20.3	102	0	67-128/18
78-93-3	Methyl ethyl ketone	80	93.2	117	96.7	121	4	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	20.9	105	21.2	106	1	73-132/17
91-20-3	Naphthalene	20	21.4	107	21.5	108	0	70-136/20
103-65-1	n-Propylbenzene	20	23.0	115	22.4	112	3	71-127/17
100-42-5	Styrene	20	22.1	111	22.0	110	0	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	22.1	111	22.1	111	0	77-130/16
71-55-6	1,1,1-Trichloroethane	20	23.2	116	23.0	115	1	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	22.0	110	22.0	110	0	77-129/17
79-00-5	1,1,2-Trichloroethane	20	21.4	107	21.5	108	0	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	21.4	107	21.4	107	0	70-133/18
96-18-4	1,2,3-Trichloropropane	20	21.3	107	21.5	108	1	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	21.2	106	21.1	106	0	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	22.2	111	21.7	109	2	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	23.3	117	22.7	114	3	77-129/17
127-18-4	Tetrachloroethylene	20	21.3	107	21.1	106	1	69-127/20
108-88-3	Toluene	20	21.3	107	21.0	105	1	75-122/17
79-01-6	Trichloroethylene	20	21.5	108	21.5	108	0	78-123/17
75-69-4	Trichlorofluoromethane	20	25.3	127	24.2	121	4	65-136/23
75-01-4	Vinyl chloride	20	25.3	127	24.9	125	2	57-146/22
1330-20-7	Xylene (total)	60	66.4	111	65.6	109	1	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	97%	97%	70-130%
2037-26-5	Toluene-D8	95%	94%	70-130%
460-00-4	4-Bromofluorobenzene	96%	95%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1062-BS	R28427.D	1	09/02/14	BD	n/a	n/a	VR1062
VR1062-BSD	R28428.D	1	09/02/14	BD	n/a	n/a	VR1062

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-1, C35612-6, C35612-7, C35612-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	94.0	118	94.2	118	0	38-159/24
71-43-2	Benzene	20	20.6	103	20.6	103	0	77-122/25
108-86-1	Bromobenzene	20	20.6	103	20.7	104	0	76-126/17
74-97-5	Bromochloromethane	20	19.9	100	20.7	104	4	77-130/17
75-27-4	Bromodichloromethane	20	21.0	105	21.3	107	1	75-127/16
75-25-2	Bromoform	20	20.0	100	20.1	101	0	69-141/17
104-51-8	n-Butylbenzene	20	22.1	111	21.7	109	2	72-129/18
135-98-8	sec-Butylbenzene	20	22.6	113	22.3	112	1	74-128/18
98-06-6	tert-Butylbenzene	20	22.4	112	22.4	112	0	73-127/18
108-90-7	Chlorobenzene	20	20.8	104	20.5	103	1	77-122/16
75-00-3	Chloroethane	20	19.8	99	19.7	99	1	69-133/18
67-66-3	Chloroform	20	19.9	100	20.2	101	1	74-126/17
95-49-8	o-Chlorotoluene	20	21.2	106	20.4	102	4	72-127/20
106-43-4	p-Chlorotoluene	20	20.7	104	21.6	108	4	68-127/18
75-15-0	Carbon disulfide	20	20.6	103	20.4	102	1	56-137/19
56-23-5	Carbon tetrachloride	20	22.8	114	22.1	111	3	71-133/19
75-34-3	1,1-Dichloroethane	20	20.2	101	20.3	102	0	71-125/17
75-35-4	1,1-Dichloroethylene	20	21.3	107	21.2	106	0	66-125/20
563-58-6	1,1-Dichloropropene	20	22.0	110	21.5	108	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	22.0	110	22.3	112	1	65-131/20
106-93-4	1,2-Dibromoethane	20	21.1	106	21.2	106	0	75-135/17
107-06-2	1,2-Dichloroethane	20	19.5	98	19.9	100	2	71-131/17
78-87-5	1,2-Dichloropropane	20	20.6	103	21.0	105	2	78-124/16
142-28-9	1,3-Dichloropropane	20	20.5	103	20.6	103	0	78-123/16
594-20-7	2,2-Dichloropropane	20	21.4	107	21.1	106	1	70-131/19
124-48-1	Dibromochloromethane	20	21.6	108	21.6	108	0	76-132/16
75-71-8	Dichlorodifluoromethane	20	19.9	100	19.1	96	4	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	20.2	101	20.4	102	1	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	21.5	108	21.7	109	1	72-130/16
541-73-1	m-Dichlorobenzene	20	20.8	104	20.8	104	0	75-124/16
95-50-1	o-Dichlorobenzene	20	20.3	102	20.6	103	1	76-124/16
106-46-7	p-Dichlorobenzene	20	20.5	103	20.5	103	0	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	20.4	102	20.6	103	1	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	21.4	107	21.5	108	0	71-126/16
100-41-4	Ethylbenzene	20	21.6	108	21.1	106	2	76-126/17
591-78-6	2-Hexanone	80	95.6	120	96.0	120	0	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1062-BS	R28427.D	1	09/02/14	BD	n/a	n/a	VR1062
VR1062-BSD	R28428.D	1	09/02/14	BD	n/a	n/a	VR1062

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-1, C35612-6, C35612-7, C35612-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	21.7	109	21.3	107	2	69-135/20
98-82-8	Isopropylbenzene	20	22.2	111	21.6	108	3	61-125/17
99-87-6	p-Isopropyltoluene	20	21.8	109	21.5	108	1	68-127/18
108-10-1	4-Methyl-2-pentanone	80	91.0	114	93.9	117	3	71-142/21
74-83-9	Methyl bromide	20	20.7	104	20.7	104	0	68-132/18
74-87-3	Methyl chloride	20	19.3	97	19.5	98	1	39-150/28
74-95-3	Methylene bromide	20	20.4	102	20.9	105	2	77-127/16
75-09-2	Methylene chloride	20	18.0	90	18.5	93	3	67-128/18
78-93-3	Methyl ethyl ketone	80	94.6	118	96.6	121	2	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	20.0	100	20.8	104	4	73-132/17
91-20-3	Naphthalene	20	21.1	106	21.5	108	2	70-136/20
103-65-1	n-Propylbenzene	20	22.1	111	21.9	110	1	71-127/17
100-42-5	Styrene	20	19.7	99	19.4	97	2	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	21.3	107	21.1	106	1	77-130/16
71-55-6	1,1,1-Trichloroethane	20	21.4	107	21.0	105	2	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	20.9	105	21.5	108	3	77-129/17
79-00-5	1,1,2-Trichloroethane	20	20.1	101	20.4	102	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	20.2	101	20.5	103	1	70-133/18
96-18-4	1,2,3-Trichloropropane	20	21.4	107	21.7	109	1	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	20.6	103	20.9	105	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	21.8	109	21.8	109	0	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	22.1	111	21.9	110	1	77-129/17
127-18-4	Tetrachloroethylene	20	21.7	109	21.2	106	2	69-127/20
108-88-3	Toluene	20	21.1	106	20.8	104	1	75-122/17
79-01-6	Trichloroethylene	20	21.0	105	21.1	106	0	78-123/17
75-69-4	Trichlorofluoromethane	20	18.3	92	18.1	91	1	65-136/23
75-01-4	Vinyl chloride	20	19.9	100	19.6	98	2	57-146/22
1330-20-7	Xylene (total)	60	65.0	108	63.7	106	2	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	90%	91%	70-130%
2037-26-5	Toluene-D8	94%	93%	70-130%
460-00-4	4-Bromofluorobenzene	94%	91%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35587-7MS	R28414.D	50	08/31/14	TN	n/a	n/a	VR1060
C35587-7MSD	R28415.D	50	08/31/14	TN	n/a	n/a	VR1060
C35587-7	R28395.D	50	08/31/14	TN	n/a	n/a	VR1060

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-9

CAS No.	Compound	C35587-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		4000	3610	90	4000	4560	114	23	38-159/24
71-43-2	Benzene	ND		1000	1050	105	1000	1060	106	1	77-122/16
108-86-1	Bromobenzene	ND		1000	1070	107	1000	1080	108	1	76-126/17
74-97-5	Bromochloromethane	ND		1000	1010	101	1000	1030	103	2	77-130/17
75-27-4	Bromodichloromethane	ND		1000	1020	102	1000	1030	103	1	75-127/16
75-25-2	Bromoform	ND		1000	834	83	1000	891	89	7	69-141/17
104-51-8	n-Butylbenzene	ND		1000	1100	110	1000	1090	109	1	72-129/18
135-98-8	sec-Butylbenzene	ND		1000	1240	124	1000	1210	121	2	74-128/18
98-06-6	tert-Butylbenzene	ND		1000	1220	122	1000	1200	120	2	73-127/18
108-90-7	Chlorobenzene	ND		1000	1090	109	1000	1110	111	2	77-122/16
75-00-3	Chloroethane	ND		1000	997	100	1000	998	100	0	69-133/18
67-66-3	Chloroform	ND		1000	1010	101	1000	1020	102	1	74-126/17
95-49-8	o-Chlorotoluene	ND		1000	1140	114	1000	1140	114	0	72-127/20
106-43-4	p-Chlorotoluene	ND		1000	1090	109	1000	1090	109	0	68-127/18
75-15-0	Carbon disulfide	ND		1000	808	81	1000	773	77	4	56-137/19
56-23-5	Carbon tetrachloride	ND		1000	1270	127	1000	1210	121	5	71-133/19
75-34-3	1,1-Dichloroethane	ND		1000	981	98	1000	999	100	2	71-125/17
75-35-4	1,1-Dichloroethylene	ND		1000	1150	115	1000	1130	113	2	66-125/20
563-58-6	1,1-Dichloropropene	ND		1000	1220	122	1000	1200	120	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		1000	999	100	1000	1130	113	12	65-131/20
106-93-4	1,2-Dibromoethane	ND		1000	1070	107	1000	1110	111	4	75-135/17
107-06-2	1,2-Dichloroethane	ND		1000	1020	102	1000	1040	104	2	71-131/17
78-87-5	1,2-Dichloropropane	ND		1000	1040	104	1000	1060	106	2	78-124/16
142-28-9	1,3-Dichloropropane	ND		1000	1040	104	1000	1060	106	2	78-123/16
594-20-7	2,2-Dichloropropane	ND		1000	902	90	1000	893	89	1	70-131/19
124-48-1	Dibromochloromethane	ND		1000	1000	100	1000	1030	103	3	76-132/16
75-71-8	Dichlorodifluoromethane	ND		1000	1340	134	1000	1270	127	5	32-168/28
156-59-2	cis-1,2-Dichloroethylene	ND		1000	1020	102	1000	1040	104	2	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		1000	1040	104	1000	1070	107	3	72-130/16
541-73-1	m-Dichlorobenzene	ND		1000	1100	110	1000	1110	111	1	75-124/16
95-50-1	o-Dichlorobenzene	ND		1000	1090	109	1000	1100	110	1	76-124/16
106-46-7	p-Dichlorobenzene	ND		1000	1040	104	1000	1050	105	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		1000	1030	103	1000	1040	104	1	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		1000	997	100	1000	1020	102	2	71-126/16
100-41-4	Ethylbenzene	ND		1000	1110	111	1000	1100	110	1	76-126/17
591-78-6	2-Hexanone	ND		4000	4390	110	4000	4960	124	12	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35587-7MS	R28414.D	50	08/31/14	TN	n/a	n/a	VR1060
C35587-7MSD	R28415.D	50	08/31/14	TN	n/a	n/a	VR1060
C35587-7	R28395.D	50	08/31/14	TN	n/a	n/a	VR1060

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-9

CAS No.	Compound	C35587-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		1000	1060	106	1000	1070	107	1	69-135/20
98-82-8	Isopropylbenzene	ND		1000	1200	120	1000	1180	118	2	61-125/17
99-87-6	p-Isopropyltoluene	ND		1000	1120	112	1000	1100	110	2	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		4000	4140	104	4000	4660	117	12	71-142/21
74-83-9	Methyl bromide	ND		1000	1140	114	1000	1140	114	0	68-132/18
74-87-3	Methyl chloride	ND		1000	1040	104	1000	1040	104	0	39-150/28
74-95-3	Methylene bromide	ND		1000	1070	107	1000	1090	109	2	77-127/16
75-09-2	Methylene chloride	ND		1000	902	90	1000	936	94	4	67-128/18
78-93-3	Methyl ethyl ketone	ND		4000	3980	100	4000	4790	120	18	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		1000	938	94	1000	995	100	6	73-132/17
91-20-3	Naphthalene	ND		1000	1020	102	1000	1120	112	9	70-136/20
103-65-1	n-Propylbenzene	ND		1000	1170	117	1000	1150	115	2	71-127/17
100-42-5	Styrene	ND		1000	995	100	1000	1010	101	1	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	ND		1000	1110	111	1000	1110	111	0	77-130/16
71-55-6	1,1,1-Trichloroethane	ND		1000	1130	113	1000	1120	112	1	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1000	1060	106	1000	1130	113	6	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		1000	1030	103	1000	1070	107	4	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		1000	998	100	1000	1050	105	5	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		1000	967	97	1000	1020	102	5	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		1000	998	100	1000	1030	103	3	68-129/17
95-63-6	1,2,4-Trimethylbenzene	ND		1000	1110	111	1000	1120	112	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	ND		1000	1170	117	1000	1160	116	1	77-129/17
127-18-4	Tetrachloroethylene	1500		1000	2490	99	1000	2430	93	2	69-127/20
108-88-3	Toluene	ND		1000	1080	108	1000	1090	109	1	75-122/17
79-01-6	Trichloroethylene	ND		1000	1110	111	1000	1090	109	2	78-123/17
75-69-4	Trichlorofluoromethane	ND		1000	1230	123	1000	1180	118	4	65-136/23
75-01-4	Vinyl chloride	ND		1000	1190	119	1000	1170	117	2	57-146/22
1330-20-7	Xylene (total)	ND		3000	3400	113	3000	3400	113	0	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C35587-7	Limits
1868-53-7	Dibromofluoromethane	87%	89%	89%	70-130%
2037-26-5	Toluene-D8	93%	93%	92%	70-130%
460-00-4	4-Bromofluorobenzene	93%	92%	87%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35607-4MS	Q23462.D	5	08/31/14	TN	n/a	n/a	VQ981
C35607-4MSD	Q23463.D	5	08/31/14	TN	n/a	n/a	VQ981
C35607-4	Q23461.D	5	08/31/14	TN	n/a	n/a	VQ981

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-2, C35612-3, C35612-4, C35612-5

CAS No.	Compound	C35607-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	185		400	763	145	400	721	134	6	38-159/24
71-43-2	Benzene	ND		100	117	117	100	116	116	1	77-122/16
108-86-1	Bromobenzene	ND		100	99.0	99	100	100	100	1	76-126/17
74-97-5	Bromochloromethane	ND		100	124	124	100	122	122	2	77-130/17
75-27-4	Bromodichloromethane	ND		100	128	128* [a]	100	126	126	2	75-127/16
75-25-2	Bromoform	ND		100	92.8	93	100	90.4	90	3	69-141/17
104-51-8	n-Butylbenzene	ND		100	71.8	72	100	72.4	72	1	72-129/18
135-98-8	sec-Butylbenzene	ND		100	85.8	86	100	86.7	87	1	74-128/18
98-06-6	tert-Butylbenzene	ND		100	77.7	78	100	79.1	79	2	73-127/18
108-90-7	Chlorobenzene	ND		100	122	122	100	121	121	1	77-122/16
75-00-3	Chloroethane	ND		100	114	114	100	112	112	2	69-133/18
67-66-3	Chloroform	2.5	J	100	129	127* [a]	100	127	125	2	74-126/17
95-49-8	o-Chlorotoluene	ND		100	87.2	87	100	87.7	88	1	72-127/20
106-43-4	p-Chlorotoluene	ND		100	87.9	88	100	88.4	88	1	68-127/18
75-15-0	Carbon disulfide	2.1	J	100	107	105	100	105	103	2	56-137/19
56-23-5	Carbon tetrachloride	ND		100	142	142* [a]	100	139	139* [a]	2	71-133/19
75-34-3	1,1-Dichloroethane	14.8		100	138	123	100	136	121	1	71-125/17
75-35-4	1,1-Dichloroethylene	ND		100	91.5	92	100	90.3	90	1	66-125/20
563-58-6	1,1-Dichloropropene	ND		100	98.6	99	100	96.6	97	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		100	137	137* [a]	100	134	134* [a]	2	65-131/20
106-93-4	1,2-Dibromoethane	ND		100	130	130	100	129	129	1	75-135/17
107-06-2	1,2-Dichloroethane	ND		100	133	133* [a]	100	130	130	2	71-131/17
78-87-5	1,2-Dichloropropane	ND		100	131	131* [a]	100	129	129* [a]	2	78-124/16
142-28-9	1,3-Dichloropropane	ND		100	127	127* [a]	100	125	125* [a]	2	78-123/16
594-20-7	2,2-Dichloropropane	ND		100	103	103	100	99.6	100	3	70-131/19
124-48-1	Dibromochloromethane	ND		100	105	105	100	104	104	1	76-132/16
75-71-8	Dichlorodifluoromethane	ND		100	117	117	100	114	114	3	32-168/28
156-59-2	cis-1,2-Dichloroethylene	ND		100	125	125	100	124	124	1	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		100	118	118	100	117	117	1	72-130/16
541-73-1	m-Dichlorobenzene	ND		100	115	115	100	116	116	1	75-124/16
95-50-1	o-Dichlorobenzene	ND		100	115	115	100	116	116	1	76-124/16
106-46-7	p-Dichlorobenzene	ND		100	109	109	100	109	109	0	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		100	105	105	100	103	103	2	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		100	104	104	100	103	103	1	71-126/16
100-41-4	Ethylbenzene	ND		100	67.2	67* [b]	100	66.1	66* [b]	2	76-126/17
591-78-6	2-Hexanone	ND		400	601	150	400	572	143	5	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35607-4MS	Q23462.D	5	08/31/14	TN	n/a	n/a	VQ981
C35607-4MSD	Q23463.D	5	08/31/14	TN	n/a	n/a	VQ981
C35607-4	Q23461.D	5	08/31/14	TN	n/a	n/a	VQ981

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-2, C35612-3, C35612-4, C35612-5

CAS No.	Compound	C35607-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		100	108	108	100	116	116	7	69-135/20
98-82-8	Isopropylbenzene	ND		100	80.7	81	100	79.4	79	2	61-125/17
99-87-6	p-Isopropyltoluene	ND		100	41.4	41* [b]	100	41.3	41* [b]	0	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		400	520	130	400	505	126	3	71-142/21
74-83-9	Methyl bromide	41.0		100	165	124	100	162	121	2	68-132/18
74-87-3	Methyl chloride	103		100	235	132	100	204	101	14	39-150/28
74-95-3	Methylene bromide	ND		100	135	135* [a]	100	131	131* [a]	3	77-127/16
75-09-2	Methylene chloride	ND		100	118	118	100	116	116	2	67-128/18
78-93-3	Methyl ethyl ketone	33.8	J	400	610	144	400	590	139	3	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		100	118	118	100	115	115	3	73-132/17
91-20-3	Naphthalene	ND		100	25.0	25* [b]	100	24.0	24* [b]	4	70-136/20
103-65-1	n-Propylbenzene	ND		100	73.3	73	100	73.0	73	0	71-127/17
100-42-5	Styrene	ND		100	1.0	1* [b]	100	ND	0* [b]	200* [c]	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	ND		100	128	128	100	127	127	1	77-130/16
71-55-6	1,1,1-Trichloroethane	4.6	J	100	139	134* [a]	100	136	131* [a]	2	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	130	130* [a]	100	128	128	2	77-129/17
79-00-5	1,1,2-Trichloroethane	1.9	J	100	131	129* [a]	100	128	126* [a]	2	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		100	111	111	100	115	115	4	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		100	120	120	100	117	117	3	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		100	109	109	100	112	112	3	68-129/17
95-63-6	1,2,4-Trimethylbenzene	ND		100	7.1	7* [b]	100	6.8	7* [b]	4	74-129/17
108-67-8	1,3,5-Trimethylbenzene	ND		100	1.8	2* [b]	100	1.6	2* [b]	12	77-129/17
127-18-4	Tetrachloroethylene	ND		100	118	118	100	118	118	0	69-127/20
108-88-3	Toluene	ND		100	59.6	60* [b]	100	58.9	59* [b]	1	75-122/17
79-01-6	Trichloroethylene	ND		100	122	122	100	121	121	1	78-123/17
75-69-4	Trichlorofluoromethane	ND		100	112	112	100	109	109	3	65-136/23
75-01-4	Vinyl chloride	ND		100	105	105	100	101	101	4	57-146/22
1330-20-7	Xylene (total)	ND		300	71.8	24* [b]	300	69.4	23* [b]	3	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C35607-4	Limits
1868-53-7	Dibromofluoromethane	104%	102%	103%	70-130%
2037-26-5	Toluene-D8	51%* [e]	50%* [e]	32%* [d]	70-130%
460-00-4	4-Bromofluorobenzene	92%	92%	87%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35607-4MS	Q23462.D	5	08/31/14	TN	n/a	n/a	VQ981
C35607-4MSD	Q23463.D	5	08/31/14	TN	n/a	n/a	VQ981
C35607-4	Q23461.D	5	08/31/14	TN	n/a	n/a	VQ981

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-2, C35612-3, C35612-4, C35612-5

(a) Outside control limits due to matrix interference. AZ:M1
(b) Outside control limits due to matrix interference. AZ:M2
(c) Outside control limits due to matrix interference. AZ:R9
(d) Outside control limits due to matrix interference. Confirmed by MS/MSD.
(e) Outside control limits due to matrix interference. AZ:S12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35667-1MS	R28450.D	1	09/02/14	BD	n/a	n/a	VR1062
C35667-1MSD	R28451.D	1	09/02/14	BD	n/a	n/a	VR1062
C35667-1	R28431.D	1	09/02/14	BD	n/a	n/a	VR1062

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-1, C35612-6, C35612-7, C35612-8

CAS No.	Compound	C35667-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	20 U		80	83.7	105	80	90.5	113	8	38-159/24
71-43-2	Benzene	1.0 U		20	20.2	101	20	20.3	102	0	77-122/16
108-86-1	Bromobenzene	1.0 U		20	20.8	104	20	19.9	100	4	76-126/17
74-97-5	Bromochloromethane	1.0 U		20	20.0	100	20	20.0	100	0	77-130/17
75-27-4	Bromodichloromethane	1.0 U		20	18.8	94	20	18.9	95	1	75-127/16
75-25-2	Bromoform	1.0 U		20	13.9	70	20	14.0	70	1	69-141/17
104-51-8	n-Butylbenzene	2.0 U		20	18.1	91	20	18.0	90	1	72-129/18
135-98-8	sec-Butylbenzene	2.0 U		20	20.0	100	20	20.0	100	0	74-128/18
98-06-6	tert-Butylbenzene	2.0 U		20	19.9	100	20	19.8	99	1	73-127/18
108-90-7	Chlorobenzene	1.0 U		20	20.1	101	20	20.1	101	0	77-122/16
75-00-3	Chloroethane	1.0 U		20	22.9	115	20	22.7	114	1	69-133/18
67-66-3	Chloroform	1.0 U		20	19.7	99	20	19.6	98	1	74-126/17
95-49-8	o-Chlorotoluene	2.0 U		20	18.0	90	20	17.9	90	1	72-127/20
106-43-4	p-Chlorotoluene	2.0 U		20	19.3	97	20	19.4	97	1	68-127/18
75-15-0	Carbon disulfide	1.0 U		20	16.6	83	20	16.3	82	2	56-137/19
56-23-5	Carbon tetrachloride	1.0 U		20	21.7	109	20	21.5	108	1	71-133/19
75-34-3	1,1-Dichloroethane	1.0 U		20	20.1	101	20	19.8	99	2	71-125/17
75-35-4	1,1-Dichloroethylene	1.0 U		20	21.2	106	20	20.9	105	1	66-125/20
563-58-6	1,1-Dichloropropene	1.0 U		20	20.2	101	20	20.0	100	1	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		20	18.9	95	20	19.7	99	4	65-131/20
106-93-4	1,2-Dibromoethane	1.0 U		20	19.8	99	20	19.9	100	1	75-135/17
107-06-2	1,2-Dichloroethane	1.0 U		20	18.3	92	20	18.4	92	1	71-131/17
78-87-5	1,2-Dichloropropane	1.0 U		20	20.5	103	20	20.6	103	0	78-124/16
142-28-9	1,3-Dichloropropane	1.0 U		20	19.3	97	20	19.4	97	1	78-123/16
594-20-7	2,2-Dichloropropane	1.0 U		20	18.3	92	20	18.1	91	1	70-131/19
124-48-1	Dibromochloromethane	1.0 U		20	17.2	86	20	17.3	87	1	76-132/16
75-71-8	Dichlorodifluoromethane	1.0 U		20	19.8	99	20	20.0	100	1	32-168/28
156-59-2	cis-1,2-Dichloroethylene	1.0 U		20	20.3	102	20	20.1	101	1	73-126/17
10061-01-5	cis-1,3-Dichloropropene	1.0 U		20	19.0	95	20	19.2	96	1	72-130/16
541-73-1	m-Dichlorobenzene	1.0 U		20	20.1	101	20	20.3	102	1	75-124/16
95-50-1	o-Dichlorobenzene	1.0 U		20	19.8	99	20	20.0	100	1	76-124/16
106-46-7	p-Dichlorobenzene	1.0 U		20	19.7	99	20	19.9	100	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	1.0 U		20	20.7	104	20	20.2	101	2	71-126/18
10061-02-6	trans-1,3-Dichloropropene	1.0 U		20	18.0	90	20	18.1	91	1	71-126/16
100-41-4	Ethylbenzene	1.0 U		20	17.6	88	20	17.3	87	2	76-126/17
591-78-6	2-Hexanone	10 U		80	81.2	102	80	83.6	105	3	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35667-1MS	R28450.D	1	09/02/14	BD	n/a	n/a	VR1062
C35667-1MSD	R28451.D	1	09/02/14	BD	n/a	n/a	VR1062
C35667-1	R28431.D	1	09/02/14	BD	n/a	n/a	VR1062

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-1, C35612-6, C35612-7, C35612-8

CAS No.	Compound	C35667-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	2.0 U		20	19.2	96	20	19.6	98	2	69-135/20
98-82-8	Isopropylbenzene	1.0 U		20	18.8	94	20	18.5	93	2	61-125/17
99-87-6	p-Isopropyltoluene	2.0 U		20	16.0	80	20	15.8	79	1	68-127/18
108-10-1	4-Methyl-2-pentanone	10 U		80	81.9	102	80	84.4	106	3	71-142/21
74-83-9	Methyl bromide	2.0 U		20	20.9	105	20	20.5	103	2	68-132/18
74-87-3	Methyl chloride	1.0 U		20	20.5	103	20	20.7	104	1	39-150/28
74-95-3	Methylene bromide	1.0 U		20	19.3	97	20	19.7	99	2	77-127/16
75-09-2	Methylene chloride	10 U		20	18.1	91	20	18.0	90	1	67-128/18
78-93-3	Methyl ethyl ketone	10 U		80	83.9	105	80	85.4	107	2	56-155/23
1634-04-4	Methyl Tert Butyl Ether	1.0 U		20	19.8	99	20	20.0	100	1	73-132/17
91-20-3	Naphthalene	5.0 U		20	20.3	102	20	20.1	101	1	70-136/20
103-65-1	n-Propylbenzene	2.0 U		20	18.8	94	20	18.7	94	1	71-127/17
100-42-5	Styrene	1.0 U		20	5.4	27* [a]	20	5.1	26* [a]	6	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		20	20.0	100	20	20.0	100	0	77-130/16
71-55-6	1,1,1-Trichloroethane	1.0 U		20	21.2	106	20	20.9	105	1	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		20	20.3	102	20	20.6	103	1	77-129/17
79-00-5	1,1,2-Trichloroethane	1.0 U		20	19.0	95	20	19.2	96	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	2.0 U		20	18.3	92	20	19.0	95	4	70-133/18
96-18-4	1,2,3-Trichloropropane	2.0 U		20	18.6	93	20	18.3	92	2	69-126/18
120-82-1	1,2,4-Trichlorobenzene	2.0 U		20	18.8	94	20	19.3	97	3	68-129/17
95-63-6	1,2,4-Trimethylbenzene	2.0 U		20	9.5	48* [a]	20	9.2	46* [a]	3	74-129/17
108-67-8	1,3,5-Trimethylbenzene	2.0 U		20	6.8	34* [a]	20	6.5	33* [a]	5	77-129/17
127-18-4	Tetrachloroethylene	1.0 U		20	19.7	99	20	19.5	98	1	69-127/20
108-88-3	Toluene	1.0 U		20	17.2	86	20	17.0	85	1	75-122/17
79-01-6	Trichloroethylene	1.0 U		20	20.8	104	20	20.9	105	0	78-123/17
75-69-4	Trichlorofluoromethane	1.0 U		20	21.3	107	20	20.7	104	3	65-136/23
75-01-4	Vinyl chloride	1.0 U		20	20.9	105	20	20.0	100	4	57-146/22
1330-20-7	Xylene (total)	2.0 U		60	38.9	65* [a]	60	37.8	63* [a]	3	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C35667-1	Limits
1868-53-7	Dibromofluoromethane	90%	89%	84%	70-130%
2037-26-5	Toluene-D8	82%	81%	89%	70-130%
460-00-4	4-Bromofluorobenzene	90%	90%	89%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35612
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35667-1MS	R28450.D	1	09/02/14	BD	n/a	n/a	VR1062
C35667-1MSD	R28451.D	1	09/02/14	BD	n/a	n/a	VR1062
C35667-1	R28431.D	1	09/02/14	BD	n/a	n/a	VR1062

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35612-1, C35612-6, C35612-7, C35612-8

(a) Outside control limits due to matrix interference. AZ:M2

* = Outside of Control Limits.

Northern California
ACCUTEST
LABORATORIES

09/18/14

Technical Report for

City of Tucson Environmental Services

COT: Broadway & Pantano

PO1154

Accutest Job Number: C35923

Sampling Date: 09/10/14

Report to:

City of Tucson - Env.Services
4400 S. Park Ave., Bldg 1 P.O. Box 27210
Tucson, AZ 85726
lori.ehman@tucsonaz.gov

ATTN: Lori Ehman

Total number of pages in report: **29**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Elvin Kumar 408-588-0200

Certifications: OR (CA300006) CA (08258CA) CA (ELAP 2910) AZ (AZ0762) DoD ELAP (L-A-B L2242)

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Accutest Laboratories

Sample Summary

City of Tucson Environmental Services

Job No: C35923

COT: Broadway & Pantano
Project No: PO1154

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C35923-1	09/10/14	07:40	GB	09/11/14	AQ	Ground Water	WR-704A
C35923-2	09/10/14	00:00	GB	09/11/14	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	City of Tucson Environmental Services	**Job No**	C35923
Site:	COT: Broadway & Pantano	**Report Date**	9/18/2014 9:29:48 PM

1 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 09/10/2014 and were received at Accutest on 09/11/2014 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of C35923. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VU874

- Sample(s) C35944-10MS, C35944-10MSD were used as the QC samples indicated.
- Matrix Spike Recovery for Benzene is outside control limits due to high level in sample relative to spike amount. Matrix Spike Duplicate Recovery for Carbon disulfide is outside laboratory control limits. Associated blank spike recoveries were acceptable. Additionally, the sample spiked for the MS/MSD was not one of the samples from this SDG/work order; therefore, there are no data quality issues which affect this sample set.

Matrix: AQ **Batch ID:** VV815

- Sample(s) C35796-4MS, C35796-4MSD were used as the QC samples indicated.
- Sample(s) C35923-2 have for Dichlorodifluoromethane, Methyl bromide a CCV outside of control limits (biased high); not detected in sample.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C35923
Account: City of Tucson Environmental Services
Project: COT: Broadway & Pantano
Collected: 09/10/14

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C35923-1	**WR-704A**					
Dichlorodifluoromethane		4.4	0.50		ug/l	SW846 8260B
Tetrachloroethylene		6.2	0.50		ug/l	SW846 8260B
Trichloroethylene		0.60	0.50		ug/l	SW846 8260B
Trichlorofluoromethane		0.63	0.50		ug/l	SW846 8260B
C35923-2	**TRIP BLANK**					

No hits reported in this sample.

Northern California ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WR-704A		
Lab Sample ID:	C35923-1	**Date Sampled:**	09/10/14
Matrix:	AQ - Ground Water	**Date Received:**	09/11/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21572.D	1	09/17/14	JC	n/a	n/a	VU874
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene [a]	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide [b]	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	4.4	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-704A		
Lab Sample ID:	C35923-1	**Date Sampled:**	09/10/14
Matrix:	AQ - Ground Water	**Date Received:**	09/11/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	6.2	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	0.60	0.50	ug/l	
75-69-4	Trichlorofluoromethane	0.63	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	107%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

(a) AZ:M3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WR-704A		
Lab Sample ID:	C35923-1	**Date Sampled:**	09/10/14
Matrix:	AQ - Ground Water	**Date Received:**	09/11/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q

(b) AZ:M2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C35923-2	**Date Sampled:**	09/10/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V20678.D	1	09/16/14	BQ	n/a	n/a	VV815
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C35923-2	**Date Sampled:**	09/10/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide [a]	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Northern California ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Arizona Qualifiers
- Chain of Custody

Arizona Qualifiers

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

The following Arizona qualifiers have been applied to data and/or QC in this report.

Qual	Description
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

PHOENIX ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # 803401033309
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C C35923

Client / Reporting Information

Company Name: City of Tucson
Address: P.O. Box 27210
City: Tucson State: AZ Zip: 85726
Project Contact: Lori Ehman
Phone #: 520.791.3175
Samplers's Name: G Beyorano

Project Information

Project Name: Broadway
Street
City State
Project # PO 1154
EMAIL:
Client Purchase Order #

Requested Analysis: 8260

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	8260	LAB USE ONLY
1	WR-704A	9/10/14	0740	GB	GW	3									X	
2	TRIP BLANK					3									X	

Turnaround Time (Business days)

Approved By / Date:

- 10 Day
- 5 Day
- 3 Day
- 2 Day
- 1 Day
- Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- Commercial "A" - Results only
- Commercial "B" - Results with QC summaries
- Commerical "B+" - Results, QC, and chromatograms
- FULT1 - Level 4 data package
- EDF for Geotracker — EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	G. Beyorano	9/10/14 1000		2	9/10/14 1100	2 Fedex
	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3	FEDEX	9/11/14 0920	3	4		4
	Relinquished by:	Date Time:	Received By:	Custody Seal #	Appropriate Bottle / Pres. Y / N	Headspace Y / N	On Ice Y / N	Cooler Temp 2.5 -0.1 = 2.4
5			5		Labels match Coc? Y / N	Separate Receiving Check List used: Y / N	

* CUSTODY SEAL INTACT

MW

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C35923: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C35923 **Client:** CITY OF TUCSON **Project:** BROADWAY

Date / Time Received: 9/11/2014 9:20:00 AM **Delivery Method:** FedEx **Airbill #'s:** 803401033309

Cooler Temps (Initial/Adjusted): #1: (2.5/2.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR2;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:408.588.0200
2105 Lundy Avenue
F: 408.588.0201
San Jose, CA 95131
www/accutest.com

5.2

5

C35923: Chain of Custody
Page 2 of 2

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV815-MB	V20673.D	1	09/16/14	BQ	n/a	n/a	VV815

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV815-MB	V20673.D	1	09/16/14	BQ	n/a	n/a	VV815

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

Method Blank Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU874-MB	U21568.D	1	09/17/14	JC	n/a	n/a	VU874

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-1

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU874-MB	U21568.D	1	09/17/14	JC	n/a	n/a	VU874

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-1

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	70-130%
2037-26-5	Toluene-D8	106%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV815-BS	V20670.D	1	09/16/14	BQ	n/a	n/a	VV815
VV815-BSD	V20671.D	1	09/16/14	BQ	n/a	n/a	VV815

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	88.3	110	91.4	114	3	38-159/24
71-43-2	Benzene	20	21.0	105	21.2	106	1	77-122/25
108-86-1	Bromobenzene	20	22.0	110	21.6	108	2	76-126/17
74-97-5	Bromochloromethane	20	22.2	111	22.4	112	1	77-130/17
75-27-4	Bromodichloromethane	20	21.4	107	21.5	108	0	75-127/16
75-25-2	Bromoform	20	22.4	112	22.9	115	2	69-141/17
104-51-8	n-Butylbenzene	20	21.7	109	20.9	105	4	72-129/18
135-98-8	sec-Butylbenzene	20	23.4	117	22.5	113	4	74-128/18
98-06-6	tert-Butylbenzene	20	23.2	116	21.9	110	6	73-127/18
108-90-7	Chlorobenzene	20	22.6	113	22.7	114	0	77-122/16
75-00-3	Chloroethane	20	23.2	116	22.9	115	1	69-133/18
67-66-3	Chloroform	20	22.0	110	22.1	111	0	74-126/17
95-49-8	o-Chlorotoluene	20	23.5	118	23.1	116	2	72-127/20
106-43-4	p-Chlorotoluene	20	22.1	111	21.7	109	2	68-127/18
75-15-0	Carbon disulfide	20	19.7	99	19.4	97	2	56-137/19
56-23-5	Carbon tetrachloride	20	21.7	109	21.3	107	2	71-133/19
75-34-3	1,1-Dichloroethane	20	21.3	107	21.2	106	0	71-125/17
75-35-4	1,1-Dichloroethylene	20	22.1	111	21.5	108	3	66-125/20
563-58-6	1,1-Dichloropropene	20	22.3	112	21.9	110	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	19.8	99	20.3	102	2	65-131/20
106-93-4	1,2-Dibromoethane	20	20.9	105	21.6	108	3	75-135/17
107-06-2	1,2-Dichloroethane	20	20.3	102	21.0	105	3	71-131/17
78-87-5	1,2-Dichloropropane	20	21.0	105	21.2	106	1	78-124/16
142-28-9	1,3-Dichloropropane	20	20.8	104	21.3	107	2	78-123/16
594-20-7	2,2-Dichloropropane	20	22.4	112	21.9	110	2	70-131/19
124-48-1	Dibromochloromethane	20	21.3	107	21.7	109	2	76-132/16
75-71-8	Dichlorodifluoromethane	20	24.2	121	23.4	117	3	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	22.2	111	22.1	111	0	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	22.5	113	22.7	114	1	72-130/16
541-73-1	m-Dichlorobenzene	20	22.8	114	22.4	112	2	75-124/16
95-50-1	o-Dichlorobenzene	20	22.3	112	22.2	111	0	76-124/16
106-46-7	p-Dichlorobenzene	20	21.6	108	21.1	106	2	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	21.9	110	21.7	109	1	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	21.0	105	21.5	108	2	71-126/16
100-41-4	Ethylbenzene	20	21.9	110	21.9	110	0	76-126/17
591-78-6	2-Hexanone	80	74.0	93	77.7	97	5	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV815-BS	V20670.D	1	09/16/14	BQ	n/a	n/a	VV815
VV815-BSD	V20671.D	1	09/16/14	BQ	n/a	n/a	VV815

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	22.0	110	20.8	104	6	69-135/20
98-82-8	Isopropylbenzene	20	22.8	114	22.7	114	0	61-125/17
99-87-6	p-Isopropyltoluene	20	22.3	112	21.5	108	4	68-127/18
108-10-1	4-Methyl-2-pentanone	80	70.0	88	72.7	91	4	71-142/21
74-83-9	Methyl bromide	20	22.0	110	21.5	108	2	68-132/18
74-87-3	Methyl chloride	20	22.9	115	23.2	116	1	39-150/28
74-95-3	Methylene bromide	20	21.2	106	21.9	110	3	77-127/16
75-09-2	Methylene chloride	20	21.3	107	21.7	109	2	67-128/18
78-93-3	Methyl ethyl ketone	80	84.7	106	87.4	109	3	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	22.7	114	23.5	118	3	73-132/17
91-20-3	Naphthalene	20	20.6	103	21.0	105	2	70-136/20
103-65-1	n-Propylbenzene	20	22.7	114	21.9	110	4	71-127/17
100-42-5	Styrene	20	22.2	111	22.3	112	0	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	22.2	111	22.4	112	1	77-130/16
71-55-6	1,1,1-Trichloroethane	20	22.4	112	22.0	110	2	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	21.4	107	21.8	109	2	77-129/17
79-00-5	1,1,2-Trichloroethane	20	21.0	105	21.6	108	3	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	20.6	103	20.4	102	1	70-133/18
96-18-4	1,2,3-Trichloropropane	20	20.8	104	21.9	110	5	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	20.8	104	20.6	103	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	22.1	111	21.5	108	3	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	23.0	115	22.4	112	3	77-129/17
127-18-4	Tetrachloroethylene	20	22.1	111	21.8	109	1	69-127/20
108-88-3	Toluene	20	21.8	109	22.0	110	1	75-122/17
79-01-6	Trichloroethylene	20	21.5	108	21.5	108	0	78-123/17
75-69-4	Trichlorofluoromethane	20	23.5	118	22.9	115	3	65-136/23
75-01-4	Vinyl chloride	20	23.8	119	23.3	117	2	57-146/22
1330-20-7	Xylene (total)	60	67.7	113	68.0	113	0	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	100%	70-130%
2037-26-5	Toluene-D8	100%	100%	70-130%
460-00-4	4-Bromofluorobenzene	98%	100%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU874-BS	U21563.D	1	09/17/14	JC	n/a	n/a	VU874
VU874-BSD	U21564.D	1	09/17/14	JC	n/a	n/a	VU874

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	72.7	91	72.5	91	0	38-159/24
71-43-2	Benzene	20	17.7	89	17.7	89	0	77-122/25
108-86-1	Bromobenzene	20	18.9	95	18.9	95	0	76-126/17
74-97-5	Bromochloromethane	20	17.9	90	18.5	93	3	77-130/17
75-27-4	Bromodichloromethane	20	18.3	92	18.4	92	1	75-127/16
75-25-2	Bromoform	20	21.0	105	20.9	105	0	69-141/17
104-51-8	n-Butylbenzene	20	17.5	88	17.5	88	0	72-129/18
135-98-8	sec-Butylbenzene	20	18.9	95	19.2	96	2	74-128/18
98-06-6	tert-Butylbenzene	20	19.2	96	19.4	97	1	73-127/18
108-90-7	Chlorobenzene	20	18.7	94	18.7	94	0	77-122/16
75-00-3	Chloroethane	20	18.2	91	17.2	86	6	69-133/18
67-66-3	Chloroform	20	17.5	88	18.0	90	3	74-126/17
95-49-8	o-Chlorotoluene	20	19.4	97	19.3	97	1	72-127/20
106-43-4	p-Chlorotoluene	20	18.8	94	18.8	94	0	68-127/18
75-15-0	Carbon disulfide	20	13.2	66	13.7	69	4	56-137/19
56-23-5	Carbon tetrachloride	20	18.6	93	18.6	93	0	71-133/19
75-34-3	1,1-Dichloroethane	20	16.4	82	16.7	84	2	71-125/17
75-35-4	1,1-Dichloroethylene	20	15.9	80	16.5	83	4	66-125/20
563-58-6	1,1-Dichloropropene	20	18.1	91	18.2	91	1	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	19.4	97	19.2	96	1	65-131/20
106-93-4	1,2-Dibromoethane	20	18.9	95	19.0	95	1	75-135/17
107-06-2	1,2-Dichloroethane	20	18.4	92	18.3	92	1	71-131/17
78-87-5	1,2-Dichloropropane	20	17.4	87	17.5	88	1	78-124/16
142-28-9	1,3-Dichloropropane	20	17.8	89	17.9	90	1	78-123/16
594-20-7	2,2-Dichloropropane	20	17.6	88	17.0	85	3	70-131/19
124-48-1	Dibromochloromethane	20	19.1	96	19.0	95	1	76-132/16
75-71-8	Dichlorodifluoromethane	20	18.4	92	14.0	70	27	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	17.4	87	17.7	89	2	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	18.8	94	18.9	95	1	72-130/16
541-73-1	m-Dichlorobenzene	20	19.2	96	19.2	96	0	75-124/16
95-50-1	o-Dichlorobenzene	20	19.1	96	19.2	96	1	76-124/16
106-46-7	p-Dichlorobenzene	20	18.2	91	18.2	91	0	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	16.6	83	17.0	85	2	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	18.5	93	18.4	92	1	71-126/16
100-41-4	Ethylbenzene	20	18.4	92	18.3	92	1	76-126/17
591-78-6	2-Hexanone	80	90.1	113	88.6	111	2	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU874-BS	U21563.D	1	09/17/14	JC	n/a	n/a	VU874
VU874-BSD	U21564.D	1	09/17/14	JC	n/a	n/a	VU874

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	16.9	85	17.3	87	2	69-135/20
98-82-8	Isopropylbenzene	20	19.4	97	19.4	97	0	61-125/17
99-87-6	p-Isopropyltoluene	20	18.6	93	18.7	94	1	68-127/18
108-10-1	4-Methyl-2-pentanone	80	84.6	106	83.0	104	2	71-142/21
74-83-9	Methyl bromide	20	17.1	86	16.2	81	5	68-132/18
74-87-3	Methyl chloride	20	19.7	99	17.4	87	12	39-150/28
74-95-3	Methylene bromide	20	19.0	95	19.0	95	0	77-127/16
75-09-2	Methylene chloride	20	16.8	84	17.2	86	2	67-128/18
78-93-3	Methyl ethyl ketone	80	80.5	101	81.0	101	1	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	19.6	98	20.3	102	4	73-132/17
91-20-3	Naphthalene	20	19.0	95	19.2	96	1	70-136/20
103-65-1	n-Propylbenzene	20	18.5	93	18.6	93	1	71-127/17
100-42-5	Styrene	20	19.3	97	19.4	97	1	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	19.1	96	19.2	96	1	77-130/16
71-55-6	1,1,1-Trichloroethane	20	17.8	89	18.1	91	2	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	18.9	95	18.8	94	1	77-129/17
79-00-5	1,1,2-Trichloroethane	20	18.3	92	18.3	92	0	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	18.0	90	18.1	91	1	70-133/18
96-18-4	1,2,3-Trichloropropane	20	19.3	97	19.2	96	1	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	18.0	90	18.1	91	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	18.7	94	18.7	94	0	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	19.5	98	19.6	98	1	77-129/17
127-18-4	Tetrachloroethylene	20	18.1	91	18.4	92	2	69-127/20
108-88-3	Toluene	20	18.2	91	18.2	91	0	75-122/17
79-01-6	Trichloroethylene	20	17.9	90	18.0	90	1	78-123/17
75-69-4	Trichlorofluoromethane	20	20.5	103	18.6	93	10	65-136/23
75-01-4	Vinyl chloride	20	17.5	88	15.7	79	11	57-146/22
1330-20-7	Xylene (total)	60	57.9	97	57.3	96	1	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	98%	101%	70-130%
2037-26-5	Toluene-D8	104%	103%	70-130%
460-00-4	4-Bromofluorobenzene	104%	105%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35796-4MS	V20691.D	500	09/16/14	BQ	n/a	n/a	VV815
C35796-4MSD	V20692.D	500	09/16/14	BQ	n/a	n/a	VV815
C35796-4	V20674.D	500	09/16/14	BQ	n/a	n/a	VV815

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-2

CAS No.	Compound	C35796-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		40000	41500	104	40000	40800	102	2	38-159/24
71-43-2	Benzene	ND		10000	9870	99	10000	9980	100	1	77-122/16
108-86-1	Bromobenzene	ND		10000	10100	101	10000	10300	103	2	76-126/17
74-97-5	Bromochloromethane	ND		10000	10700	107	10000	10300	103	4	77-130/17
75-27-4	Bromodichloromethane	ND		10000	10000	100	10000	10100	101	1	75-127/16
75-25-2	Bromoform	ND		10000	10200	102	10000	10300	103	1	69-141/17
104-51-8	n-Butylbenzene	ND		10000	9720	97	10000	9870	99	2	72-129/18
135-98-8	sec-Butylbenzene	ND		10000	10500	105	10000	10800	108	3	74-128/18
98-06-6	tert-Butylbenzene	ND		10000	10600	106	10000	10600	106	0	73-127/18
108-90-7	Chlorobenzene	ND		10000	10500	105	10000	10600	106	1	77-122/16
75-00-3	Chloroethane	ND		10000	9790	98	10000	9900	99	1	69-133/18
67-66-3	Chloroform	ND		10000	10300	103	10000	10200	102	1	74-126/17
95-49-8	o-Chlorotoluene	ND		10000	10700	107	10000	10900	109	2	72-127/20
106-43-4	p-Chlorotoluene	ND		10000	10200	102	10000	10200	102	0	68-127/18
75-15-0	Carbon disulfide	ND		10000	9080	91	10000	9080	91	0	56-137/19
56-23-5	Carbon tetrachloride	ND		10000	10100	101	10000	10200	102	1	71-133/19
75-34-3	1,1-Dichloroethane	2550		10000	12200	97	10000	12200	97	0	71-125/17
75-35-4	1,1-Dichloroethylene	18400		10000	26400	80	10000	26300	79	0	66-125/20
563-58-6	1,1-Dichloropropene	ND		10000	10200	102	10000	10400	104	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		10000	9140	91	10000	9130	91	0	65-131/20
106-93-4	1,2-Dibromoethane	ND		10000	10100	101	10000	10100	101	0	75-135/17
107-06-2	1,2-Dichloroethane	ND		10000	9870	99	10000	9800	98	1	71-131/17
78-87-5	1,2-Dichloropropane	ND		10000	9990	100	10000	10000	100	0	78-124/16
142-28-9	1,3-Dichloropropane	ND		10000	9900	99	10000	9870	99	0	78-123/16
594-20-7	2,2-Dichloropropane	ND		10000	9590	96	10000	9390	94	2	70-131/19
124-48-1	Dibromochloromethane	ND		10000	9940	99	10000	9900	99	0	76-132/16
75-71-8	Dichlorodifluoromethane	ND		10000	10000	100	10000	9810	98	2	32-168/28
156-59-2	cis-1,2-Dichloroethylene	ND		10000	10300	103	10000	10200	102	1	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		10000	10200	102	10000	10300	103	1	72-130/16
541-73-1	m-Dichlorobenzene	ND		10000	10500	105	10000	10500	105	0	75-124/16
95-50-1	o-Dichlorobenzene	ND		10000	10500	105	10000	10600	106	1	76-124/16
106-46-7	p-Dichlorobenzene	ND		10000	9960	100	10000	10100	101	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		10000	10200	102	10000	10200	102	0	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		10000	9460	95	10000	9490	95	0	71-126/16
100-41-4	Ethylbenzene	ND		10000	10100	101	10000	10200	102	1	76-126/17
591-78-6	2-Hexanone	ND		40000	36400	91	40000	35700	89	2	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35796-4MS	V20691.D	500	09/16/14	BQ	n/a	n/a	VV815
C35796-4MSD	V20692.D	500	09/16/14	BQ	n/a	n/a	VV815
C35796-4	V20674.D	500	09/16/14	BQ	n/a	n/a	VV815

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-2

CAS No.	Compound	C35796-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		10000	9650	97	10000	10100	101	5	69-135/20
98-82-8	Isopropylbenzene	ND		10000	10500	105	10000	10700	107	2	61-125/17
99-87-6	p-Isopropyltoluene	ND		10000	10100	101	10000	10300	103	2	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		40000	34500	86	40000	34000	85	1	71-142/21
74-83-9	Methyl bromide	ND		10000	9300	93	10000	9340	93	0	68-132/18
74-87-3	Methyl chloride	ND		10000	10100	101	10000	9800	98	3	39-150/28
74-95-3	Methylene bromide	ND		10000	10200	102	10000	10200	102	0	77-127/16
75-09-2	Methylene chloride	ND		10000	10300	103	10000	10100	101	2	67-128/18
78-93-3	Methyl ethyl ketone	ND		40000	40200	101	40000	38800	97	4	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		10000	11200	112	10000	10800	108	4	73-132/17
91-20-3	Naphthalene	ND		10000	10100	101	10000	10100	101	0	70-136/20
103-65-1	n-Propylbenzene	ND		10000	10200	102	10000	10500	105	3	71-127/17
100-42-5	Styrene	ND		10000	10400	104	10000	10500	105	1	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	ND		10000	10400	104	10000	10400	104	0	77-130/16
71-55-6	1,1,1-Trichloroethane	668		10000	11000	103	10000	10900	102	1	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		10000	10200	102	10000	10200	102	0	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		10000	10200	102	10000	10200	102	0	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		10000	9810	98	10000	9760	98	1	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		10000	9210	92	10000	9250	93	0	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		10000	9730	97	10000	9830	98	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	ND		10000	10100	101	10000	10200	102	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	ND		10000	10400	104	10000	10600	106	2	77-129/17
127-18-4	Tetrachloroethylene	ND		10000	10000	100	10000	10300	103	3	69-127/20
108-88-3	Toluene	ND		10000	10100	101	10000	10200	102	1	75-122/17
79-01-6	Trichloroethylene	ND		10000	10000	100	10000	10100	101	1	78-123/17
75-69-4	Trichlorofluoromethane	ND		10000	9610	96	10000	9510	95	1	65-136/23
75-01-4	Vinyl chloride	ND		10000	10100	101	10000	9930	99	2	57-146/22
1330-20-7	Xylene (total)	ND		30000	31500	105	30000	31900	106	1	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C35796-4	Limits
1868-53-7	Dibromofluoromethane	100%	99%	96%	70-130%
2037-26-5	Toluene-D8	99%	101%	100%	70-130%
460-00-4	4-Bromofluorobenzene	100%	101%	100%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35944-10MS	U21585.D	20	09/17/14	JC	n/a	n/a	VU874
C35944-10MSD	U21586.D	20	09/17/14	JC	n/a	n/a	VU874
C35944-10 [a]	U21582.D	20	09/17/14	JC	n/a	n/a	VU874

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-1

CAS No.	Compound	C35944-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	400	U	1600	1620	101	1600	1560	98	4	38-159/24
71-43-2	Benzene	937		400	1240	76* [b]	400	1260	81	2	77-122/16
108-86-1	Bromobenzene	20	U	400	383	96	400	377	94	2	76-126/17
74-97-5	Bromochloromethane	20	U	400	379	95	400	377	94	1	77-130/17
75-27-4	Bromodichloromethane	20	U	400	401	100	400	386	97	4	75-127/16
75-25-2	Bromoform	20	U	400	378	95	400	355	89	6	69-141/17
104-51-8	n-Butylbenzene	40	U	400	361	90	400	362	91	0	72-129/18
135-98-8	sec-Butylbenzene	40	U	400	389	97	400	388	97	0	74-128/18
98-06-6	tert-Butylbenzene	40	U	400	395	99	400	392	98	1	73-127/18
108-90-7	Chlorobenzene	20	U	400	375	94	400	374	94	0	77-122/16
75-00-3	Chloroethane	20	U	400	392	98	400	389	97	1	69-133/18
67-66-3	Chloroform	20	U	400	412	103	400	399	100	3	74-126/17
95-49-8	o-Chlorotoluene	40	U	400	414	104	400	404	101	2	72-127/20
106-43-4	p-Chlorotoluene	40	U	400	393	98	400	388	97	1	68-127/18
75-15-0	Carbon disulfide	20	U	400	251	63	400	221	55* [c]	13	56-137/19
56-23-5	Carbon tetrachloride	20	U	400	415	104	400	409	102	1	71-133/19
75-34-3	1,1-Dichloroethane	20	U	400	380	95	400	368	92	3	71-125/17
75-35-4	1,1-Dichloroethylene	20	U	400	339	85	400	333	83	2	66-125/20
563-58-6	1,1-Dichloropropene	20	U	400	393	98	400	391	98	1	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	40	U	400	428	107	400	405	101	6	65-131/20
106-93-4	1,2-Dibromoethane	20	U	400	395	99	400	387	97	2	75-135/17
107-06-2	1,2-Dichloroethane	20	U	400	443	111	400	427	107	4	71-131/17
78-87-5	1,2-Dichloropropane	20	U	400	370	93	400	369	92	0	78-124/16
142-28-9	1,3-Dichloropropane	20	U	400	383	96	400	376	94	2	78-123/16
594-20-7	2,2-Dichloropropane	20	U	400	366	92	400	353	88	4	70-131/19
124-48-1	Dibromochloromethane	20	U	400	377	94	400	356	89	6	76-132/16
75-71-8	Dichlorodifluoromethane	20	U	400	408	102	400	377	94	8	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	U	400	373	93	400	367	92	2	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	U	400	393	98	400	387	97	2	72-130/16
541-73-1	m-Dichlorobenzene	20	U	400	388	97	400	383	96	1	75-124/16
95-50-1	o-Dichlorobenzene	20	U	400	391	98	400	382	96	2	76-124/16
106-46-7	p-Dichlorobenzene	20	U	400	369	92	400	364	91	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	U	400	358	90	400	350	88	2	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	U	400	389	97	400	376	94	3	71-126/16
100-41-4	Ethylbenzene	20	U	400	384	96	400	380	95	1	76-126/17
591-78-6	2-Hexanone	200	U	1600	2080	130	1600	2000	125	4	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35944-10MS	U21585.D	20	09/17/14	JC	n/a	n/a	VU874
C35944-10MSD	U21586.D	20	09/17/14	JC	n/a	n/a	VU874
C35944-10 [a]	U21582.D	20	09/17/14	JC	n/a	n/a	VU874

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-1

CAS No.	Compound	C35944-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	40 U		400	330	83	400	339	85	3	69-135/20
98-82-8	Isopropylbenzene	20 U		400	399	100	400	401	100	1	61-125/17
99-87-6	p-Isopropyltoluene	40 U		400	378	95	400	379	95	0	68-127/18
108-10-1	4-Methyl-2-pentanone	200 U		1600	1920	120	1600	1880	118	2	71-142/21
74-83-9	Methyl bromide	40 U		400	348	87	400	347	87	0	68-132/18
74-87-3	Methyl chloride	20 U		400	447	112	400	421	105	6	39-150/28
74-95-3	Methylene bromide	20 U		400	411	103	400	410	103	0	77-127/16
75-09-2	Methylene chloride	200 U		400	360	90	400	352	88	2	67-128/18
78-93-3	Methyl ethyl ketone	200 U		1600	1750	109	1600	1730	108	1	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20 U		400	463	116	400	448	112	3	73-132/17
91-20-3	Naphthalene	100 U		400	390	98	400	384	96	2	70-136/20
103-65-1	n-Propylbenzene	40 U		400	386	97	400	381	95	1	71-127/17
100-42-5	Styrene	20 U		400	393	98	400	390	98	1	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20 U		400	394	99	400	389	97	1	77-130/16
71-55-6	1,1,1-Trichloroethane	20 U		400	428	107	400	418	105	2	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20 U		400	397	99	400	388	97	2	77-129/17
79-00-5	1,1,2-Trichloroethane	20 U		400	382	96	400	378	95	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	40 U		400	350	88	400	347	87	1	70-133/18
96-18-4	1,2,3-Trichloropropane	40 U		400	390	98	400	374	94	4	69-126/18
120-82-1	1,2,4-Trichlorobenzene	40 U		400	349	87	400	348	87	0	68-129/17
95-63-6	1,2,4-Trimethylbenzene	40 U		400	388	97	400	381	95	2	74-129/17
108-67-8	1,3,5-Trimethylbenzene	40 U		400	403	101	400	395	99	2	77-129/17
127-18-4	Tetrachloroethylene	20 U		400	344	86	400	342	86	1	69-127/20
108-88-3	Toluene	20 U		400	369	92	400	368	92	0	75-122/17
79-01-6	Trichloroethylene	20 U		400	377	94	400	379	95	1	78-123/17
75-69-4	Trichlorofluoromethane	20 U		400	458	115	400	441	110	4	65-136/23
75-01-4	Vinyl chloride	20 U		400	384	96	400	369	92	4	57-146/22
1330-20-7	Xylene (total)	40 U		1200	1160	97	1200	1160	97	0	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C35944-10	Limits
1868-53-7	Dibromofluoromethane	110%	109%		70-130%
2037-26-5	Toluene-D8	103%	104%		70-130%
460-00-4	4-Bromofluorobenzene	109%	109%		70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C35923
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C35944-10MS	U21585.D	20	09/17/14	JC	n/a	n/a	VU874
C35944-10MSD	U21586.D	20	09/17/14	JC	n/a	n/a	VU874
C35944-10 [a]	U21582.D	20	09/17/14	JC	n/a	n/a	VU874

The QC reported here applies to the following samples: **Method:** SW846 8260B

C35923-1

(a) Sample used for QC purposes only.
(b) Outside control limits due to high level in sample relative to spike amount. AZ:M3
(c) Outside laboratory control limits. AZ:M2

* = Outside of Control Limits.

Northern California
ACCUTEST
LABORATORIES

Reissue #1
10/09/14

Technical Report for

City of Tucson Environmental Services

COT: Broadway & Pantano

Accutest Job Number: C36172

Sampling Date: 09/23/14

Report to:

City of Tucson - Env.Services
4400 S. Park Ave., Bldg 1 P.O. Box 27210
Tucson, AZ 85726
lori.ehman@tucsonaz.gov

ATTN: Lori Ehman

Total number of pages in report: **68**

NELAP ACCREDITED TNI LABORATORY

James J. Rhudy
Lab Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Elvin Kumar 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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October 9, 2014

Lori Ehman
City of Tucson – Env. Services
4400 S. Park Ave., Bldg 1 P.O. Box 27210
Tucson, AZ 85726

Re: Accutest Job # C36172 Reissue

Dear Ms. Ehman,

This is a reissued report for Accutest Job # **C36172**, original report dated 10/3/2014.

After further investigation of the volatiles data, it has been determined that the originally reported detections for **C36172-1 (*C26-25*)** were, in fact, due to instrument carryover from the previous injection. The sample was reanalyzed 10/7/14 at a 5x dilution and these results are incorporated into this revised report. Due to over-dilution, as there were no detections above RL in this run, the sample was reanalyzed 10/8/14 (1-day past hold time) at 1x using a vial with headspace. These reanalysis results are reported on a separate report, Accutest Job # C36172R.

We apologize for any inconvenience the above issue may have caused you. Please contact us at 408-588-0200 if we can be of further assistance in this matter, or if you have any questions regarding this data report.

Sincerely,

Accutest Laboratories

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Accutest Laboratories

Sample Summary

City of Tucson Environmental Services

COT: Broadway & Pantano

Job No: C36172

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C36172-1	09/23/14	09:10	MT	09/25/14	AQ	Ground Water	C26-25
C36172-2	09/23/14	09:20	MT	09/25/14	AQ	Ground Water	C26-50
C36172-3	09/23/14	09:30	MT	09/25/14	AQ	Ground Water	C26-75
C36172-4	09/23/14	09:40	MT	09/25/14	AQ	Ground Water	C26-100
C36172-5	09/23/14	11:30	MT	09/25/14	AQ	Ground Water	R90A-25
C36172-6	09/23/14	11:40	MT	09/25/14	AQ	Ground Water	R90A-50
C36172-7	09/23/14	11:50	MT	09/25/14	AQ	Ground Water	R90A-75
C36172-8	09/23/14	12:00	MT	09/25/14	AQ	Ground Water	R90A-100
C36172-9	09/23/14	15:02	MT	09/25/14	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	City of Tucson Environmental Services	**Job No**	C36172
Site:	COT: Broadway & Pantano	**Report Date**	10/3/2014 1:14:06 AM

8 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 09/23/2014 and were received at Accutest on 09/25/2014 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of C36172. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VU890

- Sample(s) C36049-23MS, C36049-23MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VV827

- Sample(s) C36172-1, C36172-4, C36172-5, C36172-6, C36172-7, C36172-8 have for Acetone, Methyl chloride a CCV outside of control limits (biased high); not detected in samples.
- Sample(s) C36167-1MS, C36167-1MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) and RPD(s) for MSD for cis-1,3-Dichloropropene, Styrene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene, 1,2,3-Trichloropropane are outside control limits. Probable cause due to matrix interference. The associated lab controls (blank spike and daily calibration check) had recoveries within control limits for these analytes. Additionally, the sample spiked for the MS/MSD was not one of the samples from this SDG/work order; therefore, there are no data quality issues that affect this sample set.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C36172
Account: City of Tucson Environmental Services
Project: COT: Broadway & Pantano
Collected: 09/23/14

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C36172-1	**C26-25**					
No hits reported in this sample.						
C36172-2	**C26-50**					
Chloroform		0.77	0.50		ug/l	SW846 8260B
Tetrachloroethylene		0.60	0.50		ug/l	SW846 8260B
C36172-3	**C26-75**					
Chloroform		0.71	0.50		ug/l	SW846 8260B
C36172-4	**C26-100**					
Chloroform		0.74	0.50		ug/l	SW846 8260B
Tetrachloroethylene		0.53	0.50		ug/l	SW846 8260B
C36172-5	**R90A-25**					
No hits reported in this sample.						
C36172-6	**R90A-50**					
No hits reported in this sample.						
C36172-7	**R90A-75**					
No hits reported in this sample.						
C36172-8	**R90A-100**					
No hits reported in this sample.						
C36172-9	**TRIP BLANK**					
No hits reported in this sample.						

Northern California ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	C26-25		
Lab Sample ID:	C36172-1	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U22091.D	5	10/07/14	JC	n/a	n/a	VU901
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	100	ug/l	
71-43-2	Benzene	ND	5.0	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	ug/l	
75-25-2	Bromoform	ND	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	10	ug/l	
135-98-8	sec-Butylbenzene	ND	10	ug/l	
98-06-6	tert-Butylbenzene	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	2.5	ug/l	
75-00-3	Chloroethane	ND	2.5	ug/l	
67-66-3	Chloroform	ND	2.5	ug/l	
95-49-8	o-Chlorotoluene	ND	10	ug/l	
106-43-4	p-Chlorotoluene	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.5	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.5	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.5	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.5	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C26-25		
Lab Sample ID:	C36172-1	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	50	ug/l	
74-83-9	Methyl bromide	ND	10	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	25	ug/l	
78-93-3	Methyl ethyl ketone	ND	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	25	ug/l	
103-65-1	n-Propylbenzene	ND	10	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	ug/l	
127-18-4	Tetrachloroethylene	ND	2.5	ug/l	
108-88-3	Toluene	ND	5.0	ug/l	
79-01-6	Trichloroethylene	ND	2.5	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.5	ug/l	
75-01-4	Vinyl chloride	ND	2.5	ug/l	
1330-20-7	Xylene (total)	ND	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C26-50		
Lab Sample ID:	C36172-2	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21014.D	1	10/02/14	BQ	n/a	n/a	VV831
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	0.77	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C26-50		
Lab Sample ID:	C36172-2	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.60	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C26-75		
Lab Sample ID:	C36172-3	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21939.D	1	10/02/14	JC	n/a	n/a	VU893
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	0.71	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C26-75		
Lab Sample ID:	C36172-3	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C26-100		
Lab Sample ID:	C36172-4	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V20936.D	1	09/29/14	BQ	n/a	n/a	VV827
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone [a]	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	0.74	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene [b]	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C26-100		
Lab Sample ID:	C36172-4	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene [b]	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene [b]	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [a]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene [b]	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane [c]	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.53	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C26-100		
Lab Sample ID:	C36172-4	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q

(b) AZ:M2,R9
(c) AZ:R9

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R90A-25		
Lab Sample ID:	C36172-5	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V20937.D	1	09/29/14	BQ	n/a	n/a	VV827
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone [a]	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene [b]	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R90A-25		
Lab Sample ID:	C36172-5	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene [b]	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene [b]	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [a]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene [b]	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane [c]	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R90A-25		
Lab Sample ID:	C36172-5	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q

(b) AZ:M2,R9
(c) AZ:R9

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R90A-50		
Lab Sample ID:	C36172-6	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V20938.D	1	09/29/14	BQ	n/a	n/a	VV827
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone [a]	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene [b]	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R90A-50		
Lab Sample ID:	C36172-6	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene [b]	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene [b]	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [a]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene [b]	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane [c]	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R90A-50		
Lab Sample ID:	C36172-6	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q

(b) AZ:M2,R9
(c) AZ:R9

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R90A-75		
Lab Sample ID:	C36172-7	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V20939.D	1	09/29/14	BQ	n/a	n/a	VV827
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone [a]	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene [b]	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R90A-75		
Lab Sample ID:	C36172-7	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene [b]	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene [b]	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [a]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene [b]	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane [c]	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R90A-75		
Lab Sample ID:	C36172-7	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q

(b) AZ:M2,R9
(c) AZ:R9

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R90A-100		
Lab Sample ID:	C36172-8	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V20940.D	1	09/29/14	BQ	n/a	n/a	VV827
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone [a]	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene [b]	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R90A-100		
Lab Sample ID:	C36172-8	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene [b]	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene [b]	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride [a]	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene [b]	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane [c]	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

(a) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R90A-100		
Lab Sample ID:	C36172-8	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q

(b) AZ:M2,R9
(c) AZ:R9

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C36172-9	**Date Sampled:**	09/23/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21881.D	1	09/30/14	JC	n/a	n/a	VU890
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C36172-9	**Date Sampled:**	09/23/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Northern California ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Arizona Qualifiers
- Chain of Custody

Arizona Qualifiers

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

The following Arizona qualifiers have been applied to data and/or QC in this report.

Qual	Description
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
R9	Sample RPD exceeded the laboratory acceptance limit.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

PHOENIX

ACCUTEST® LABORATORIES

CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # 8034010333 1
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C 36172

Client / Reporting Information

Company Name: City of Tucson
Address: PO Box 27210
City: Tucson State: AZ Zip: 85726
Project Contact: Lori Ehman
Phone #: 520-791-3175
Samplers's Name: Marc Taylor

Project Information

Project Name: BROADWAY/PANTANO
Street:
City: State:
Project #: P01154
EMAIL: Lori.Ehman@tucsonaz.gov
Client Purchase Order #:

Requested Analysis: 8260

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; Ol-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	Na2S2O3	MEOH	ENCORE	8260	LAB USE ONLY
1	C26 - 25	9/23/14	0910	MT	GW	3	3								✓	
2	C26 - 50	9/23/14	0920	MT	GW	3	3								✓	
3	C26 - 75	9/23/14	0930	MT	GW	3	3								✓	
4	C26 - 100	9/23/14	0940	MT	GW	3	3								✓	2 vials broken upon receiving
5	R90a - 25	9/23/14	1130	MT	GW	3	3								✓	
6	R90a - 50	9/23/14	1140	MT	GW	3	3								✓	
7	R90a - 75	9/23/14	1150	MT	GW	3	3								✓	
8	R90a - 100	9/23/14	1200	MT	GW	3	3								✓	
9	Trip Blank	9/23/14	1502			3	3								✓	
		9/23/14														

Turnaround Time (Business days)

Approved By/ Date:

- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [ ] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	9/23/14 1570	1	2	9/23/14 1630	2 Fedex
3 Fedex	9/25/14 0950	3	4		4
5		5			

Custody Seal #: Y

Appropriate Bottle / Pres. Y / N Headspace Y / N On Ice Y / N Cooler Temp. 2.1-0.1=2.0 °C

Labels match Coc? Y / N Separate Receiving Check List used: Y / N

5.2 5

C36172: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C36172 **Client:** CITY OF TUCSON **Project:** BROADWAY/PANTANO

Date / Time Received: 9/25/2014 9:50:00 AM **Delivery Method:** FedEx **Airbill #'s:** 80340103333

Cooler Temps (Initial/Adjusted): #1: (2.1/2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR2;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments Sample C26-100 (2 x 40ml Vials w/HCL) received broken in FedEx Shipment

Accutest Laboratories
V:408.588.0200

2105 Lundy Avenue
F: 408.588.0201

San Jose, CA 95131
www/accutest.com

C36172: Chain of Custody
Page 2 of 2

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV827-MB	V20927.D	1	09/29/14	BQ	n/a	n/a	VV827

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-4, C36172-5, C36172-6, C36172-7, C36172-8

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV827-MB	V20927.D	1	09/29/14	BQ	n/a	n/a	VV827

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-4, C36172-5, C36172-6, C36172-7, C36172-8

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

Method Blank Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU890-MB	U21876.D	1	09/30/14	JC	n/a	n/a	VU890

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-9

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU890-MB	U21876.D	1	09/30/14	JC	n/a	n/a	VU890

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-9

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	92%	70-130%

Method Blank Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU893-MB	U21934.D	1	10/02/14	JC	n/a	n/a	VU893

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU893-MB	U21934.D	1	10/02/14	JC	n/a	n/a	VU893

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-3

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	89%	70-130%

Method Blank Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV831-MB	V21008.D	1	10/02/14	BQ	n/a	n/a	VV831

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV831-MB	V21008.D	1	10/02/14	BQ	n/a	n/a	VV831

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-2

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	70-130%
2037-26-5	Toluene-D8	106%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

Method Blank Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU901-MB	U22073.D	1	10/07/14	JC	n/a	n/a	VU901

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU901-MB	U22073.D	1	10/07/14	JC	n/a	n/a	VU901

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	91%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV827-BS	V20924.D	1	09/29/14	BQ	n/a	n/a	VV827
VV827-BSD	V20925.D	1	09/29/14	BQ	n/a	n/a	VV827

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-4, C36172-5, C36172-6, C36172-7, C36172-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	94.1	118	89.3	112	5	38-159/24
71-43-2	Benzene	20	18.9	95	18.7	94	1	77-122/25
108-86-1	Bromobenzene	20	20.0	100	20.1	101	0	76-126/17
74-97-5	Bromochloromethane	20	20.5	103	20.5	103	0	77-130/17
75-27-4	Bromodichloromethane	20	19.5	98	19.3	97	1	75-127/16
75-25-2	Bromoform	20	20.6	103	20.6	103	0	69-141/17
104-51-8	n-Butylbenzene	20	19.5	98	19.6	98	1	72-129/18
135-98-8	sec-Butylbenzene	20	20.7	104	20.6	103	0	74-128/18
98-06-6	tert-Butylbenzene	20	20.3	102	20.4	102	0	73-127/18
108-90-7	Chlorobenzene	20	20.9	105	20.8	104	0	77-122/16
75-00-3	Chloroethane	20	18.8	94	18.4	92	2	69-133/18
67-66-3	Chloroform	20	19.1	96	19.1	96	0	74-126/17
95-49-8	o-Chlorotoluene	20	20.8	104	20.8	104	0	72-127/20
106-43-4	p-Chlorotoluene	20	19.4	97	19.4	97	0	68-127/18
75-15-0	Carbon disulfide	20	14.4	72	13.7	69	5	56-137/19
56-23-5	Carbon tetrachloride	20	18.7	94	18.0	90	4	71-133/19
75-34-3	1,1-Dichloroethane	20	18.1	91	18.0	90	1	71-125/17
75-35-4	1,1-Dichloroethylene	20	17.2	86	16.5	83	4	66-125/20
563-58-6	1,1-Dichloropropene	20	19.3	97	19.1	96	1	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	19.0	95	18.5	93	3	65-131/20
106-93-4	1,2-Dibromoethane	20	21.2	106	21.0	105	1	75-135/17
107-06-2	1,2-Dichloroethane	20	19.3	97	19.3	97	0	71-131/17
78-87-5	1,2-Dichloropropane	20	19.4	97	19.3	97	1	78-124/16
142-28-9	1,3-Dichloropropane	20	20.4	102	20.4	102	0	78-123/16
594-20-7	2,2-Dichloropropane	20	18.7	94	18.0	90	4	70-131/19
124-48-1	Dibromochloromethane	20	20.1	101	19.8	99	2	76-132/16
75-71-8	Dichlorodifluoromethane	20	13.9	70	12.5	63	11	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	19.5	98	19.3	97	1	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	20.9	105	20.7	104	1	72-130/16
541-73-1	m-Dichlorobenzene	20	21.0	105	21.1	106	0	75-124/16
95-50-1	o-Dichlorobenzene	20	21.2	106	21.1	106	0	76-124/16
106-46-7	p-Dichlorobenzene	20	20.0	100	20.1	101	0	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	18.3	92	17.9	90	2	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	19.5	98	19.5	98	0	71-126/16
100-41-4	Ethylbenzene	20	19.7	99	19.7	99	0	76-126/17
591-78-6	2-Hexanone	80	83.7	105	79.5	99	5	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV827-BS	V20924.D	1	09/29/14	BQ	n/a	n/a	VV827
VV827-BSD	V20925.D	1	09/29/14	BQ	n/a	n/a	VV827

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-4, C36172-5, C36172-6, C36172-7, C36172-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	20.5	103	20.2	101	1	69-135/20
98-82-8	Isopropylbenzene	20	20.9	105	20.6	103	1	61-125/17
99-87-6	p-Isopropyltoluene	20	19.8	99	19.9	100	1	68-127/18
108-10-1	4-Methyl-2-pentanone	80	77.7	97	74.2	93	5	71-142/21
74-83-9	Methyl bromide	20	17.8	89	17.2	86	3	68-132/18
74-87-3	Methyl chloride	20	19.5	98	19.0	95	3	39-150/28
74-95-3	Methylene bromide	20	21.1	106	21.0	105	0	77-127/16
75-09-2	Methylene chloride	20	18.5	93	18.3	92	1	67-128/18
78-93-3	Methyl ethyl ketone	80	89.6	112	88.1	110	2	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	21.7	109	21.2	106	2	73-132/17
91-20-3	Naphthalene	20	20.0	100	19.8	99	1	70-136/20
103-65-1	n-Propylbenzene	20	19.7	99	19.5	98	1	71-127/17
100-42-5	Styrene	20	21.0	105	20.9	105	0	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	20.5	103	20.2	101	1	77-130/16
71-55-6	1,1,1-Trichloroethane	20	18.9	95	18.7	94	1	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	22.1	111	22.1	111	0	77-129/17
79-00-5	1,1,2-Trichloroethane	20	21.2	106	20.7	104	2	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	18.5	93	18.2	91	2	70-133/18
96-18-4	1,2,3-Trichloropropane	20	18.1	91	18.3	92	1	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	19.4	97	19.1	96	2	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	19.3	97	19.4	97	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	19.8	99	19.9	100	1	77-129/17
127-18-4	Tetrachloroethylene	20	19.6	98	19.4	97	1	69-127/20
108-88-3	Toluene	20	19.6	98	19.2	96	2	75-122/17
79-01-6	Trichloroethylene	20	20.0	100	19.6	98	2	78-123/17
75-69-4	Trichlorofluoromethane	20	18.9	95	18.3	92	3	65-136/23
75-01-4	Vinyl chloride	20	18.3	92	17.6	88	4	57-146/22
1330-20-7	Xylene (total)	60	62.0	103	61.4	102	1	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	98%	98%	70-130%
2037-26-5	Toluene-D8	99%	99%	70-130%
460-00-4	4-Bromofluorobenzene	103%	103%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU890-BS	U21871.D	1	09/30/14	JC	n/a	n/a	VU890
VU890-BSD	U21872.D	1	09/30/14	JC	n/a	n/a	VU890

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	82.3	103	77.5	97	6	38-159/24
71-43-2	Benzene	20	19.5	98	19.1	96	2	77-122/25
108-86-1	Bromobenzene	20	19.7	99	19.8	99	1	76-126/17
74-97-5	Bromochloromethane	20	20.3	102	19.2	96	6	77-130/17
75-27-4	Bromodichloromethane	20	19.8	99	19.4	97	2	75-127/16
75-25-2	Bromoform	20	21.9	110	21.5	108	2	69-141/17
104-51-8	n-Butylbenzene	20	19.4	97	19.7	99	2	72-129/18
135-98-8	sec-Butylbenzene	20	20.3	102	20.9	105	3	74-128/18
98-06-6	tert-Butylbenzene	20	19.8	99	20.3	102	2	73-127/18
108-90-7	Chlorobenzene	20	20.4	102	20.3	102	0	77-122/16
75-00-3	Chloroethane	20	18.2	91	17.1	86	6	69-133/18
67-66-3	Chloroform	20	19.8	99	19.0	95	4	74-126/17
95-49-8	o-Chlorotoluene	20	20.0	100	20.5	103	2	72-127/20
106-43-4	p-Chlorotoluene	20	19.6	98	19.8	99	1	68-127/18
75-15-0	Carbon disulfide	20	16.7	84	15.8	79	6	56-137/19
56-23-5	Carbon tetrachloride	20	19.9	100	19.8	99	1	71-133/19
75-34-3	1,1-Dichloroethane	20	18.5	93	17.8	89	4	71-125/17
75-35-4	1,1-Dichloroethylene	20	18.9	95	18.2	91	4	66-125/20
563-58-6	1,1-Dichloropropene	20	20.3	102	20.2	101	0	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	18.7	94	18.4	92	2	65-131/20
106-93-4	1,2-Dibromoethane	20	20.3	102	20.0	100	1	75-135/17
107-06-2	1,2-Dichloroethane	20	19.5	98	19.1	96	2	71-131/17
78-87-5	1,2-Dichloropropane	20	19.4	97	19.1	96	2	78-124/16
142-28-9	1,3-Dichloropropane	20	19.4	97	19.1	96	2	78-123/16
594-20-7	2,2-Dichloropropane	20	20.0	100	19.2	96	4	70-131/19
124-48-1	Dibromochloromethane	20	20.3	102	20.2	101	0	76-132/16
75-71-8	Dichlorodifluoromethane	20	16.4	82	13.2	66	22	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	19.9	100	19.0	95	5	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	20.9	105	20.6	103	1	72-130/16
541-73-1	m-Dichlorobenzene	20	20.0	100	20.3	102	1	75-124/16
95-50-1	o-Dichlorobenzene	20	20.1	101	20.2	101	0	76-124/16
106-46-7	p-Dichlorobenzene	20	19.2	96	19.3	97	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	19.3	97	18.4	92	5	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	19.7	99	19.6	98	1	71-126/16
100-41-4	Ethylbenzene	20	19.7	99	19.5	98	1	76-126/17
591-78-6	2-Hexanone	80	84.9	106	84.0	105	1	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU890-BS	U21871.D	1	09/30/14	JC	n/a	n/a	VU890
VU890-BSD	U21872.D	1	09/30/14	JC	n/a	n/a	VU890

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	19.7	99	20.1	101	2	69-135/20
98-82-8	Isopropylbenzene	20	20.7	104	20.6	103	0	61-125/17
99-87-6	p-Isopropyltoluene	20	19.7	99	20.2	101	3	68-127/18
108-10-1	4-Methyl-2-pentanone	80	81.9	102	80.2	100	2	71-142/21
74-83-9	Methyl bromide	20	17.2	86	15.9	80	8	68-132/18
74-87-3	Methyl chloride	20	18.4	92	17.0	85	8	39-150/28
74-95-3	Methylene bromide	20	20.8	104	20.3	102	2	77-127/16
75-09-2	Methylene chloride	20	19.3	97	18.3	92	5	67-128/18
78-93-3	Methyl ethyl ketone	80	86.3	108	81.0	101	6	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	21.2	106	19.9	100	6	73-132/17
91-20-3	Naphthalene	20	19.5	98	19.6	98	1	70-136/20
103-65-1	n-Propylbenzene	20	19.6	98	20.1	101	3	71-127/17
100-42-5	Styrene	20	20.4	102	20.3	102	0	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	20.3	102	19.9	100	2	77-130/16
71-55-6	1,1,1-Trichloroethane	20	19.5	98	18.9	95	3	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	19.7	99	19.6	98	1	77-129/17
79-00-5	1,1,2-Trichloroethane	20	20.4	102	19.9	100	2	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	19.1	96	19.6	98	3	70-133/18
96-18-4	1,2,3-Trichloropropane	20	19.8	99	19.7	99	1	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	19.2	96	19.4	97	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	19.3	97	19.5	98	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	19.9	100	20.4	102	2	77-129/17
127-18-4	Tetrachloroethylene	20	19.9	100	20.2	101	1	69-127/20
108-88-3	Toluene	20	19.4	97	19.4	97	0	75-122/17
79-01-6	Trichloroethylene	20	20.1	101	19.8	99	2	78-123/17
75-69-4	Trichlorofluoromethane	20	18.9	95	16.1	81	16	65-136/23
75-01-4	Vinyl chloride	20	19.6	98	17.5	88	11	57-146/22
1330-20-7	Xylene (total)	60	61.2	102	61.1	102	0	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	98%	95%	70-130%
2037-26-5	Toluene-D8	96%	97%	70-130%
460-00-4	4-Bromofluorobenzene	97%	96%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU893-BS	U21931.D	1	10/02/14	JC	n/a	n/a	VU893
VU893-BSD	U21932.D	1	10/02/14	JC	n/a	n/a	VU893

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	76.0	95	73.8	92	3	38-159/24
71-43-2	Benzene	20	18.7	94	18.2	91	3	77-122/25
108-86-1	Bromobenzene	20	18.8	94	18.7	94	1	76-126/17
74-97-5	Bromochloromethane	20	19.6	98	18.4	92	6	77-130/17
75-27-4	Bromodichloromethane	20	19.4	97	18.8	94	3	75-127/16
75-25-2	Bromoform	20	21.1	106	20.6	103	2	69-141/17
104-51-8	n-Butylbenzene	20	18.6	93	18.2	91	2	72-129/18
135-98-8	sec-Butylbenzene	20	19.4	97	19.1	96	2	74-128/18
98-06-6	tert-Butylbenzene	20	19.0	95	18.7	94	2	73-127/18
108-90-7	Chlorobenzene	20	19.4	97	19.1	96	2	77-122/16
75-00-3	Chloroethane	20	17.0	85	16.0	80	6	69-133/18
67-66-3	Chloroform	20	19.3	97	18.2	91	6	74-126/17
95-49-8	o-Chlorotoluene	20	19.5	98	19.3	97	1	72-127/20
106-43-4	p-Chlorotoluene	20	18.4	92	18.2	91	1	68-127/18
75-15-0	Carbon disulfide	20	15.6	78	14.4	72	8	56-137/19
56-23-5	Carbon tetrachloride	20	19.9	100	18.8	94	6	71-133/19
75-34-3	1,1-Dichloroethane	20	17.9	90	16.9	85	6	71-125/17
75-35-4	1,1-Dichloroethylene	20	18.4	92	16.7	84	10	66-125/20
563-58-6	1,1-Dichloropropene	20	19.9	100	18.9	95	5	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	17.5	88	18.0	90	3	65-131/20
106-93-4	1,2-Dibromoethane	20	19.5	98	18.9	95	3	75-135/17
107-06-2	1,2-Dichloroethane	20	19.4	97	18.6	93	4	71-131/17
78-87-5	1,2-Dichloropropane	20	19.0	95	18.4	92	3	78-124/16
142-28-9	1,3-Dichloropropane	20	18.9	95	18.2	91	4	78-123/16
594-20-7	2,2-Dichloropropane	20	19.6	98	18.0	90	9	70-131/19
124-48-1	Dibromochloromethane	20	19.7	99	19.0	95	4	76-132/16
75-71-8	Dichlorodifluoromethane	20	15.9	80	13.8	69	14	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	19.0	95	18.0	90	5	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	20.6	103	19.7	99	4	72-130/16
541-73-1	m-Dichlorobenzene	20	19.2	96	18.8	94	2	75-124/16
95-50-1	o-Dichlorobenzene	20	19.3	97	19.0	95	2	76-124/16
106-46-7	p-Dichlorobenzene	20	18.3	92	18.1	91	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	18.3	92	17.4	87	5	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	18.8	94	18.3	92	3	71-126/16
100-41-4	Ethylbenzene	20	18.8	94	18.2	91	3	76-126/17
591-78-6	2-Hexanone	80	82.3	103	81.2	102	1	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU893-BS	U21931.D	1	10/02/14	JC	n/a	n/a	VU893
VU893-BSD	U21932.D	1	10/02/14	JC	n/a	n/a	VU893

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	18.3	92	18.1	91	1	69-135/20
98-82-8	Isopropylbenzene	20	20.0	100	19.3	97	4	61-125/17
99-87-6	p-Isopropyltoluene	20	18.7	94	18.4	92	2	68-127/18
108-10-1	4-Methyl-2-pentanone	80	81.4	102	79.7	100	2	71-142/21
74-83-9	Methyl bromide	20	15.9	80	14.8	74	7	68-132/18
74-87-3	Methyl chloride	20	18.4	92	16.7	84	10	39-150/28
74-95-3	Methylene bromide	20	20.5	103	19.8	99	3	77-127/16
75-09-2	Methylene chloride	20	18.7	94	17.4	87	7	67-128/18
78-93-3	Methyl ethyl ketone	80	82.8	104	78.2	98	6	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	20.1	101	19.2	96	5	73-132/17
91-20-3	Naphthalene	20	18.0	90	18.7	94	4	70-136/20
103-65-1	n-Propylbenzene	20	19.0	95	18.6	93	2	71-127/17
100-42-5	Styrene	20	19.5	98	18.8	94	4	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	19.5	98	19.1	96	2	77-130/16
71-55-6	1,1,1-Trichloroethane	20	19.3	97	17.8	89	8	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	19.3	97	19.2	96	1	77-129/17
79-00-5	1,1,2-Trichloroethane	20	19.9	100	19.1	96	4	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	17.4	87	18.1	91	4	70-133/18
96-18-4	1,2,3-Trichloropropane	20	19.5	98	19.0	95	3	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	17.8	89	18.0	90	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	18.3	92	18.0	90	2	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	19.0	95	18.8	94	1	77-129/17
127-18-4	Tetrachloroethylene	20	19.4	97	18.4	92	5	69-127/20
108-88-3	Toluene	20	18.5	93	18.0	90	3	75-122/17
79-01-6	Trichloroethylene	20	19.3	97	18.6	93	4	78-123/17
75-69-4	Trichlorofluoromethane	20	19.2	96	17.2	86	11	65-136/23
75-01-4	Vinyl chloride	20	19.0	95	17.8	89	7	57-146/22
1330-20-7	Xylene (total)	60	58.4	97	56.6	94	3	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	102%	97%	70-130%
2037-26-5	Toluene-D8	97%	97%	70-130%
460-00-4	4-Bromofluorobenzene	98%	95%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV831-BS	V21011.D	1	10/02/14	BQ	n/a	n/a	VV831
VV831-BSD	V21012.D	1	10/02/14	BQ	n/a	n/a	VV831

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	89.5	112	93.8	117	5	38-159/24
71-43-2	Benzene	20	21.4	107	21.2	106	1	77-122/25
108-86-1	Bromobenzene	20	21.7	109	21.7	109	0	76-126/17
74-97-5	Bromochloromethane	20	21.6	108	21.6	108	0	77-130/17
75-27-4	Bromodichloromethane	20	21.1	106	20.9	105	1	75-127/16
75-25-2	Bromoform	20	20.5	103	21.1	106	3	69-141/17
104-51-8	n-Butylbenzene	20	21.9	110	21.8	109	0	72-129/18
135-98-8	sec-Butylbenzene	20	23.6	118	23.3	117	1	74-128/18
98-06-6	tert-Butylbenzene	20	22.8	114	22.8	114	0	73-127/18
108-90-7	Chlorobenzene	20	23.0	115	23.1	116	0	77-122/16
75-00-3	Chloroethane	20	19.6	98	19.5	98	1	69-133/18
67-66-3	Chloroform	20	21.2	106	21.1	106	0	74-126/17
95-49-8	o-Chlorotoluene	20	22.9	115	23.1	116	1	72-127/20
106-43-4	p-Chlorotoluene	20	22.4	112	21.7	109	3	68-127/18
75-15-0	Carbon disulfide	20	21.1	106	21.0	105	0	56-137/19
56-23-5	Carbon tetrachloride	20	21.7	109	21.4	107	1	71-133/19
75-34-3	1,1-Dichloroethane	20	20.6	103	20.6	103	0	71-125/17
75-35-4	1,1-Dichloroethylene	20	22.1	111	21.8	109	1	66-125/20
563-58-6	1,1-Dichloropropene	20	22.5	113	22.2	111	1	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	17.2	86	17.6	88	2	65-131/20
106-93-4	1,2-Dibromoethane	20	21.2	106	21.7	109	2	75-135/17
107-06-2	1,2-Dichloroethane	20	20.0	100	20.0	100	0	71-131/17
78-87-5	1,2-Dichloropropane	20	21.2	106	21.2	106	0	78-124/16
142-28-9	1,3-Dichloropropane	20	20.6	103	21.2	106	3	78-123/16
594-20-7	2,2-Dichloropropane	20	21.2	106	20.6	103	3	70-131/19
124-48-1	Dibromochloromethane	20	20.6	103	21.0	105	2	76-132/16
75-71-8	Dichlorodifluoromethane	20	17.6	88	17.7	89	1	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	21.6	108	21.5	108	0	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	21.4	107	21.6	108	1	72-130/16
541-73-1	m-Dichlorobenzene	20	22.8	114	22.9	115	0	75-124/16
95-50-1	o-Dichlorobenzene	20	22.5	113	22.4	112	0	76-124/16
106-46-7	p-Dichlorobenzene	20	21.7	109	21.6	108	0	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	21.7	109	21.5	108	1	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	19.8	99	20.1	101	2	71-126/16
100-41-4	Ethylbenzene	20	22.3	112	22.4	112	0	76-126/17
591-78-6	2-Hexanone	80	79.1	99	83.6	105	6	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV831-BS	V21011.D	1	10/02/14	BQ	n/a	n/a	VV831
VV831-BSD	V21012.D	1	10/02/14	BQ	n/a	n/a	VV831

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	23.0	115	23.3	117	1	69-135/20
98-82-8	Isopropylbenzene	20	23.4	117	23.4	117	0	61-125/17
99-87-6	p-Isopropyltoluene	20	22.4	112	22.3	112	0	68-127/18
108-10-1	4-Methyl-2-pentanone	80	75.8	95	75.6	95	0	71-142/21
74-83-9	Methyl bromide	20	18.8	94	18.3	92	3	68-132/18
74-87-3	Methyl chloride	20	21.4	107	21.5	108	0	39-150/28
74-95-3	Methylene bromide	20	21.6	108	21.4	107	1	77-127/16
75-09-2	Methylene chloride	20	21.0	105	20.9	105	0	67-128/18
78-93-3	Methyl ethyl ketone	80	86.6	108	88.5	111	2	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	21.0	105	21.1	106	0	73-132/17
91-20-3	Naphthalene	20	18.6	93	19.3	97	4	70-136/20
103-65-1	n-Propylbenzene	20	22.5	113	22.3	112	1	71-127/17
100-42-5	Styrene	20	23.0	115	22.9	115	0	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	22.2	111	22.2	111	0	77-130/16
71-55-6	1,1,1-Trichloroethane	20	21.8	109	21.5	108	1	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	21.2	106	21.4	107	1	77-129/17
79-00-5	1,1,2-Trichloroethane	20	21.4	107	21.7	109	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	18.6	93	19.2	96	3	70-133/18
96-18-4	1,2,3-Trichloropropane	20	16.5	83	17.2	86	4	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	20.5	103	20.7	104	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	21.8	109	21.7	109	0	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	22.6	113	22.5	113	0	77-129/17
127-18-4	Tetrachloroethylene	20	22.7	114	22.7	114	0	69-127/20
108-88-3	Toluene	20	22.0	110	22.3	112	1	75-122/17
79-01-6	Trichloroethylene	20	22.5	113	22.1	111	2	78-123/17
75-69-4	Trichlorofluoromethane	20	18.9	95	19.0	95	1	65-136/23
75-01-4	Vinyl chloride	20	19.9	100	19.6	98	2	57-146/22
1330-20-7	Xylene (total)	60	69.4	116	69.6	116	0	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	100%	70-130%
2037-26-5	Toluene-D8	104%	105%	70-130%
460-00-4	4-Bromofluorobenzene	104%	104%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU901-BS	U22070.D	1	10/07/14	JC	n/a	n/a	VU901
VU901-BSD	U22071.D	1	10/07/14	JC	n/a	n/a	VU901

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	80.4	101	80.2	100	0	38-159/24
71-43-2	Benzene	20	17.9	90	18.1	91	1	77-122/25
108-86-1	Bromobenzene	20	19.2	96	19.5	98	2	76-126/17
74-97-5	Bromochloromethane	20	19.5	98	19.4	97	1	77-130/17
75-27-4	Bromodichloromethane	20	18.8	94	19.0	95	1	75-127/16
75-25-2	Bromoform	20	21.5	108	21.6	108	0	69-141/17
104-51-8	n-Butylbenzene	20	18.4	92	18.4	92	0	72-129/18
135-98-8	sec-Butylbenzene	20	19.4	97	19.4	97	0	74-128/18
98-06-6	tert-Butylbenzene	20	19.1	96	19.1	96	0	73-127/18
108-90-7	Chlorobenzene	20	19.7	99	19.7	99	0	77-122/16
75-00-3	Chloroethane	20	18.1	91	18.3	92	1	69-133/18
67-66-3	Chloroform	20	18.9	95	18.8	94	1	74-126/17
95-49-8	o-Chlorotoluene	20	19.7	99	19.9	100	1	72-127/20
106-43-4	p-Chlorotoluene	20	18.5	93	18.8	94	2	68-127/18
75-15-0	Carbon disulfide	20	14.1	71	13.8	69	2	56-137/19
56-23-5	Carbon tetrachloride	20	18.3	92	18.3	92	0	71-133/19
75-34-3	1,1-Dichloroethane	20	17.6	88	17.4	87	1	71-125/17
75-35-4	1,1-Dichloroethylene	20	16.9	85	16.4	82	3	66-125/20
563-58-6	1,1-Dichloropropene	20	18.6	93	18.7	94	1	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	18.4	92	19.0	95	3	65-131/20
106-93-4	1,2-Dibromoethane	20	19.7	99	19.6	98	1	75-135/17
107-06-2	1,2-Dichloroethane	20	18.6	93	18.6	93	0	71-131/17
78-87-5	1,2-Dichloropropane	20	18.5	93	18.6	93	1	78-124/16
142-28-9	1,3-Dichloropropane	20	18.9	95	18.9	95	0	78-123/16
594-20-7	2,2-Dichloropropane	20	18.5	93	18.3	92	1	70-131/19
124-48-1	Dibromochloromethane	20	19.9	100	19.9	100	0	76-132/16
75-71-8	Dichlorodifluoromethane	20	18.5	93	18.7	94	1	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	18.9	95	18.6	93	2	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	19.9	100	20.1	101	1	72-130/16
541-73-1	m-Dichlorobenzene	20	19.5	98	19.6	98	1	75-124/16
95-50-1	o-Dichlorobenzene	20	19.4	97	19.6	98	1	76-124/16
106-46-7	p-Dichlorobenzene	20	18.7	94	18.9	95	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	17.7	89	17.4	87	2	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	19.0	95	19.2	96	1	71-126/16
100-41-4	Ethylbenzene	20	18.6	93	18.5	93	1	76-126/17
591-78-6	2-Hexanone	80	83.9	105	83.6	105	0	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU901-BS	U22070.D	1	10/07/14	JC	n/a	n/a	VU901
VU901-BSD	U22071.D	1	10/07/14	JC	n/a	n/a	VU901

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	19.2	96	19.3	97	1	69-135/20
98-82-8	Isopropylbenzene	20	19.6	98	19.5	98	1	61-125/17
99-87-6	p-Isopropyltoluene	20	18.8	94	19.0	95	1	68-127/18
108-10-1	4-Methyl-2-pentanone	80	79.3	99	79.4	99	0	71-142/21
74-83-9	Methyl bromide	20	17.3	87	17.5	88	1	68-132/18
74-87-3	Methyl chloride	20	19.9	100	20.1	101	1	39-150/28
74-95-3	Methylene bromide	20	19.9	100	20.0	100	1	77-127/16
75-09-2	Methylene chloride	20	17.4	87	17.1	86	2	67-128/18
78-93-3	Methyl ethyl ketone	80	83.8	105	82.7	103	1	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	19.9	100	19.8	99	1	73-132/17
91-20-3	Naphthalene	20	19.5	98	20.0	100	3	70-136/20
103-65-1	n-Propylbenzene	20	19.0	95	19.0	95	0	71-127/17
100-42-5	Styrene	20	19.4	97	19.5	98	1	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	19.8	99	20.0	100	1	77-130/16
71-55-6	1,1,1-Trichloroethane	20	18.2	91	18.0	90	1	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	19.5	98	19.7	99	1	77-129/17
79-00-5	1,1,2-Trichloroethane	20	19.8	99	19.9	100	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	19.1	96	19.9	100	4	70-133/18
96-18-4	1,2,3-Trichloropropane	20	19.4	97	19.1	96	2	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	19.1	96	19.6	98	3	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	18.5	93	18.6	93	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	19.1	96	19.3	97	1	77-129/17
127-18-4	Tetrachloroethylene	20	18.5	93	19.1	96	3	69-127/20
108-88-3	Toluene	20	18.3	92	18.5	93	1	75-122/17
79-01-6	Trichloroethylene	20	18.6	93	18.7	94	1	78-123/17
75-69-4	Trichlorofluoromethane	20	17.7	89	18.2	91	3	65-136/23
75-01-4	Vinyl chloride	20	19.7	99	19.8	99	1	57-146/22
1330-20-7	Xylene (total)	60	58.1	97	58.1	97	0	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	102%	101%	70-130%
2037-26-5	Toluene-D8	98%	98%	70-130%
460-00-4	4-Bromofluorobenzene	96%	96%	70-130%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU893-LCS	U21933.D	1	10/02/14	JC	n/a	n/a	VU893

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-3

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	92%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36167-1MS	V20945.D	10	09/29/14	BQ	n/a	n/a	VV827
C36167-1MSD	V20946.D	10	09/29/14	BQ	n/a	n/a	VV827
C36167-1	V20931.D	10	09/29/14	BQ	n/a	n/a	VV827

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-4, C36172-5, C36172-6, C36172-7, C36172-8

CAS No.	Compound	C36167-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		800	1010	126	800	1060	133	5	38-159/24
71-43-2	Benzene	ND		200	198	99	200	199	100	1	77-122/16
108-86-1	Bromobenzene	ND		200	215	108	200	212	106	1	76-126/17
74-97-5	Bromochloromethane	ND		200	212	106	200	219	110	3	77-130/17
75-27-4	Bromodichloromethane	ND		200	204	102	200	207	104	1	75-127/16
75-25-2	Bromoform	ND		200	206	103	200	217	109	5	69-141/17
104-51-8	n-Butylbenzene	ND		200	205	103	200	199	100	3	72-129/18
135-98-8	sec-Butylbenzene	ND		200	219	110	200	214	107	2	74-128/18
98-06-6	tert-Butylbenzene	ND		200	216	108	200	213	107	1	73-127/18
108-90-7	Chlorobenzene	ND		200	219	110	200	220	110	0	77-122/16
75-00-3	Chloroethane	ND		200	194	97	200	198	99	2	69-133/18
67-66-3	Chloroform	2.4		200	205	101	200	208	103	1	74-126/17
95-49-8	o-Chlorotoluene	ND		200	223	112	200	217	109	3	72-127/20
106-43-4	p-Chlorotoluene	ND		200	206	103	200	203	102	1	68-127/18
75-15-0	Carbon disulfide	ND		200	142	71	200	144	72	1	56-137/19
56-23-5	Carbon tetrachloride	ND		200	190	95	200	193	97	2	71-133/19
75-34-3	1,1-Dichloroethane	8.7		200	199	95	200	201	96	1	71-125/17
75-35-4	1,1-Dichloroethylene	109		200	271	81	200	285	88	5	66-125/20
563-58-6	1,1-Dichloropropene	ND		200	189	95	200	198	99	5	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		200	180	90	200	184	92	2	65-131/20
106-93-4	1,2-Dibromoethane	ND		200	218	109	200	221	111	1	75-135/17
107-06-2	1,2-Dichloroethane	ND		200	204	102	200	207	104	1	71-131/17
78-87-5	1,2-Dichloropropane	ND		200	203	102	200	206	103	1	78-124/16
142-28-9	1,3-Dichloropropane	ND		200	211	106	200	218	109	3	78-123/16
594-20-7	2,2-Dichloropropane	ND		200	174	87	200	175	88	1	70-131/19
124-48-1	Dibromochloromethane	ND		200	205	103	200	209	105	2	76-132/16
75-71-8	Dichlorodifluoromethane	ND		200	134	67	200	134	67	0	32-168/28
156-59-2	cis-1,2-Dichloroethylene	15.9		200	210	97	200	220	102	5	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		200	129	65* [a]	200	210	105	48* [b]	72-130/16
541-73-1	m-Dichlorobenzene	ND		200	221	111	200	218	109	1	75-124/16
95-50-1	o-Dichlorobenzene	ND		200	224	112	200	222	111	1	76-124/16
106-46-7	p-Dichlorobenzene	ND		200	212	106	200	208	104	2	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		200	128	64* [a]	200	183	92	35* [b]	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		200	70.7	35* [a]	200	189	95	91* [b]	71-126/16
100-41-4	Ethylbenzene	ND		200	207	104	200	206	103	0	76-126/17
591-78-6	2-Hexanone	ND		800	810	101	800	840	105	4	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36167-1MS	V20945.D	10	09/29/14	BQ	n/a	n/a	VV827
C36167-1MSD	V20946.D	10	09/29/14	BQ	n/a	n/a	VV827
C36167-1	V20931.D	10	09/29/14	BQ	n/a	n/a	VV827

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-4, C36172-5, C36172-6, C36172-7, C36172-8

CAS No.	Compound	C36167-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		200	214	107	200	212	106	1	69-135/20
98-82-8	Isopropylbenzene	ND		200	217	109	200	216	108	0	61-125/17
99-87-6	p-Isopropyltoluene	ND		200	209	105	200	203	102	3	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		800	767	96	800	788	99	3	71-142/21
74-83-9	Methyl bromide	ND		200	182	91	200	184	92	1	68-132/18
74-87-3	Methyl chloride	ND		200	197	99	200	201	101	2	39-150/28
74-95-3	Methylene bromide	ND		200	219	110	200	225	113	3	77-127/16
75-09-2	Methylene chloride	26.7		200	219	96	200	224	99	2	67-128/18
78-93-3	Methyl ethyl ketone	ND		800	910	114	800	934	117	3	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		200	219	110	200	229	115	4	73-132/17
91-20-3	Naphthalene	ND		200	200	100	200	205	103	2	70-136/20
103-65-1	n-Propylbenzene	ND		200	209	105	200	202	101	3	71-127/17
100-42-5	Styrene	ND		200	11.7	6* [a]	200	90.9	45* [a]	154* [b]	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	ND		200	212	106	200	212	106	0	77-130/16
71-55-6	1,1,1-Trichloroethane	462		200	673	106	200	685	112	2	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	226	113	200	228	114	1	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		200	219	110	200	222	111	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		200	191	96	200	193	97	1	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		200	156	78	200	191	96	20* [b]	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		200	202	101	200	201	101	0	68-129/17
95-63-6	1,2,4-Trimethylbenzene	ND		200	206	103	200	203	102	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	ND		200	209	105	200	207	104	1	77-129/17
127-18-4	Tetrachloroethylene	ND		200	205	103	200	202	101	1	69-127/20
108-88-3	Toluene	ND		200	205	103	200	204	102	0	75-122/17
79-01-6	Trichloroethylene	158		200	369	106	200	374	108	1	78-123/17
75-69-4	Trichlorofluoromethane	ND		200	193	97	200	194	97	1	65-136/23
75-01-4	Vinyl chloride	ND		200	155	78	200	185	93	18	57-146/22
1330-20-7	Xylene (total)	ND		600	645	108	600	647	108	0	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C36167-1	Limits
1868-53-7	Dibromofluoromethane	98%	101%	99%	70-130%
2037-26-5	Toluene-D8	100%	99%	100%	70-130%
460-00-4	4-Bromofluorobenzene	102%	103%	104%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36167-1MS	V20945.D	10	09/29/14	BQ	n/a	n/a	VV827
C36167-1MSD	V20946.D	10	09/29/14	BQ	n/a	n/a	VV827
C36167-1	V20931.D	10	09/29/14	BQ	n/a	n/a	VV827

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-4, C36172-5, C36172-6, C36172-7, C36172-8

(a) Outside laboratory control limits. AZ:M2
(b) Outside laboratory control limits. AZ:R9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36049-23MS	U21893.D	25	09/30/14	JC	n/a	n/a	VU890
C36049-23MSD	U21894.D	25	09/30/14	JC	n/a	n/a	VU890
C36049-23	U21892.D	25	09/30/14	JC	n/a	n/a	VU890

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-9

CAS No.	Compound	C36049-23 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		2000	2170	109	2000	1980	99	9	38-159/24
71-43-2	Benzene	ND		500	511	102	500	475	95	7	77-122/16
108-86-1	Bromobenzene	ND		500	515	103	500	492	98	5	76-126/17
74-97-5	Bromochloromethane	ND		500	555	111	500	494	99	12	77-130/17
75-27-4	Bromodichloromethane	ND		500	517	103	500	472	94	9	75-127/16
75-25-2	Bromoform	ND		500	463	93	500	451	90	3	69-141/17
104-51-8	n-Butylbenzene	ND		500	483	97	500	481	96	0	72-129/18
135-98-8	sec-Butylbenzene	ND		500	504	101	500	505	101	0	74-128/18
98-06-6	tert-Butylbenzene	ND		500	500	100	500	497	99	1	73-127/18
108-90-7	Chlorobenzene	ND		500	523	105	500	499	100	5	77-122/16
75-00-3	Chloroethane	ND		500	474	95	500	430	86	10	69-133/18
67-66-3	Chloroform	ND		500	552	110	500	483	97	13	74-126/17
95-49-8	o-Chlorotoluene	ND		500	525	105	500	505	101	4	72-127/20
106-43-4	p-Chlorotoluene	ND		500	512	102	500	487	97	5	68-127/18
75-15-0	Carbon disulfide	ND		500	370	74	500	342	68	8	56-137/19
56-23-5	Carbon tetrachloride	ND		500	495	99	500	494	99	0	71-133/19
75-34-3	1,1-Dichloroethane	ND		500	511	102	500	452	90	12	71-125/17
75-35-4	1,1-Dichloroethylene	ND		500	478	96	500	451	90	6	66-125/20
563-58-6	1,1-Dichloropropene	ND		500	511	102	500	502	100	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	476	95	500	449	90	6	65-131/20
106-93-4	1,2-Dibromoethane	ND		500	522	104	500	498	100	5	75-135/17
107-06-2	1,2-Dichloroethane	ND		500	529	106	500	484	97	9	71-131/17
78-87-5	1,2-Dichloropropane	ND		500	520	104	500	483	97	7	78-124/16
142-28-9	1,3-Dichloropropane	ND		500	509	102	500	479	96	6	78-123/16
594-20-7	2,2-Dichloropropane	ND		500	503	101	500	463	93	8	70-131/19
124-48-1	Dibromochloromethane	ND		500	477	95	500	455	91	5	76-132/16
75-71-8	Dichlorodifluoromethane	ND		500	457	91	500	377	75	19	32-168/28
156-59-2	cis-1,2-Dichloroethylene	ND		500	542	108	500	479	96	12	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		500	540	108	500	501	100	7	72-130/16
541-73-1	m-Dichlorobenzene	ND		500	524	105	500	498	100	5	75-124/16
95-50-1	o-Dichlorobenzene	ND		500	525	105	500	505	101	4	76-124/16
106-46-7	p-Dichlorobenzene	ND		500	502	100	500	481	96	4	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		500	508	102	500	462	92	9	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		500	492	98	500	472	94	4	71-126/16
100-41-4	Ethylbenzene	ND		500	498	100	500	483	97	3	76-126/17
591-78-6	2-Hexanone	ND		2000	2160	108	2000	2090	105	3	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36049-23MS	U21893.D	25	09/30/14	JC	n/a	n/a	VU890
C36049-23MSD	U21894.D	25	09/30/14	JC	n/a	n/a	VU890
C36049-23	U21892.D	25	09/30/14	JC	n/a	n/a	VU890

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-9

CAS No.	Compound	C36049-23 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		500	455	91	500	476	95	5	69-135/20
98-82-8	Isopropylbenzene	ND		500	522	104	500	510	102	2	61-125/17
99-87-6	p-Isopropyltoluene	ND		500	496	99	500	487	97	2	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		2000	2150	108	2000	2010	101	7	71-142/21
74-83-9	Methyl bromide	ND		500	445	89	500	395	79	12	68-132/18
74-87-3	Methyl chloride	ND		500	517	103	500	441	88	16	39-150/28
74-95-3	Methylene bromide	ND		500	563	113	500	516	103	9	77-127/16
75-09-2	Methylene chloride	ND		500	515	103	500	453	91	13	67-128/18
78-93-3	Methyl ethyl ketone	ND		2000	2300	115	2000	2050	103	11	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		500	582	116	500	512	102	13	73-132/17
91-20-3	Naphthalene	ND		500	479	96	500	481	96	0	70-136/20
103-65-1	n-Propylbenzene	ND		500	502	100	500	496	99	1	71-127/17
100-42-5	Styrene	ND		500	516	103	500	494	99	4	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	ND		500	520	104	500	497	99	5	77-130/16
71-55-6	1,1,1-Trichloroethane	ND		500	523	105	500	483	97	8	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	521	104	500	494	99	5	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		500	526	105	500	504	101	4	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		500	463	93	500	470	94	2	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		500	484	97	500	458	92	6	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		500	473	95	500	468	94	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	ND		500	502	100	500	477	95	5	74-129/17
108-67-8	1,3,5-Trimethylbenzene	ND		500	512	102	500	497	99	3	77-129/17
127-18-4	Tetrachloroethylene	ND		500	472	94	500	470	94	0	69-127/20
108-88-3	Toluene	ND		500	497	99	500	475	95	5	75-122/17
79-01-6	Trichloroethylene	ND		500	526	105	500	493	99	6	78-123/17
75-69-4	Trichlorofluoromethane	ND		500	506	101	500	430	86	16	65-136/23
75-01-4	Vinyl chloride	ND		500	534	107	500	461	92	15	57-146/22
1330-20-7	Xylene (total)	ND		1500	1560	104	1500	1510	101	3	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C36049-23	Limits
1868-53-7	Dibromofluoromethane	107%	99%	103%	70-130%
2037-26-5	Toluene-D8	96%	97%	99%	70-130%
460-00-4	4-Bromofluorobenzene	96%	98%	92%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36129-10MS	U21952.D	1	10/02/14	JC	n/a	n/a	VU893
C36129-10MSD	U21953.D	1	10/02/14	JC	n/a	n/a	VU893
C36129-10	U21951.D	1	10/02/14	JC	n/a	n/a	VU893

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-3

CAS No.	Compound	C36129-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	12.6	J	80	77.5	81	80	78.8	83	2	38-159/24
71-43-2	Benzene	2.4		20	21.2	94	20	21.3	95	0	77-122/16
108-86-1	Bromobenzene	1.0 U		20	18.4	92	20	19.1	96	4	76-126/17
74-97-5	Bromochloromethane	1.0 U		20	18.3	92	20	18.6	93	2	77-130/17
75-27-4	Bromodichloromethane	1.0 U		20	19.0	95	20	18.9	95	1	75-127/16
75-25-2	Bromoform	1.0 U		20	17.2	86	20	16.8	84	2	69-141/17
104-51-8	n-Butylbenzene	2.0 U		20	17.9	90	20	18.3	92	2	72-129/18
135-98-8	sec-Butylbenzene	2.0 U		20	19.6	98	20	20.0	100	2	74-128/18
98-06-6	tert-Butylbenzene	2.0 U		20	19.2	96	20	19.8	99	3	73-127/18
108-90-7	Chlorobenzene	1.0 U		20	20.0	100	20	20.0	100	0	77-122/16
75-00-3	Chloroethane	1.4		20	18.6	86	20	18.1	84	3	69-133/18
67-66-3	Chloroform	1.0 U		20	18.7	94	20	18.4	92	2	74-126/17
95-49-8	o-Chlorotoluene	2.0 U		20	19.4	97	20	19.6	98	1	72-127/20
106-43-4	p-Chlorotoluene	2.0 U		20	18.0	90	20	18.5	93	3	68-127/18
75-15-0	Carbon disulfide	1.0 U		20	14.6	73	20	14.4	72	1	56-137/19
56-23-5	Carbon tetrachloride	1.0 U		20	21.2	106	20	21.1	106	0	71-133/19
75-34-3	1,1-Dichloroethane	0.22	J	20	17.6	87	20	17.5	86	1	71-125/17
75-35-4	1,1-Dichloroethylene	1.0 U		20	16.3	82	20	15.9	80	2	66-125/20
563-58-6	1,1-Dichloropropene	1.0 U		20	19.8	99	20	19.4	97	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		20	17.3	87	20	17.9	90	3	65-131/20
106-93-4	1,2-Dibromoethane	1.0 U		20	19.5	98	20	19.8	99	2	75-135/17
107-06-2	1,2-Dichloroethane	1.0 U		20	19.4	97	20	19.4	97	0	71-131/17
78-87-5	1,2-Dichloropropane	1.0 U		20	19.2	96	20	19.3	97	1	78-124/16
142-28-9	1,3-Dichloropropane	1.0 U		20	18.9	95	20	19.0	95	1	78-123/16
594-20-7	2,2-Dichloropropane	1.0 U		20	18.4	92	20	17.6	88	4	70-131/19
124-48-1	Dibromochloromethane	1.0 U		20	18.2	91	20	18.3	92	1	76-132/16
75-71-8	Dichlorodifluoromethane	1.0 U		20	19.3	97	20	18.1	91	6	32-168/28
156-59-2	cis-1,2-Dichloroethylene	1.8		20	20.1	92	20	19.9	91	1	73-126/17
10061-01-5	cis-1,3-Dichloropropene	1.0 U		20	17.0	85	20	16.6	83	2	72-130/16
541-73-1	m-Dichlorobenzene	1.0 U		20	19.2	96	20	19.5	98	2	75-124/16
95-50-1	o-Dichlorobenzene	1.0 U		20	19.2	96	20	19.8	99	3	76-124/16
106-46-7	p-Dichlorobenzene	1.0 U		20	18.4	92	20	18.8	94	2	75-124/16
156-60-5	trans-1,2-Dichloroethylene	1.0 U		20	17.7	89	20	17.3	87	2	71-126/18
10061-02-6	trans-1,3-Dichloropropene	1.0 U		20	15.5	78	20	14.8	74	5	71-126/16
100-41-4	Ethylbenzene	1.1		20	19.2	91	20	19.1	90	1	76-126/17
591-78-6	2-Hexanone	10 U		80	79.8	100	80	80.3	100	1	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36129-10MS	U21952.D	1	10/02/14	JC	n/a	n/a	VU893
C36129-10MSD	U21953.D	1	10/02/14	JC	n/a	n/a	VU893
C36129-10	U21951.D	1	10/02/14	JC	n/a	n/a	VU893

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-3

CAS No.	Compound	C36129-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	2.0 U		20	18.0	90	20	19.3	97	7	69-135/20
98-82-8	Isopropylbenzene	0.24	J	20	19.9	98	20	19.9	98	0	61-125/17
99-87-6	p-Isopropyltoluene	2.0 U		20	17.6	88	20	17.8	89	1	68-127/18
108-10-1	4-Methyl-2-pentanone	10 U		80	76.8	96	80	77.6	97	1	71-142/21
74-83-9	Methyl bromide	2.0 U		20	14.9	75	20	14.5	73	3	68-132/18
74-87-3	Methyl chloride	1.0 U		20	18.2	91	20	17.4	87	4	39-150/28
74-95-3	Methylene bromide	1.0 U		20	20.4	102	20	20.4	102	0	77-127/16
75-09-2	Methylene chloride	10 U		20	16.8	84	20	16.8	84	0	67-128/18
78-93-3	Methyl ethyl ketone	2.9	J	80	74.0	89	80	75.8	91	2	56-155/23
1634-04-4	Methyl Tert Butyl Ether	1.0 U		20	18.6	93	20	18.7	94	1	73-132/17
91-20-3	Naphthalene	5.0 U		20	18.3	92	20	19.5	98	6	70-136/20
103-65-1	n-Propylbenzene	2.0 U		20	18.6	93	20	18.9	95	2	71-127/17
100-42-5	Styrene	1.0 U		20	9.5	48* [a]	20	8.9	45* [a]	7	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		20	19.8	99	20	19.9	100	1	77-130/16
71-55-6	1,1,1-Trichloroethane	1.0 U		20	19.4	97	20	19.1	96	2	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		20	19.0	95	20	19.6	98	3	77-129/17
79-00-5	1,1,2-Trichloroethane	1.0 U		20	19.8	99	20	19.9	100	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	2.0 U		20	17.5	88	20	18.7	94	7	70-133/18
96-18-4	1,2,3-Trichloropropane	2.0 U		20	13.7	69	20	13.0	65* [a]	5	69-126/18
120-82-1	1,2,4-Trichlorobenzene	2.0 U		20	17.4	87	20	18.5	93	6	68-129/17
95-63-6	1,2,4-Trimethylbenzene	0.57	J	20	17.5	85	20	17.7	86	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	2.0 U		20	15.4	77	20	15.6	78	1	77-129/17
127-18-4	Tetrachloroethylene	1.0 U		20	19.4	97	20	19.5	98	1	69-127/20
108-88-3	Toluene	0.60	J	20	18.6	90	20	18.6	90	0	75-122/17
79-01-6	Trichloroethylene	1.0 U		20	19.8	99	20	20.0	100	1	78-123/17
75-69-4	Trichlorofluoromethane	1.0 U		20	21.3	107	20	20.3	102	5	65-136/23
75-01-4	Vinyl chloride	1.0 U		20	19.5	98	20	18.9	95	3	57-146/22
1330-20-7	Xylene (total)	1.2	J	60	54.6	89	60	54.0	88	1	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C36129-10	Limits
1868-53-7	Dibromofluoromethane	96%	94%	100%	70-130%
2037-26-5	Toluene-D8	96%	96%	97%	70-130%
460-00-4	4-Bromofluorobenzene	95%	95%	93%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36129-10MS	U21952.D	1	10/02/14	JC	n/a	n/a	VU893
C36129-10MSD	U21953.D	1	10/02/14	JC	n/a	n/a	VU893
C36129-10	U21951.D	1	10/02/14	JC	n/a	n/a	VU893

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-3

(a) Outside laboratory control limits. AZ:M2

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36194-17MS	V21025.D	1	10/02/14	BQ	n/a	n/a	VV831
C36194-17MSD	V21026.D	1	10/02/14	BQ	n/a	n/a	VV831
C36194-17	V21018.D	1	10/02/14	BQ	n/a	n/a	VV831

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-2

CAS No.	Compound	C36194-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	6.0	J	80	86.2	100	80	93.0	109	8	38-159/24
71-43-2	Benzene	ND		20	21.6	108	20	22.0	110	2	77-122/16
108-86-1	Bromobenzene	ND		20	22.3	112	20	22.7	114	2	76-126/17
74-97-5	Bromochloromethane	ND		20	21.3	107	20	22.0	110	3	77-130/17
75-27-4	Bromodichloromethane	ND		20	20.7	104	20	21.3	107	3	75-127/16
75-25-2	Bromoform	ND		20	19.2	96	20	20.2	101	5	69-141/17
104-51-8	n-Butylbenzene	ND		20	21.8	109	20	22.5	113	3	72-129/18
135-98-8	sec-Butylbenzene	ND		20	24.0	120	20	24.3	122	1	74-128/18
98-06-6	tert-Butylbenzene	ND		20	23.8	119	20	24.1	121	1	73-127/18
108-90-7	Chlorobenzene	ND		20	23.3	117	20	24.0	120	3	77-122/16
75-00-3	Chloroethane	ND		20	20.1	101	20	20.5	103	2	69-133/18
67-66-3	Chloroform	ND		20	21.4	107	20	21.7	109	1	74-126/17
95-49-8	o-Chlorotoluene	ND		20	22.6	113	20	24.3	122	7	72-127/20
106-43-4	p-Chlorotoluene	ND		20	22.2	111	20	22.6	113	2	68-127/18
75-15-0	Carbon disulfide	ND		20	21.6	108	20	22.2	111	3	56-137/19
56-23-5	Carbon tetrachloride	ND		20	22.2	111	20	22.8	114	3	71-133/19
75-34-3	1,1-Dichloroethane	2.5		20	23.2	104	20	23.6	106	2	71-125/17
75-35-4	1,1-Dichloroethylene	ND		20	22.7	114	20	23.1	116	2	66-125/20
563-58-6	1,1-Dichloropropene	ND		20	23.0	115	20	23.4	117	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		20	16.8	84	20	17.4	87	4	65-131/20
106-93-4	1,2-Dibromoethane	ND		20	21.1	106	20	21.7	109	3	75-135/17
107-06-2	1,2-Dichloroethane	ND		20	19.8	99	20	20.4	102	3	71-131/17
78-87-5	1,2-Dichloropropane	ND		20	21.2	106	20	21.6	108	2	78-124/16
142-28-9	1,3-Dichloropropane	ND		20	20.7	104	20	21.3	107	3	78-123/16
594-20-7	2,2-Dichloropropane	ND		20	19.9	100	20	19.9	100	0	70-131/19
124-48-1	Dibromochloromethane	ND		20	20.3	102	20	21.0	105	3	76-132/16
75-71-8	Dichlorodifluoromethane	ND		20	18.6	93	20	19.1	96	3	32-168/28
156-59-2	cis-1,2-Dichloroethylene	1.2		20	22.7	108	20	23.2	110	2	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		20	20.4	102	20	20.8	104	2	72-130/16
541-73-1	m-Dichlorobenzene	ND		20	23.5	118	20	23.7	119	1	75-124/16
95-50-1	o-Dichlorobenzene	0.23	J	20	23.0	114	20	23.6	117	3	76-124/16
106-46-7	p-Dichlorobenzene	ND		20	22.3	112	20	22.5	113	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		20	22.2	111	20	22.6	113	2	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		20	18.6	93	20	19.0	95	2	71-126/16
100-41-4	Ethylbenzene	ND		20	22.7	114	20	23.1	116	2	76-126/17
591-78-6	2-Hexanone	ND		80	76.9	96	80	80.2	100	4	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36194-17MS	V21025.D	1	10/02/14	BQ	n/a	n/a	VV831
C36194-17MSD	V21026.D	1	10/02/14	BQ	n/a	n/a	VV831
C36194-17	V21018.D	1	10/02/14	BQ	n/a	n/a	VV831

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-2

CAS No.	Compound	C36194-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		20	21.2	106	20	23.1	116	9	69-135/20
98-82-8	Isopropylbenzene	ND		20	23.7	119	20	24.4	122	3	61-125/17
99-87-6	p-Isopropyltoluene	ND		20	22.7	114	20	23.1	116	2	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		80	72.2	90	80	74.5	93	3	71-142/21
74-83-9	Methyl bromide	ND		20	18.6	93	20	19.0	95	2	68-132/18
74-87-3	Methyl chloride	ND		20	22.1	111	20	23.1	116	4	39-150/28
74-95-3	Methylene bromide	ND		20	21.2	106	20	21.7	109	2	77-127/16
75-09-2	Methylene chloride	ND		20	20.3	102	20	20.8	104	2	67-128/18
78-93-3	Methyl ethyl ketone	ND		80	82.6	103	80	84.7	106	3	56-155/23
1634-04-4	Methyl Tert Butyl Ether	0.33	J	20	20.8	102	20	21.8	107	5	73-132/17
91-20-3	Naphthalene	ND		20	18.6	93	20	19.6	98	5	70-136/20
103-65-1	n-Propylbenzene	ND		20	23.1	116	20	23.3	117	1	71-127/17
100-42-5	Styrene	ND		20	22.7	114	20	23.4	117	3	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	ND		20	21.9	110	20	22.7	114	4	77-130/16
71-55-6	1,1,1-Trichloroethane	ND		20	22.0	110	20	22.7	114	3	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	20.9	105	20	21.8	109	4	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		20	21.2	106	20	21.7	109	2	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		20	18.4	92	20	19.4	97	5	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		20	14.6	73	20	15.5	78	6	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		20	19.7	99	20	21.0	105	6	68-129/17
95-63-6	1,2,4-Trimethylbenzene	ND		20	22.3	112	20	22.6	113	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	ND		20	23.3	117	20	23.4	117	0	77-129/17
127-18-4	Tetrachloroethylene	ND		20	23.2	116	20	23.6	118	2	69-127/20
108-88-3	Toluene	ND		20	22.7	114	20	23.3	117	3	75-122/17
79-01-6	Trichloroethylene	ND		20	22.9	115	20	23.3	117	2	78-123/17
75-69-4	Trichlorofluoromethane	ND		20	19.8	99	20	20.5	103	3	65-136/23
75-01-4	Vinyl chloride	2.7		20	23.7	105	20	24.4	109	3	57-146/22
1330-20-7	Xylene (total)	ND		60	70.6	118	60	72.2	120	2	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C36194-17	Limits
1868-53-7	Dibromofluoromethane	97%	98%	95%	70-130%
2037-26-5	Toluene-D8	104%	105%	100%	70-130%
460-00-4	4-Bromofluorobenzene	101%	104%	100%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36216-1MS	U22092.D	100	10/07/14	JC	n/a	n/a	VU901
C36216-1MSD	U22093.D	100	10/07/14	JC	n/a	n/a	VU901
C36216-1	U22090.D	100	10/07/14	JC	n/a	n/a	VU901

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1

CAS No.	Compound	C36216-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		8000	8600	108	8000	8240	103	4	38-159/24
71-43-2	Benzene	77.9	J	2000	1930	93	2000	1900	91	2	77-122/16
108-86-1	Bromobenzene	ND		2000	2020	101	2000	1970	99	3	76-126/17
74-97-5	Bromochloromethane	ND		2000	2080	104	2000	1990	100	4	77-130/17
75-27-4	Bromodichloromethane	ND		2000	1910	96	2000	1860	93	3	75-127/16
75-25-2	Bromoform	ND		2000	1820	91	2000	1830	92	1	69-141/17
104-51-8	n-Butylbenzene	21.8	J	2000	1850	91	2000	1820	90	2	72-129/18
135-98-8	sec-Butylbenzene	ND		2000	1980	99	2000	1970	99	1	74-128/18
98-06-6	tert-Butylbenzene	ND		2000	1990	100	2000	1980	99	1	73-127/18
108-90-7	Chlorobenzene	ND		2000	2050	103	2000	2000	100	2	77-122/16
75-00-3	Chloroethane	ND		2000	1980	99	2000	2000	100	1	69-133/18
67-66-3	Chloroform	ND		2000	2010	101	2000	1920	96	5	74-126/17
95-49-8	o-Chlorotoluene	ND		2000	2040	102	2000	2040	102	0	72-127/20
106-43-4	p-Chlorotoluene	ND		2000	1930	97	2000	1900	95	2	68-127/18
75-15-0	Carbon disulfide	ND		2000	1250	63	2000	1220	61	2	56-137/19
56-23-5	Carbon tetrachloride	ND		2000	1880	94	2000	1840	92	2	71-133/19
75-34-3	1,1-Dichloroethane	2770		2000	4630	93	2000	4510	87	3	71-125/17
75-35-4	1,1-Dichloroethylene	8040		2000	9570	77	2000	9790	88	2	66-125/20
563-58-6	1,1-Dichloropropene	ND		2000	1920	96	2000	1870	94	3	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		2000	1950	98	2000	1980	99	2	65-131/20
106-93-4	1,2-Dibromoethane	ND		2000	2060	103	2000	2010	101	2	75-135/17
107-06-2	1,2-Dichloroethane	131		2000	2140	100	2000	2020	94	6	71-131/17
78-87-5	1,2-Dichloropropane	ND		2000	1960	98	2000	1890	95	4	78-124/16
142-28-9	1,3-Dichloropropane	ND		2000	2010	101	2000	1950	98	3	78-123/16
594-20-7	2,2-Dichloropropane	ND		2000	1690	85	2000	1620	81	4	70-131/19
124-48-1	Dibromochloromethane	ND		2000	1870	94	2000	1840	92	2	76-132/16
75-71-8	Dichlorodifluoromethane	ND		2000	2120	106	2000	2190	110	3	32-168/28
156-59-2	cis-1,2-Dichloroethylene	158		2000	2150	100	2000	2040	94	5	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		2000	2000	100	2000	1950	98	3	72-130/16
541-73-1	m-Dichlorobenzene	ND		2000	2010	101	2000	1990	100	1	75-124/16
95-50-1	o-Dichlorobenzene	ND		2000	2040	102	2000	1990	100	2	76-124/16
106-46-7	p-Dichlorobenzene	ND		2000	1920	96	2000	1910	96	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		2000	1820	91	2000	1770	89	3	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		2000	1880	94	2000	1870	94	1	71-126/16
100-41-4	Ethylbenzene	107		2000	2040	97	2000	2010	95	1	76-126/17
591-78-6	2-Hexanone	ND		8000	8820	110	8000	8620	108	2	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36216-1MS	U22092.D	100	10/07/14	JC	n/a	n/a	VU901
C36216-1MSD	U22093.D	100	10/07/14	JC	n/a	n/a	VU901
C36216-1	U22090.D	100	10/07/14	JC	n/a	n/a	VU901

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1

CAS No.	Compound	C36216-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		2000	1810	91	2000	1910	96	5	69-135/20
98-82-8	Isopropylbenzene	27.3	J	2000	2050	101	2000	2030	100	1	61-125/17
99-87-6	p-Isopropyltoluene	ND		2000	1890	95	2000	1890	95	0	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		8000	8460	106	8000	8230	103	3	71-142/21
74-83-9	Methyl bromide	ND		2000	1870	94	2000	1830	92	2	68-132/18
74-87-3	Methyl chloride	ND		2000	2190	110	2000	2120	106	3	39-150/28
74-95-3	Methylene bromide	ND		2000	2140	107	2000	2080	104	3	77-127/16
75-09-2	Methylene chloride	ND		2000	1850	93	2000	1790	90	3	67-128/18
78-93-3	Methyl ethyl ketone	ND		8000	8880	111	8000	8550	107	4	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		2000	2070	104	2000	2030	102	2	73-132/17
91-20-3	Naphthalene	56.8	J	2000	2040	99	2000	2090	102	2	70-136/20
103-65-1	n-Propylbenzene	40.2	J	2000	1970	96	2000	1960	96	1	71-127/17
100-42-5	Styrene	ND		2000	2010	101	2000	1960	98	3	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	ND		2000	2080	104	2000	2040	102	2	77-130/16
71-55-6	1,1,1-Trichloroethane	ND		2000	1910	96	2000	1850	93	3	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		2000	2080	104	2000	2040	102	2	77-129/17
79-00-5	1,1,2-Trichloroethane	29.1	J	2000	2150	106	2000	2070	102	4	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		2000	1920	96	2000	1960	98	2	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		2000	1940	97	2000	1880	94	3	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		2000	1910	96	2000	1930	97	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	218		2000	2150	97	2000	2150	97	0	74-129/17
108-67-8	1,3,5-Trimethylbenzene	47.8	J	2000	2090	102	2000	2100	103	0	77-129/17
127-18-4	Tetrachloroethylene	ND		2000	1880	94	2000	1830	92	3	69-127/20
108-88-3	Toluene	40.6	J	2000	1920	94	2000	1920	94	0	75-122/17
79-01-6	Trichloroethylene	ND		2000	1930	97	2000	1890	95	2	78-123/17
75-69-4	Trichlorofluoromethane	ND		2000	2040	102	2000	2070	104	1	65-136/23
75-01-4	Vinyl chloride	4720		2000	6750	102	2000	6760	102	0	57-146/22
1330-20-7	Xylene (total)	356		6000	6390	101	6000	6280	99	2	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C36216-1	Limits
1868-53-7	Dibromofluoromethane	104%	100%	105%	70-130%
2037-26-5	Toluene-D8	98%	98%	99%	70-130%
460-00-4	4-Bromofluorobenzene	96%	95%	92%	70-130%

* = Outside of Control Limits.

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Accutest Laboratories

Sample Summary

City of Tucson Environmental Services

COT: Broadway & Pantano

Job No: C36172R

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C36172-1R	09/23/14	09:10 MT		09/25/14	AQ	Ground Water	C26-25

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	City of Tucson Environmental Services	**Job No**	C36172R
Site:	COT: Broadway & Pantano	**Report Date**	10/9/2014 2:36:50 PM

1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 09/23/2014 and were received at Accutest on 09/25/2014 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of C36172R. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VU903

- The following samples were run outside of holding time for method SW846 8260B: C36172-1R. Sample reanalyzed past hold time using headspace vial due to overdilution on original run (5x).
- Sample(s) C36172-1R have for Bromoform a CCV outside of control limits (biased high); not detected in sample.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C36172R
Account: City of Tucson Environmental Services
Project: COT: Broadway & Pantano
Collected: 09/23/14

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C36172-1R	**C26-25**					
Chloroform [a]		0.65	0.50		ug/l	SW846 8260B

(a) Sample reanalyzed past hold time using headspace vial due to overdilution on original run (5x). AZ:H1

Northern California ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	C26-25		
Lab Sample ID:	C36172-1R	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U22121.D	1	10/08/14	JC	n/a	n/a	VU903
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	ug/l	
75-25-2	Bromoform [b]	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	0.50	ug/l	
75-00-3	Chloroethane	ND	0.50	ug/l	
67-66-3	Chloroform	0.65	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C26-25		
Lab Sample ID:	C36172-1R	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	ug/l	
75-01-4	Vinyl chloride	ND	0.50	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

(a) Sample reanalyzed past hold time using headspace vial due to overdilution on original run (5x). AZ:H1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	C26-25		
Lab Sample ID:	C36172-1R	**Date Sampled:**	09/23/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	COT: Broadway & Pantano		

VOA 8260 Special List

CAS No.	Compound	Result	RL	Units	Q

(b) CCV outside of control limits (biased high); not detected in sample. AZ:V1

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Northern California ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Arizona Qualifiers
- Chain of Custody

Arizona Qualifiers

Job Number: C36172R
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

The following Arizona qualifiers have been applied to data and/or QC in this report.

Qual	Description
H1	Sample analysis performed past holding time.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

PHOENIX

ACCUTEST® LABORATORIES

CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # 8034010333 1
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C 36172

Client / Reporting Information

Company Name: City of Tucson
Address: PO Box 27210
City: Tucson State: AZ Zip: 85726
Project Contact: Lori Ehman
Phone #: 520-791-3175
Samplers's Name: Marc Taylor

Project Information

Project Name: BROADWAY/PANTANO
Street:
City: State:
Project #: P01154
EMAIL: Lori.Ehman@tucsonaz.gov
Client Purchase Order #:

Requested Analysis: 8260

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; Ol-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	Na2S2O3	MEOH	ENCORE	8260	LAB USE ONLY
1	C26 - 25	9/23/14	0910	MT	GW	3	3								✓	
2	C26 - 50	9/23/14	0920	MT	GW	3	3								✓	
3	C26 - 75	9/23/14	0930	MT	GW	3	3								✓	
4	C26 - 100	9/23/14	0940	MT	GW	3	3								✓	2 vials broken upon receiving
5	R90a - 25	9/23/14	1130	MT	GW	3	3								✓	
6	R90a - 50	9/23/14	1140	MT	GW	3	3								✓	
7	R90a - 75	9/23/14	1150	MT	GW	3	3								✓	
8	R90a - 100	9/23/14	1200	MT	GW	3	3								✓	
9	Trip Blank	9/23/14	1502			3	3								✓	
		9/23/14														

Turnaround Time (Business days): 10 Day; 5 Day; 3 Day; 2 Day; 1 Day; Same Day
Approved By/Date:

Data Deliverable Information: Commercial "A" - Results only; Commercial "B" - Results with QC summaries; Commerical "B+" - Results, QC, and chromatograms; FULT1 - Level 4 data package; EDF for Geotracker; EDD Format; Provide EDF Global ID; Provide EDF Logcode:

Comments / Remarks

Emergency T/A data available VIA Lablink

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	9/23/14 1570	1	2	9/23/14 1630	2 Fedex
3 Fedex	9/25/14 0950	3	4		4
5		5			

Custody Seal #: Y
Appropriate Bottle / Pres. Y/N; Labels match Coc? Y / N; Separate Receiving Check List used: Y / N; Headspace Y/N; On Ice Y/N; Cooler Temp. 2.1-0.1=2.0 °C

5.2 5

C36172R: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C36172 **Client:** CITY OF TUCSON **Project:** BROADWAY/PANTANO

Date / Time Received: 9/25/2014 9:50:00 AM **Delivery Method:** FedEx **Airbill #'s:** 80340103333

Cooler Temps (Initial/Adjusted): #1: (2.1/2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR2;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments Sample C26-100 (2 x 40ml Vials w/HCL) received broken in FedEx Shipment

Accutest Laboratories
V:408.588.0200

2105 Lundy Avenue
F: 408.588.0201

San Jose, CA 95131
www/accutest.com

C36172R: Chain of Custody
Page 2 of 2

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Northern California
ACCUTEST LABORATORIES

10/09/14

Technical Report for

City of Tucson Environmental Services

COT: Broadway & Pantano

Accutest Job Number: C36172R

Sampling Date: 09/23/14

Report to:

City of Tucson - Env.Services
4400 S. Park Ave., Bldg 1 P.O. Box 27210
Tucson, AZ 85726
lori.ehman@tucsonaz.gov

ATTN: Lori Ehman

Total number of pages in report: **21**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Elvin Kumar 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

Method Blank Summary

Job Number: C36172R
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU903-MB	U22102.D	1	10/08/14	JC	n/a	n/a	VU903

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1R

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	20	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	

Method Blank Summary

Job Number: C36172R
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU903-MB	U22102.D	1	10/08/14	JC	n/a	n/a	VU903

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1R

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	92%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	89%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36172R
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU903-BS	U22099.D	1	10/08/14	JC	n/a	n/a	VU903
VU903-BSD	U22100.D	1	10/08/14	JC	n/a	n/a	VU903

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	81.6	102	82.3	103	1	38-159/24
71-43-2	Benzene	20	19.2	96	18.4	92	4	77-122/25
108-86-1	Bromobenzene	20	20.4	102	20.2	101	1	76-126/17
74-97-5	Bromochloromethane	20	20.1	101	19.9	100	1	77-130/17
75-27-4	Bromodichloromethane	20	19.8	99	19.2	96	3	75-127/16
75-25-2	Bromoform	20	23.0	115	22.6	113	2	69-141/17
104-51-8	n-Butylbenzene	20	19.2	96	19.0	95	1	72-129/18
135-98-8	sec-Butylbenzene	20	20.5	103	20.0	100	2	74-128/18
98-06-6	tert-Butylbenzene	20	20.0	100	19.7	99	2	73-127/18
108-90-7	Chlorobenzene	20	20.9	105	20.3	102	3	77-122/16
75-00-3	Chloroethane	20	19.7	99	19.4	97	2	69-133/18
67-66-3	Chloroform	20	19.1	96	18.9	95	1	74-126/17
95-49-8	o-Chlorotoluene	20	20.4	102	20.3	102	0	72-127/20
106-43-4	p-Chlorotoluene	20	19.5	98	19.2	96	2	68-127/18
75-15-0	Carbon disulfide	20	14.6	73	13.8	69	6	56-137/19
56-23-5	Carbon tetrachloride	20	20.1	101	18.5	93	8	71-133/19
75-34-3	1,1-Dichloroethane	20	18.0	90	17.8	89	1	71-125/17
75-35-4	1,1-Dichloroethylene	20	17.9	90	17.0	85	5	66-125/20
563-58-6	1,1-Dichloropropene	20	20.2	101	19.0	95	6	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	19.3	97	19.6	98	2	65-131/20
106-93-4	1,2-Dibromoethane	20	20.7	104	20.4	102	1	75-135/17
107-06-2	1,2-Dichloroethane	20	19.8	99	19.0	95	4	71-131/17
78-87-5	1,2-Dichloropropane	20	19.5	98	18.8	94	4	78-124/16
142-28-9	1,3-Dichloropropane	20	19.8	99	19.4	97	2	78-123/16
594-20-7	2,2-Dichloropropane	20	19.4	97	18.4	92	5	70-131/19
124-48-1	Dibromochloromethane	20	20.9	105	20.5	103	2	76-132/16
75-71-8	Dichlorodifluoromethane	20	21.8	109	19.8	99	10	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	19.5	98	19.0	95	3	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	20.9	105	20.3	102	3	72-130/16
541-73-1	m-Dichlorobenzene	20	20.4	102	20.5	103	0	75-124/16
95-50-1	o-Dichlorobenzene	20	20.6	103	20.2	101	2	76-124/16
106-46-7	p-Dichlorobenzene	20	19.6	98	19.5	98	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	18.3	92	17.9	90	2	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	20.1	101	19.7	99	2	71-126/16
100-41-4	Ethylbenzene	20	19.7	99	19.0	95	4	76-126/17
591-78-6	2-Hexanone	80	88.1	110	87.4	109	1	67-150/22

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36172R
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU903-BS	U22099.D	1	10/08/14	JC	n/a	n/a	VU903
VU903-BSD	U22100.D	1	10/08/14	JC	n/a	n/a	VU903

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	20	20.4	102	20.4	102	0	69-135/20
98-82-8	Isopropylbenzene	20	21.0	105	20.2	101	4	61-125/17
99-87-6	p-Isopropyltoluene	20	19.8	99	19.5	98	2	68-127/18
108-10-1	4-Methyl-2-pentanone	80	84.3	105	83.1	104	1	71-142/21
74-83-9	Methyl bromide	20	18.5	93	18.5	93	0	68-132/18
74-87-3	Methyl chloride	20	21.3	107	19.3	97	10	39-150/28
74-95-3	Methylene bromide	20	21.0	105	20.4	102	3	77-127/16
75-09-2	Methylene chloride	20	17.9	90	17.7	89	1	67-128/18
78-93-3	Methyl ethyl ketone	80	85.4	107	86.4	108	1	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	20.5	103	20.3	102	1	73-132/17
91-20-3	Naphthalene	20	20.0	100	20.8	104	4	70-136/20
103-65-1	n-Propylbenzene	20	20.0	100	19.6	98	2	71-127/17
100-42-5	Styrene	20	20.5	103	20.0	100	2	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	20	21.3	107	20.7	104	3	77-130/16
71-55-6	1,1,1-Trichloroethane	20	18.7	94	18.2	91	3	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	20.5	103	20.7	104	1	77-129/17
79-00-5	1,1,2-Trichloroethane	20	20.8	104	20.3	102	2	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	19.8	99	21.0	105	6	70-133/18
96-18-4	1,2,3-Trichloropropane	20	20.5	103	20.3	102	1	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	19.8	99	20.3	102	2	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	19.4	97	19.0	95	2	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	20.2	101	19.8	99	2	77-129/17
127-18-4	Tetrachloroethylene	20	20.5	103	19.8	99	3	69-127/20
108-88-3	Toluene	20	19.6	98	18.9	95	4	75-122/17
79-01-6	Trichloroethylene	20	19.9	100	19.1	96	4	78-123/17
75-69-4	Trichlorofluoromethane	20	21.1	106	19.7	99	7	65-136/23
75-01-4	Vinyl chloride	20	21.6	108	20.4	102	6	57-146/22
1330-20-7	Xylene (total)	60	61.5	103	59.7	100	3	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	97%	98%	70-130%
2037-26-5	Toluene-D8	98%	98%	70-130%
460-00-4	4-Bromofluorobenzene	97%	95%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172R
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36252-5MS	U22123.D	1	10/08/14	JC	n/a	n/a	VU903
C36252-5MSD	U22124.D	1	10/08/14	JC	n/a	n/a	VU903
C36252-5	U22120.D	1	10/08/14	JC	n/a	n/a	VU903

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1R

CAS No.	Compound	C36252-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	20 U		80	63.4	79	80	64.5	81	2	38-159/24
71-43-2	Benzene	1.0 U		20	16.2	81	20	16.2	81	0	77-122/16
108-86-1	Bromobenzene	1.0 U		20	17.0	85	20	17.1	86	1	76-126/17
74-97-5	Bromochloromethane	1.0 U		20	15.9	80	20	16.2	81	2	77-130/17
75-27-4	Bromodichloromethane	1.0 U		20	15.5	78	20	15.7	79	1	75-127/16
75-25-2	Bromoform	1.0 U		20	14.3	72	20	14.3	72	0	69-141/17
104-51-8	n-Butylbenzene	2.0 U		20	14.2	71* [a]	20	14.8	74	4	72-129/18
135-98-8	sec-Butylbenzene	2.0 U		20	16.4	82	20	16.8	84	2	74-128/18
98-06-6	tert-Butylbenzene	2.0 U		20	16.2	81	20	16.5	83	2	73-127/18
108-90-7	Chlorobenzene	1.0 U		20	18.0	90	20	18.2	91	1	77-122/16
75-00-3	Chloroethane	1.0 U		20	18.3	92	20	18.1	91	1	69-133/18
67-66-3	Chloroform	1.0 U		20	15.2	76	20	15.3	77	1	74-126/17
95-49-8	o-Chlorotoluene	2.0 U		20	15.8	79	20	16.0	80	1	72-127/20
106-43-4	p-Chlorotoluene	2.0 U		20	15.2	76	20	15.6	78	3	68-127/18
75-15-0	Carbon disulfide	1.0 U		20	9.9	50* [a]	20	9.9	50* [a]	0	56-137/19
56-23-5	Carbon tetrachloride	1.0 U		20	17.8	89	20	17.6	88	1	71-133/19
75-34-3	1,1-Dichloroethane	1.0 U		20	14.5	73	20	14.6	73	1	71-125/17
75-35-4	1,1-Dichloroethylene	1.0 U		20	14.4	72	20	14.3	72	1	66-125/20
563-58-6	1,1-Dichloropropene	1.0 U		20	16.1	81	20	16.4	82	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		20	15.3	77	20	15.7	79	3	65-131/20
106-93-4	1,2-Dibromoethane	1.0 U		20	16.8	84	20	17.0	85	1	75-135/17
107-06-2	1,2-Dichloroethane	1.0 U		20	15.9	80	20	16.0	80	1	71-131/17
78-87-5	1,2-Dichloropropane	1.0 U		20	16.2	81	20	16.3	82	1	78-124/16
142-28-9	1,3-Dichloropropane	1.0 U		20	16.2	81	20	16.4	82	1	78-123/16
594-20-7	2,2-Dichloropropane	1.0 U		20	13.5	68* [a]	20	13.7	69* [a]	1	70-131/19
124-48-1	Dibromochloromethane	1.0 U		20	15.1	76	20	15.0	75* [a]	1	76-132/16
75-71-8	Dichlorodifluoromethane	1.0 U		20	20.0	100	20	19.8	99	1	32-168/28
156-59-2	cis-1,2-Dichloroethylene	3.9		20	19.9	80	20	20.1	81	1	73-126/17
10061-01-5	cis-1,3-Dichloropropene	1.0 U		20	15.6	78	20	16.0	80	3	72-130/16
541-73-1	m-Dichlorobenzene	1.0 U		20	17.5	88	20	17.7	89	1	75-124/16
95-50-1	o-Dichlorobenzene	1.0 U		20	17.4	87	20	17.6	88	1	76-124/16
106-46-7	p-Dichlorobenzene	1.0 U		20	16.6	83	20	16.9	85	2	75-124/16
156-60-5	trans-1,2-Dichloroethylene	0.27	J	20	15.1	74	20	15.2	75	1	71-126/18
10061-02-6	trans-1,3-Dichloropropene	1.0 U		20	14.7	74	20	15.1	76	3	71-126/16
100-41-4	Ethylbenzene	1.0 U		20	13.8	69* [a]	20	14.3	72* [a]	4	76-126/17
591-78-6	2-Hexanone	10 U		80	68.1	85	80	69.2	87	2	67-150/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172R
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36252-5MS	U22123.D	1	10/08/14	JC	n/a	n/a	VU903
C36252-5MSD	U22124.D	1	10/08/14	JC	n/a	n/a	VU903
C36252-5	U22120.D	1	10/08/14	JC	n/a	n/a	VU903

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1R

CAS No.	Compound	C36252-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	2.0	U	20	17.5	88	20	18.6	93	6	69-135/20
98-82-8	Isopropylbenzene	1.0	U	20	15.8	79	20	16.2	81	2	61-125/17
99-87-6	p-Isopropyltoluene	2.0	U	20	12.4	62* [a]	20	13.0	65* [a]	5	68-127/18
108-10-1	4-Methyl-2-pentanone	10	U	80	64.6	81	80	65.7	82	2	71-142/21
74-83-9	Methyl bromide	2.0	U	20	15.1	76	20	15.0	75	1	68-132/18
74-87-3	Methyl chloride	1.0	U	20	18.8	94	20	17.5	88	7	39-150/28
74-95-3	Methylene bromide	1.0	U	20	16.9	85	20	17.1	86	1	77-127/16
75-09-2	Methylene chloride	10	U	20	14.3	72	20	14.5	73	1	67-128/18
78-93-3	Methyl ethyl ketone	10	U	80	62.5	78	80	63.7	80	2	56-155/23
1634-04-4	Methyl Tert Butyl Ether	1.0	U	20	15.6	78	20	15.9	80	2	73-132/17
91-20-3	Naphthalene	5.0	U	20	16.0	80	20	16.9	85	5	70-136/20
103-65-1	n-Propylbenzene	2.0	U	20	14.7	74	20	15.1	76	3	71-127/17
100-42-5	Styrene	1.0	U	20	3.4	17* [a]	20	4.0	20* [a]	16	72-134/16
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	20	17.7	89	20	18.0	90	2	77-130/16
71-55-6	1,1,1-Trichloroethane	1.0	U	20	15.9	80	20	16.1	81	1	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	20	16.7	84	20	17.0	85	2	77-129/17
79-00-5	1,1,2-Trichloroethane	1.0	U	20	17.2	86	20	17.4	87	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	2.0	U	20	16.4	82	20	17.4	87	6	70-133/18
96-18-4	1,2,3-Trichloropropane	2.0	U	20	14.0	70	20	14.3	72	2	69-126/18
120-82-1	1,2,4-Trichlorobenzene	2.0	U	20	16.3	82	20	17.2	86	5	68-129/17
95-63-6	1,2,4-Trimethylbenzene	2.0	U	20	5.9	30* [a]	20	6.7	34* [a]	13	74-129/17
108-67-8	1,3,5-Trimethylbenzene	2.0	U	20	4.3	22* [a]	20	4.9	25* [a]	13	77-129/17
127-18-4	Tetrachloroethylene	1.0	U	20	17.5	88	20	17.6	88	1	69-127/20
108-88-3	Toluene	1.0	U	20	13.9	70* [a]	20	14.1	71* [a]	1	75-122/17
79-01-6	Trichloroethylene	1.0	U	20	17.3	87	20	17.5	88	1	78-123/17
75-69-4	Trichlorofluoromethane	1.0	U	20	19.6	98	20	19.6	98	0	65-136/23
75-01-4	Vinyl chloride	1.0	U	20	18.5	93	20	17.6	88	5	57-146/22
1330-20-7	Xylene (total)	2.0	U	60	28.9	48* [a]	60	31.2	52* [a]	8	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C36252-5	Limits
1868-53-7	Dibromofluoromethane	91%	91%	90%	70-130%
2037-26-5	Toluene-D8	87%	87%	76%	70-130%
460-00-4	4-Bromofluorobenzene	93%	92%	88%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36172R
Account: CTESAZT City of Tucson Environmental Services
Project: COT: Broadway & Pantano

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36252-5MS	U22123.D	1	10/08/14	JC	n/a	n/a	VU903
C36252-5MSD	U22124.D	1	10/08/14	JC	n/a	n/a	VU903
C36252-5	U22120.D	1	10/08/14	JC	n/a	n/a	VU903

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36172-1R

(a) Outside control limits due to matrix interference. AZ:M2

* = Outside of Control Limits.