



DEPARTMENT OF THE AIR FORCE
AIR FORCE CENTER FOR ENGINEERING AND THE ENVIRONMENT
LACKLAND AIR FORCE BASE TEXAS

30 April 2010

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Subject: Submission of "Final Site ST035 Former Building 760 2009 Annual Groundwater Monitoring Report, Former Williams Air force Base, Mesa, Arizona"

The Air Force is pleased to submit the attached **Final Site ST035 Former Building 760 2009 Annual Groundwater Monitoring Report**. We submitted the draft of this report on 19 March 2010 and noted that we would proceed to finalize the report if we did not receive comments from ADEQ within 30 days. Because we received no review comments we have proceeded to finalize the report.

Please contact me at (210) 395-8235 or william.lopp@us.af.mil if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "W B Lopp".

WILLIAM B. LOPP
AFCEE Project Manager and BEC

Attachment:

Final Site ST035 Former Building 760 2009 Annual Groundwater Monitoring Report, Former Williams Air force Base, Mesa, Arizona

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
 Tank Programs Division
 Underground Storage Tank (UST) Program

ADEQ use only

DOCUMENT SUBMITTAL FORM

[use as **COVER SHEET** when submitting the documents listed below]

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PERSON CATEGORY

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- UST owner 0293.09 & 0293.10
 UST operator _____
 UST volunteer _____
 Property owner _____

LUST, RELEASE OR CORRECTIVE ACTION DOCUMENT: (check all that apply; * indicates document requires signed certification statement)

- | | | |
|---|---|---|
| <input type="checkbox"/> * 14 day report (suspected release) | <input type="checkbox"/> * Free Product Report | <input type="checkbox"/> * Addendum (check related document type) |
| <input type="checkbox"/> * 90 day report (suspected release) | <input type="checkbox"/> * Tier 2 risk evaluation | <input checked="" type="checkbox"/> Other: (please specify) |
| <input type="checkbox"/> * 14 day report (confirmed release) | <input type="checkbox"/> * Tier 3 risk evaluation | <i>Site ST035 Former Building 760 2009</i> |
| <input type="checkbox"/> * 90 day report (confirmed release) | <input type="checkbox"/> * Corrective action plan (CAP) | <i>Annual Groundwater Monitoring</i> |
| <input type="checkbox"/> * LUST site classification form | <input type="checkbox"/> * Periodic site status report | <i>Report, Former Williams Air Force</i> |
| <input type="checkbox"/> * Site characterization report (SCR) | (includes groundwater monitoring reports) | <i>Base, Mesa, Arizona</i> |
| | <input type="checkbox"/> * LUST case closure request | |
| | w/corrective action completion report | |

UST DOCUMENT:
 SAF DOCUMENT: Application #: _____

INFORMAL APPEAL: LUST
 SAF
 UST

CERTIFICATION STATEMENT OF UST OWNER, OPERATOR OR VOLUNTEER: (for only documents designated above by *)

"I hereby certify, under penalty of law, which this submittal and all attachments are, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations."

W B Lopp
 Signature of UST owner, operator or volunteer

15 Mar 2010
 Date

WILLIAM B. LOPP
 Name of UST owner, operator or volunteer (printed)

AFCEE Program Manager & BEC
 Title

Final

Site ST035

**Former Building 760
2009 Annual Groundwater Monitoring Report**

FORMER WILLIAMS AIR FORCE BASE
MESA, ARIZONA

April 2010

Prepared for:
Air Force Real Property Agency and
Air Force Center for Engineering and the Environment
Base Conversion Directorate

Contract Number: FA8903-08-D-8783
Project: YZJU20097104
Task Order: 0058

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Acronyms and Abbreviations

°C	degrees Celsius
1,2-DCA	1,2-dichloroethane
AAFES	Army/Air Force Exchange Service
ADEQ	Arizona Department of Environmental Quality
ADHS	Arizona Department of Health Services
ADWR	Arizona Department of Water Resources
AF	Air Force
AFB	Air Force Base
AFCEE	Air Force Center for Engineering and the Environment
ASU	Arizona State University
bgs	below ground surface
BRAC	Base Realignment and Closure
BSAP	Basewide Sampling and Analysis Plan
BTEX	benzene, toluene, ethylbenzene, and total xylenes
BOC	below top of casing
CDM	Camp Dresser McKee
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COC	constituent of concern
DoD	U.S. Department of Defense
DO	dissolved oxygen
DRO	diesel range organics
DUP	duplicate
DUS	Data Usability Summary
EDB	1,2-dibromoethane (ethylene dibromide)
EPA	U.S. Environmental Protection Agency
FFA	Federal Facilities Agreement
ft	foot, feet
gal	gallon
GRO	gasoline range organics
ID	identification
IDW	investigation-derived waste
IRP	Installation Restoration Program
IS	internal standard
L/min	liters per minute
LCS	laboratory control sample
LES	Liquid Environmental Solutions
µg/L	micrograms per liter
MCL	maximum contaminant level
mg/L	milligrams per liter
Microbac	Microbac Laboratories
MS	matrix spike
MSD	matrix spike duplicate
MSL	mean sea level

Acronyms and Abbreviations (Continued)

MTBE	methyl tertiary butyl ether
mV	millivolts
NA	Not available
NAVD	North American Vertical Datum
NCP	National Contingency Plan
NM	Not measured
NPL	National Priorities List
NTU	nephelometric turbidity unit
ORP	oxidation-reduction potential
PBC	Public Benefit Conveyance
PVC	polyvinyl chloride
QA	quality assurance
QC	quality control
PCE	tetrachloroethene
RCRA	Resource Conservation and Recovery Act
RL	reporting limit
SARA	Superfund Amendments and Reauthorization Act
SOP	standard operating procedure
SVE	soil vapor extraction
TBA	tert butyl alcohol
TCE	trichloroethene
TO	Task Order
TOC	top of casing
TPH	total petroleum hydrocarbon
URS	URS Corporation
UST	underground storage tank
VMP	vapor monitoring point
VOC	volatile organic compound

EXECUTIVE SUMMARY

This 2009 Annual Groundwater Monitoring Report presents the May 2009, August 2009, and November/December 2009 results from groundwater monitoring activities conducted at the former Williams Air Force Base (AFB), Mesa, Arizona, at Site ST035 (former Building 760). The Air Force Center for Engineering and the Environment (AFCEE) tasked URS Corporation (URS) to conduct ST035 groundwater monitoring under Task Order (TO) 0058 of Contract Number FA8903-08-D-8783.

Groundwater monitoring was conducted in May 2009, August 2009, and November/December 2009. Groundwater elevation measurements and samples were collected during each event. The samples from each event were analyzed for ST035 constituents of concern (COCs) (benzene, toluene, ethylbenzene, and total xylenes [BTEX], methyl tertiary butyl ether [MTBE], and 1,2-dibromoethane [EDB]) in accordance with the *Final 2009 Site ST035 Former Building 760 Groundwater Monitoring Work Plan* (URS, May 2009a).

The results of these monitoring events reveal continually rising groundwater levels (2 feet [ft] per year), decreasing BTEX, MTBE, and EDB concentrations proximal to and downgradient from the source area, and a slightly contracting BTEX, MTBE, and EDB plume.

All wells at the site were found to be in good condition and did not require any maintenance. The existing wells were constructed using 40 ft of well screen with approximately 30 ft of the screen above the water table in anticipation of rising water levels; therefore, rising water levels are not expected to submerge the well screens for 10 years or more.

On 24 September 2009, Mr. Abdellatif (Adam) Mohamed, Arizona Department of Environmental Quality (ADEQ), requested that the Air Force (AF) include 1,2-dichloroethane (1,2-DCA) into its groundwater sampling program for ST035. The AF procured 2009 groundwater monitoring based on the approved Work Plan (URS, May 2009a), which only included analysis of BTEX, MTBE, and EDB. The U.S. Environmental Protection Agency (EPA) method, SW8260B, used to analyze concentrations of BTEX and MTBE also detects and quantifies 1,2-DCA. All compounds reported from the SW8260B analyses were validated and included in the Data Usability Summary (DUS) included in Appendix C. However, results are not shown on figures and are not discussed in length in this report. 1,2-DCA was added as a site COC starting in 2010; therefore, subsequent reports will include an analysis of 1,2-DCA, including isoconcentration figures and interpretation/discussion.

1.0 INTRODUCTION

This Annual Groundwater Monitoring Report presents the May 2009, August 2009, and November/December 2009 results from groundwater monitoring activities conducted at the former Williams Air Force Base (AFB), Mesa, Arizona, at Site ST035 (former Building 760). The work was performed in accordance with the *Final 2009 Site ST035 Former Building 760 Groundwater Monitoring Work Plan* (URS Corporation [URS], May 2009a). Field and analytical procedures were conducted in accordance with the *Final Basewide Sampling and Analysis Plan* (BSAP) (URS, June 2009). The Air Force Center for Engineering and the Environment (AFCEE) tasked URS to conduct ST035 groundwater monitoring under Task Order (TO) 0058 of Contract Number FA8903-08-D-8783.

1.1 Background

1.1.1 Williams AFB History

The former Williams AFB is located in Mesa, Arizona, approximately 30 miles southeast of Phoenix. Williams AFB, constructed on 4,043 acres, was commissioned as a flight training school in 1941. Pilot training was the primary mission throughout the history of the base. Jet aircraft training started at the base as early as 1949. The location of the former Williams AFB is presented as Figure 1-1.

The Installation Restoration Program (IRP) was implemented by the U.S. Department of Defense (DoD) in 1980 to identify and remediate environmental contamination from past hazardous materials use and disposal activities at DoD facilities including Air Force (AF) installations. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 (Superfund) and the Superfund Amendments and Reauthorization Act (SARA), passed by Congress in 1986, requires cleanup of federal facilities, such as Williams AFB, to meet requirements articulated in the National Contingency Plan (NCP). On 21 November 1989, the former Williams AFB was added to the U.S. Environmental Protection Agency (EPA) National Priorities List (NPL). The NPL serves primarily as an information tool for the EPA to identify sites that warrant further investigation and remedial action.

On 21 September 1990, a Williams AFB Federal Facilities Agreement (FFA) was signed which establishes a cooperative and participatory framework among the federal and state agency members, defines their roles and responsibilities, and establishes a process to resolve any disputes that may arise during the study and execution phases of the environmental cleanup. Parties of the FFA include the following: AF, EPA, Arizona Department of Environmental Quality (ADEQ), and the Arizona Department of Water Resources (ADWR). However, because environmental contamination at ST035 resulted from the spill of a fuel product (gasoline), the cleanup of Site ST035 is not governed by CERCLA and the site is not managed under the FFA. Rather, it is an underground storage tank (UST) site managed under the State of Arizona UST program.

As part of the DoD-wide Base Realignment and Closure (BRAC) program, the former Williams AFB was closed in 1993. The majority of the base property has since been converted to the Phoenix-Mesa Gateway Airport (formerly Williams Gateway Airport) and related aviation

industrial/commercial facilities, Arizona State University (ASU) Polytechnic Campus, Maricopa County Community College Williams Campus, and several other smaller entities.

1.1.2 ST035 History

ST035 is located in the west-central area of the former Williams AFB (Figure 1-2). The following summarizes the groundwater monitoring and well installation history for Site ST035:

- Building 760 was the Williams AFB gasoline service station for the Base Exchange and was in operation for over 20 years until shortly before the base was formally closed in September 1993. Former site facilities included six USTs, ancillary piping, and dispensers.
- In approximately 1986, the Building 760 gasoline dispensing operations ended when the Army/Air Force Exchange Service (AAFES) Shoppette opened at Building 319. Although gasoline was no longer sold at Building 760, lube and oil change services were conducted until base closure in 1993.
- In October 1993 and January 1994, the Building 760 USTs, ancillary piping, and dispensers were removed. After the Building 760 UST removal, petroleum contaminated soil and groundwater were identified.
- In October 1996, the AF deeded the Building 760 site to the Arizona Board of Regents as a Public Benefit Conveyance (PBC). The property is now owned by ASU and is used to house its Polytechnic Campus.
- In March 1997, eight monitoring wells were installed: B760-MW01, B760-MW02, B760-MW03, B760-MW04, B760-MW05, B760-MW06, B760-MW07, and B760-MW08 (Figure 1-3). Groundwater sampling from these wells began in 1997. They were generally sampled annually through July 2006. The constituents of concern (COCs) at ST035 are presented in Table 1-1. One or more of the COCs listed in Table 1-1 have exceeded the respective ADEQ UST Tier 1 Corrective Action Standards in seven of the eight monitoring wells.
- In early 2007, ASU began constructing several structures to be used as offices, classrooms, and lecture halls on the ASU Polytechnic Campus on and adjacent to the former site of Building 760.
- In April 2007, to accommodate construction of the new ASU buildings, five wells (B760-MW01, B760-MW02, B760-MW03, B760-MW04, and B760-MW05) were decommissioned in accordance with ADWR requirements. The locations of the ASU planned buildings coincided with the locations of these five monitoring wells.
- In January and April 2008, the five wells that were decommissioned in April 2007 were replaced with monitoring wells at alternative locations approved by ADEQ at a 12 December 2007 meeting. The replacement wells are B760-MW09,

B760-MW10, B760-MW11, B760-MW12, and B760-MW13. The replacement wells were installed with screens 40 feet (ft) in length with approximately 30 ft of the screen above the water table. The locations of these wells are shown on Figure 1-3.

- In May and June 2008, five soil vapor extraction (SVE) wells and seven vapor monitoring points (VMPs) (VMP-1 through VMP-7) were installed (Figure 1-3). The five SVE wells were connected at the well heads to existing SVE conveyance piping previously installed by ASU during construction of new ASU Polytechnic Campus facilities.
- In July 2008, URS performed a pilot test of the SVE system wells to establish the air flow to vacuum relationship for sizing of the SVE system blower, to establish the vacuum radius of influence of the five SVE wells (estimated to be greater than 100 ft), and to determine the most cost-effective treatment technology for the SVE system.
- In June through August 2008, monitoring wells B760-MW06R, B760-MW07R, and B760-MW08R were installed to replace B760-MW06, B760-MW07, and B760-MW08, respectively. The new wells were installed in anticipation of the well screens for B760-MW06, B760-MW07, and B760-MW08 becoming submerged in 2009. The replacement wells were installed with screens 40 ft in length with approximately 30 ft of the screen above the water table.
- In November 2008, monitoring wells B760-MW06, B760-MW07, and B760-MW08 were decommissioned in accordance with ADWR requirements.
- In November and December 2009, monitoring wells B760-MW14 through B760-MW18 were installed in order to clearly delineate the downgradient extent of COCs. The first sampling event at these five wells is planned for the first quarter of 2010; therefore, this Annual Groundwater Monitoring Report does not include results from wells B760-MW14 through B760-MW18.

1.1.3 Fluctuations in Groundwater Levels

Historically, groundwater levels in the vicinity of the former Williams AFB have fluctuated as groundwater demands and pumping have increased and decreased. Static groundwater elevations circa 1900 were reported to be approximately 80 ft below ground surface (bgs) near the site. By 1976, extensive water demand had reportedly resulted in substantial drawdown of the water table at the former Williams AFB (AeroVironment, January 1986; AeroVironment, December 1987). Water levels began to recover in 1978 following the regional decline (Hammett and Herther, 1992).

In 1997, following the initial groundwater monitoring well installation, the depth to groundwater at Site ST035 was measured at approximately 166 to 172 ft below top of casing (BTOC), or elevations between 1,162 and 1,166 ft mean sea level (MSL) (Camp Dresser McKee [CDM], July 1997). Site ST035 groundwater elevations increased by approximately 26 ft between

April 1997 and November 2009 (average of approximately 2.3 ft a year). As of November 2009, the static groundwater levels range from 137 to 144 ft BTOC.

The existing Site ST035 wells were constructed using 40 ft of well screen with approximately 30 ft of the screen above the water table in anticipation of rising water levels.

1.2 Objectives

The objectives of groundwater monitoring activities at ST035 are to:

- Measure and report groundwater elevations near ST035;
- Quantify and report benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), and 1,2-dibromoethane (EDB) concentrations in the groundwater near ST035; and
- Evaluate and discuss the current groundwater quality conditions with respect to COCs, historical trends of COC concentrations, and groundwater elevations.

On 24 September 2009, Mr. Abdellatif (Adam) Mohamed, ADEQ, requested that the AF include 1,2-dichloroethane (1,2-DCA) into its groundwater sampling program for ST035. The AF procured 2009 groundwater monitoring based on the approved Work Plan (URS, May 2009a), which only included analysis of BTEX, MTBE, and EDB. The EPA method, SW8260B, used to analyze concentrations of BTEX and MTBE also detects and quantifies 1,2-DCA. All compounds reported from the SW8260B analyses were validated and included in the Data Usability Summary (DUS) included in Appendix C. However, results are not shown on figures and are not discussed in length in this report. 1,2-DCA was added as a site COC starting in 2010; therefore, subsequent reports will include an analysis of 1,2-DCA, including isoconcentration figures and interpretation/discussion.

**Table 1-1. ST035 COCs and ADEQ UST Tier 1
Corrective Action Standards**

COC	ADEQ UST Tier 1 Corrective Action Standards (µg/L)
Benzene	5.0
Toluene	1,000
Ethylbenzene	700
Xylenes	10,000
MTBE	94 ^(a)
1,2-DCA	5.0
EDB	0.05

^(a) For methyl tertiary butyl ether (MTBE), Arizona Department of Environmental Quality (ADEQ) guidance provides for a corrective action standard, or Tier 1 remedial level, of 94 micrograms per liter (µg/L) when no drinking water well is affected (ADEQ, August 2002).

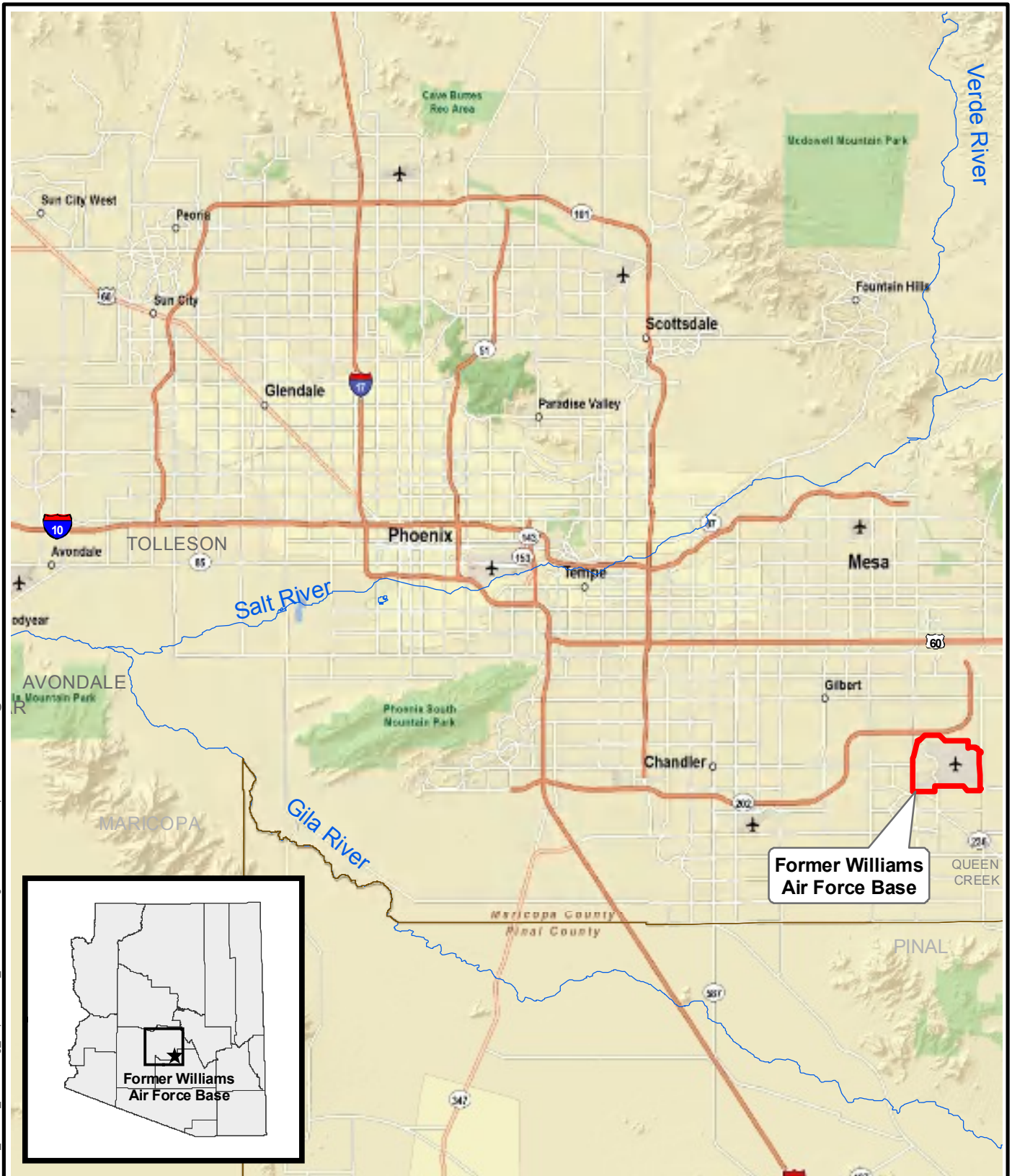
1,2-DCA - 1,2-Dichloroethane.

COC - Constituent of concern.

EDB - 1,2 Dibromoethane.

UST - Underground storage tank.

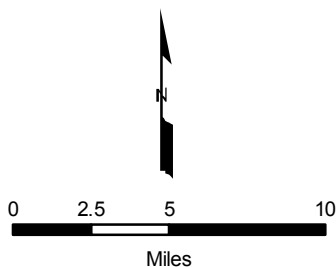
Q:\Williams_AFB\Drawings\CADD\ST035\2009_Annual_Monitoring_Report\2009_AnnualFinal\Fig 1-1_Location_Map.mxd 4/29/2010 @ 2:22:42 PM



**Former Williams
Air Force Base**

Map Legend

- State Highway
- U.S. Highway
- Interstate Highway
- Rivers
- Counties



**Location of Former
Williams Air Force Base**



Former Williams Air Force Base,
Mesa, Arizona

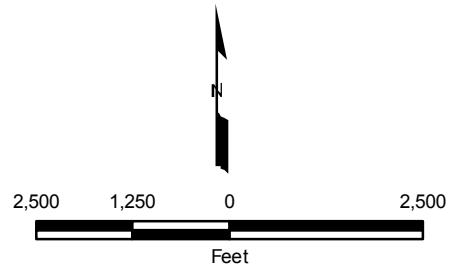
3/17/2010

Figure 1-1



Map Legend

-  Former Williams AFB Boundary
-  ST035 Site Location



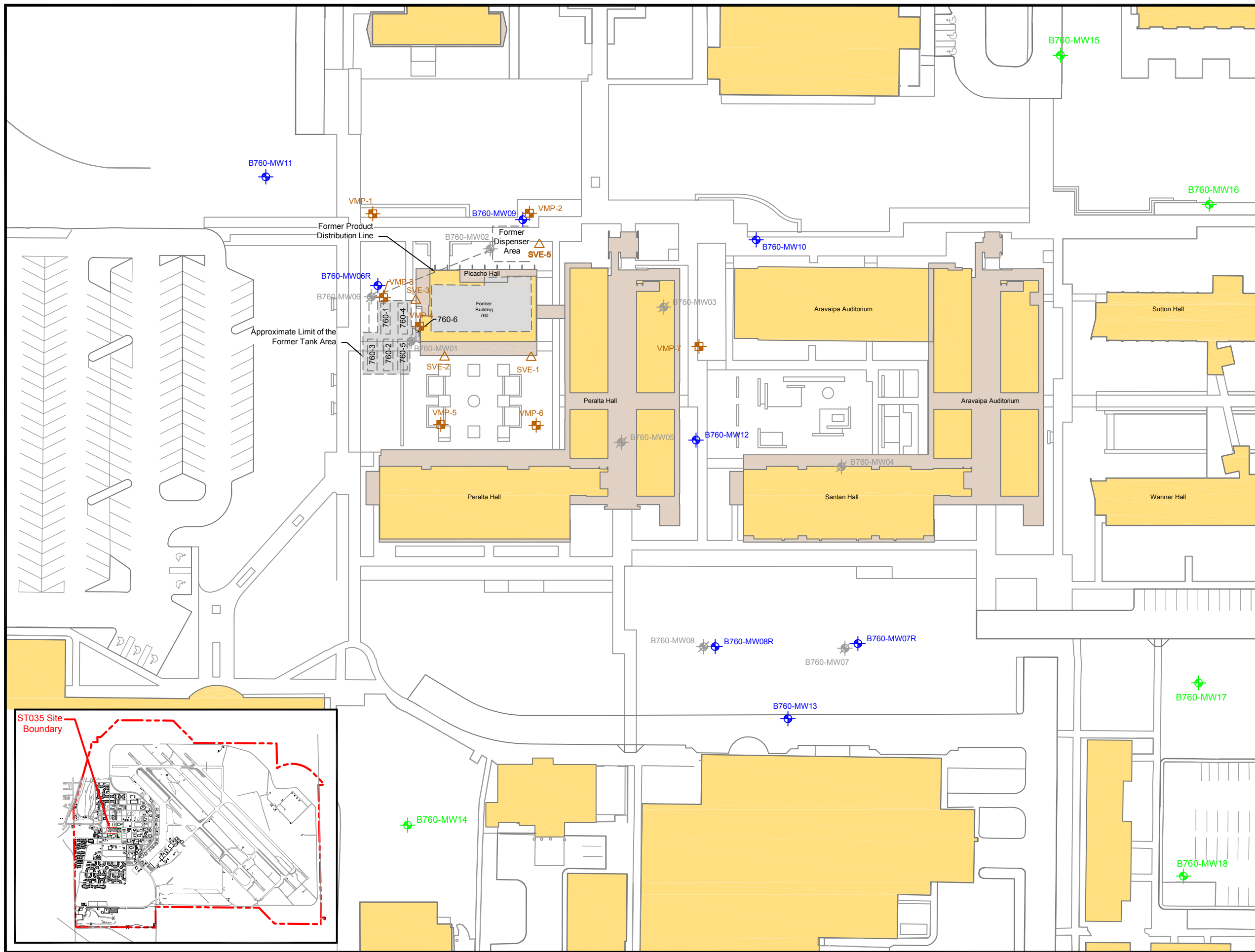
ST035
Site Location Map

Former Williams Air Force Base
Mesa, Arizona

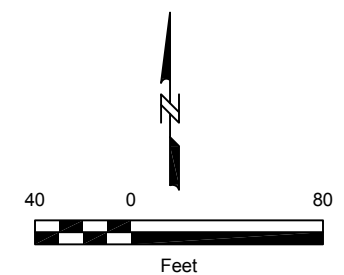
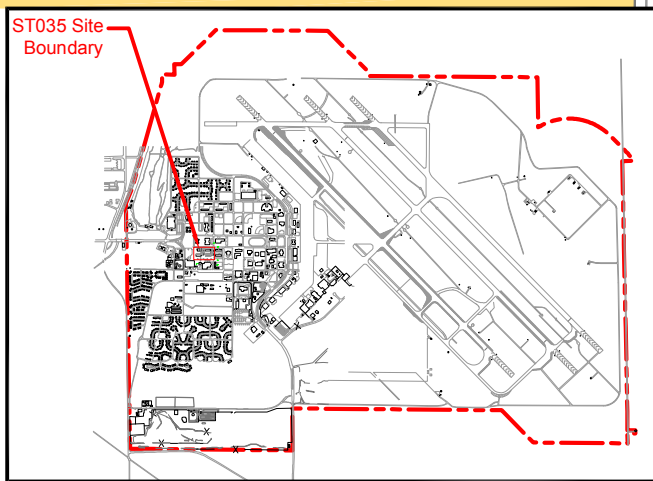
4/29/2010

Figure 1-2

File: Q:\Williams_AFB\Drawings\CA001\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_AGWMMR_01-10.dwg Layout: Fig 1-3 Plotted: Apr 29, 2010 - 2:41pm



- Legend**
- Building
 - Canopy/Covered Walkway
 - Location of Former Building 760 and Associated Structures
 - Monitoring Well Location
 - Abandoned Monitoring Well Location
 - Monitoring Well Location - Installed November/December 2009. Results Not Included in this Report.
 - Vertical Nested SVE Well Location
 - Vapor Monitoring Point Location



ST035
Monitoring Well
Location Map

Former Williams Air Force Base
Mesa, Arizona

ST035_AGWMMR_01-10.dwg Figure 1-3

2.0 GROUNDWATER SAMPLING ACTIVITIES

This section describes field activities conducted at ST035 during the May 2009, August 2009, and November/December 2009 field events:

- Measuring groundwater levels and inspecting monitoring well conditions;
- Purging monitoring wells;
- Groundwater sampling;
- Managing investigation-derived waste (IDW); and
- Implementing a field quality assurance (QA)/quality control (QC) plan.

Each activity is described in the following sections. Standard Operating Procedures (SOPs) referenced below are provided in the *BSAP* (URS, June 2009).

2.1 Groundwater Level Measurements and Well Inspection

ST035 groundwater levels were measured and wells inspected on 4 May 2009, 3 August 2009, and 10 November 2009 from eight wells (B760-MW06R through B760-MW08R and B760-MW09 through B760-MW13).

Figure 1-3 depicts the well locations. The groundwater levels were measured in accordance with SOP-006, *Static Water Level and Total Depth Measurement*. Water levels were gauged with an electronic water level indicator capable of measurements to 0.01 ft. Measurements were made relative to the top of the polyvinyl chloride (PVC) well casing. Multiple water level measurements were recorded from each well at a minimum of three minutes apart to confirm that enough time elapsed to allow for atmospheric pressure to equilibrate after the well cap was removed. Gauging was considered complete when three consecutive measurements differed by no more than 0.01 ft. The water level indicator was decontaminated by triple rinsing with Liqui-Nox[®] detergent, tap water, and lastly by distilled water before and after measuring each well. The water level survey forms are included in Appendix A.

Each monitoring well was inspected for obvious signs of deterioration and to ensure that each well was equipped with appropriate security equipment (lockable expansion cap and padlock).

2.2 Groundwater Purging

ST035 groundwater sampling was conducted from eight monitoring wells (B760-MW06R through B760-MW08R and B760-MW09 through B760-MW13) during the three field events on 6 and 7 May 2009, 4-6 August 2009, and 1-2 December 2009.

Prior to sampling, wells were purged using the low-flow (minimal drawdown) and total well volume methodologies per SOP-005, *Groundwater Purging and Sampling*. For low-flow purging methodology, SOP-005 states that the well is purged with a maximum allowable drawdown of 0.3 ft and a pumping rate between 0.1-1.0 liter per minute (L/min) until water

quality parameters (pH, specific conductivity, dissolved oxygen [DO], oxidation-reduction potential [ORP], and turbidity) have stabilized. For the total well volume purging methodology, the well is purged until a minimum of three well casing volumes have been removed and parameters have stabilized. During the August 2009 event, wells were purged using low-flow methodology, with the exception of one well, B760-MW07R, where the drawdown exceeded 0.3 ft. Drawdown at B760-MW07R was 0.55 ft when purging at a rate of 0.38 L/min; therefore, the total well volume purging methodology was used at B760-MW07R. Using the total well volume methodology, three well casing volumes were purged from the well and parameters were allowed to stabilize prior to collecting the groundwater sample. Groundwater purge forms are included in Appendix A.

None of the ST035 wells had screen lengths completely submerged during the three groundwater sampling events; therefore, the pump intake was placed 5 ft below the measured water level in accordance with the Work Plan (URS, May 2009a). Before purging activities began at each well, the sample pump, a Bennett stainless-steel submersible pump, was fully decontaminated using the methodology described in SOP-021, *Equipment Decontamination Procedures*.

Prior to sample collection, water quality parameters were measured until they stabilized. Stabilization is achieved when two consecutive readings show temperature is within ± 1 degree Celsius ($^{\circ}\text{C}$), pH values are within ± 0.1 pH unit, conductivity is within $\pm 5\%$, DO is within $\pm 10\%$, ORP is within ± 10 millivolts (mV), and turbidity is less than or equal to 15 nephelometric turbidity units (NTUs) or within $\pm 10\%$ if other conditions of purging have been met. Water quality measurements were made using a TROLL 9500 water quality meter with an optical DO sensor.

2.3 Groundwater Sampling

Groundwater samples were collected in accordance with SOP-005, *Groundwater Purging and Sampling*. Sample handling was performed in accordance with SOP-015, *Field Sample Management*; SOP-016, *Preserving Environmental Samples in the Field*; SOP-017, *Chain-of-Custody Form*; and SOP-018, *Packing and Shipping of Environmental Samples*.

Samples from all three events were analyzed for BTEX and MTBE by EPA Method SW8260B and for EDB by EPA Method SW8011 in accordance with the Work Plan (URS, May 2009a).

Samples were shipped overnight to Microbac Laboratories, Inc. (Microbac) in Marietta, Ohio under chain-of-custody. Microbac is an Arizona Department of Health Services (ADHS) certified laboratory.

2.4 IDW Management

All purged groundwater and decontamination water were treated as IDW and managed per SOP-020, *Investigation-Derived Waste*, and the ***Final Solid Waste Management Plan*** (URS, May 2009b). IDW was collected in the field and transferred to a 3,000-gallon (gal) poly tank located within the secured area northwest of the landfill in the southwest corner of the former Williams AFB. A representative sample was collected on 9 November 2009 from the IDW water stored in the tanks and analyzed for volatile organic compounds (VOCs), total petroleum hydrocarbon-diesel range organics (TPH-DRO), and total petroleum hydrocarbon-gasoline range

organics (TPH-GRO). All results were below Resource Conservation and Recovery Act (RCRA) toxicity characteristic maximum concentrations identified in 40 Code of Federal Regulations (CFR) 261.24. The liquid IDW was transported to a Liquid Environmental Solutions (LES) facility located in Phoenix, Arizona for disposal as non-hazardous waste on 20 November 2009 and 25 November 2009. The Generator Liquid Profile Sheet, third party signature authorization form, laboratory analytical report, and non-hazardous waste manifests are included in Appendix B.

All the water stored in the 3,000-gal poly tank from the November/December 2009 event will be properly characterized and disposed of later this year.

2.5 Field QA/QC Program

QA and QC checks for field and laboratory activities were used during the three ST035 groundwater sampling events per the **BSAP** (URS, June 2009). Results of calibration samples, blank samples, laboratory control samples (LCS), surrogates, internal standards (ISs), matrix spike (MS)/matrix spike duplicate (MSD) samples, and duplicates were compared to the acceptance criteria specified in the **BSAP**. The results indicate that the data are acceptable and usable for characterizing groundwater concentrations at ST035. Data Summary Reports, including results for the three ST035 2009 groundwater sampling events, are included in Appendix C.

2.6 Divergence from Work Plan

The work was performed in accordance with the Work Plan (URS, May 2009a) and the **BSAP** (URS, June 2009) with some noted deviations:

- Section 2.2.2 of the Work Plan (URS, May 2009a) states, “URS will purge each monitoring well using the low-flow (minimal drawdown) technique...” Because the drawdown allowance of 0.3 ft was exceeded at monitoring well B760-MW07R during the August 2009 event, the total well volume method was used in accordance with SOP-005, *Groundwater Purging and Sampling*.

There is no impact to the project. Although the Work Plan did specify low-flow (minimum drawdown) techniques, the well response during pumping required a three-volume total purge as discussed in SOP-005 of the **BSAP**. The field sampling team followed procedures exactly and sampled the well per project requirements.

- Section 3.3.3 of SOP-005, *Groundwater Purging and Sampling*, states that low-flow purging is complete only when “DO is within $\pm 10\%$.” DO was not stabilized to within $\pm 10\%$ at B760-MW10 during the December event because DO was measured below 1 milligram per liter (mg/L). The impact to the project is minimal. All other parameters were stabilized in accordance with SOP-005, *Groundwater Purging and Sampling*, at the time the sample was collected.

Table 2-1. ST035 Monitoring Wells

Well ID	ADWR ID No.	TOC Elevation ^(a) (ft MSL)	Survey Date	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
B760-MW06R	55-909340	1333.00	November 2008	119	159
B760-MW07R	55-909341	1333.43	August 2008	116	156
B760-MW08R	55-909342	1333.17	December 2008	117	157
B760-MW09	55-908693	1333.09	June 2008	115	155
B760-MW10	55-908333	1333.80	August 2008	115	155
B760-MW11	55-908334	1328.92	June 2008	115	155
B760-MW12	55-908335	1333.87	June 2008	116.5	156.5
B760-MW13	55-908336	1334.24	June 2008	115	155

Note: All existing wells are four inches in diameter and have flush-mount surface completions.

^(a) North American Vertical Datum (NAVD) 88.

ADWR - Arizona Department of Water Resources.

bgs - Below ground surface.

ft - Feet.

ID - Identification.

MSL - Mean sea level.

No. - Number.

TOC - Top of casing.

3.0 RESULTS

The following sections describe field observations and analytical results from the 2009 sampling events at ST035.

3.1 Well Gauging Results

Well gauging results for the three events are provided in Table 3-1, and historical groundwater elevation data are provided in Table 3-2. The water level survey field forms are included in Appendix A. The well gauging results from the three field events indicate the following:

- May 2009 groundwater levels at ST035 ranged from 138.29 to 145.15 ft BTOC at elevations between 1,188.58 and 1,190.63 ft MSL. Measured groundwater elevations were 24 to 30 ft below the top of the screened intervals at ST035. Based on the May 2009 measured groundwater elevations, the groundwater is flowing in an easterly direction at a gradient of 0.003 (Figure 3-1a).
- August 2009 groundwater levels at ST035 ranged from 138.05 to 144.78 ft BTOC at elevations between 1,188.93 and 1,190.87 ft MSL. Of the wells that were gauged, measured groundwater elevations were 24 to 30 ft below the top of the screened intervals at ST035. Based on the August 2009 measured groundwater elevations, the groundwater is flowing in a southeasterly direction at a gradient of 0.003 (Figure 3-1b).
- November 2009 groundwater levels at ST035 ranged from 137.25 to 143.95 ft BTOC at elevations between 1,189.71 and 1,191.67 ft MSL. Measured groundwater elevations were 23 to 29 ft below the top of the screened intervals at ST035. Based on the November 2009 measured groundwater elevations, the groundwater is flowing in a southeasterly direction at a gradient of 0.003 (Figure 3-1c).

Groundwater elevations rose an average of 1.7 ft since January 2009, making the cumulative groundwater rise at ST035 26 ft since April 1997, or an average of 2 ft per year. The groundwater flow direction fluctuated from east to southeast during the three field events. The potentiometric data are consistent with the regional rise in groundwater elevations discussed in Section 1.1.3. Seasonal variations have not been observed at the site.

During well gauging and/or sampling activities, a hydrocarbon odor was observed at B760-MW06R and B760-MW12 (May 2009), B760-MW12 (August 2009), and B760-MW06R and B760-MW09 (December 2009).

3.2 Well Inspection

The overall condition of monitoring wells at ST035 is good. URS did not observe any well damage during inspections.

3.3 Analytical Results

Analytical results for BTEX, MTBE, and EDB from the May 2009, August 2009, and November/December 2009 events are presented in Table 3-3 and are summarized below. Table 3-4 shows historical BTEX, EDB, and MTBE results. BTEX, MTBE, and EDB concentrations are presented on Figure 3-3a (May 2009), Figure 3-3b (August 2009), and Figure 3-3c (December 2009).

- Benzene was detected above the ADEQ UST Tier 1 Corrective Action Standard (5 micrograms per liter [$\mu\text{g/L}$]) in three of the eight monitoring wells (B760-MW06R, B760-MW09, and B760-MW10) during each of the three sampling rounds. Additionally, benzene was detected above the ADEQ UST Tier 1 Corrective Action Standard during the May and December 2009 sampling rounds from B760-MW11, the May 2009 sampling round from B760-MW12, and the August and December 2009 sampling rounds from B760-MW13. The maximum benzene result was from August 2009 (283 $\mu\text{g/L}$ at B760-MW06R). The interpreted extent of contamination is shown on Figure 3-4.
- Toluene was not detected above the ADEQ UST Tier 1 Corrective Action Standard of 1,000 $\mu\text{g/L}$. The highest concentration of toluene (24.8 $\mu\text{g/L}$) was from B760-MW09 during the December 2009 event. The interpreted extent of contamination is shown on Figure 3-5.
- Ethylbenzene was not detected above the ADEQ UST Tier 1 Corrective Action Standard of 700 $\mu\text{g/L}$. The highest concentration of ethylbenzene (141 $\mu\text{g/L}$) was from B760-MW12 during the May 2009 event. The interpreted extent of contamination is shown on Figure 3-6.
- Total xylenes were not detected above the ADEQ UST Tier 1 Corrective Action Standard of 10,000 $\mu\text{g/L}$. The highest concentration of total xylenes (101 $\mu\text{g/L}$) was from B760-MW09 during the May 2009 event. The interpreted extent of contamination is shown on Figure 3-7.
- MTBE was detected above the ADEQ UST Tier 1 Corrective Action Standard of 94 $\mu\text{g/L}$ during the May 2009 sampling round from B760-MW07R and during the May and August 2009 sampling rounds from B760-MW12. The maximum MTBE result (201 $\mu\text{g/L}$) was from B760-MW12 during the May 2009 event. The interpreted extent of contamination is shown on Figure 3-8.
- EDB was detected above the ADEQ UST Tier 1 Corrective Action Standard (0.05 $\mu\text{g/L}$) in one of the eight monitoring wells (B760-MW09) during each of the three sampling rounds. Additionally, EDB was detected above the ADEQ UST Tier 1 Corrective Action Standard during the December 2009 sampling round at B760-MW10. The maximum EDB concentration (0.345 $\mu\text{g/L}$) was from B760-MW09 during the May 2009 round. The interpreted extent of contamination is shown on Figure 3-9.

The historical plots (Figures 3-10 through 3-15) of the ST035 COCs show the changes in lateral extent and migration of the dissolved petroleum hydrocarbon plume over the time period 2000-2009 (BTEX) and 2005-2009 (MTBE and EDB). In 2000, the size of the benzene plume above 1,000 µg/L was less than 0.10 acre (including only B760-MW02), located at the former dispensers. By 2006, benzene concentrations above 1,000 µg/L were limited to wells downgradient of B760-MW02 and the lateral extent of the plume greater than 1,000 µg/L was 0.8 acres. Similarly, the edge of the plume had also migrated further downgradient. By 2006, toluene, total xylenes, MTBE, and EDB were detected above ADEQ Tier 1 Corrective Action Standards.

The May, August, and December 2009 sampling rounds show a contraction of the benzene plume to below 1,000 µg/L, with the area of highest benzene concentration centered over the former dispensers (original location of gasoline release). In December 2009, only benzene and EDB were detected above ADEQ Tier 1 Corrective Action Standards. Benzene was detected below the ADEQ Tier 1 Corrective Action Standard during both the August and December 2009 sampling rounds in B760-MW12, which had exhibited the highest concentration in January 2009 (4,320 µg/L). Benzene was also detected above the ADEQ Tier 1 Corrective Action Standard in upgradient well B760-MW11 in May and December 2009, which suggests that the process of diffusion, or the tendency of dissolved constituents to move from areas of higher concentrations to lower concentrations, may be occurring at the site.

Other organic compounds were detected in groundwater samples, as shown on the complete data tables presented in Appendix C. The majority of compounds are fuel-related compounds, with the exception of tetrachloroethene (PCE) and trichloroethene (TCE), which were detected in December 2009 in two wells (both below maximum contaminant levels [MCLs]). The fuel degradation products, 1,2,4-trimethylbenzene (maximum of 36.8 µg/L at B760-MW09) and 1,3,5-trimethylbenzene (maximum of 21.7 µg/L at B760-MW10) were reported above the ADEQ Tier 1 Corrective Action Standards (12 µg/L) during the May 2009 sampling round. Also, tert butyl alcohol (TBA), the most readily measurable degradation product of MTBE, was detected in several wells, particularly in B760-MW07R and B760-MW12, where MTBE concentrations are highest.

As discussed in Section 1.2, ADEQ requested the addition of 1,2-DCA into the ST035 groundwater sampling program in September 2009. However, the 2009 groundwater monitoring program was procured based on the approved Work Plan (URS, May 2009a); therefore, 1,2-DCA results are included in Table 3-3 but are not shown on figures or discussed in length in this report. The 2010 Annual Groundwater Monitoring Report will include isoconcentration figures and interpretation of 1,2-DCA results.

Table 3-1. ST035 2009 Gauging Results

Well ID	TOC Elevation (ft MSL) ^(a)	Ground Surface (ft MSL) ^(a)	Survey Date	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Screen Length (ft)	Screen Diameter (inches)	Date Measured	Depth to Water (ft BTOC)	Water Elevation (ft MSL)
B760-MW06R	1333.00	1333.60	Nov 2008	119	159	40	4	4 May 2009	142.72	1190.28
								3 Aug 2009	142.53	1190.47
								10 Nov 2009	141.75	1191.25
B760-MW07R	1333.43	1333.67	Aug 2008	116	156	40	4	4 May 2009	144.85	1188.58
								3 Aug 2009	144.50	1188.93
								10 Nov 2009	143.72	1189.71
B760-MW08R	1333.17	1333.18	Dec 2008	117	157	40	4	4 May 2009	143.86	1189.31
								3 Aug 2009	143.57	1189.60
								10 Nov 2009	142.77	1190.40
B760-MW09	1333.09	1333.63	Jun 2008	115	155	40	4	4 May 2009	142.97	1190.12
								3 Aug 2009	142.75	1190.34
								10 Nov 2009	142.00	1191.09
B760-MW10	1333.80	1334.05	Aug 2008	115	155	40	4	4 May 2009	144.39	1189.41
								3 Aug 2009	144.07	1189.73
								10 Nov 2009	143.30	1190.50
B760-MW11	1328.92	1329.41	Jun 2008	115	155	40	4	4 May 2009	138.29	1190.63
								3 Aug 2009	138.05	1190.87
								10 Nov 2009	137.25	1191.67
B760-MW12	1333.87	1334.13	Jun 2008	116.5	156.5	40	4	4 May 2009	144.35	1189.52
								3 Aug 2009	144.05	1189.82
								10 Nov 2009	143.27	1190.60
B760-MW13	1334.24	1334.50	Jun 2008	115	155	40	4	4 May 2008	145.15	1189.09
								3 Aug 2009	144.78	1189.46
								10 Nov 2009	143.95	1190.29

^(a) North American Vertical Datum (NAVD) 88.
 bgs - Below ground surface.
 BTOC - Below top of casing.
 ft - Feet.
 ID - Identification.
 MSL - Mean sea level.
 TOC - Top of casing.

Table 3-2. ST035 Historical Groundwater Elevations

Well ID	Date	Depth to Water (ft BTOC)	Screen Interval (ft bgs)	Water Elevation ^(a) (ft MSL)
B760-MW01	Apr-97	167.00	134.6 - 175.5	1165.60
	Jul-97	166.58		1166.02
	Oct-97	168.85		1163.75
	Jan-98	164.81		1167.79
	Sep-99	160.87		1171.73
	Mar-00	159.16		1173.44
	Mar-01	156.70		1175.90
	Mar-02	154.26		1178.34
	Mar-03	152.84		1179.76
	Aug-03	153.04		1179.56
	Sep-04	151.32		1181.28
	Apr-05	149.14		1183.46
	Jul-06	145.97		1186.63
	Apr-07	Decommissioned		Decommissioned
B760-MW02	Apr-97	167.25	137.1 - 177.2	1165.50
	Jul-97	166.79		1165.96
	Oct-97	169.09		1163.66
	Jan-98	165.05		1167.70
	Sep-99	161.28		1171.47
	Mar-00	159.43		1173.32
	Mar-01	157.16		1175.59
	Mar-02	154.76		1177.99
	Mar-03	153.34		1179.41
	Aug-03	153.58		1179.17
	Sep-04	151.77		1180.98
	Apr-05	149.75		1183.00
	Jul-06	145.94		1186.81
	Apr-07	Decommissioned		Decommissioned
B760-MW03	Apr-97	168.95	138.1 - 178.2	1164.40
	Jul-97	168.45		1164.90
	Oct-97	168.34		1165.01
	Jan-98	166.93		1166.42
	Sep-99	162.88		1170.47
	Mar-00	161.04		1172.31
	Mar-01	158.77		1174.58
	Mar-02	156.22		1177.13
	Mar-03	154.76		1178.59
	Aug-03	154.96		1178.39
	Sep-04	153.23		1180.12
	Apr-05	151.08		1182.27
	Jul-06	147.23		1186.12
	Apr-07	Decommissioned		Decommissioned

**Table 3-2. ST035 Historical Groundwater Elevations
(Continued)**

Well ID	Date	Depth to Water (ft BTOC)	Screen Interval (ft bgs)	Water Elevation ^(a) (ft MSL)
B760-MW04	Apr-97	171.58	134.6 - 174.9	1162.91
	Jul-97	170.81		1163.68
	Oct-97	170.51		1163.98
	Jan-98	169.67		1164.82
	Sep-99	164.87		1169.62
	Mar-00	163.11		1171.38
	Mar-01	160.85		1173.64
	Mar-02	158.18		1176.31
	Mar-03	156.49		1178.00
	Aug-03	156.63		1177.86
	Sep-04	154.81		1179.68
	Apr-05	152.91		1181.58
	Jul-06	149.58		1184.91
	Apr-07	Decommissioned		Decommissioned
B760-MW05	Apr-97	169.72	137.1 - 177.2	1164.13
	Jul-97	169.08		1164.77
	Oct-97	171.29		1162.56
	Jan-98	167.50		1166.35
	Sep-99	163.28		1170.57
	Mar-00	161.50		1172.35
	Mar-01	159.04		1174.81
	Mar-02	156.46		1177.39
	Mar-03	154.91		1178.94
	Aug-03	155.09		1178.76
	Sep-04	153.21		1180.64
	Apr-05	151.51		1182.34
	Jul-06	147.50		1186.35
	Apr-07	Decommissioned		Decommissioned
B760-MW06	Apr-97	165.81	137.1 - 177.2	1166.41
	Jul-97	165.49		1166.73
	Oct-97	167.78		1164.44
	Jan-98	163.75		1168.47
	Sep-99	159.97		1172.25
	Mar-00	158.11		1174.11
	Mar-01	155.78		1176.44
	Mar-02	153.35		1178.87
	Mar-03	152.02		1180.20
	Aug-03	152.20		1180.02
	Sep-04	150.63		1181.59
	Apr-05	148.72		1183.50
	Jul-06	145.81		1186.41
	Nov-08	Decommissioned		Decommissioned
B760-MW06R	Oct-08	143.72	119 - 159	1189.28
	Jan-09	143.43		1189.57
	May-09	142.72		1190.28
	Aug-09	142.53		1190.47
	Nov-09	141.75		1191.25

**Table 3-2. ST035 Historical Groundwater Elevations
(Continued)**

Well ID	Date	Depth to Water (ft BTOC)	Screen Interval (ft bgs)	Water Elevation ^(a) (ft MSL)
B760-MW07	Apr-97	172.22	141.2 - 180.2	1161.96
	Jul-97	171.46		1162.72
	Oct-97	173.77		1160.41
	Jan-98	170.17		1164.01
	Sep-99	165.43		1168.75
	Mar-00	163.32		1170.86
	Mar-01	160.99		1173.19
	Mar-02	159.28		1174.90
	Mar-03	156.60		1177.58
	Aug-03	156.72		1177.46
	Sep-04	154.81		1179.37
	Apr-05	152.90		1181.28
	Jul-06	150.27		1183.91
	Nov-08	Decommissioned		Decommissioned
B760-MW07R	Oct-08	145.66	116 - 156	1187.77
	Jan-09	145.41		1188.02
	May-09	144.85		1188.58
	Aug-09	144.50		1188.93
	Nov-09	143.72		1189.71
B760-MW08	Apr-97	171.84	141.2 - 180.2	1162.51
	Jul-97	171.18		1163.17
	Oct-97	170.37		1163.98
	Jan-98	169.76		1164.59
	Sep-99	164.46		1169.89
	Mar-00	162.55		1171.8
	Mar-01	160.04		1174.31
	Mar-02	157.29		1177.06
	Mar-03	155.62		1178.73
	Aug-03	155.77		1178.58
	Sep-04	153.90		1180.45
	Apr-05	151.91		1182.44
	Jul-06	149.38		1184.97
	Jul-08	NM		NA
	Oct-08	146.02		1187.21
Nov-08	Decommissioned	Decommissioned		
B760-MW08R	Jan-09	144.51	117 - 157	1188.66
	May-09	143.86		1189.31
	Aug-09	143.57		1189.60
	Nov-09	142.77		1190.40
B760-MW09	Jul-08	143.91	115 - 155	1189.18
	Oct-08	143.70		1189.39
	Jan-09	143.64		1189.45
	May-09	142.97		1190.12
	Aug-09	142.75		1190.34
	Nov-09	142.00		1191.09

**Table 3-2. ST035 Historical Groundwater Elevations
(Continued)**

Well ID	Date	Depth to Water (ft BTOC)	Screen Interval (ft bgs)	Water Elevation ^(a) (ft MSL)
B760-MW10	Jul-08	145.14	115 - 155	1188.66
	Oct-08	144.96		1188.84
	Jan-09	144.95		1188.85
	May-09	144.39		1189.41
	Aug-09	144.07		1189.73
	Nov-09	143.30		1190.50
B760-MW11	Jul-08	139.30	115 - 155	1189.62
	Oct-08	139.07		1189.85
	Jan-09	138.96		1189.96
	May-09	138.29		1190.63
	Aug-09	138.05		1190.87
	Nov-09	137.25		1191.67
B760-MW12	Jul-08	145.32	116.5 - 156.5	1188.55
	Oct-08	145.22		1188.65
	Jan-09	144.83		1189.04
	May-09	144.35		1189.52
	Aug-09	144.05		1189.82
	Nov-09	143.27		1190.60
B760-MW13	Jul-08	146.47	115 - 155	1187.77
	Oct-08	146.19		1188.05
	Jan-09	145.73		1188.51
	May-09	145.15		1189.09
	Aug-09	144.78		1189.46
	Nov-09	143.95		1190.29

^(a) North American Vertical Datum (NAVD) 88 used beginning in 2008.

bgs - Below ground surface.

BTOC - Below top of casing.

ft - Feet.

ID - Identification.

MSL - Mean sea level.

NA - Not available.

NM - Not measured.

Table 3-3. ST035 2009 Analytical Results

Well ID	Date	Sample Depth (ft BTOC)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	MTBE (µg/L)	1,2-DCA (µg/L)							
ADEQ UST Tier 1 Corrective Action Standards^(a)			5	1,000	700	10,000	0.05	94	5							
B760-MW06R	May-09	148	94.1	1.09	0.598	F	20.3	(0.00680)	U	2.92	FJH	<0.250	U			
	Aug-09	147	283	0.822	F	3.19	10.6	(0.00706)	U	(0.500)	U	9.37				
	Dec-09	147	25.7	1.00		2.17	7.24	(0.00698)	UML	(0.500)	U	3.23				
B760-MW07R	May-09	150	1.51	0.512	F	(0.250)	U	0.768	F	(0.00687)	U	160	MH	66.6	MH	
	Aug-09	149	1.34	(0.250)	U	(0.250)	U	0.648	F	(0.00651)	U	84.7		48.5		
	Dec-09	149	0.402	(0.250)	U	(0.250)	U	(0.500)	U	(0.00700)	UML	41.9		30.5		
B760-MW08R	May-09	149	0.367	F	0.505	F	(0.250)	U	0.583	F	(0.00701)	U	12.4	MH	20.3	MH
	Aug-09	148	0.355	F	(0.250)	U	(0.250)	U	(0.500)	U	(0.00659)	U	3.61	F	9.00	
	Dec-09	148	2.08	0.808	F	2.65		3.73		(0.00693)	UML	1.58	F	4.45		
B760-MW09	May-09	148	169	11.9		4.30		101		0.345		22.7	MH	16.5	MH	
	Aug-09	148	37.4	3.39		0.299	F	18.5		0.148	MH	12.8		8.20		
	Dec-09	147	199	24.8		2.12		84.8		0.324	ML	35.6		28.4		
B760-MW10	May-09	149	37.2	0.837	F	(0.250)	U	40.1		0.0458		22.2	MH	13.7	MH	
	Aug-09	149	23.0	0.333	F	(0.250)	U	1.86	F	0.0488	MH	15.0		10.4		
	Dec-09	148	14.2	1.41		1.17		7.96		0.0762	ML	10.9		9.87		
B760-MW11	May-09	143	5.17	1.03		(0.250)	U	2.67		(0.00688)	U	(0.500)	U	<0.250	U	
	Aug-09	143	4.30	0.681	F	(0.250)	U	(0.500)	U	(0.00680)	U	(0.500)	U	<0.250	U	
	Dec-09	142	11.4	1.85		2.87		4.92		(0.00683)	UML	(0.500)	U	<0.250	U	
B760-MW12	May-09	149	8.38	1.87		141		2.07	F	(0.00677)	U	201	MH	158	MH	
	Aug-09	149	4.78	0.542	F	23.2		0.713	F	(0.00665)	U	175		103		
	Dec-09	148	1.28	0.314	F	(0.250)	U	(0.500)	U	(0.00711)	UML	78.9		65.6		
B760-MW13	May-09	150	2.01	0.389	F	(0.250)	U	0.581	F	(0.00695)	U	(0.500)	U	<0.250	U	
	Aug-09	150	5.73	(0.250)	U	(0.250)	U	(0.500)	U	(0.00675)	U	(0.500)	U	<0.250	U	
	Dec-09	149	8.75	(0.250)	U	(0.250)	U	(0.500)	U	(0.00697)	UML	(0.500)	U	<0.250	U	

^(a) When available, Arizona Department of Environmental Quality (ADEQ) Underground Storage Tank (UST) Tier 1 Corrective Action Standards are used. For methyl tertiary butyl ether (MTBE), ADEQ guidance provides for a corrective action standard of 94 micrograms per liter (µg/L) when no drinking water well is affected (ADEQ, August 2002).

Bold and **shaded** cells indicate a result in excess of the cleanup standard.
µg/L - Micrograms per liter.

1,2-DCA - 1,2-Dichloroethane.

BTOC - Below top of casing.

EDB - 1-2-Dibromoethane.

F - The analyte was positively identified, but the associated numerical value is below the reporting limit (RL). The quantitation is an estimate.

ft - Feet.

H - Biased high.

ID - Identification.

J - The analyte was positively identified; the quantitation is an estimation.

L - Biased low.

M - Matrix effect: The concentration is estimated due to a matrix effect.

MTBE - Methyl tertiary butyl ether.

NA - Not analyzed.

U - The analyte was analyzed for, but was not detected at the corresponding quantitation limit (in parenthesis).

Table 3-4. ST035 Historical Analytical Results

Well ID	Date	Sample Depth (ft BTOC)	Benzene (µg/L)		Toluene (µg/L)		Ethylbenzene (µg/L)		Total Xylenes (µg/L)		EDB (µg/L)		MTBE (µg/L)	
ADEQ UST Tier 1 Corrective Action Standards ^(a)			5		1,000		700		10,000		0.05		94	
B760-MW01	Apr-97	NA	200		97		(4.9)	U	172	JX	NA		NA	
	Sep-99	NA	164	D	1.7		4.8		7.5		NA		NA	
	Mar-00	NA	259	M	2.5		14.5	B	2.91	F	NA		NA	
	Mar-01	NA	56.4	B	(0.11)	U	4.2	B	(0.26)	U	NA		NA	
	Mar-01	DUP	65.6	B	(0.11)	U	4.4		1.26	B	NA		NA	
	Mar-02	NA	2.9	M	0.26	F	0.69		(0.39)	U	NA		NA	
	Sep-04	151	1.5		1		2.2		3		NA		NA	
	Apr-05	154	270		(1.0)	U	3.3		99		(1.0)	U	5.6	
B760-MW02	Jul-06	151	110	J	0.71	FJ	7.5	J	121.3	J	(0.00280)	U	(0.180)	U
	Apr-97	NA	450	J	1,400	J	210	J	1350	JX	NA		NA	
	Sep-99	NA	1,130	D	1,390	D	270	D	827	D	NA		NA	
	Mar-00	NA	1,080	BJ	1,120	BJ	204	B	621	B	NA		NA	
	Mar-01	NA	428	B	282	B	103	B	319	B	NA		NA	
	Mar-02	NA	888	M	590		169		487		NA		NA	
	Sep-03	159	295		261		49.1		2,956		NA		NA	
	Sep-04	157	720	D	640	D	77	D	3,100	D	NA		NA	
B760-MW03	Apr-05	154	3,300		1,800		380		7,800		100		2,800	
	Jul-06	151	700		370		110		13,300		11.0		240	
	Apr-97	NA	62		41		(1.3)	U	(5.2)	UX	NA		NA	
	Sep-99	NA	25.5	D	18.9		0.9	FJ	30.8		NA		NA	
	Mar-00	NA	2	M	0.84	F	0.22	FJ	0.79	F	NA		NA	
	Mar-01	NA	5.6	B	0.57	BF	0.12	BF	2.15	BF	NA		NA	
	Mar-02	NA	1.9	M	0.24	F	(0.13)	U	2	F	NA		NA	
	Sep-03	160	13		1.3		0.65		2.6		NA		NA	
B760-MW04	Sep-04	159	570		430		40	DF	1,160		NA		NA	
	Apr-05	156	2,900		1,900		120		5,500		140	H	9,900	
	Jul-06	152	1,800		2,200		420		11,900		22.0		370	
	Apr-97	NA	(1.0)	UJ	(1.0)	UJ	1.0	J	(2.0)	UJ	NA		NA	
	Sep-99	NA	4.4		1.6		0.2	FJ	2.3		NA		NA	
	Mar-00	NA	1.7		1.7		0.3	FJ	(0.64)	UF	NA		NA	
	Mar-01	NA	7.1	B	3.2	B	0.68	B	162.2	B	NA		NA	
	Mar-02	NA	1.4		0.22	F	(0.13)	U	(0.32)	U	NA		NA	
B760-MW04	Sep-04	160	3.3	B	0.54	F	(1.0)	U	3.1	F	NA		NA	
	Apr-05	158	5.5		(1.0)	U	(1.0)	U	(3.0)	U	(1.0)	U	(1.0)	U
	Jul-06	155	890		8.6	F	410		320		(0.00280)	U	2,800	

Table 3-4. ST035 Historical Analytical Results (Continued)

Well ID	Date	Sample Depth (ft BTOC)	Benzene (µg/L)		Toluene (µg/L)		Ethylbenzene (µg/L)		Total Xylenes (µg/L)		EDB (µg/L)		MTBE (µg/L)	
ADEQ UST Tier 1 Corrective Action Standards ^(a)			5		1,000		700		10,000		0.05		94	
B760-MW05	Apr-97	NA	2,200	J	12,000	J	2,500	J	12,000	JX	NA		NA	
	Sep-99	NA	99.7		5	BJ	15.2		7.5	JX	NA		NA	
	Mar-00	NA	125	M	9.9		20		12.51	F	NA		NA	
	Mar-01	NA	133	B	2.9	B	11.8	B	9.26	BF	NA		NA	
	Mar-02	NA	98.1	M	1.7	F	3.5		3.5	F	NA		NA	
	Sep-03	160	62.7	M	0.7	F	2.9		1.8	F	NA		NA	
	Sep-04	159	65	BD	0.95	F	3.5	DF	5.4	DF	NA		NA	
	Apr-05	156	760		(2.0)	U	33		73		(2.0)	U	4.3	
	Jul-06	151	1,400		(0.340)	U	540		1	F	(0.00280)	U	(0.880)	U
Jul-06	DUP	1,300		0.91	F	530		(0.520)	U	(0.00280)	U	(0.880)	U	
B760-MW06	Apr-97	NA	1,400		(84)	U	(6.7)	U	(38)	UX	NA		NA	
	Sep-99	NA	134		0.39	BF	9.2	F	2.1		NA		NA	
	Mar-00	NA	77		(0.13)	U	(0.12)	U	(0.36)	FU	NA		NA	
	Mar-01	NA	15.8	B	0.48	BF	(0.12)	U	4.82	BF	NA		NA	
	Mar-02	NA	31.8	M	0.19	F	(0.13)	U	1.44	F	NA		NA	
	Sep-03	158	8.9	M	(0.07)	U	3.8		(0.71)	U	NA		NA	
	Sep-04	156	160	BD	0.7	F	61	J	23.8	DF	NA		NA	
	Apr-05	154	170		(1.0)	U	63	J	20		(1.0)	U	18	
	Jul-06	151	140		1.3		1		57.6		(0.00280)	U	2.50	F
Jul-08	148	80.6		0.484	F	0.264	F	22.0	F	(0.00705)	U	1.34	F	
B760-MW06R	Oct-08	149	524		1.46		1.94		142		(0.00709)	U	1.93	F
	Jan-09	149	186		1.37		1.47		45.6		(0.00766)	U	(0.500)	U
	May-09	148	94.1		1.09		0.598	F	20.3		(0.00680)	U	2.92	FJH
	Aug-09	147	283		0.822	F	3.19		10.6		(0.00706)	U	(0.500)	U
	Dec-09	147	25.7		1.00		2.17		7.24		(0.00698)	UML	(0.500)	U
B760-MW07	Apr-97	NA	(1.0)	U	(1.0)	U	(1.0)	U	(2.0)	U	NA		NA	
	Sep-99	NA	2.2		0.5	FJ	(1.0)	U	(2.0)	U	NA		NA	
	Mar-00	NA	1.9		(0.15)	U	(0.12)	U	(0.35)	U	NA		NA	
	Mar-01	NA	0.29	BF	(0.11)	U	(0.12)	U	(0.36)	U	NA		NA	
	Mar-02	NA	(0.12)	U	(0.14)	U	(0.13)	U	(0.32)	U	NA		NA	
	Sep-04	160	(0.4)	U	(1.0)	U	(1.0)	U	(3.0)	U	NA		NA	
	Apr-05	158	(1.0)	U	(1.0)	U	(1.0)	U	(3.0)	U	(1.0)	U	(1.0)	U
	Jul-06	155	(0.130)	U	(0.0680)	U	(0.130)	U	(0.100)	U	(0.00280)	U	(0.180)	U
Jul-08	151	4.62		1.28	F	(0.500)	U	5.51		(0.00734)	U	281		

Table 3-4. ST035 Historical Analytical Results (Continued)

Well ID	Date	Sample Depth (ft BTOC)	Benzene (µg/L)		Toluene (µg/L)		Ethylbenzene (µg/L)		Total Xylenes (µg/L)		EDB (µg/L)		MTBE (µg/L)	
ADEQ UST Tier 1 Corrective Action Standards ^(a)			5		1,000		700		10,000		0.05		94	
B760-MW07R	Oct-08	151	(0.250)	UJL	0.951	JL	(0.500)	UJL	2.74	JL	(0.00724)	U	492	JL
	Jan-09	150	8.73		1.21		(0.250)	U	5.19		(0.00678)	U	205	MH
	May-09	150	1.51		0.512	F	(0.250)	U	0.768	F	(0.00687)	U	160	MH
	Aug-09	149	1.34		(0.250)	U	(0.250)	U	0.648	F	(0.00651)	U	84.7	
	Dec-09	149	0.402		(0.250)	U	(0.250)	U	(0.500)	U	(0.00700)	UML	41.9	
B760-MW08	Apr-97	NA	(1.0)	U	(1.0)	U	(1.0)	U	(2.0)	U	NA		NA	
	Sep-99	NA	0.5	FJ	(1.0)	U	(1.0)	U	(1.11)	U	NA		NA	
	Mar-00	NA	0.36	F	(0.13)	U	(1.0)	U	(0.35)	U	NA		NA	
	Mar-01	NA	(0.08)	U	(0.1)	U	(0.08)	U	(0.75)	U	NA		NA	
	Mar-02	NA	(0.12)	U	(0.14)	U	(0.13)	U	(0.43)	U	NA		NA	
	Sep-04	159	0.4		1		(1.0)	U	(3.0)	U	NA		NA	
	Apr-05	157	(1.0)	U	(1.0)	U	(1.0)	U	(3.0)	U	(1.0)	U	(1.0)	U
	Jul-06	154	10		0.2	F	9.2		3.43	F	(0.00280)	U	(0.180)	U
	Jul-08	151	0.372	F	0.285	F	(0.250)	U	(0.500)	U	(0.00695)	U	21.8	
Oct-08	151	0.285	F	(0.250)	UJ	(0.250)	UJ	(0.500)	UJ	(0.00708)	U	23.4		
B760-MW08R	Jan-09	150	(0.125)	U	(0.250)	U	(0.250)	U	(0.500)	U	(0.00698)	U	(0.500)	U
	May-09	149	0.367	F	0.505	F	(0.250)	U	0.583	F	(0.00701)	U	12.4	MH
	Aug-09	148	0.355	F	(0.250)	U	(0.250)	U	(0.500)	U	(0.00659)	U	3.61	F
	Dec-09	148	2.08		0.808	F	2.65		3.73		(0.00693)	UML	1.58	F
B760-MW09	Jul-08	149	238		11.3		0.304	F	165		0.299		24.6	
	Oct-08	149	83.5	JH	14.1		0.998	F	104		0.319		19.4	JH
	Jan-09	149	72.6		5.58		0.488	F	60.9		0.265		15.0	MH
	May-09	148	169		11.9		4.30		101		0.345		22.7	MH
	Aug-09	148	37.4		3.39		0.299	F	18.5		0.148	MH	12.8	
	Dec-09	147	199		24.8		2.12		84.8		0.324	ML	35.6	
B760-MW10	Jul-08	150	552		2.77		0.590	F	239		0.0439		38.4	
	Oct-08	150	268	JH	2.77	F	(1.25)	U	190		0.0436		26.5	JH
	Jan-09	150	137		0.642	F	(0.250)	U	140		0.0518		27.0	MH
	May-09	149	37.2		0.837	F	(0.250)	U	40.1		0.0458		22.2	MH
	Aug-09	149	23.0		0.333	F	(0.250)	U	1.86	F	0.0488	MH	15.0	
	Dec-09	148	14.2		1.41		1.17		7.96		0.0762	ML	10.9	

Table 3-4. ST035 Historical Analytical Results (Continued)

Well ID	Date	Sample Depth (ft BTOC)	Benzene (µg/L)		Toluene (µg/L)		Ethylbenzene (µg/L)		Total Xylenes (µg/L)		EDB (µg/L)		MTBE (µg/L)	
ADEQ UST Tier 1 Corrective Action Standards ^(a)			5		1,000		700		10,000		0.05		94	
B760-MW11	Jul-08	144	2.49		0.907	F	(0.250)	U	1.24	F	(0.00690)	U	(0.500)	U
	Oct-08	144	2.29	JL	0.558	JL	(0.250)	UJL	0.961	JL	(0.00725)	U	(0.500)	UJL
	Jan-09	144	2.34		0.610	F	(0.250)	U	1.42	F	(0.0073)	U	(0.500)	U
	May-09	143	5.17		1.03		(0.250)	U	2.67		(0.00688)	U	(0.500)	U
	Aug-09	143	4.30		0.681	F	(0.250)	U	(0.500)	U	(0.00680)	U	(0.500)	U
	Dec-09	142	11.4		1.85		2.87		4.92		(0.00683)	UML	(0.500)	U
B760-MW12	Jul-08	150	1,130		3.36		937		8.53		0.0990		261	
	Oct-08	150	3,450		3,720		1,630		1,450		0.100	JH	276	JH
	Jan-09	150	4,320		302		1,440		896		0.0575	J	278	MH
	May-09	149	8.38		1.87		141		2.07	F	(0.00677)	U	201	MH
	Aug-09	149	4.78		0.542	F	23.2		0.713	F	(0.00665)	U	175	
	Dec-09	148	1.28		0.314	F	(0.250)	U	(0.500)	U	(0.00711)	UML	78.9	
B760-MW13	Jul-08	151	1.63		0.777	F	(0.250)	U	(0.500)	U	(0.00705)	U	(0.500)	U
	Oct-08	151	1.35	JH	(0.250)	U	(0.250)	U	(0.500)	U	(0.00694)	U	(0.500)	U
	Jan-09	151	0.683		(0.250)	U	(0.250)	U	(0.500)	U	(0.00705)	U	(0.500)	U
	May-09	150	2.01		0.389	F	(0.250)	U	0.581	F	(0.00695)	U	(0.500)	U
	Aug-09	150	5.73		(0.250)	U	(0.250)	U	(0.500)	U	(0.00675)	U	(0.500)	U
	Dec-09	149	8.75		(0.250)	U	(0.250)	U	(0.500)	U	(0.00697)	UML	(0.500)	U

^(a) For methyl tertiary butyl ether (MTBE), Arizona Department of Environmental Quality (ADEQ) guidance provides for a corrective action standard of 94 micrograms per liter (µg/L) when no drinking water well is affected (ADEQ, August 2002).

Results **bolded** and **shaded** exceed applicable ADEQ Underground Storage Tank (UST) Tier 1 Corrective Action Standards.

µg/L - Micrograms per liter.

B - Analyte was detected in the laboratory blank, as well as in the sample.

BTOC - Below top of casing.

D - Analyte identified at a secondary dilution.

DUP - Duplicate.

EDB - 1,2-Dibromoethane.

F - The analyte was positively identified, but the associated numerical value is below the reporting limit (RL). This quantitation is an estimate.

ft - Feet.

H - Biased high.

ID - Identification.

J - The analyte was positively identified; the quantitation is an estimate.

L - Biased low.

M - Matrix effect: The concentration is estimated due to a matrix effect.

MTBE - Methyl tertiary butyl ether.

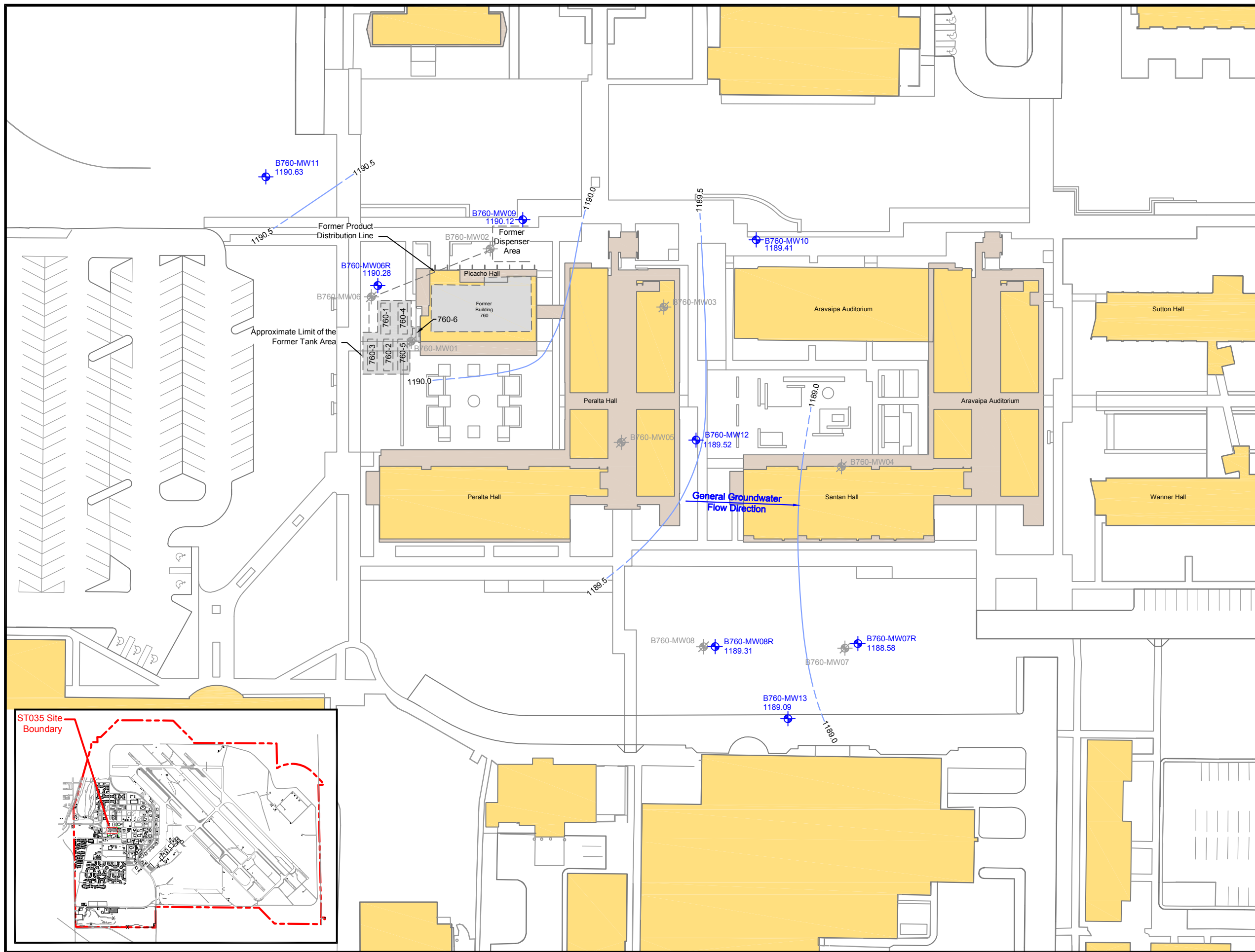
NA - Not available.

U - The analyte was not detected at the corresponding quantitation limit (in parenthesis).

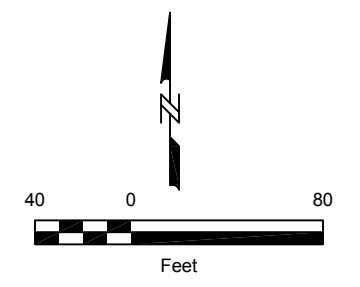
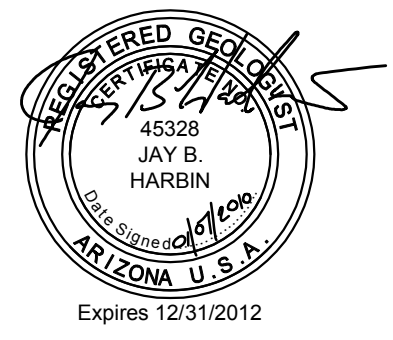
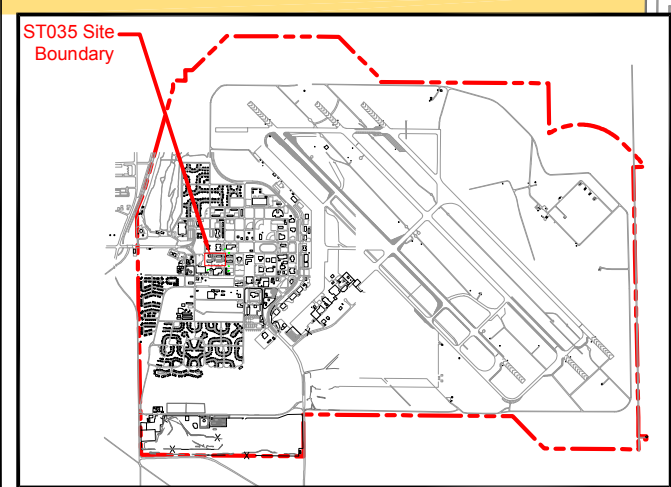
UJ - The analyte was not detected; however, the result is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

X - Unknown validation flag used by previous contractor.

File: Q:\Williams_AFB\Drawings\CAD\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_AGWMMR_01-10.dwg Layout: Fig 3-1a Plotted: Apr 29, 2010 - 2:41pm

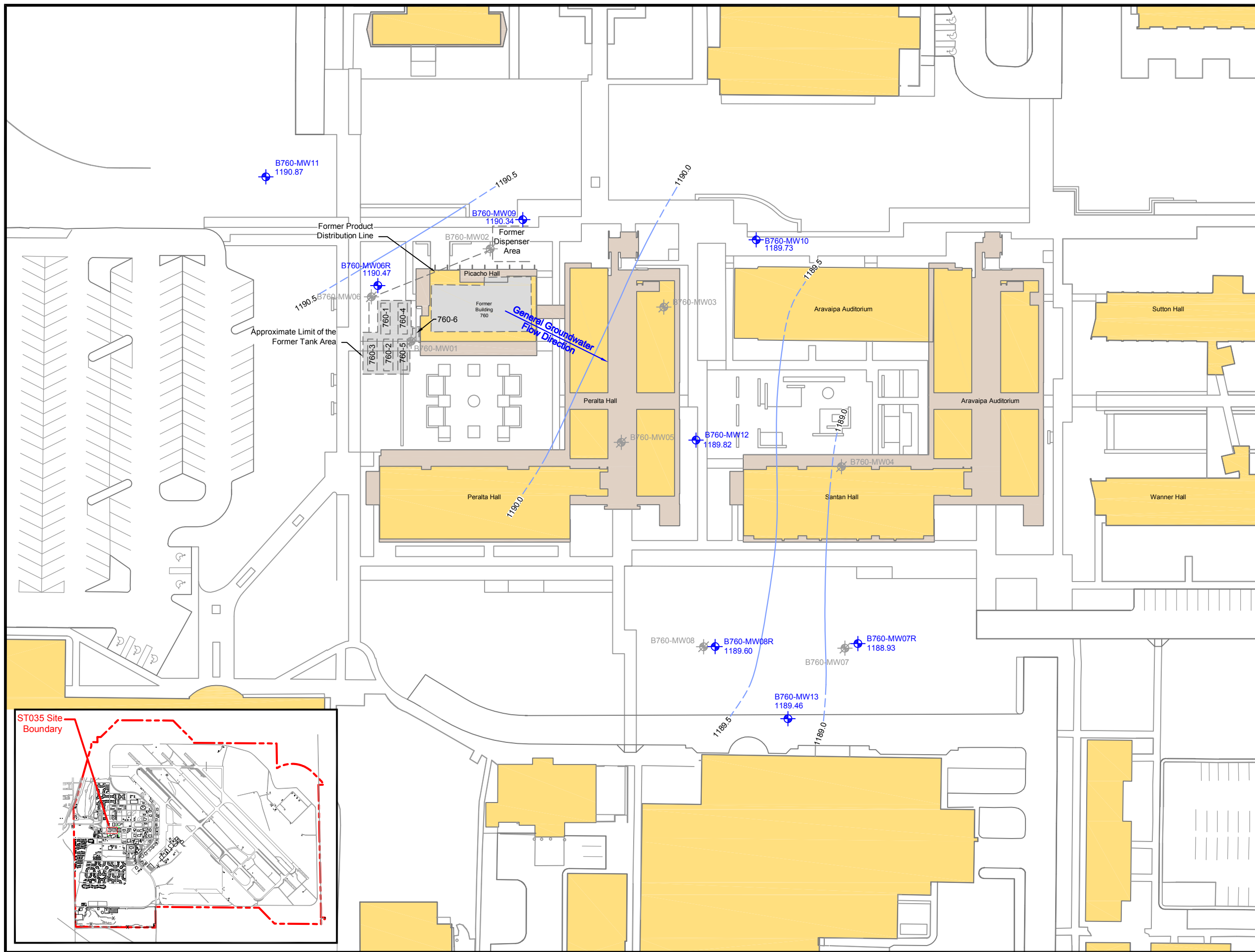


- Legend**
- Building
 - Canopy/Covered Walkway
 - Location of Former Building 760 and Associated Structures
 - Monitoring Well Location
 - Abandoned Monitoring Well Location
 - 1188.58 Groundwater Elevation (ft msl)
 - - - 1189.0 Potentiometric Contour Line (Dashed Where Inferred) (ft msl)

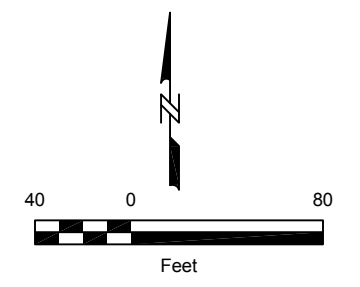


ST035
 Potentiometric Surface Map,
 May 2009
 Former Williams Air Force Base
 Mesa, Arizona
 ST035_AGWMMR_01-10.dwg Figure 3-1a

File: Q:\Williams_AFB\Drawings\CADD\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_AGWMR_01-10.dwg Layout: Fig 3-1b Plotted: Apr 29, 2010 - 2:41pm

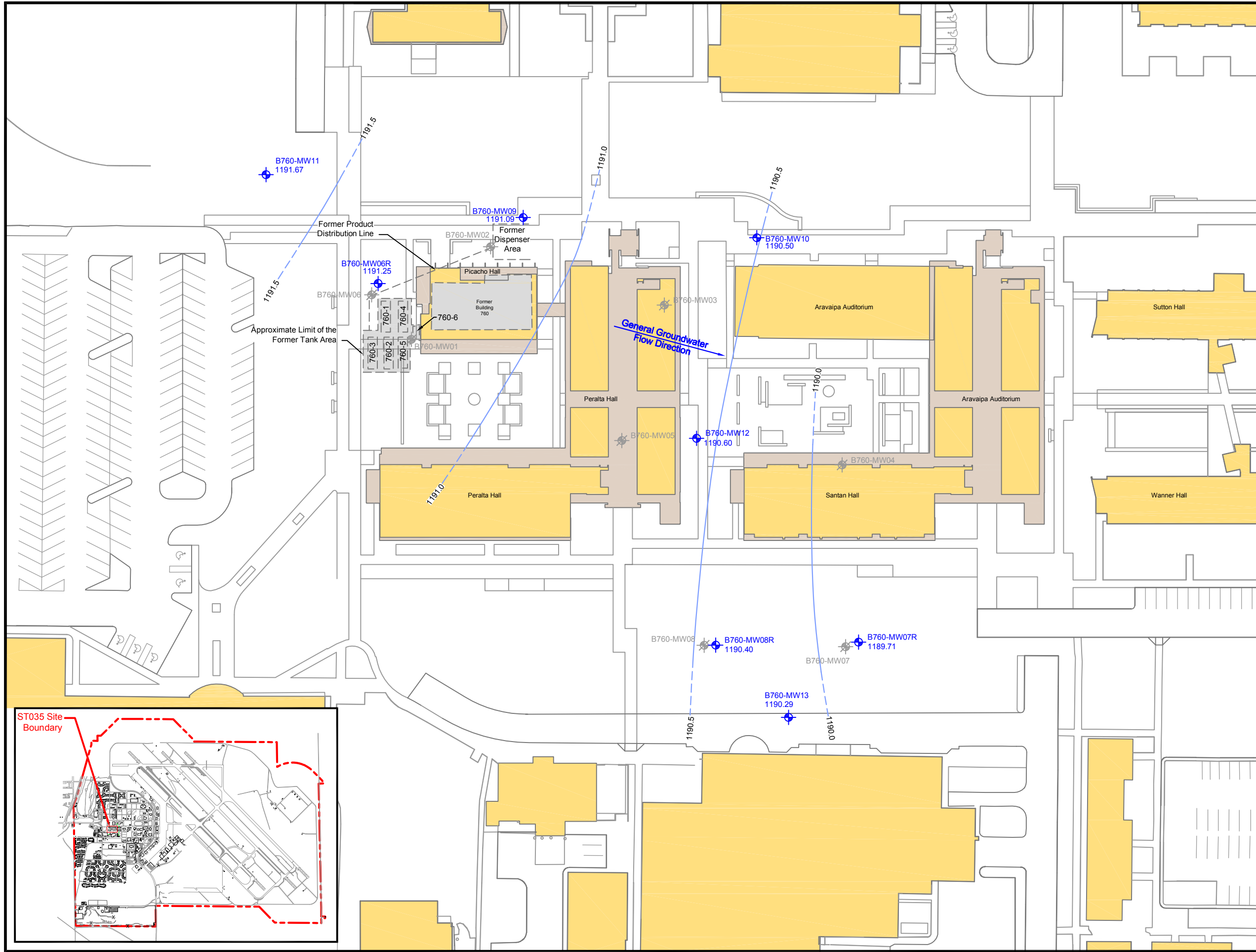


- Legend**
- Building
 - Canopy/Covered Walkway
 - Location of Former Building 760 and Associated Structures
 - Monitoring Well Location
 - Abandoned Monitoring Well Location
 - 1188.93 Groundwater Elevation (ft ms)
 - 1189.0 Potentiometric Contour Line (Dashed Where Inferred) (ft ms)



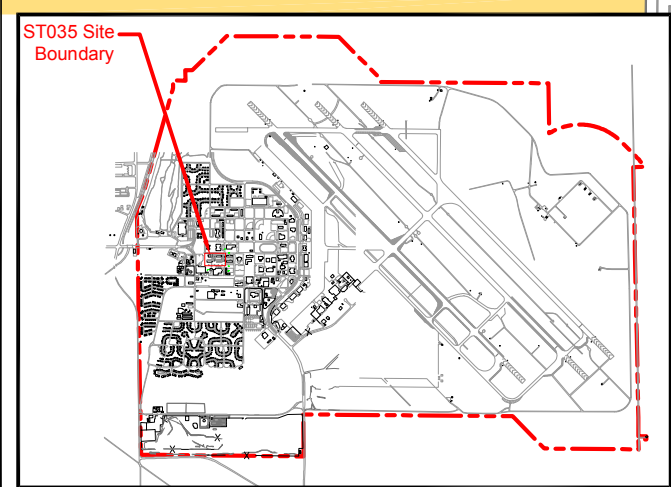
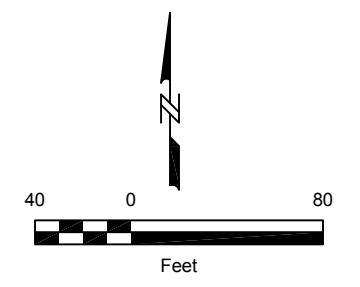
ST035
Potentiometric Surface Map,
August 2009
Former Williams Air Force Base
Mesa, Arizona
ST035_AGWMR_01-10.dwg **Figure 3-1b**

File: Q:\Williams_AFB\Drawings\CADD\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_AGWMMR_01-10.dwg Layout: Fig 3-1c Plotted: Apr 29, 2010 - 2:41pm



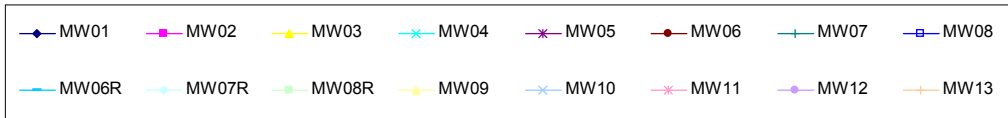
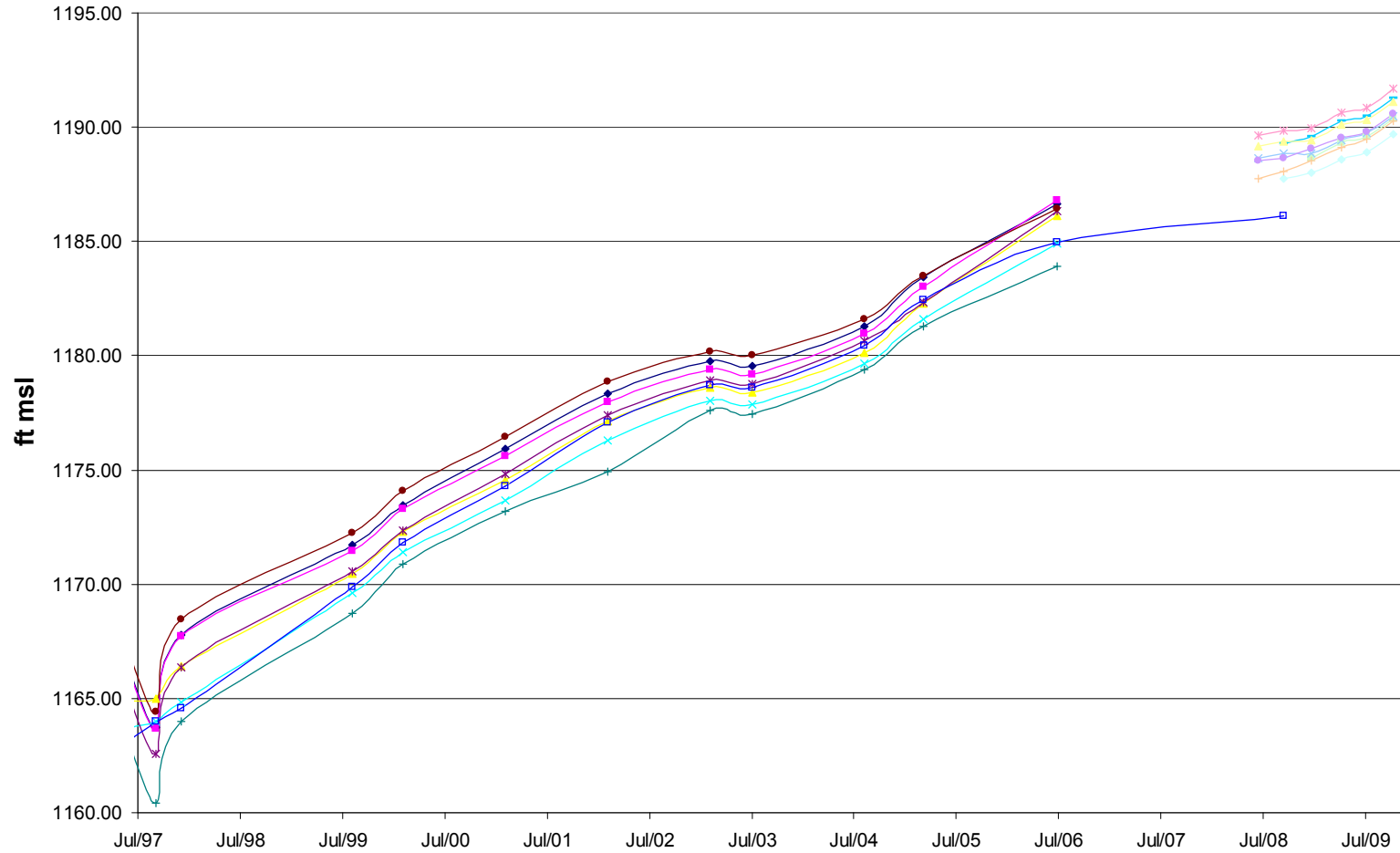
- Legend**
- Building
 - Canopy/Covered Walkway
 - Location of Former Building 760 and Associated Structures
 - Monitoring Well Location
 - Abandoned Monitoring Well Location
 - 1189.71 Groundwater Elevation (ft msl)
 - - - 1190.0 Potentiometric Contour Line (Dashed Where Inferred) (ft msl)

REGISTERED GEOLOGIST
 CERTIFICATE NO. 45328
 JAY B. HARBIN
 Date Signed 01/07/2010
 ARIZONA U.S.A.
 Expires 12/31/2012



ST035
Potentiometric Surface Map,
November 2009
 Former Williams Air Force Base
 Mesa, Arizona
 ST035_AGWMMR_01-10.dwg **Figure 3-1c**

ST035 Historical Groundwater Elevations



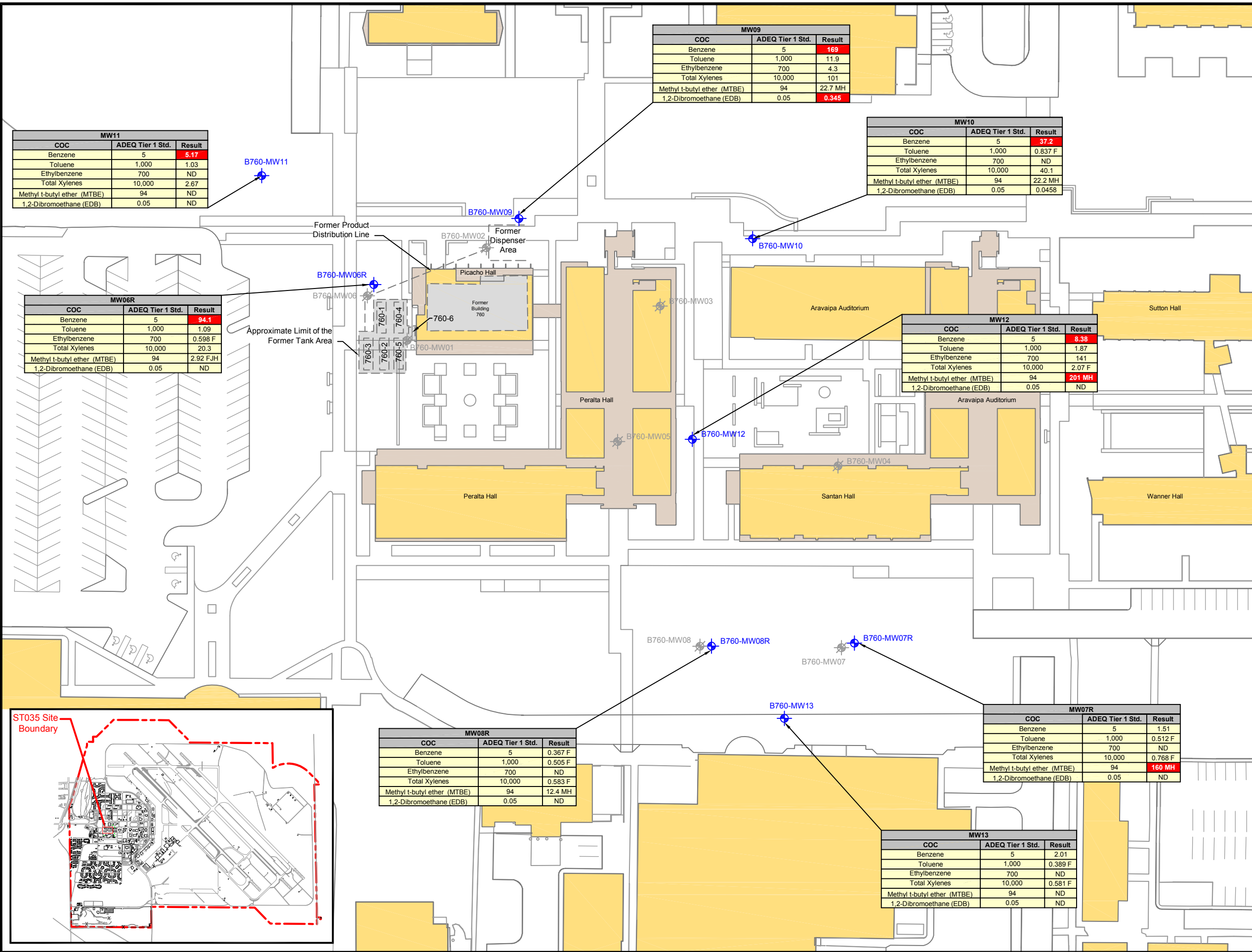
ST035 Well Hydrographs

Former Williams Air Force Base
Mesa, Arizona

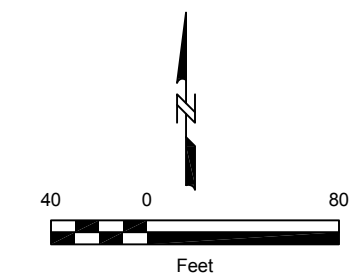
ST035_AGWMR_01-10.dwg

Figure 3-2

File: Q:\Williams_AFB\Drawings\FEB\Annual_Monitoring_Report\2009_Annual_Report\Final\ST035_AGWMMR_01-10.dwg Layout: Fig 3-3a Plotted: Apr 29, 2010 - 2:42pm



- Legend**
- Building
 - Canopy/Covered Walkway
 - Location of Former Building 760 and Associated Structures
 - Monitoring Well Location
 - Abandoned Monitoring Well Location
 - Result in Excess of the Cleanup Standard
 - ND Not Detected
 - F The analyte was positively identified but the associated numerical value is below the RL. The quantitation is an estimate.
 - J The analyte was positively identified; the quantitation is an estimate.
 - M The concentration is estimated due to a matrix effect.
 - H Biased high.

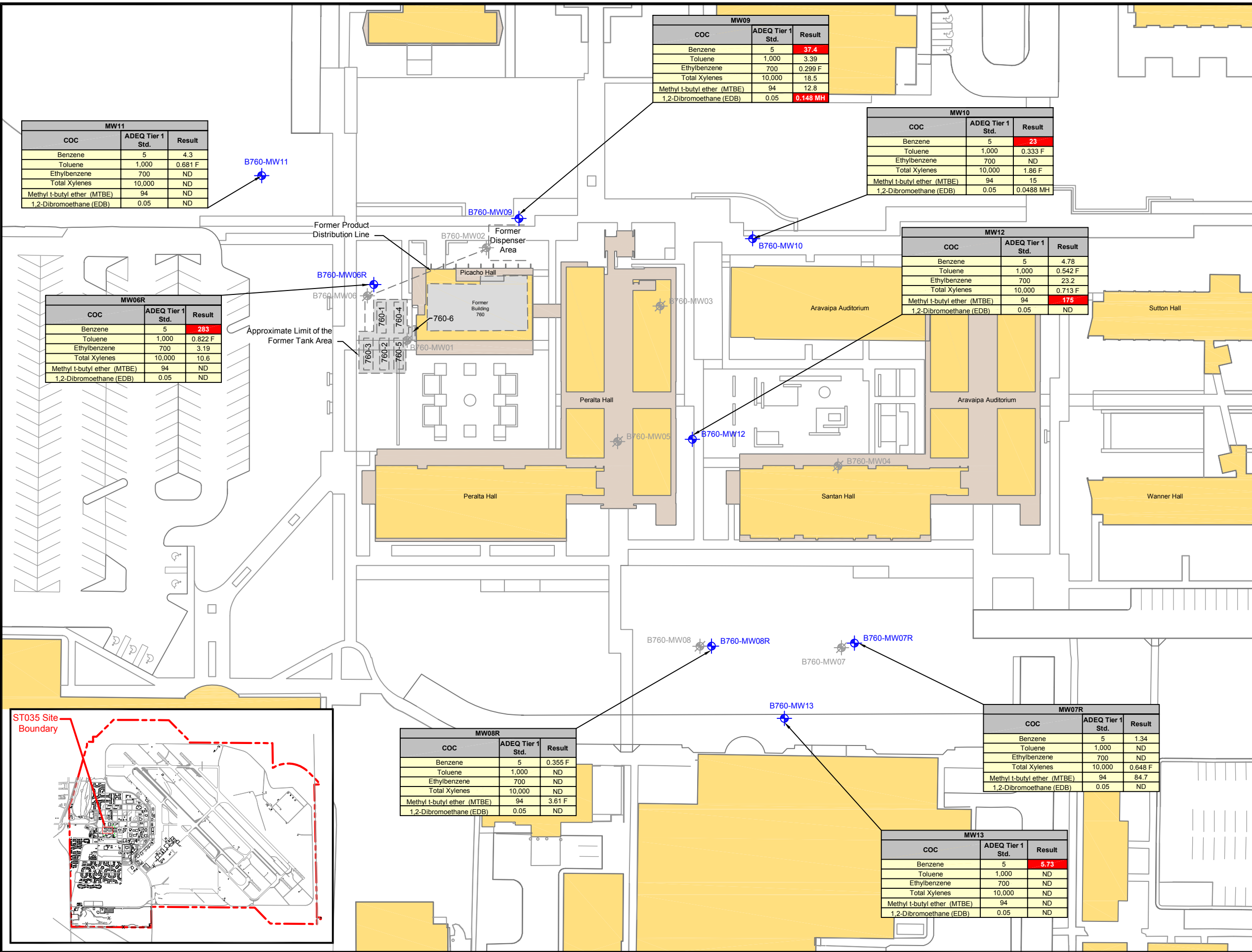


ST035
COC Concentrations,
May 2009

Former Williams Air Force Base
Mesa, Arizona

ST035_AGWMMR_01-10.dwg **Figure 3-3a**

File: Q:\Williams_AFB\Drawings\AFB\Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_AGWMMR_01-10.dwg Layout: Fig 3-3b Plotted: Apr 29, 2010 - 2:42pm



Legend

- Building
- Canopy/Covered Walkway
- Location of Former Building 760 and Associated Structures
- Monitoring Well Location
- Abandoned Monitoring Well Location
- Result in Excess of the Cleanup Standard
- ND Not Detected
- F The analyte was positively identified but the associated numerical value is below the RL. The quantitation is an estimate.
- M The concentration is estimated due to a matrix effect.
- H Biased high.

40 0 80

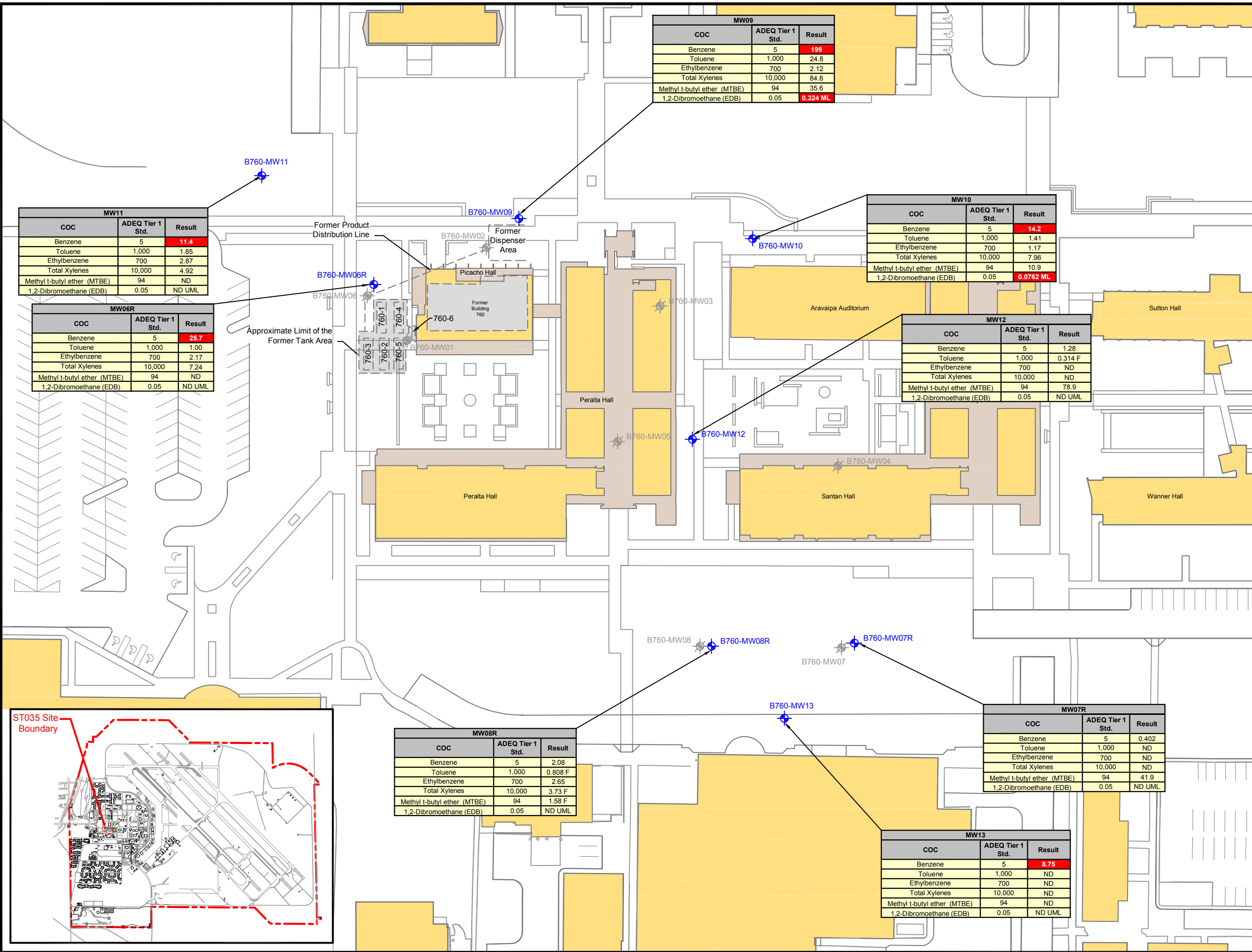
 Feet

ST035
COC Concentrations,
August 2009

Former Williams Air Force Base
 Mesa, Arizona

ST035_AGWMMR_01-10.dwg **Figure 3-3b**

File: Q:\Williams_AFB\Drawings\CA001\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_AGWMMR_01-10.dwg Layout: Fig 3-3c Plotted: Apr 29, 2010 - 2:43pm



Legend

- Building
- Canopy/Covered Walkway
- Location of Former Building 760 and Associated Structures
- Monitoring Well Location
- Abandoned Monitoring Well Location
- 142 Result in Excess of the Cleanup Standard
- ND Not Detected
- F The analyte was positively identified but the associated numerical value is below the RL. The quantitation is an estimate.
- M The concentration is estimated due to a matrix effect.
- L Biased low.
- U The analyte was analyzed for, but was not detected at the corresponding detection limit.

40 0 80

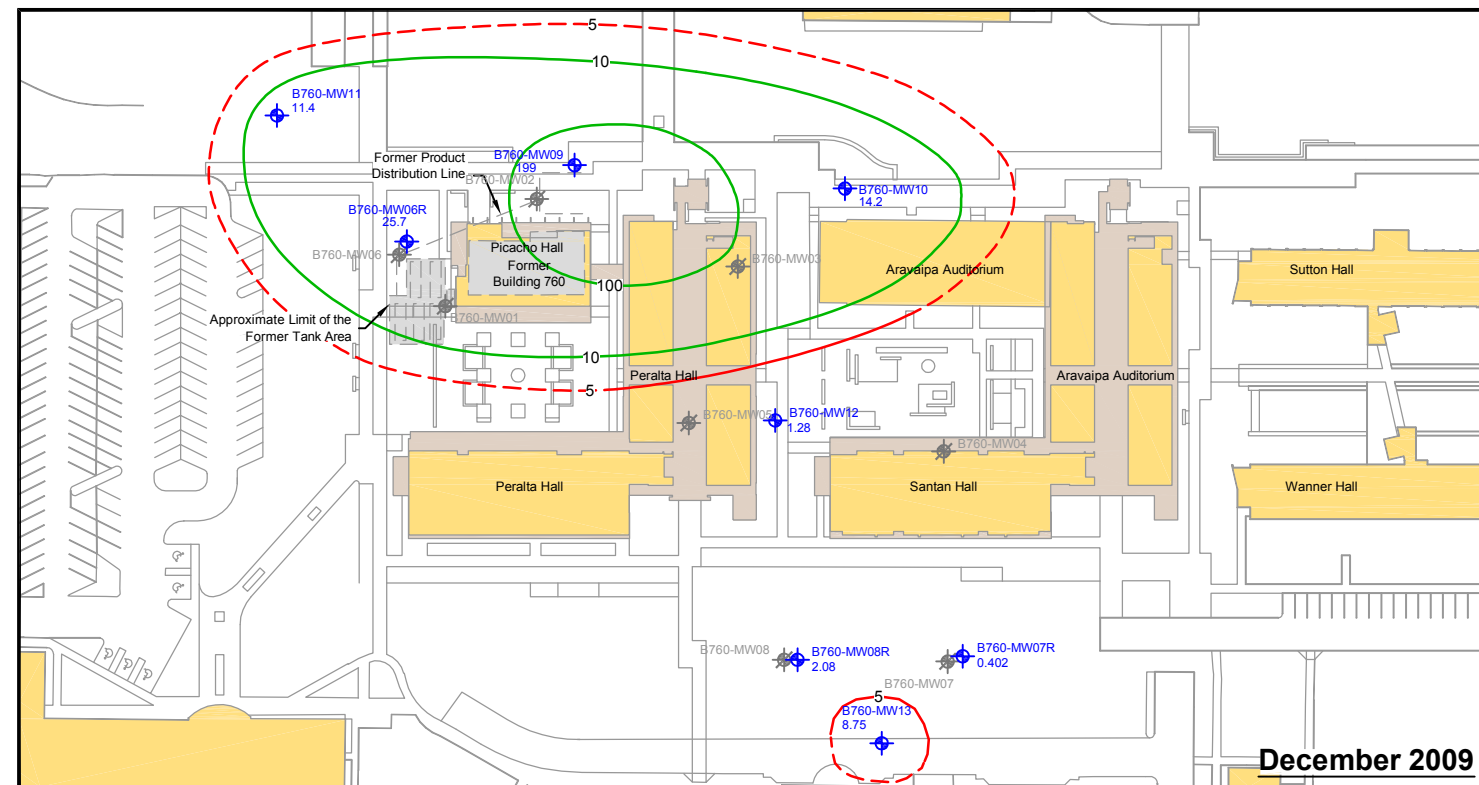
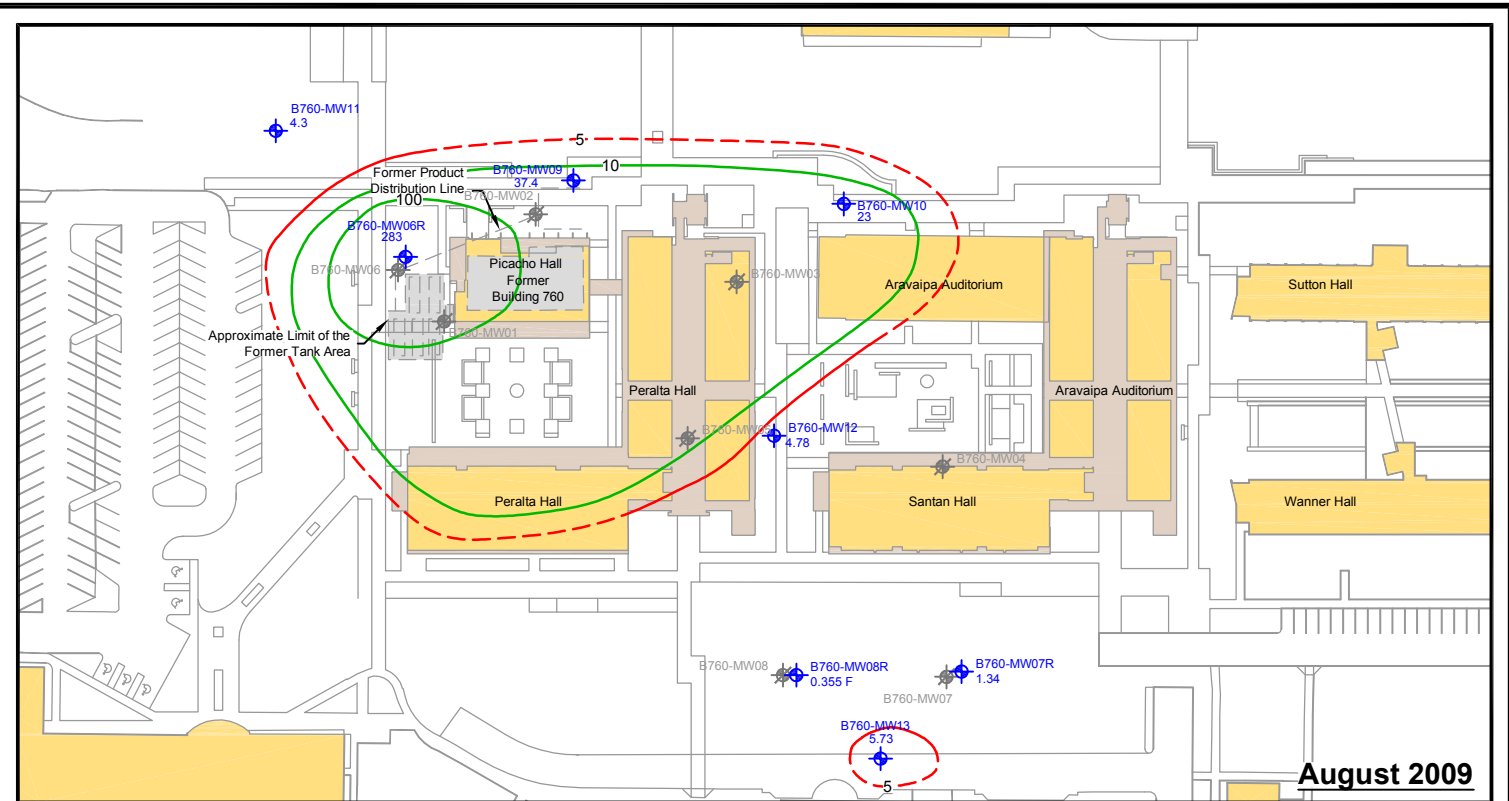
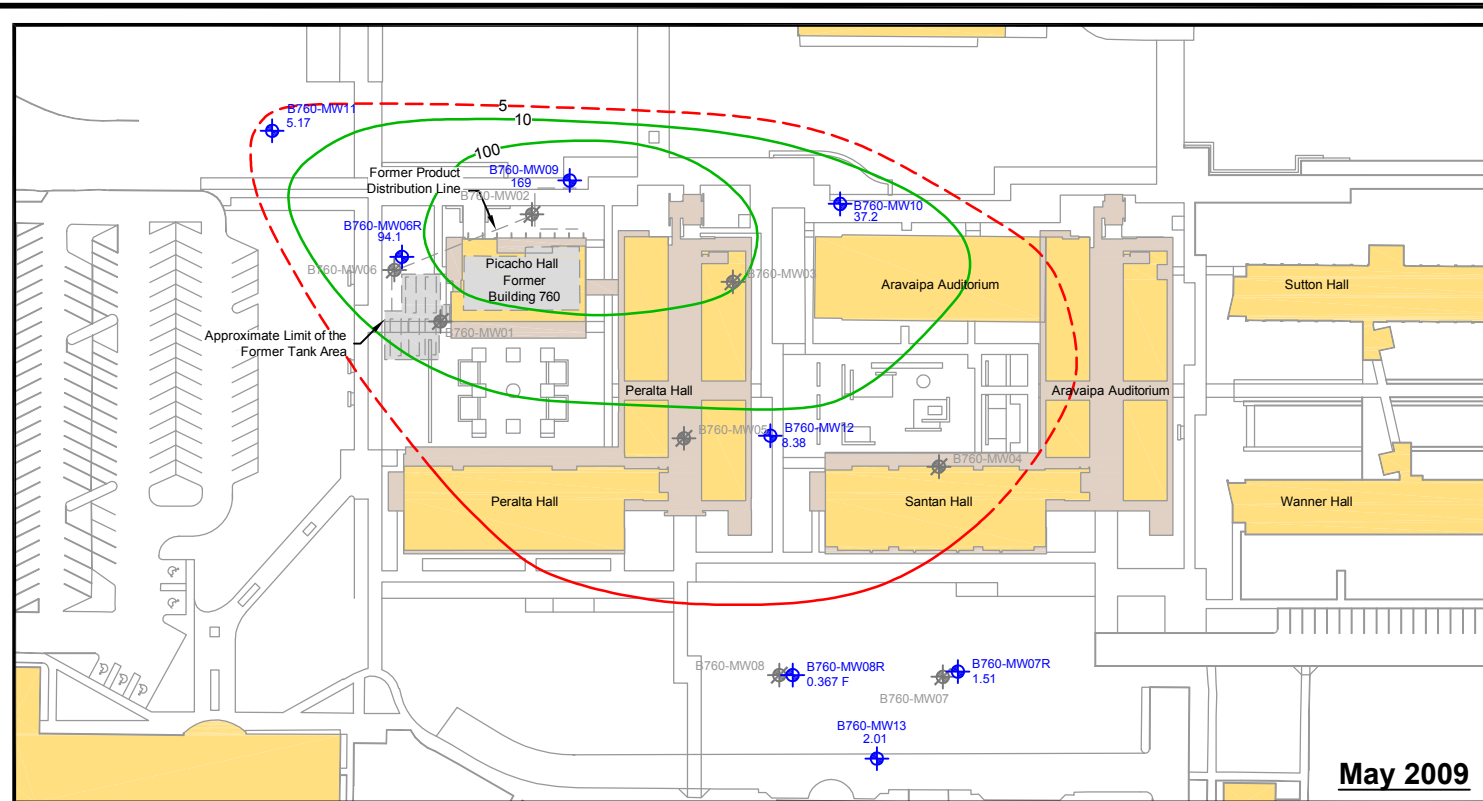
Feet

ST035
COC Concentrations,
December 2009

Former Williams Air Force Base
Mesa, Arizona

ST035_AGWMMR_01-10.dwg **Figure 3-3c**

File: Q:\Williams_AFB\Drawings\CAD\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_Concs_OT.dwg Layout: Fig 3-4 Plotted: Apr 29, 2010 - 2:49pm

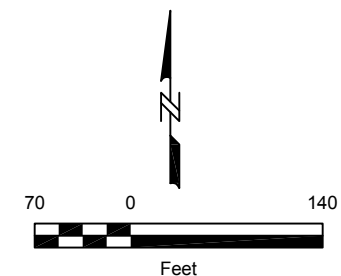


Expires 12/31/2012

- Legend**
- Existing Building
 - Canopy/Covered Walkway
 - Location of Former Building 760 and Associated Structures
 - Monitoring Well Location
 - Abandoned Monitoring Well Location
 - Benzene Concentration Contour (Dashed Where Inferred)
 - Benzene ADEQ Tier 1 Corrective Action Standard Contour (5 µg/L) (Dashed Where Inferred)

F - The analyte was positively identified but the associated numerical value is below the RL. The quantitation is an estimate.

Note:
Concentrations presented in micrograms per liter (µg/L).

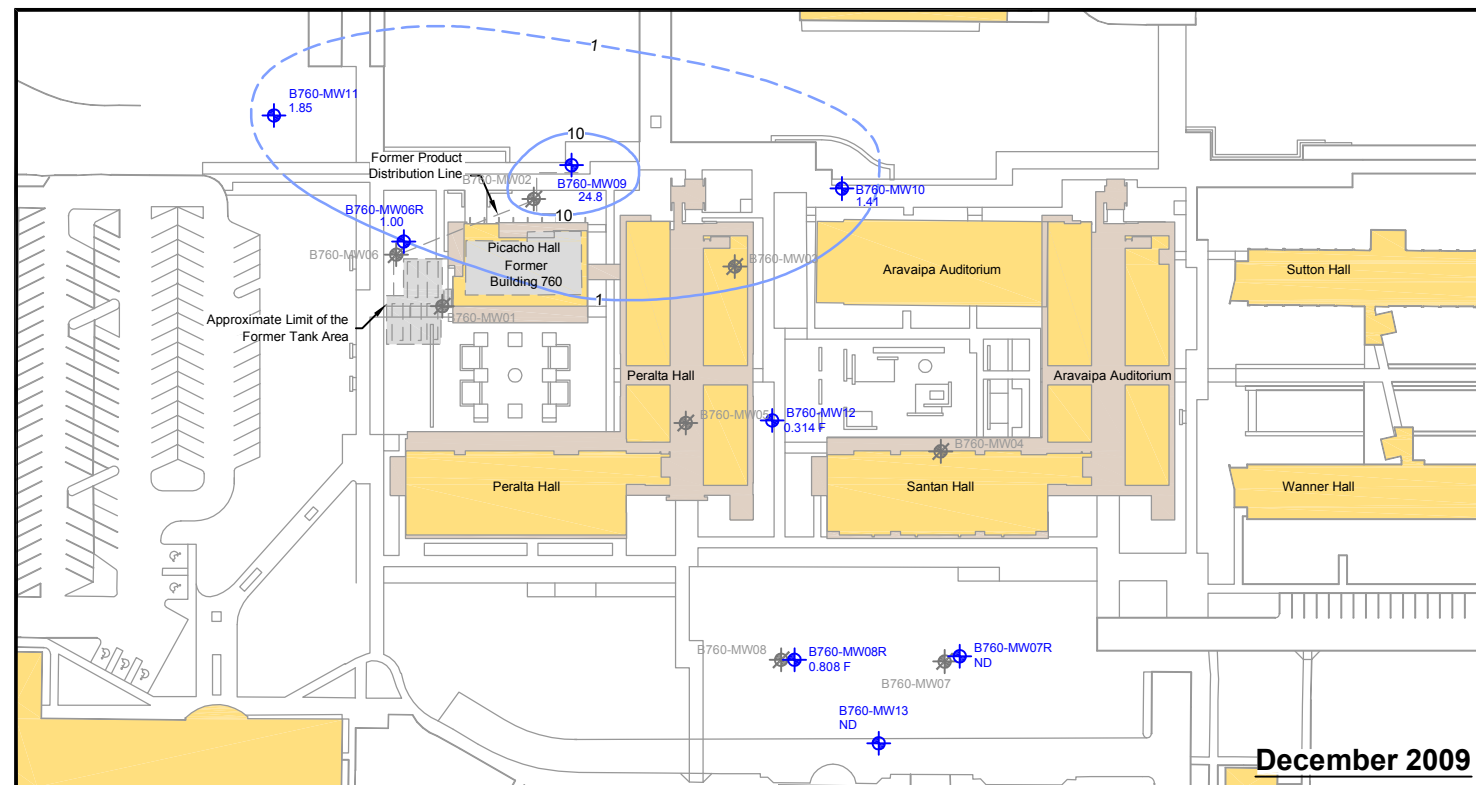
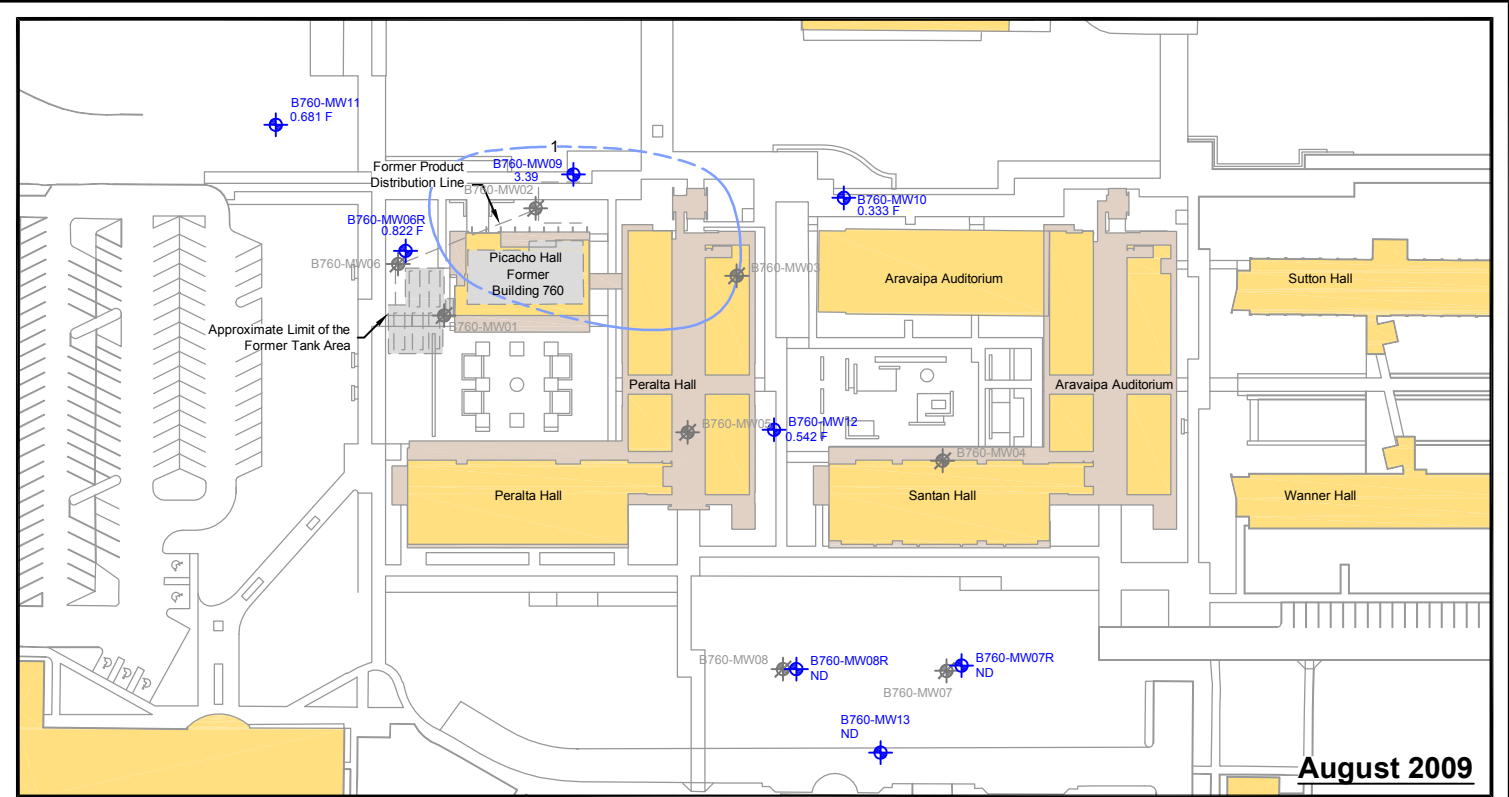
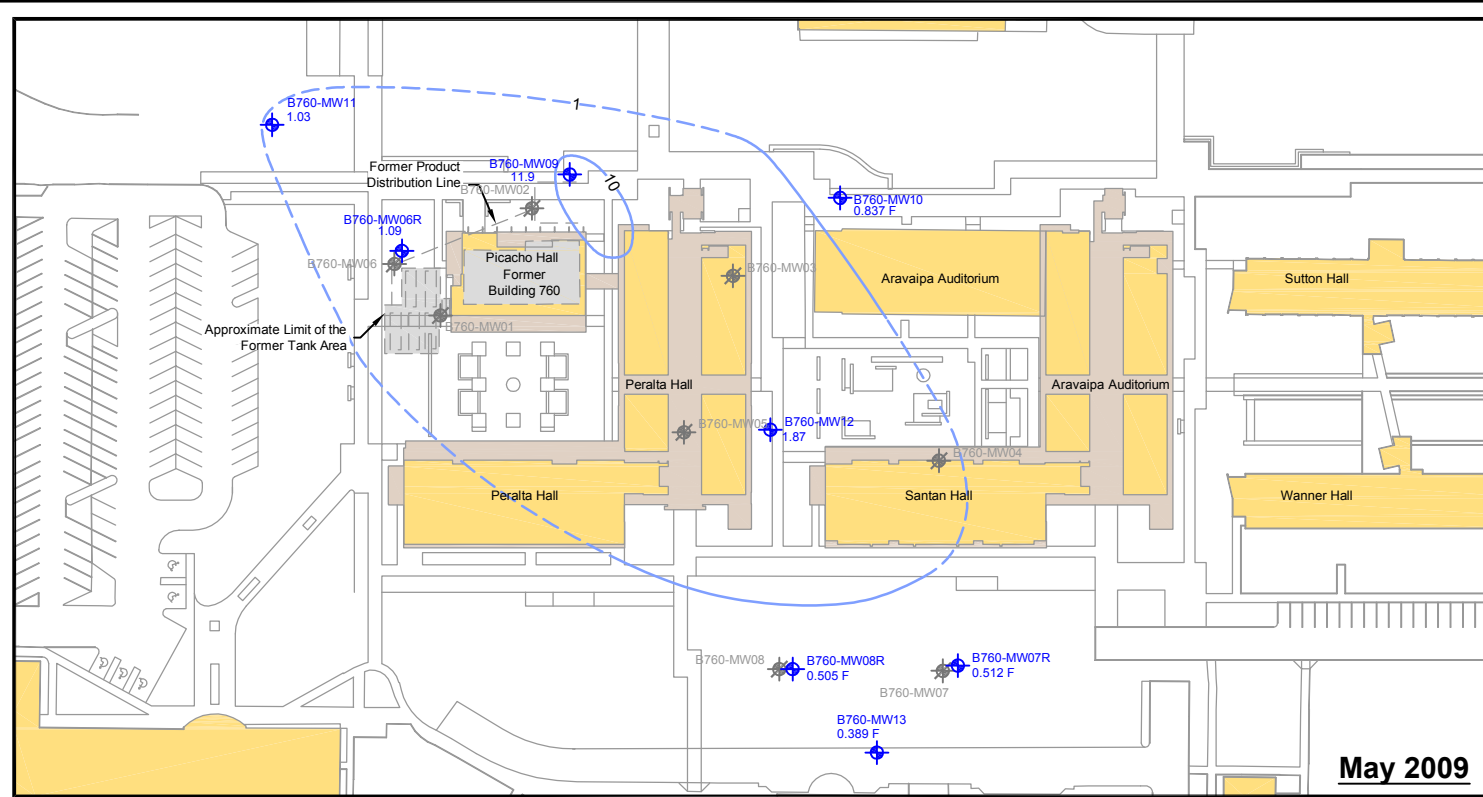


ST035
Benzene Concentrations
in Groundwater
 Former Williams Air Force Base
 Mesa, Arizona

ST035_Concs_OT.dwg

Figure 3-4

File: Q:\Williams_AFB\Drawings\CADD\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_Concs_OT.dwg Layout: Fig 3-5 Plotted: Apr 29, 2010 - 2:49pm



- Legend**
- Existing Building
 - Canopy/Covered Walkway
 - Location of Former Building 760 and Associated Structures
 - Monitoring Well Location
 - Abandoned Monitoring Well Location
 - Toluene Concentration Contour (Dashed Where Inferred)

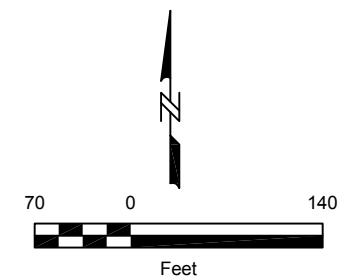
The analyte was positively identified but the associated numerical value is below the RL. The quantitation is an estimate.

F -

ND - Not Detected

Notes:

- Concentrations presented in micrograms per liter ($\mu\text{g/L}$).
- The ADEQ Tier I Corrective Action Standard for toluene is $1,000 \mu\text{g/L}$. The contour is not shown as no results exceed $1,000 \mu\text{g/L}$.



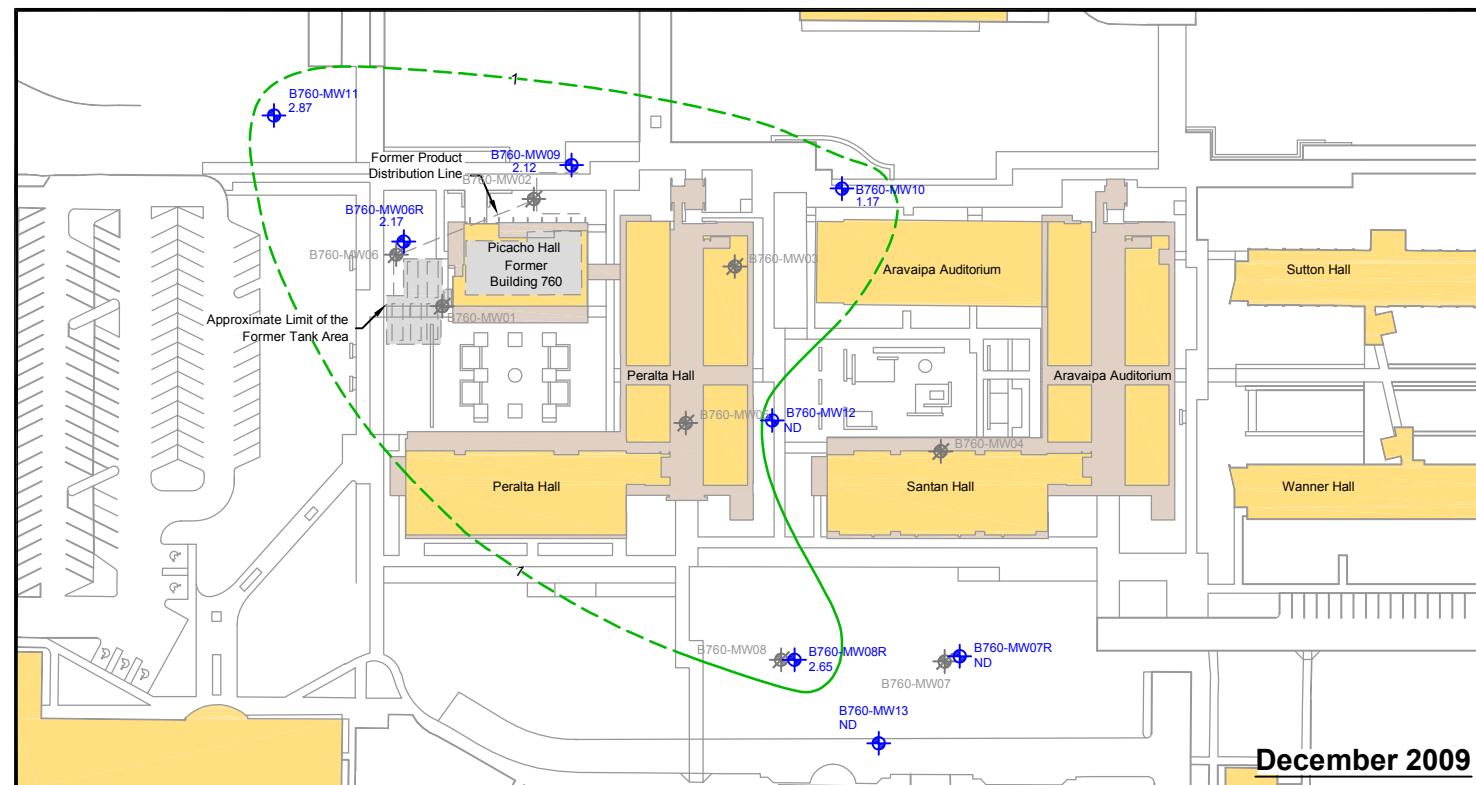
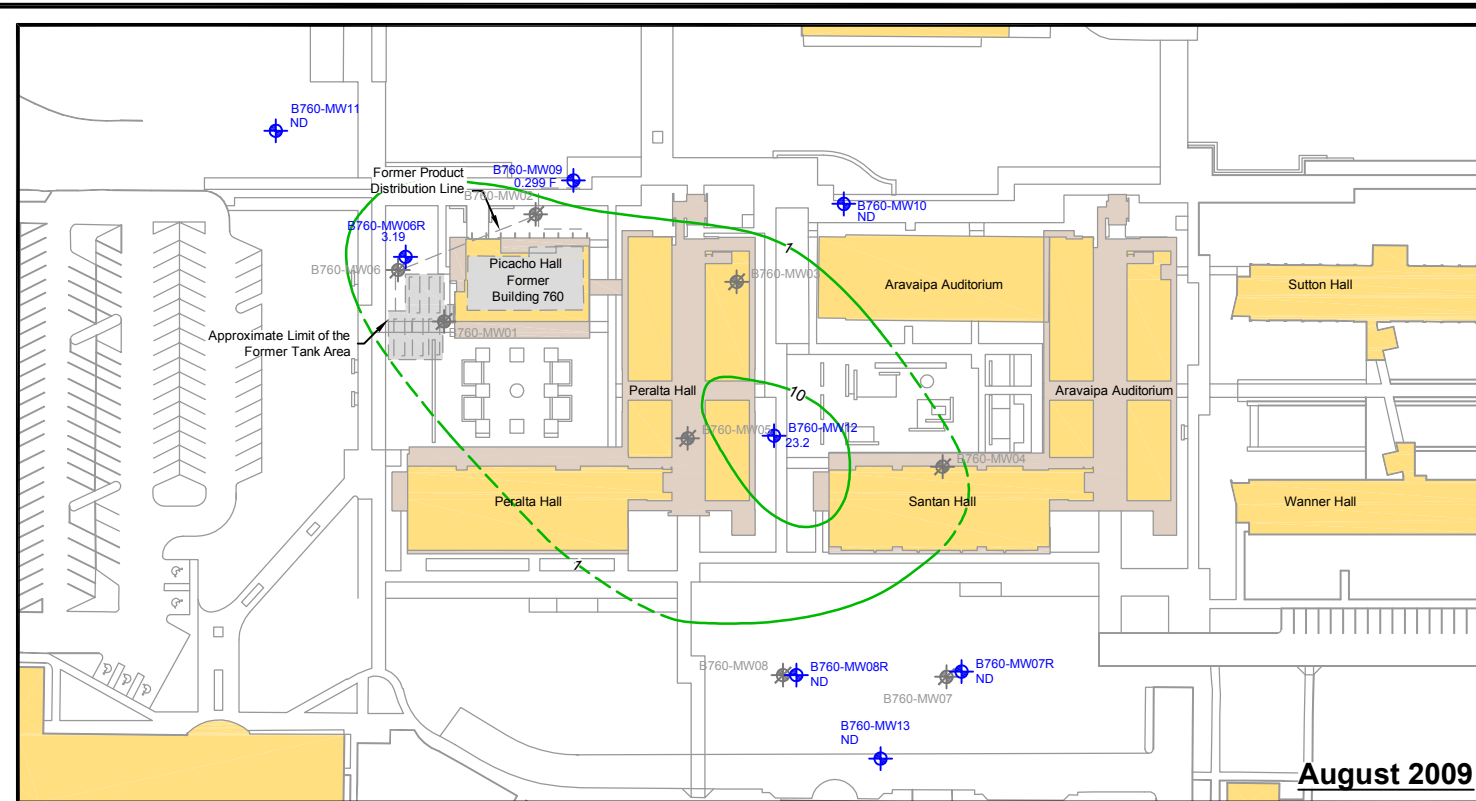
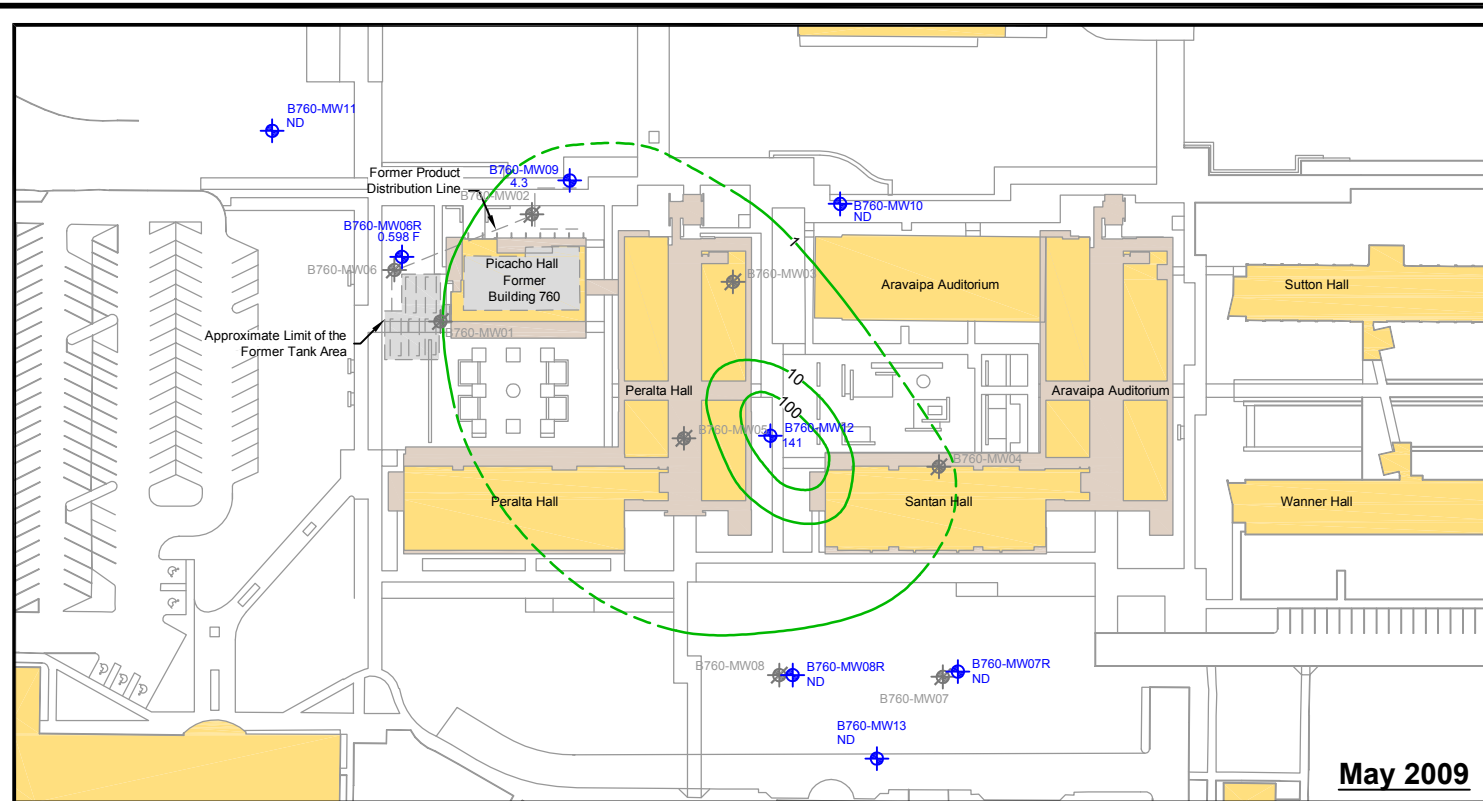
ST035
Toluene Concentrations
in Groundwater

Former Williams Air Force Base
Mesa, Arizona

ST035_Concs_OT.dwg

Figure 3-5

File: Q:\Williams_AFB\Drawings\CAD\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_Concs_OT.dwg Layout: Fig 3-6 Plotted: Apr 29, 2010 - 2:50pm



Legend

- Existing Building
- Canopy/Covered Walkway
- Location of Former Building 760 and Associated Structures

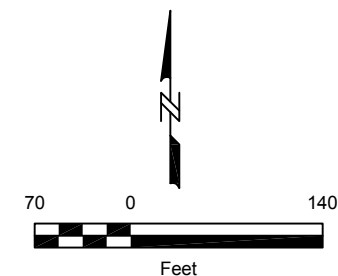
- Monitoring Well Location
- Abandoned Monitoring Well Location
- Ethylbenzene Concentration Contour (Dashed Where Inferred)

The analyte was positively identified but the associated numerical value is below the RL. The quantitation is an estimate.

ND - Not Detected

Notes:

1. Concentrations presented in micrograms per liter (µg/L).
2. The ADEQ Tier I Corrective Action Standard for ethylbenzene is 700 µg/L. The contour is not shown as no results exceed 700 µg/L.



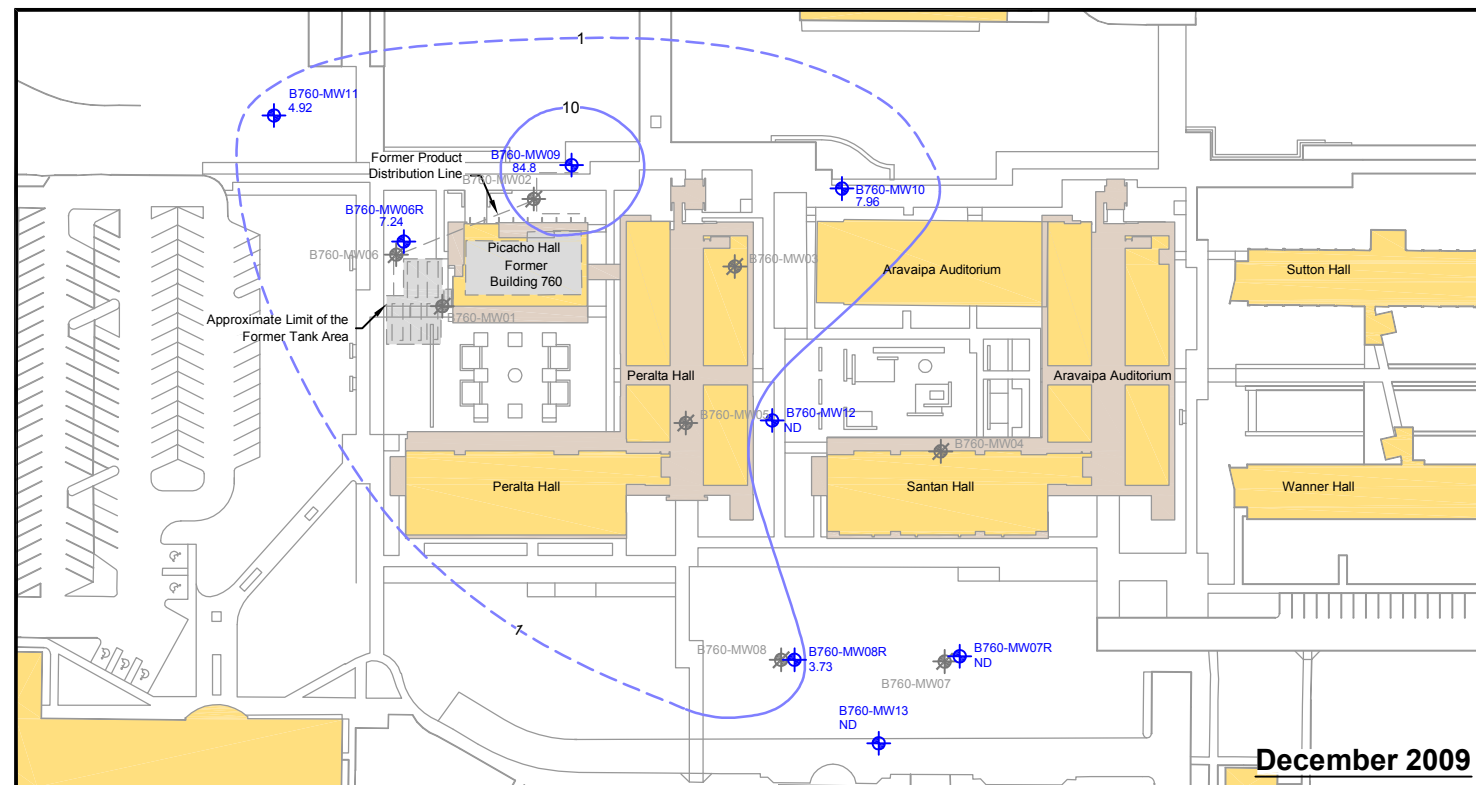
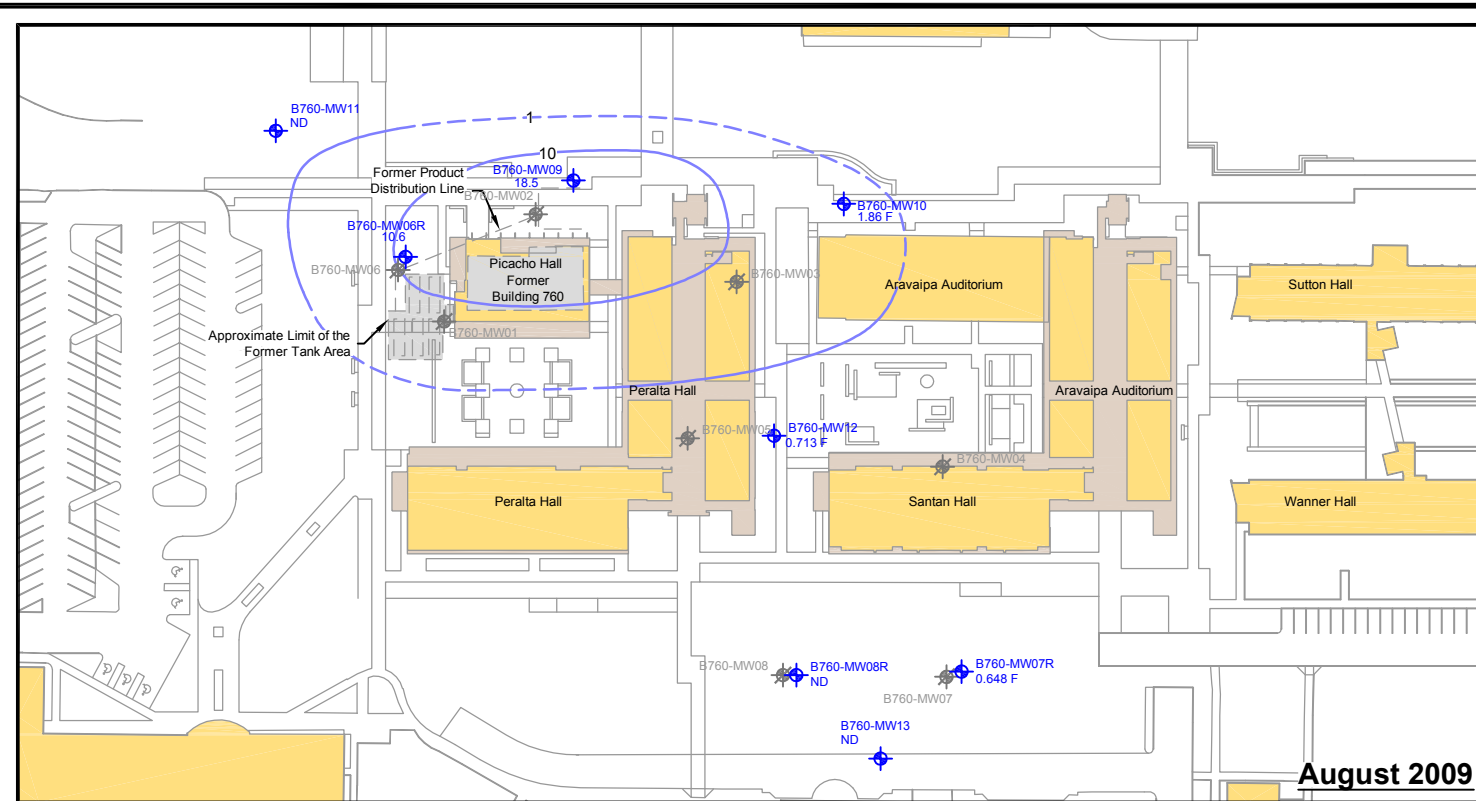
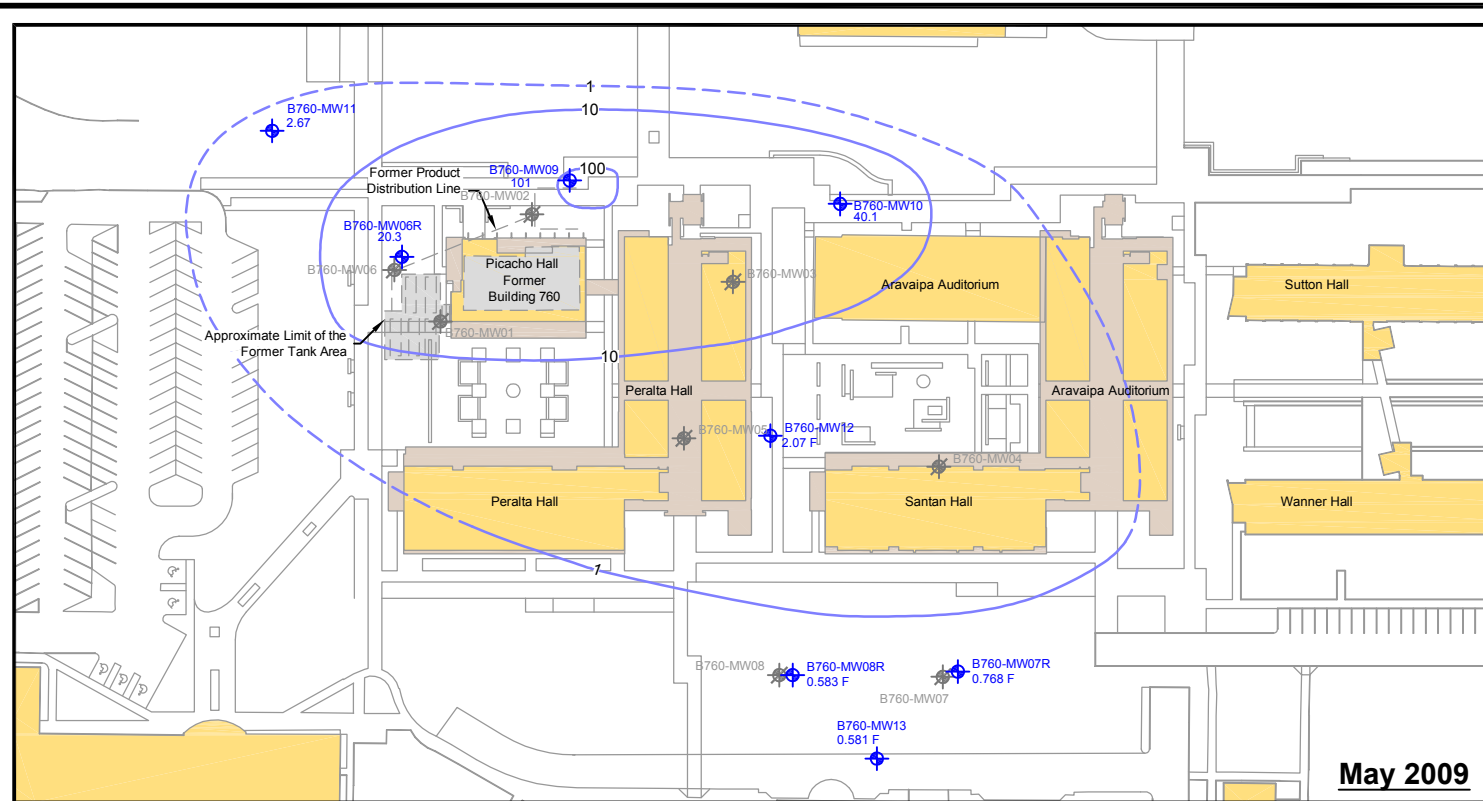
ST035
Ethylbenzene Concentrations
in Groundwater

Former Williams Air Force Base
Mesa, Arizona

ST035_Concs_OT.dwg

Figure 3-6

File: Q:\Williams_AFB\Drawings\CADD\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_Concs_OT.dwg Layout: Fig 3-7 Plotted: Apr 29, 2010 - 2:50pm



Expires 12/31/2012

Legend

- Existing Building
- Canopy/Covered Walkway
- Location of Former Building 760 and Associated Structures

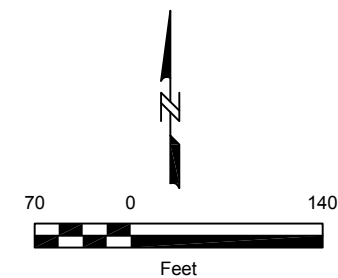
- Monitoring Well Location
- Abandoned Monitoring Well Location
- Total Xylene Concentration Contour (Dashed Where Inferred)

ND - Not Detected

F - The analyte was positively identified but the associated numerical value is below the RL. The quantitation is an estimate.

Notes:

1. Concentrations presented in micrograms per liter (ug/L).
2. The ADEQ Tier 1 Corrective Action Standard for Total Xylenes is 10,000 ug/L. The contour is not shown as no results exceeded 10,000 ug/L.



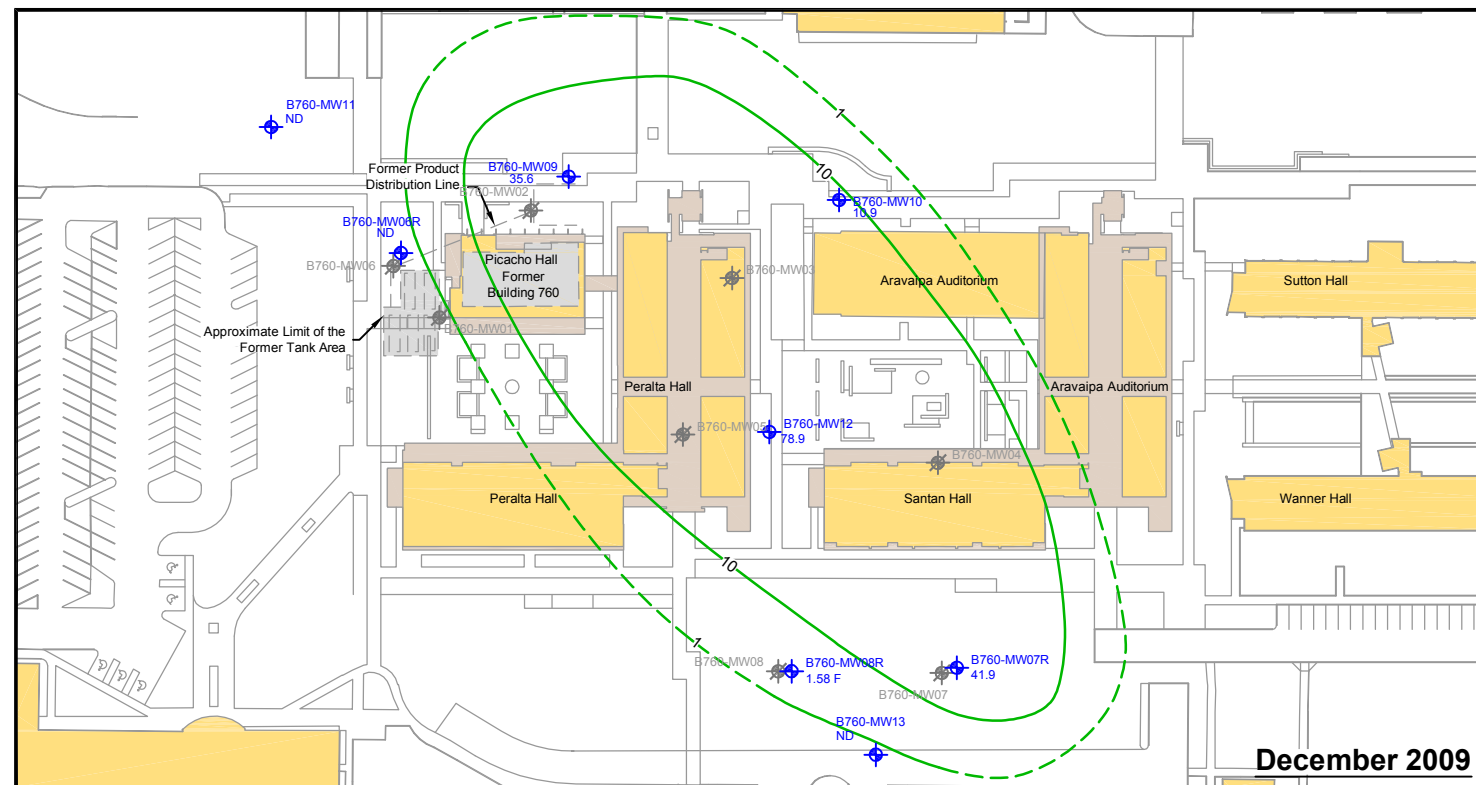
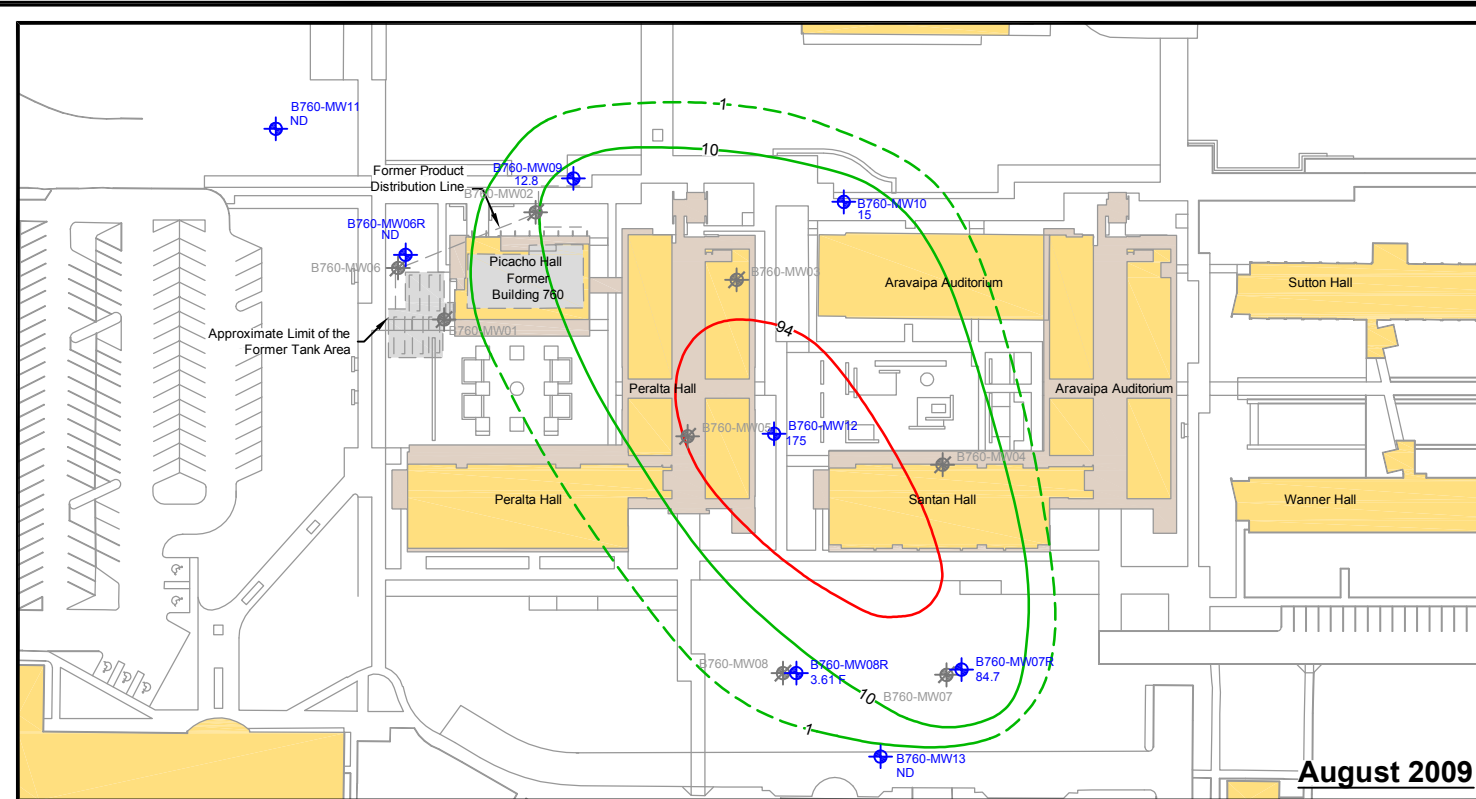
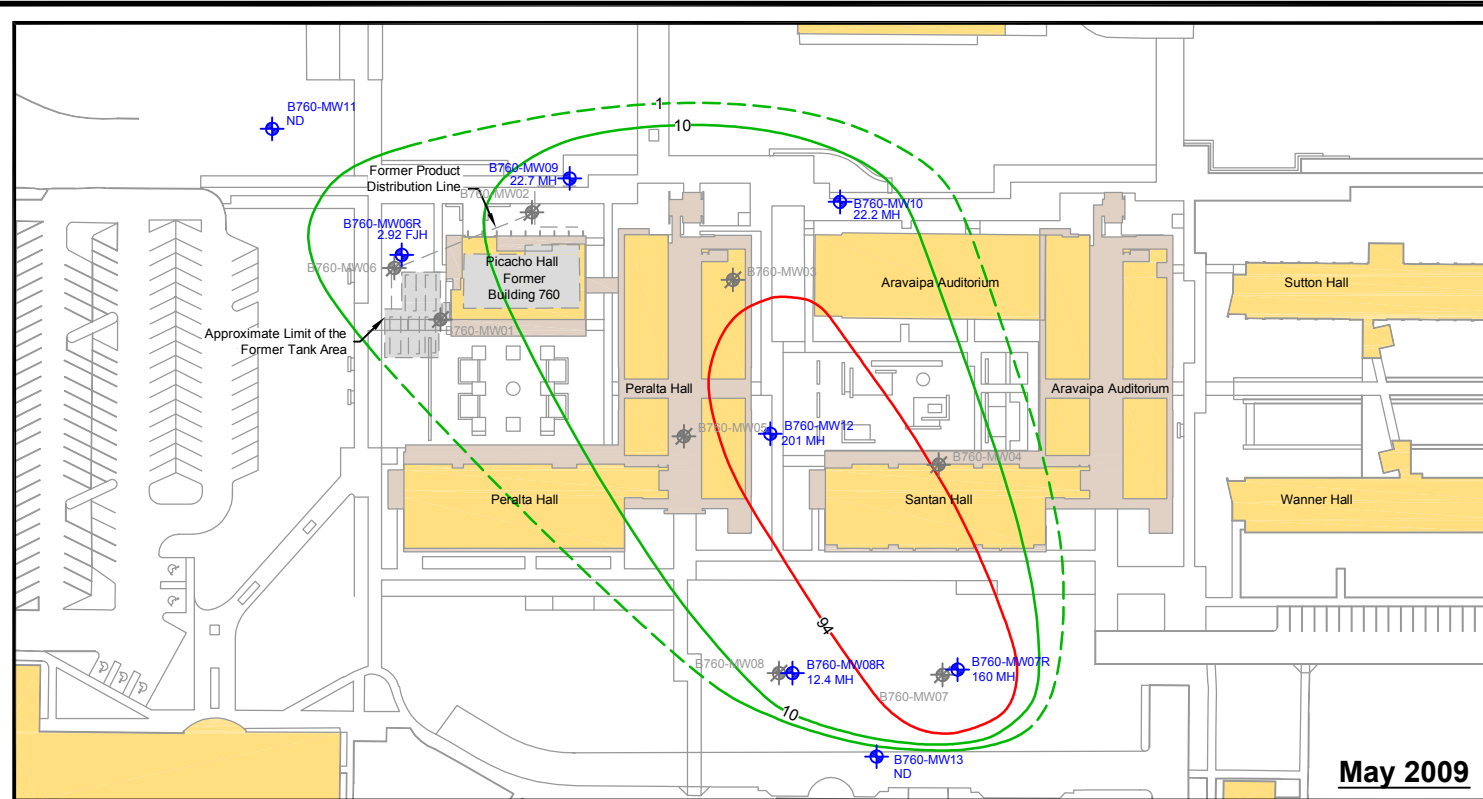
ST035
Total Xylenes Concentrations
in Groundwater

Former Williams Air Force Base
Mesa, Arizona

ST035_Concs_OT.dwg

Figure 3-7

File: Q:\Williams_AFB\Drawings\CADD\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_Concs_OT.dwg Layout: Fig 3-8 Plotted: Apr 29, 2010 - 2:50pm



Legend

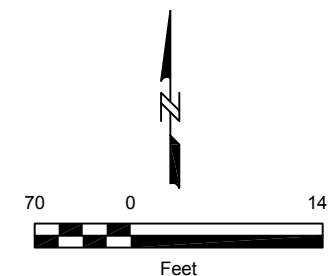
- Existing Building
- Canopy/Covered Walkway
- Location of Former Building 760 and Associated Structures

- Monitoring Well Location
- Abandoned Monitoring Well Location
- MTBE Concentration Contour (Dashed Where Inferred)
- MTBE ADEQ Corrective Action Standard Contour (94 ug/L) (Dashed Where Inferred)

- F - The analyte was positively identified but the associated numerical value is below the RL. The quantitation is an estimate.
- J - The analyte was positively identified; the quantitation is an estimate.
- M - The concentration is estimated due to a matrix effect.
- H - Biased high.

ND - Not Detected

Note:
Concentrations presented in micrograms per liter (ug/L).



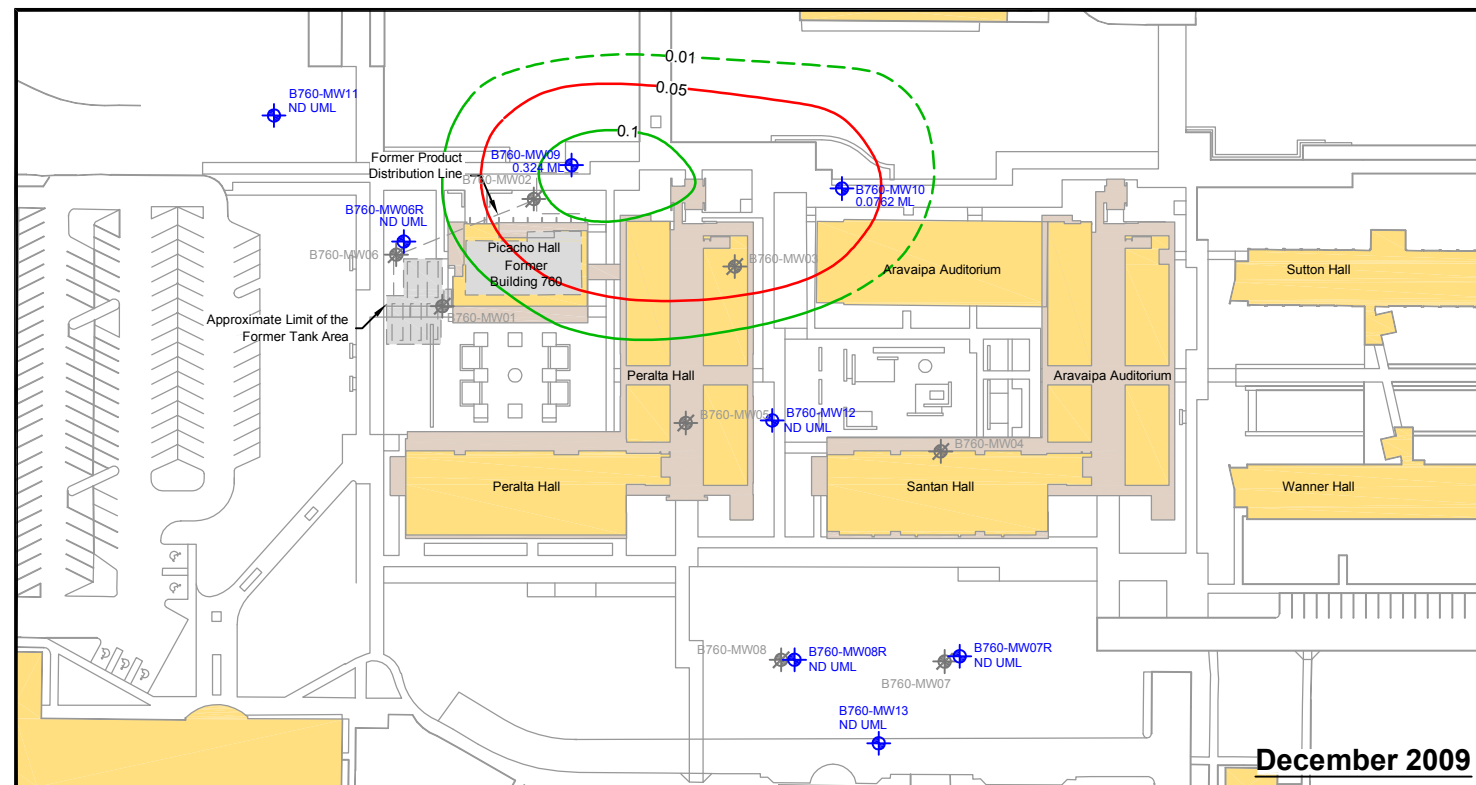
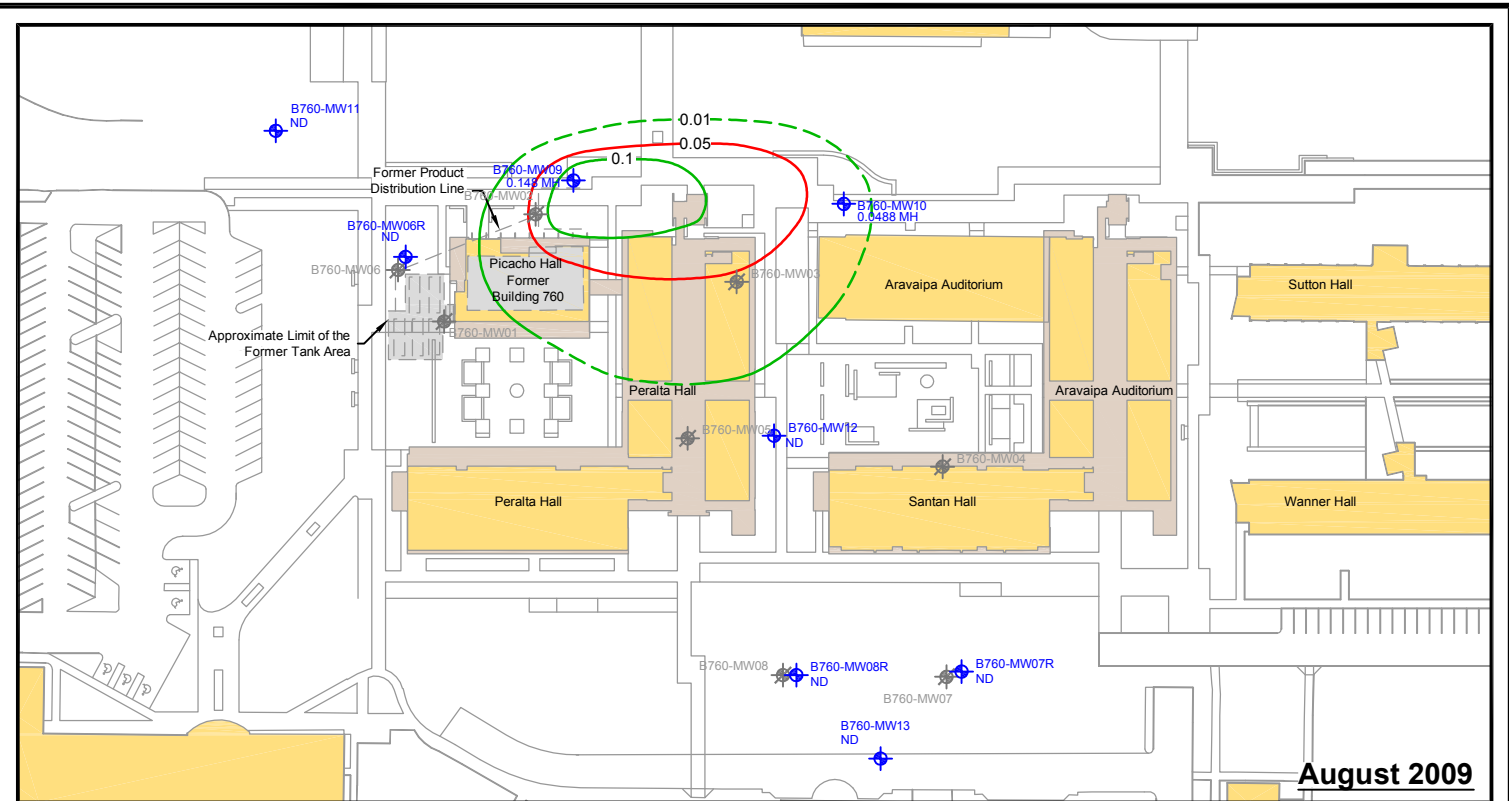
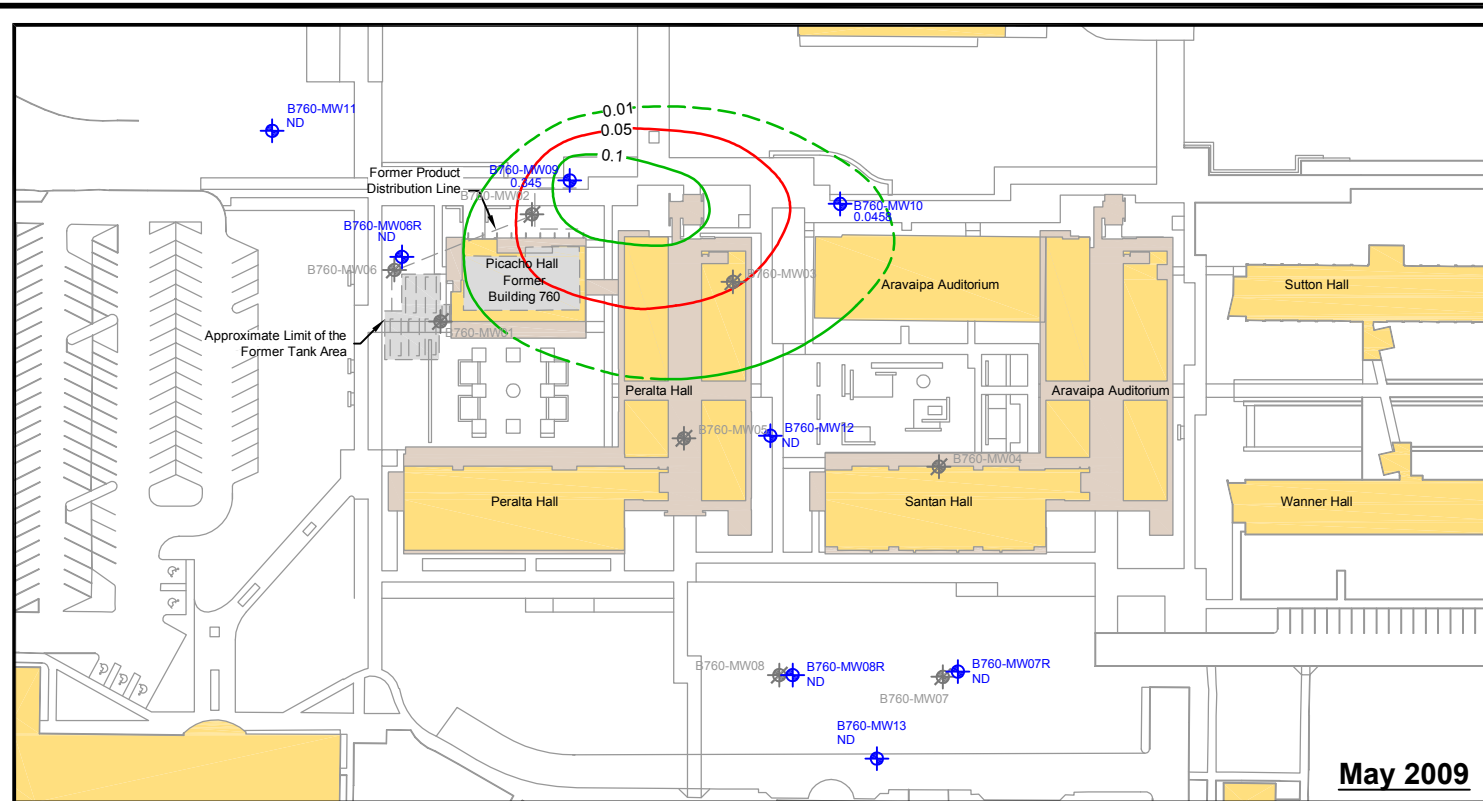
**ST035
MTBE Concentrations
in Groundwater**

Former Williams Air Force Base
Mesa, Arizona

ST035_Concs_OT.dwg

Figure 3-8

File: Q:\Williams_AFB\Drawings\CA001\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_Concs_OT.dwg Layout: Fig 3-9 Plotted: Apr 29, 2010 - 2:51pm



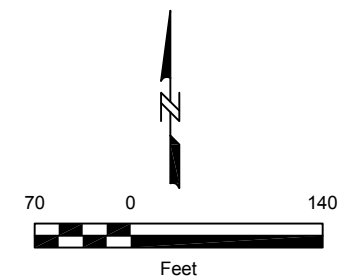
Legend

- Existing Building
- Canopy/Covered Walkway
- Location of Former Building 760 and Associated Structures

- Monitoring Well Location
- Abandoned Monitoring Well Location
- EDB Concentration Contour (Dashed Where Inferred)
- EDB ADEQ Tier 1 Corrective Action Standard Contour (0.05 ug/L) (Dashed Where Inferred)

- M - The concentration is estimated due to a matrix effect.
- H - Biased high.
- L - Biased low.
- U - The analyte was analyzed for, but not detected at the corresponding quantitation limit.
- ND - Not Detected

Note:
Concentrations presented in micrograms per liter (ug/L).



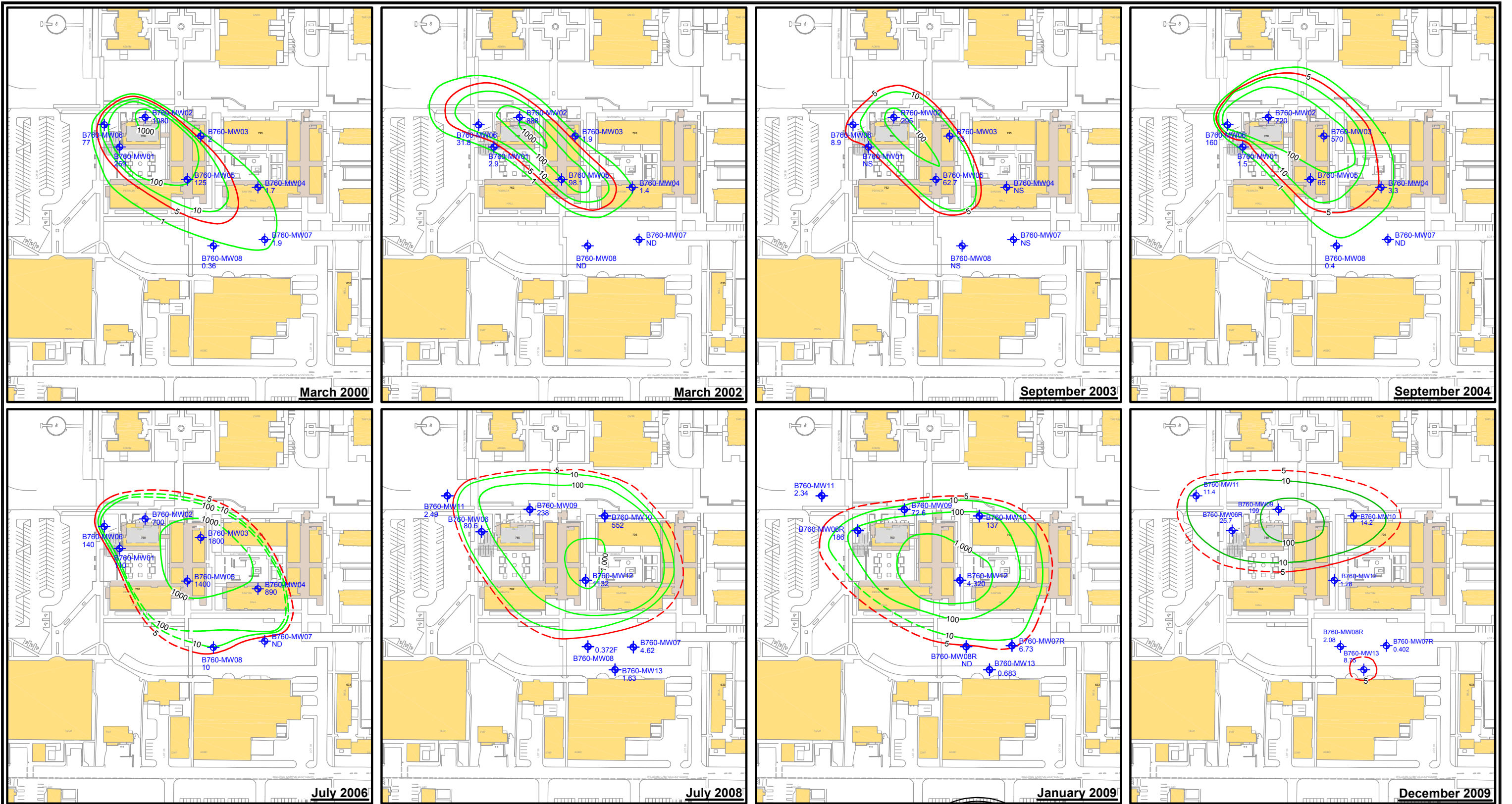
**ST035
EDB Concentrations
in Groundwater**

Former Williams Air Force Base
Mesa, Arizona

ST035_Concs_OT.dwg

Figure 3-9

File: Q:\Williams_AFB\Drawings\CA001\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_Benz_OT.dwg Layout: Fig 3-10 Plotted: Apr 29, 2010 - 2:47pm

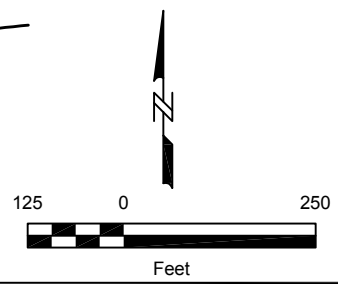
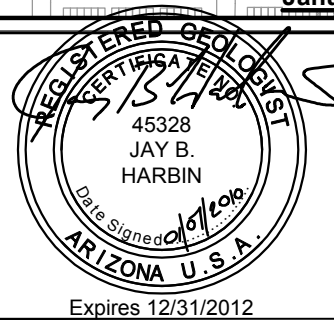


Legend

- Existing Building
- Razed Building
- Monitoring Well Location
- ND Not Detected
- NS Not Sampled
- Benzene Concentration Contour (Dashed Where Inferred)
- Benzene Tier 1 Corrective Action Standard Contour (5 µg/L) (Dashed Where Inferred)

Note:
Concentrations presented in micrograms per liter (µg/L).

The analyte was positively identified but the associated numerical value is below the reporting limit. The quantitation is an estimate.

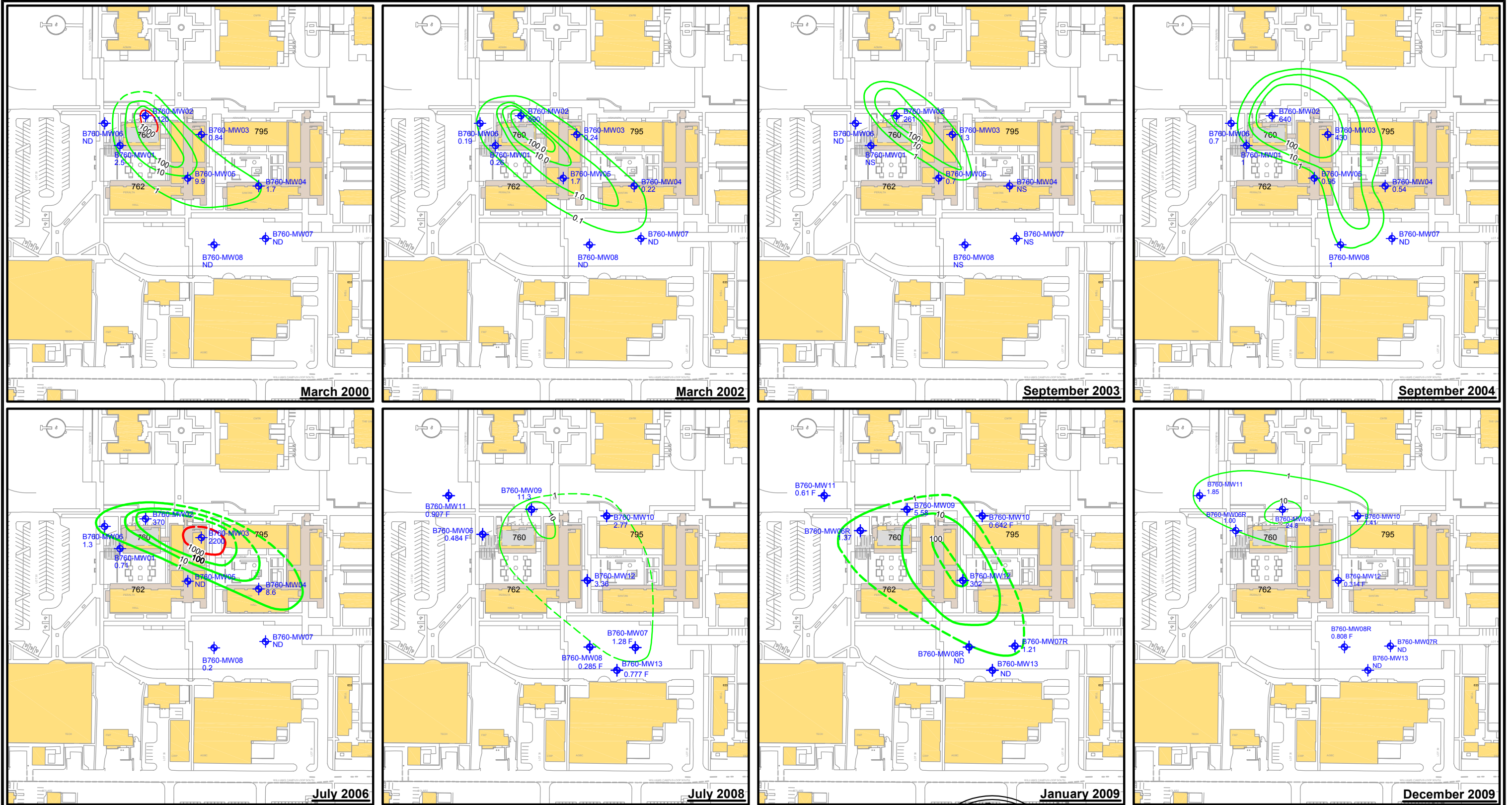


ST035
Benzene Concentrations
Over Time

Former Williams Air Force Base
Mesa, Arizona

ST035_Benz_OT.dwg Figure 3-10

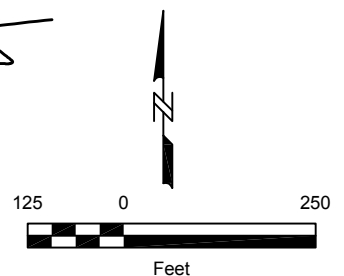
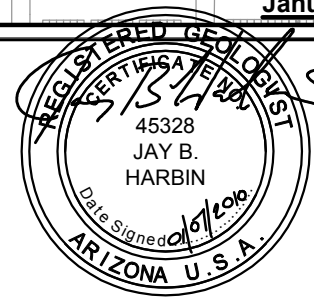
File: Q:\Williams_AFB\Drawings\CADD\ST035\2009_Annual_Monitoring_Report\2009_Annual\Final\ST035_Tol_OT.dwg Layout: Fig 3-11 Plotted: Apr 29, 2010 - 2:59pm



Legend

- Existing Building
- Razed Building
- Monitoring Well Location
- ND Not Detected
- NS Not Sampled
- Toluene Concentration Contour (Dashed Where Inferred)
- Toluene Tier 1 Corrective Action Standard Contour (1000 µg/L) (Dashed Where Inferred)
- F The analyte was positively identified but the associated numerical value is below the reporting limit. The quantitation is an estimate.

Note:
Concentrations presented in micrograms per liter (µg/L).



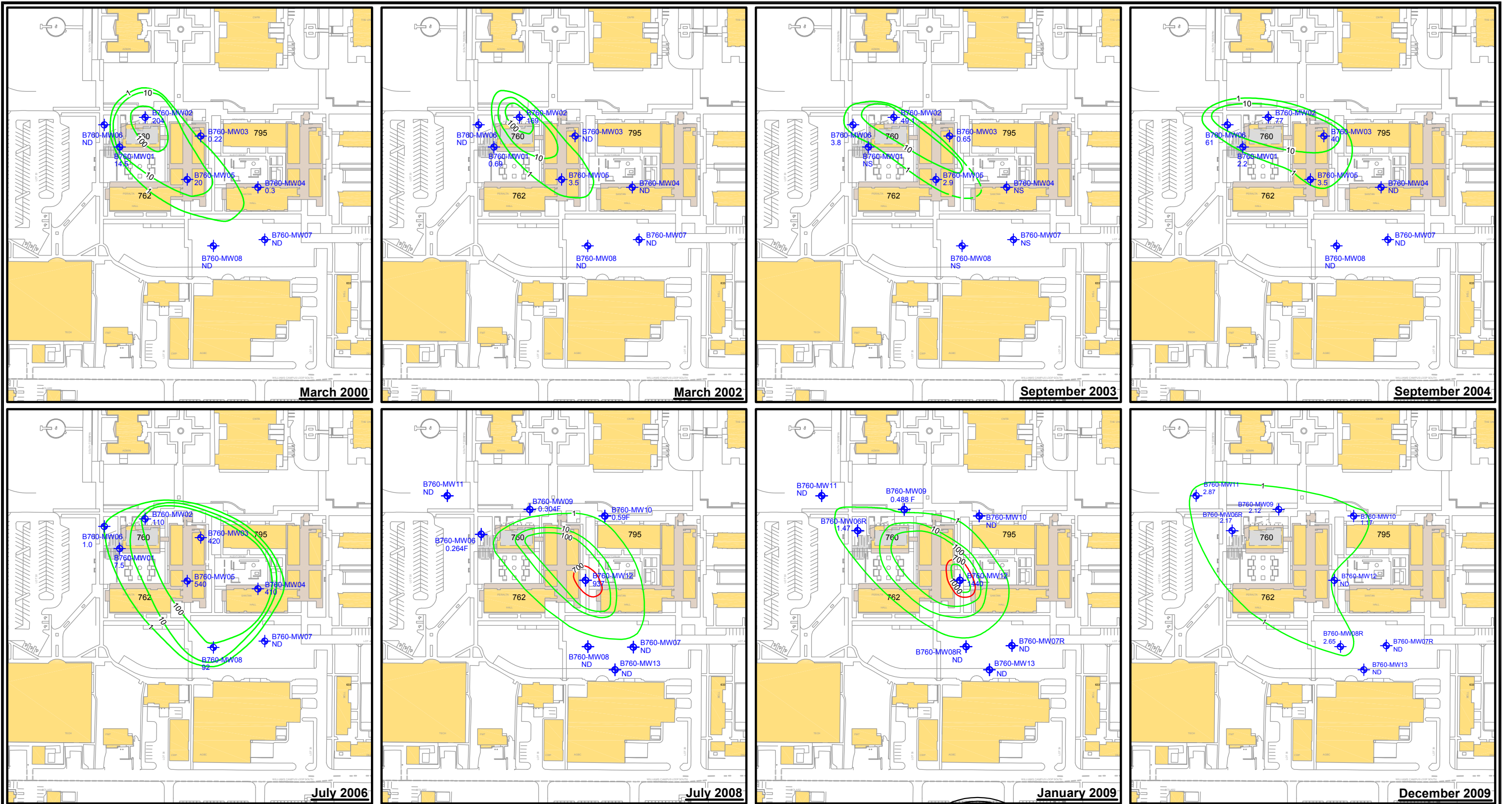
**ST035
Toluene Concentrations
Over Time**

Former Williams Air Force Base
Mesa, Arizona

ST035_Tol_OT.dwg

Figure 3-11

File: Q:\Williams_AFB\Drawings\CA001\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_EB_OT.dwg Layout: Fig 3-12 Plotted: Apr 29, 2010 - 2:52pm

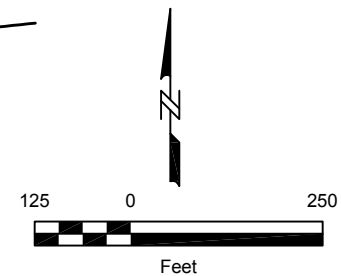
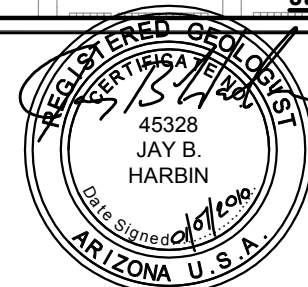


Legend

- Existing Building
- Razed Building
- Monitoring Well Location
- ND Not Detected
- NS Not Sampled
- Ethylbenzene Concentration Contour (Dashed Where Inferred)
- Ethylbenzene Tier I Corrective Action Standard Contour (700 µg/L)

Note:
Concentrations presented in
micrograms per liter (µg/L).

The analyte was positively identified but the associated numerical value is below the reporting limit. The quantitation is an estimate.



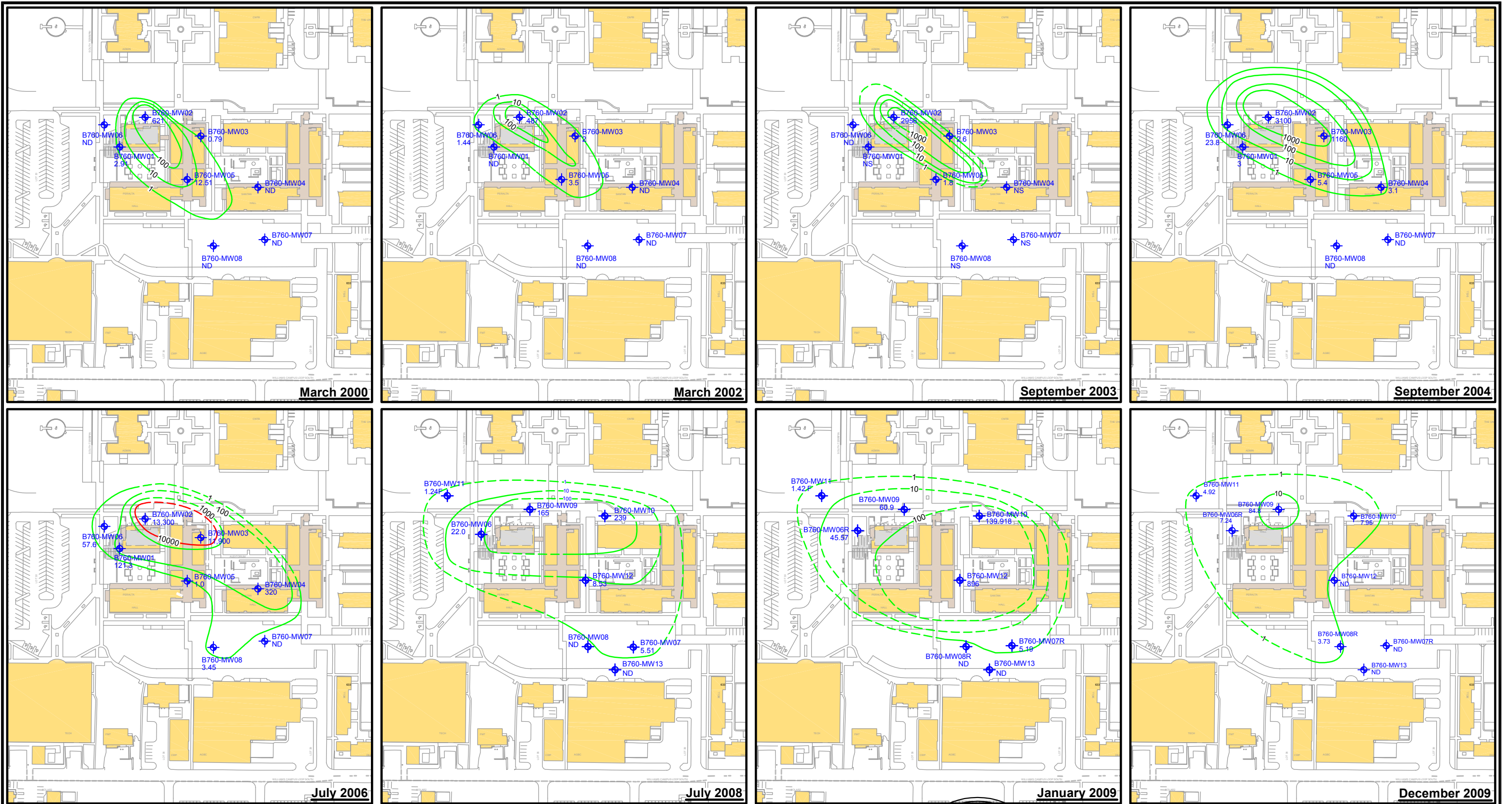
**ST035
Ethylbenzene Concentrations
Over Time**

Former Williams Air Force Base
Mesa, Arizona

ST035_EB_OT.dwg

Figure 3-12

File: Q:\Williams_AFB\Drawings\CA00\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\2009_Annual\ST035_Ttl_Xy_OT.dwg Layout: Fig 3-13 Plotted: Apr 29, 2010 - 3:00pm

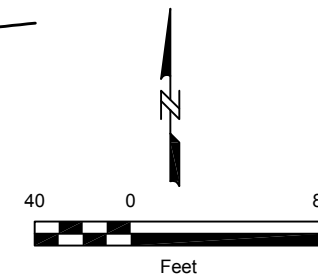
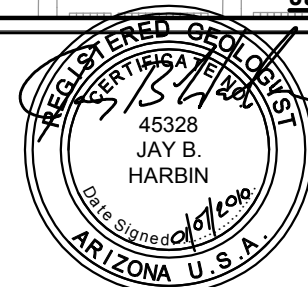


Legend

- Existing Building
- Razed Building
- Monitoring Well Location
- ND Not Detected
- NS Not Sampled
- Total Xylenes Concentration Contour (Dashed Where Inferred)
- Total Xylenes Tier 1 Corrective Action Standard Contour (10,000 µg/L) (Dashed Where Inferred)

Note:
Concentrations presented in
micrograms per liter (µg/L).

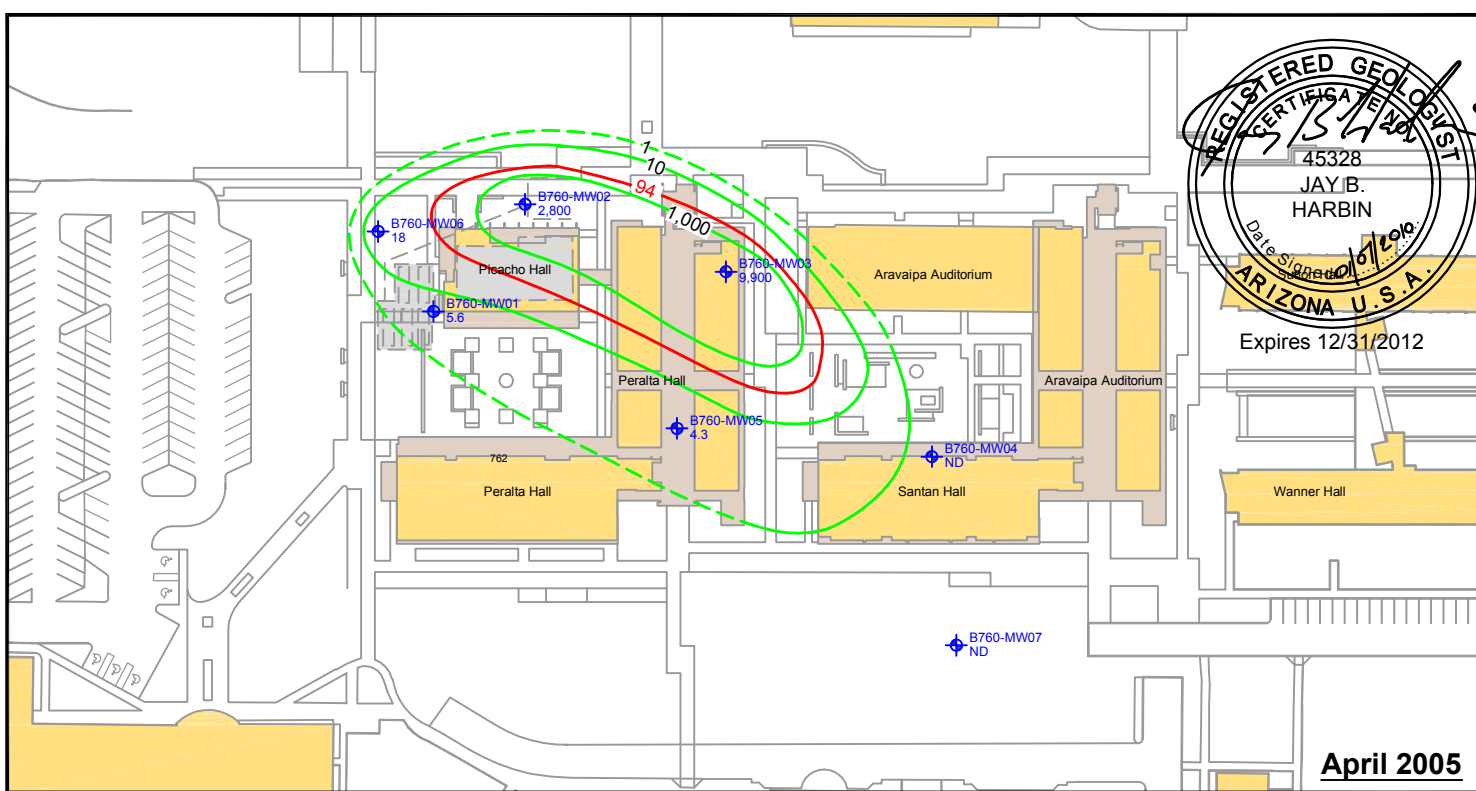
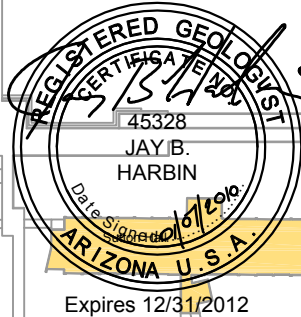
The analyte was positively identified but the associated numerical value is below the reporting limit. The quotation is an estimate.



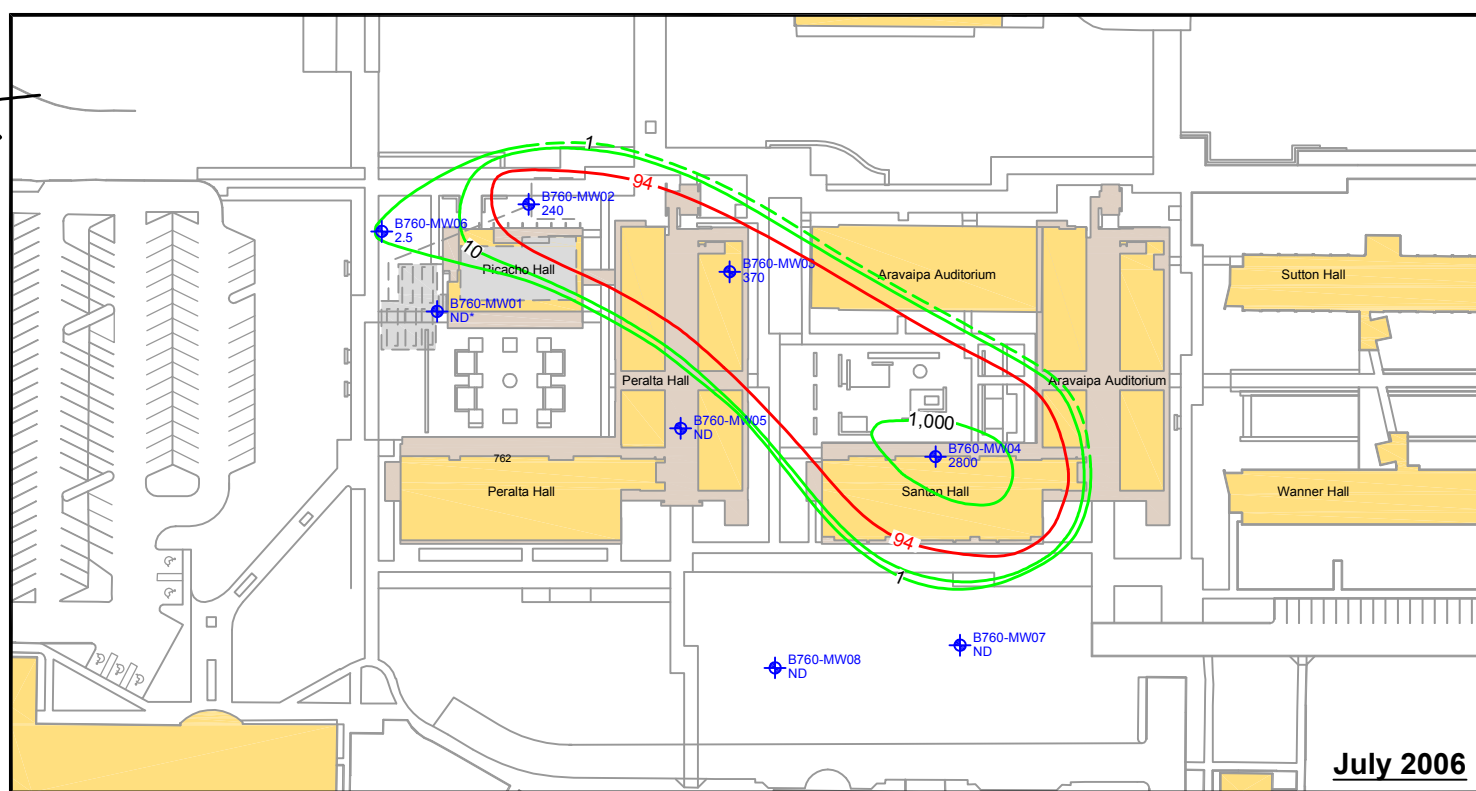
ST035	
Total Xylenes Concentrations Over Time	
Former Williams Air Force Base Mesa, Arizona	
ST035_Ttl_Xy_OT.dwg	Figure 3-13

Expires 12/31/2012

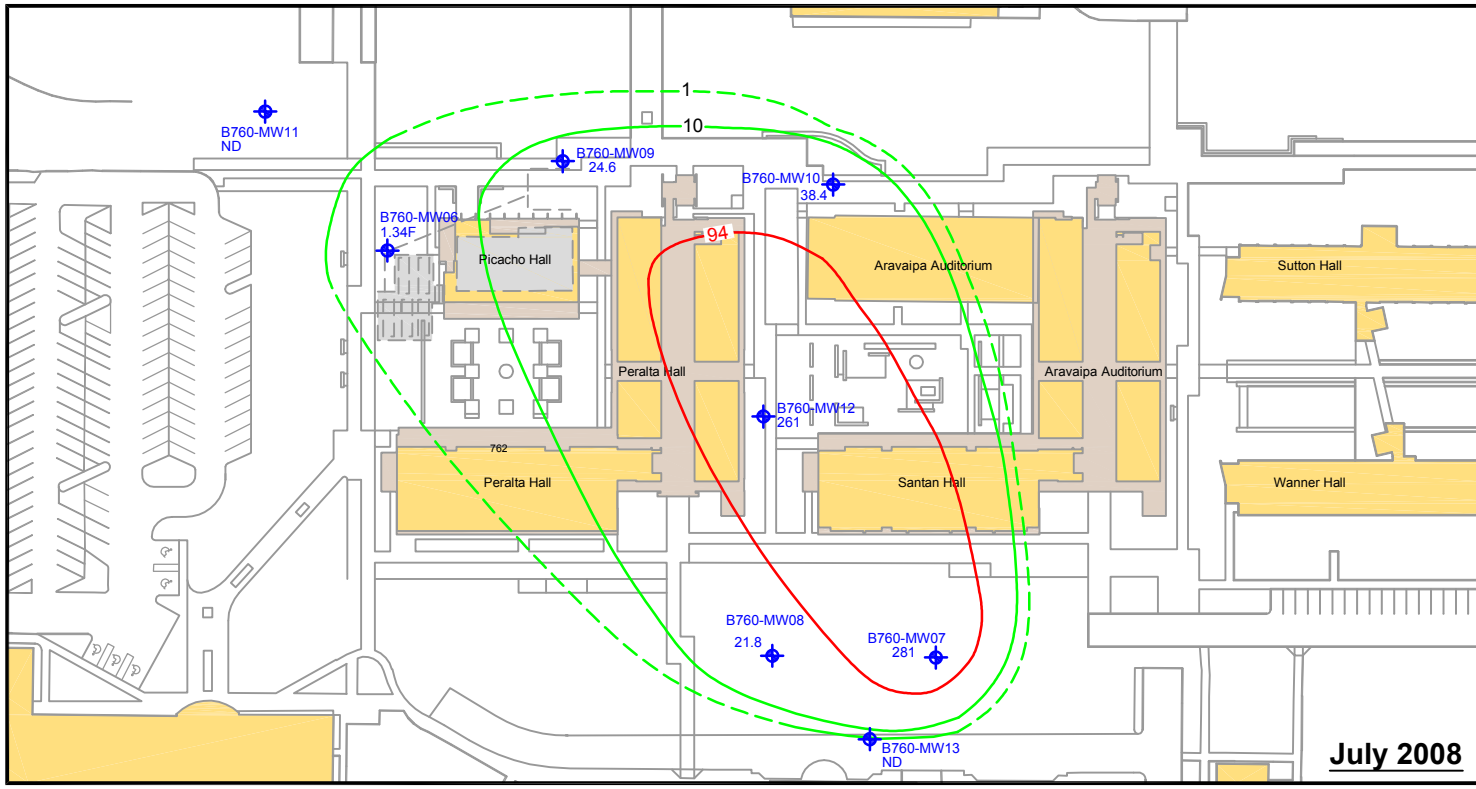
File: Q:\Williams_AFB\Drawings\CA00\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_MTBE_OT.dwg Layout: Fig 3-14 Plotted: Apr 29, 2010 - 2:54pm



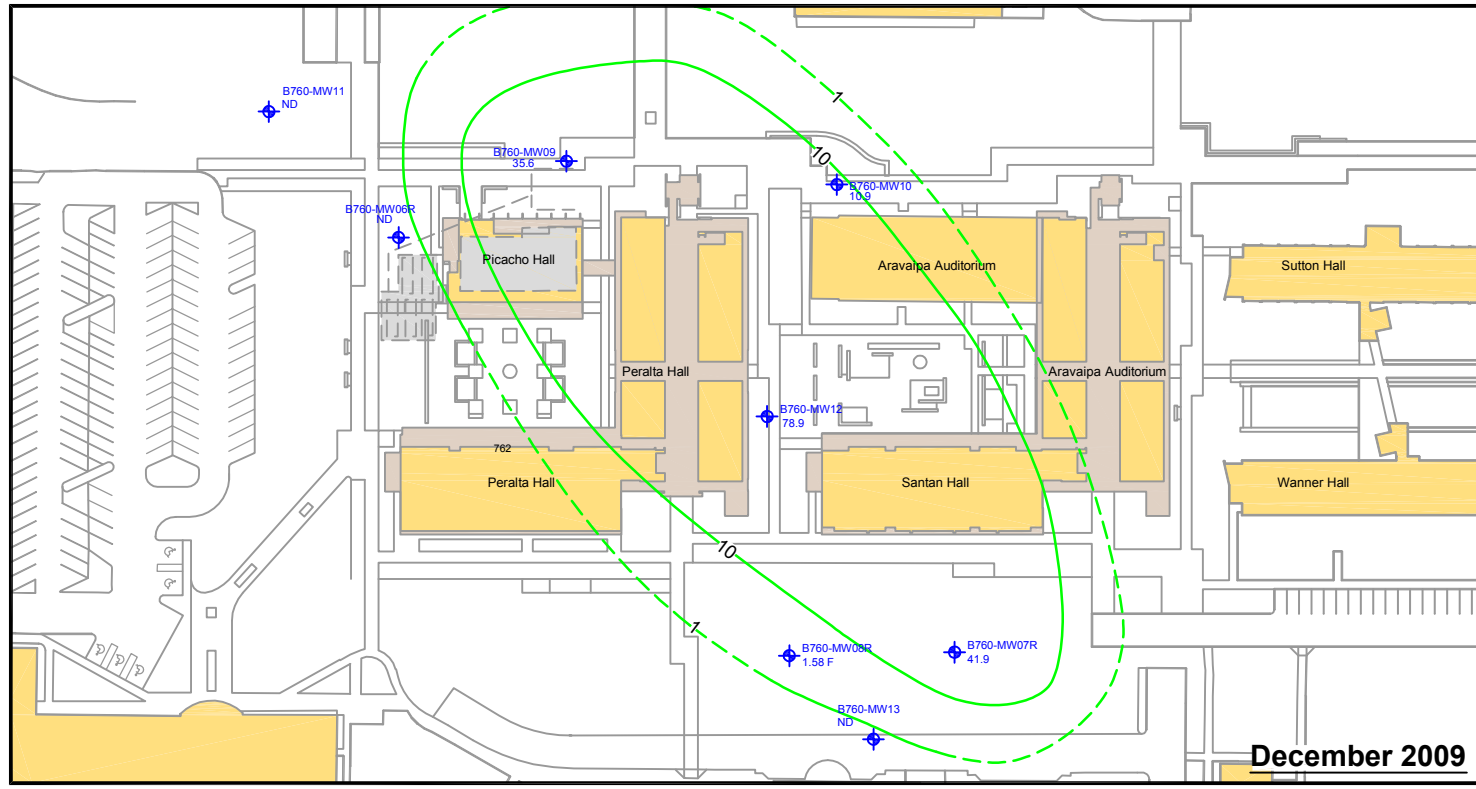
April 2005



July 2006



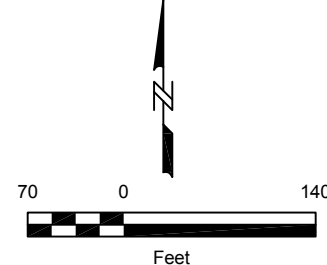
July 2008



December 2009

Legend	
Existing Building	ND Not Detected
Canopy/Covered Walkway	Monitoring Well Location
Location of Former Building 760 and Associated Structures	MTBE Concentration Contour (Dashed Where Inferred)
Note: Concentrations presented in micrograms per liter (ug/L).	MTBE ADEQ Corrective Action Standard Contour (94 ug/L) (Dashed Where Inferred)

F The analyte was positively identified but the associated numerical value is below the reporting limit. The quantitation is an estimate.
* MW01 data were rejected.

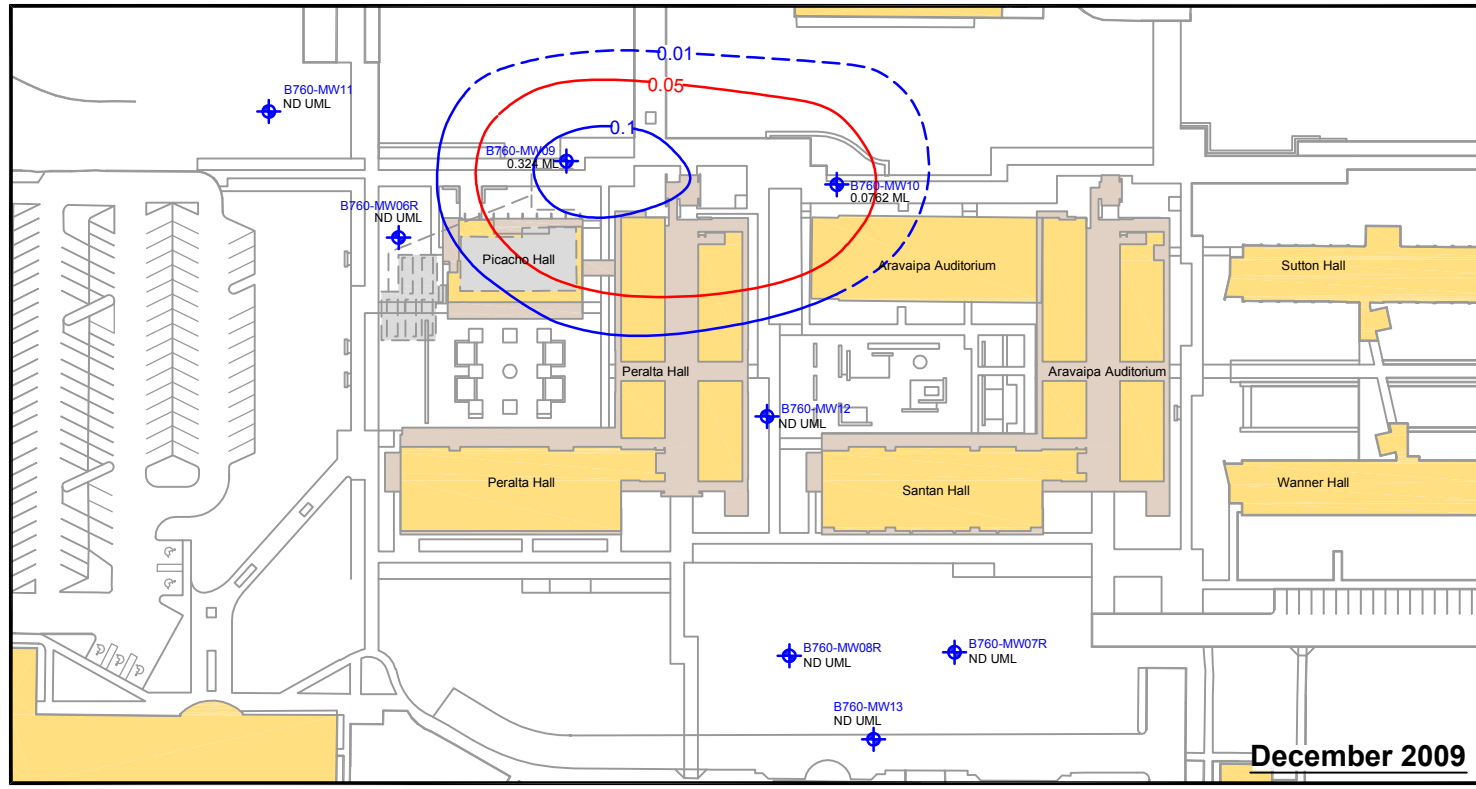
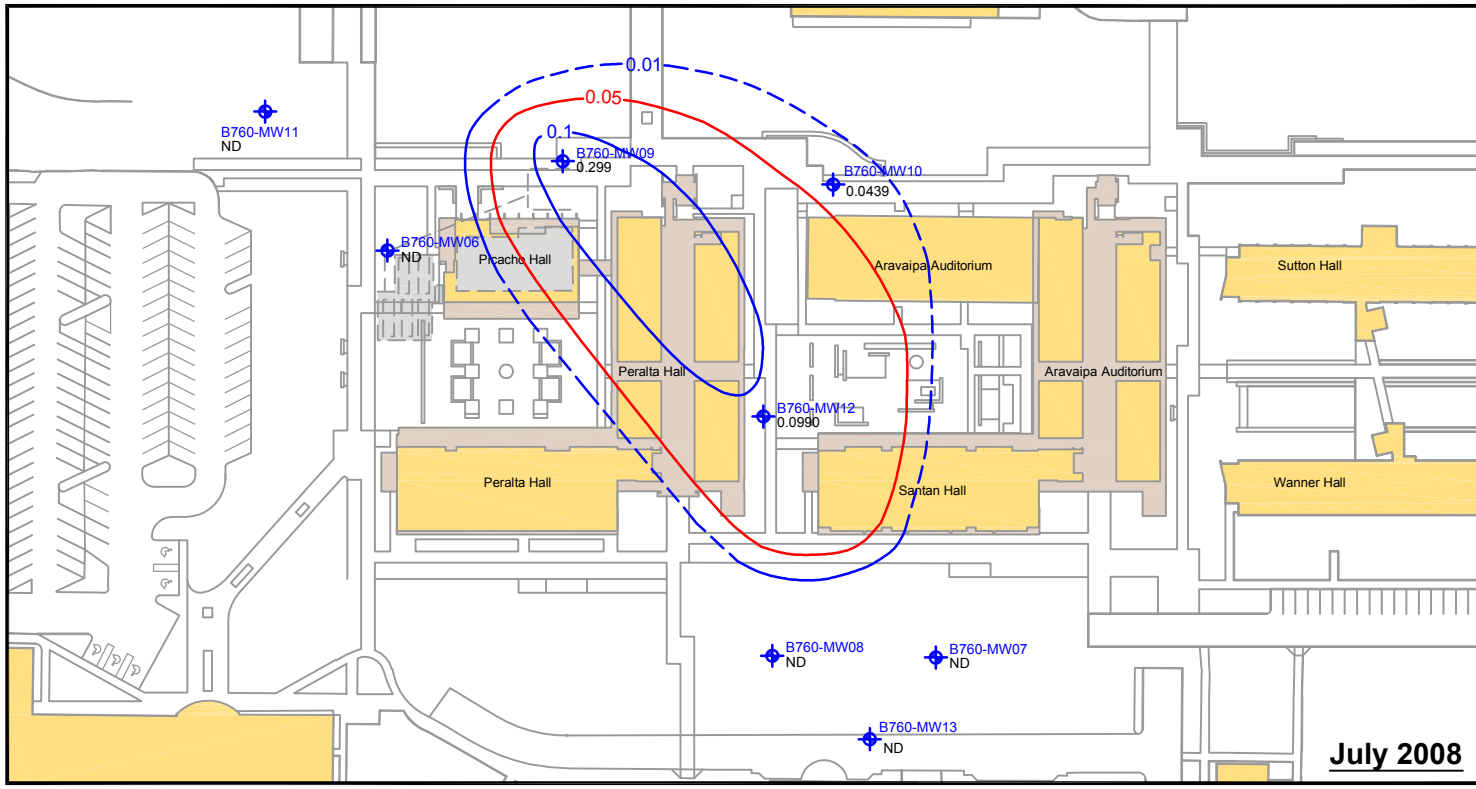
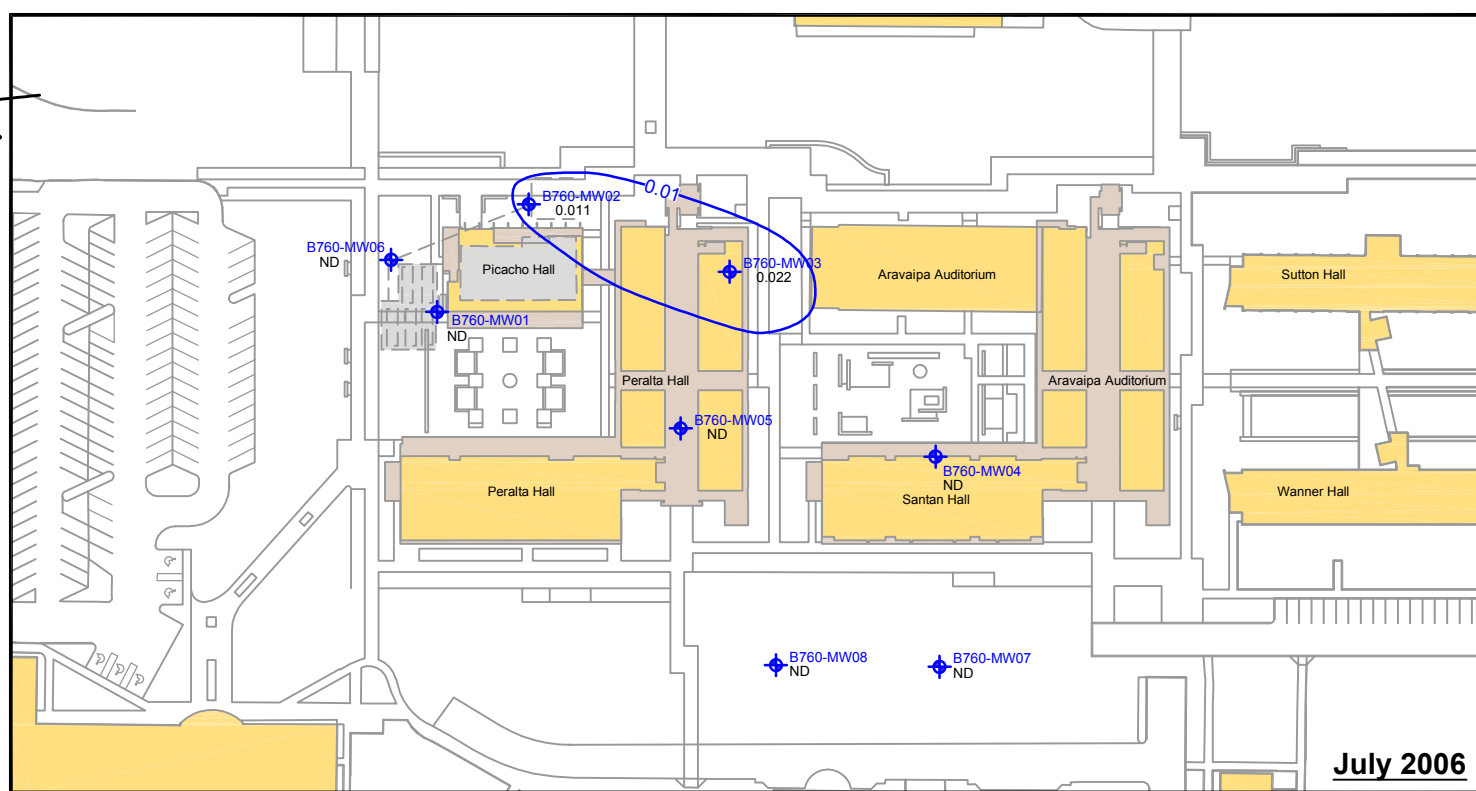
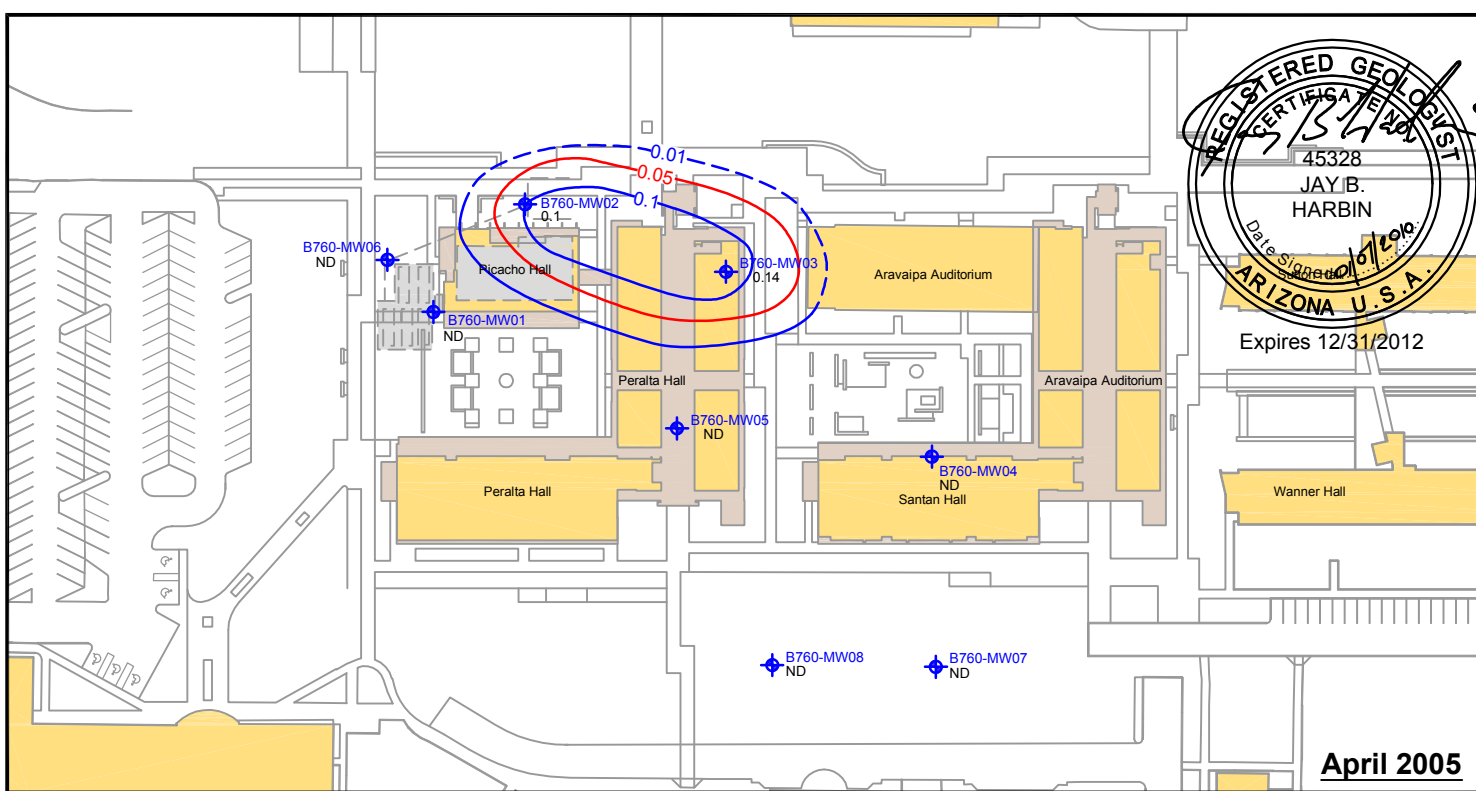
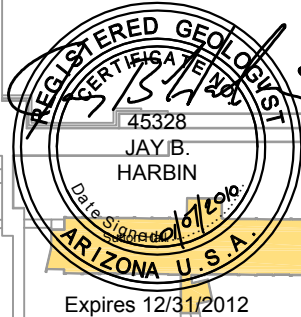


**ST035
MTBE Concentrations
Over Time**

Former Williams Air Force Base
Mesa, Arizona

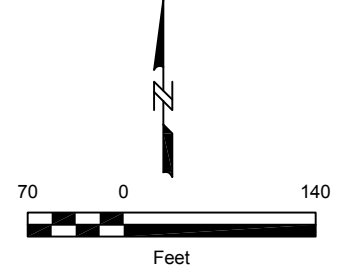
ST035_MTBE_OT.dwg Figure 3-14

File: Q:\Williams_AFB\Drawings\CA001\ST035\2009_Annual_Monitoring_Report\2009_Annual_Monitoring_Report\Final\ST035_EDB_OT.dwg Layout: Fig 3-15 Plotted: Apr 29, 2010 - 2:53pm



- Legend**
- Existing Building
 - Canopy/Covered Walkway
 - Location of Former Building 760 and Associated Structures
 - Monitoring Well Location
 - EDB Concentration Contour (Dashed Where Inferred)
 - EDB ADEQ Corrective Action Standard Contour (0.05 µg/L) (Dashed Where Inferred)

- J The analyte was positively identified; the quantitation is an estimate.
- H Biased high.
- ND Not Detected
- NS Not Sampled
- ★ MW01 data were rejected.



**ST035
EDB Concentrations
Over Time**

Former Williams Air Force Base
Mesa, Arizona

ST035_EDB_OT.dwg Figure 3-15

4.0 SUMMARY AND RECOMMENDATIONS

4.1 Summary

The following subsections summarize ST035 groundwater monitoring results.

4.1.1 Groundwater Levels

November 2009 groundwater levels ranged from 137.25 to 143.95 ft BTOC at elevations between 1,189.71 and 1,191.67 ft MSL. Based on the May 2009, August 2009, and November 2009 measured groundwater elevations, the groundwater is flowing in a southeasterly direction at a gradient of 0.003. Groundwater levels continue to rise (average of 2 ft per year).

The existing ST035 wells were constructed using 40 ft of well screen with approximately 30 ft of the screen above the water table in anticipation of rising water levels; therefore, rising water levels are not expected to completely submerge the well screens for 10 years or more.

4.1.2 Groundwater Results

Benzene and EDB were detected above ADEQ UST Tier 1 Corrective Action Standards during all three sampling events. MTBE was detected above the ADEQ UST Tier 1 Corrective Action Standard in May and August 2009 but not in December 2009. The historical plots presented in Section 3 of the ST035 COCs show the changes in lateral extent and migration of the dissolved petroleum hydrocarbon plume over the time period 2000-2009 (BTEX) and 2005-2009 (MTBE and EDB). In 2000, the size of the benzene plume above 1,000 µg/L was less than 0.10 acre (including only B760-MW02), located at the former dispensers. By 2006, benzene concentrations above 1,000 µg/L were limited to wells downgradient of B760-MW02 and the lateral extent of the plume greater than 1,000 µg/L was 0.8 acre. Similarly, the edge of the plume had also migrated further downgradient. By 2006, toluene, total xylenes, MTBE, and EDB were detected above ADEQ UST Tier 1 Corrective Action Standards.

The May, August, and December 2009 sampling rounds show a contraction of the benzene plume to below 1,000 µg/L, with the area of highest benzene concentration centered over the former dispensers (original location of gasoline release). In December 2009, only benzene and EDB were detected above ADEQ Tier 1 Corrective Action Standards. Benzene was detected below the ADEQ Tier 1 Corrective Action Standard during both the August and December 2009 sampling rounds in B760-MW12, which had exhibited the highest concentrations in January 2009. Benzene was also detected above the ADEQ Tier 1 Corrective Action Standard in upgradient well B760-MW11 in May and December 2009, which suggests that the process of diffusion, or the tendency of dissolved constituents to move from areas of higher concentrations to lower concentrations, may be occurring at the site.

4.2 Recommendations

The following are planned activities for 2010:

- Continue groundwater monitoring activities in accordance with the *Final 2010 Site ST035 Former Building 760 Groundwater Monitoring Work Plan* (URS, December 2009);
- As requested by ADEQ, add 1,2-DCA to the analyte list;

- Complete installation of the SVE system to address contaminants in the source area contributing to groundwater contamination (Spring 2010); and
- Evaluate groundwater remedies to treat the COC plume not only at the source areas (near the former UST tank field and dispenser islands), but also downgradient.

As presented in this Annual Groundwater Monitoring Report, COC concentrations (particularly benzene) in groundwater were generally increasing through January 2009; however, analytical results from the May 2009, August 2009, and December 2009 quarterly sampling events indicate the plume is contracting and concentrations are decreasing. One exception is in upgradient monitoring well B760-MW11, which exhibited concentrations greater than the ADEQ Tier 1 Corrective Action Standard in May and December 2009. The following are recommended as supplemental characterization activities to better understand the recent fluctuating COC concentrations and changing plume configurations:

- Assess the ability of the newly installed monitoring wells (B760-MW14 through B760-MW18) to provide plume delineation;
- Evaluate COC fate and transport;
- Determine site-specific hydrogeologic conditions (hydraulic conductivity, vertical gradients, groundwater velocity, saturated zone thickness, etc);
- Assess hydrogeologic conditions over time and impact on the fate and transport of COCs;
- Evaluate potential causes for COC migration beyond the existing monitoring well network over the time period between July 2006 and July 2008; and
- Determine the impact of recent construction activities on COC fate and transport.

5.0 REFERENCES

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Camp Dresser McKee (CDM), July 1997. *Underground Storage Tank Supplemental Site Characterization Report, UST No. 760 (ADEQ Nos. 94-99, LUST No. 4715.2069), Williams AFB, Mesa, Arizona.* Oak Ridge, TN.

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URS Corporation (URS), December 2009. *Final 2010 Site ST035 Former Building 760 Groundwater Monitoring Work Plan, Former Williams Air Force Base, Mesa, Arizona.* Austin, TX.

URS, June 2009. *Final Basewide Sampling and Analysis Plan, Former Williams Air Force Base, Mesa, Arizona.* Austin, TX.

URS, May 2009a. *Final 2009 Site ST035 Former Building 760 Groundwater Monitoring Work Plan, Former Williams Air Force Base, Mesa, Arizona.* Austin, TX.

URS, May 2009b. *Final Solid Waste Management Plan, Former Williams Air Force Base, Mesa, Arizona.* Austin, TX.

Appendix A

Field Forms

Appendix A – Table of Contents

- A.1 May 2009 Field Forms
- A.2 August 2009 Field Forms
- A.3 November/December 2009 Field Forms

Appendix A.1
May 2009 Field Forms

Adam + Derrick

URS
Former Williams Air Force Base
Water Level Survey
ST035

Well ID	Date	Constructed Total Depth (ft bgs)	Constructed Total Depth (ft BTOC)	Surface Completion	Measured TD (ft BTOC)	DTW (ft BTOC)		DTW (ft BTOC)		DTW (ft BTOC)		DTW (ft BTOC)		Condition of Well*
						Time	Reading	Time	Reading	Time	Reading	Time	Reading	
B760-MW06R	5/4/09	159.5	158.9	Flush-Mount	159.0 ^{0.0} 159.1 ^{0.2}	0957	142.72	1000	142.72	1003	142.72			good
B760-MW07R	5/4/09	156.5	156.26	Flush-Mount	156.4 ^{0.2} 156.5 ^{0.3}	1100	144.84	1103	144.85	1106	144.85			
B760-MW08R	5/4/09	157.5	157.49	Flush-Mount	156.8 ^{0.2} 155.7 ^{0.8}	1046	143.85	1049	143.86	1052	143.86			good
B760-MW09	5/4/09	155	154.46	Flush-Mount	155.5 ^{0.5}	1021	142.97	1024	142.97	1027	142.97			good
B760-MW10		155	154.75	Flush-Mount										
B760-MW11		155	154.51	Flush-Mount										
B760-MW12		156.5	156.24	Flush-Mount										
B760-MW13		155	154.74	Flush-Mount										

*Note of lock is missing, well cap missing, label missing, etc.

KMIST
 correction factor: 0.27
 for TD ~~0.27~~

URS
 Former Williams Air Force Base
 Water Level Survey
 ST035

Well ID	Date	Constructed Total Depth (ft bgs)	Constructed Total Depth (ft BTOC)	Surface Completion	Measured TD (ft BTOC)	DTW (ft BTOC)		DTW (ft BTOC)		DTW (ft BTOC)		DTW (ft BTOC)		Condition of Well*
						Time	Reading	Time	Reading	Time	Reading	Time	Reading	
B760-MW06R		159.5	158.9	Flush-Mount										
B760-MW07R		156.5	156.26	Flush-Mount										
B760-MW08R		157.5	157.49	Flush-Mount										
B760-MW09		155	154.46	Flush-Mount										
B760-MW10	5/4/09	155	154.75	Flush-Mount	155.65	0955	144.39	0958	144.39	1001	144.39			
B760-MW11	5/4/09	155	154.51	5/4/09 km Flush-Mount	153.59 155.7	0937	138.28	0941	138.29	0944	138.29			
B760-MW12	5/4/09	158.5	156.24	5/4/09 km Flush-Mount	155.51 157.74	1017	144.35	1020	144.35	1023	144.35			hydrocarbon odor
B760-MW13	5/4/09	155	154.74	Flush-Mount	155.37	1035	145.15	1039	145.15	1042	145.15			

*Note of lock is missing, well cap missing, label missing, etc.

Monitoring Well Purging Form

Project: Former Williams AFB Date: 5/6/09
 Location: ST035 - Former Building 760 Field Personnel: K Mayer + S Tivnan
 Well Identification: B760-MW06F Initial Water Level: 142.48 ft BTOC
 Well Diameter: 4" Well Depth: 159.52 ft BTOC
 Screen Interval: 119-159 ft bgs Well Volume: 17.04 ft x 0.65 x 3 = 33.23 gal
 Pump/Purging Device: Grundfos Redi-fo submersible pump Pump Intake Depth: 147.5 ft BTOC
 Sample ID/Sample Time: WG-B760-MW06F-053 / 1535 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) ±1 °C	Specific Conductivity (mS/cm) ±5%	Dissolved Oxygen (mg/L or %) ±10%	pH (SU) ±0.1	Oxidation-Reduction Potential (mV) ±10 mV	Turbidity (NTU) <15 NTUs	Comments
1455	Pump on									
1500	142.56	240	0	30.56	3.907	0.49	6.72	37	8.590	In Situ on, 265.50 Hz
1506	142.55	200	0.5	32.23	4.055	0.61	6.67	32	7.815	Petroleum odor, strong
1510	142.51	200	0.75	33.51	4.147	0.65	6.65	32	9.288	
1515	142.50	200	0.75	34.38	4.220	0.63	6.64	27	10.26	Placed cloth over excess tubing to prevent heat transfer.
1518	142.50	200	1.0	34.41	4.215	0.60	6.64	23	11.00	265.80 Hz
1524	142.49	200	1.25	33.63	4.173	0.61	6.65	11	14.80	
1527	142.49	200	1.25	33.38	4.163	0.65	6.65	8	14.32	
1530	142.49	200	1.50	33.35	4.168	0.69	6.65	7	10.65	
1534	142.49	200	1.50	33.24	4.164	0.76	6.66	6	8.696	
1535	Collect Sample		WG-B760-MW06F-053							
1538	Pump off									

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/hr)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/hr)	0.03	0.15	0.61	1.40	2.46	5.56	9.88	15.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 5/6/09
 Location: ST035 - Former Building 760 Field Personnel: KMayer, S. Tivnan
 Well Identification: B760-MW07R Initial Water Level: 144.67 ft BTOC
 Well Diameter: 4" Well Depth: 156.48 ft BTOC (5/4/09)
 Screen Interval: 116-156 ft bgs Well Volume: 11.81 ft x 0.105 gal/ft = 7.67 x 3 = 23 gal
 Pump/Purging Device: Grundfos Redi-Flo Submersible Pump Intake Depth: 150 ft BTOC
 Sample ID/Sample Time: WG-B760-MW07R-050 / 1155 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) ±0.1 °C	Specific Conductivity (mS/cm) ±5%	Dissolved Oxygen (mg/L or %) ±10%	pH (SU) ±0.1	Oxidation-Reduction Potential (mV) ±10 mV	Turbidity (NTU) <15 NTUs	Comments
1123	Pump On	—	—	—	—	—	—	—	—	
—	In Situ	—	—	—	—	—	—	—	—	In Situ
1140	144.96	160	0	30.02	9.451	0.92	6.42	84	9.099	In Situ
1146	144.90	160	0.5	30.15	9.470	0.81	6.42	75	10.84	
1149	144.89	160	0.75	30.18	9.462	0.81	6.41	71	11.48	
1152	144.81	140	0.75	30.18	9.451	0.83	6.42	69	12.04	
1155	Collected sample WG- 87 B760-MW-07R-050									
1159	Pump off	—	—	—	—	—	—	—	—	

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	9.88	15.44



Monitoring Well Purging Form

Project: Former Williams AFB Date: 5/6/09
 Location: ST035 - Former Building 760 Field Personnel: EMS, ACK
 Well Identification: B760-MW08R Initial Water Level: 143.88 ft BTOC
 Well Diameter: 4" Well Depth: 156.82 ft BTOC (5/4/09)
 Screen Interval: 117-157 ft bgs Well Volume:
 Pump/Purging Device: Grundfos Redi-Flo 2 Pump Intake Depth: 147.88 ft BTOC
 Sample ID/Sample Time: W6-B7600-MW08R-056 10935 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) +/- 1 °C	Specific Conductivity (mS/cm) +/- 5%	Dissolved Oxygen (mg/L or %) +/- 10%	pH (SU) +/- 0.1	Oxidation-Reduction Potential (mV) +/- 10 mV	Turbidity (NTU) <15 NTUs	Comments
0830	144.24									start pumping
0836	144.17	500	1	28.05	5.199	1.28	6.64	-101	39.91	281.8 Hz
0840	144.18	550	1.5	28.05	5.199	1.28	6.64	-101	39.91	Reboot In-situ
0900	144.05	200	4	32.37	5.633	0.39	6.55	-107	19.62	
0905	144.06	280	4.5	32.79	5.669	0.36	6.55	-114	19.89	281.10 Hz
0910	144.05	200	5.0	32.15	5.612	0.40	6.55	-119	19.45	
0915	144.03	150	5.5	31.66	5.505	0.48	6.56	-124	19.57	
0920	144.05	300	5.8	31.84	5.609	0.49	6.56	-126	12.65	281.40 Hz
0925	144.08	400	6.25	31.40	5.568	0.53	6.55	-123	12.44	
0930	144.10	400	6.75	31.91	5.643	0.51	6.55	-126	11.22	
										silt on pump when brought to surface

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	5.44
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	9.88	15.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 5/6/09
 Location: ST035 - Former Building 760 Field Personnel: Derrick + Adam
 Well Identification: B760-MW09 Initial Water Level: 142.88 ft ft BTOC
 Well Diameter: 4" Well Depth: 155.51 ft BTOC
 Screen Interval: 115-155 ft bgs Well Volume: 8.21 gal gal/ft
 Pump/Purging Device: Grout Pump Intake Depth: 149.0 ft BTOC
 Sample ID/Sample Time: W6-B760-MW09-050 / 1534 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) ±1 °C	Specific Conductivity (mS/cm) ±5%	Dissolved Oxygen (mg/L or %) ±10%	pH (SU) ±0.1	Oxidation-Reduction Potential (mV) ±10 mV	Turbidity (NTU) <15 NTUs	Comments
1510	142.94	430	1.45 gal	33.03	4.824	0.24	6.71	-183	1.229	
1513	142.93	500	1.25 gal	30.22	4.856	0.23	6.65	-202	3.162	277.0 Hz pump rate
1516	142.91	490	2.06 gal	30.15	4.855	0.23	6.63	-207	9.597	278.70 Hz gently tapped flow through cell to get bubbles out
1519	142.91	400	2.25	30.73	4.906	0.23	6.62	-204	0.462	
1522	142.91	240	2.50	30.85	4.925	0.27	6.63	-195	0.302	276.60 Hz
1525	142.91	360	2.75	31.49	4.980	0.33	6.62	-183	0.3344	
1528	142.91	360	3.00	31.96	5.634	0.38	6.62	-177	0.7441	
1531	142.91	400	3.50	32.53	5.091	0.43	6.62	-174	4.837	
1534	142.91	400	3.75	33.13	5.148	0.45	6.63	-178	8.743	
			5.5 gallons purged total							
										sampled at 1534

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	9.88	15.44

Monitoring Well Purging Form

Project: Former Williams AFB

Date: 5/7/09

Location: ST035 - Former Building 760

Field Personnel: Derrick + Adam

Well Identification: B760-MW10

Initial Water Level: 144.32 ft BTOC

Well Diameter: 4"

Well Depth: 155.92 ft BTOC

Screen Interval: 115-155 ft bgs

Well Volume: 7.54 Gallons

Pump/Purging Device: Granfos Submersible pump

Pump Intake Depth: 149 ft BTOC

Sample ID/Sample Time: WG-B760-MW10-050 / 0831

Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) ±1 °C	Specific Conductivity (mS/cm) ±1-5%	Dissolved Oxygen (mg/L or %) ±10%	pH (SU) ±0.1	Oxidation-Reduction Potential (mV) ±10 mV	Turbidity (NTU) <15 NTUs	Comments
0805										→ Start pumping.
0807	144.41	360	1.5 gal	25.87	4.709	0.75	6.61	123	2.039	275.70 Hz pumping rate
0812	144.39	340	2.0 gal	26.41	4.766	0.59	6.62	42	0.3887	
0815	144.35	280	2.25 gal	26.75	4.790	0.52	6.60	24	0.2722	
0818	144.35	280	2.5 gal	26.99	4.809	0.44	6.60	6	0.2925	
0822	144.34	480	2.5 gal	27.04	4.829	0.49	6.68	-28	0.3609	275.80 Hz pumping rate
0825	144.34	480	2.5 gal	27.32	4.851	0.52	6.60	-19	0.6689	
0828	144.34	320	3.25 gal	27.67	4.897	0.59	6.62	-25	1.186	
			4.0 Gallons purged total							
										Sampled WG-B760-MW10-050 collected at 0831
										* Note - did not save data on rugged Reader until 0835

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.68	15.44	

Monitoring Well Purging Form

Project: Former Williams AFB

Date: 5/6/09

Location: ST035 - Former Building 760

Field Personnel: Derrick & Adam

Well Identification: B760-MW11

Initial Water Level: 138.24 ft BTOC

Well Diameter: 4"

Well Depth: 153.59 ft BTOC

Screen Interval: 115-155 ft bgs

Well Volume: $15.59 \times 0.65 \times 9.98 \times 3 = 29.93$

Pump/Purging Device: Grunfos

Pump Intake Depth: 143.0 ft BTOC

Sample ID/Sample Time: 1256/WG-B760-MW11-050

Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Pumped (L or gal)	Temperature (°C) ±1 °C	Specific Conductivity (mS/cm) ±1-5%	Dissolved Oxygen (mg/L or %) ±10%	pH (SU) ±0.1	Oxidation-Reduction Potential (mV) ±10 mV	Turbidity (NTU) <15 NTUs	Comments
1230	138.40	140	<.25	33.49	5.222	1.57	6.90	84	5.910	
1235	138.36	600	1.0	30.94	5.283	0.65	6.70	-101	2.211	
1239	138.31	440	1.75	28.36	5.086	0.48	6.67	+115	2.491	171.40 Hz pump rate
1244	138.28	230	2.25	29.45	5.174	0.36	6.66	-124	8.784	
1247	138.28	240	2.50	30.25	5.239	0.34	6.67	-124	8.784	
1250	138.25	260	2.75	30.82	5.329	0.35	6.65	-119	0.849	
1253	138.27	360	3.00	31.27	5.406	0.37	6.65	-118	0.6565	171.50 Hz pump rate
1256	138.26	350	3.25	31.59	5.422	0.38	6.65	-113	0.5591	
			4.25	Gallons purged total.						Sampled collected at 1256

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	5.44
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	9.68	15.44

Monitoring Well Purging Form

Project: Former Williams AFB

Date: 5/17/09

Location: ST035 - Former Building 760

Field Personnel: K. Mayer + S. Tivnan

Well Identification: B760-MW12

Initial Water Level: 144.35 ft BTOC

Well Diameter: 4"

Well Depth: 155.51 ft BTOC (5/4/09)

Screen Interval: 116.5-156.6 ft bgs

Well Volume:

Pump/Purging Device: Grundfos Redi-flo / submersible pump

Pump Intake Depth: 149 ft BTOC

Sample ID/Sample Time: WG-B760-MW12-050 / 0848

Analysis/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) ±1 °C	Specific Conductivity (mS/cm) ±1.5%	Dissolved Oxygen (mg/L or %) ±10%	pH (SU) ±0.1	Oxidation-Reduction Potential (mV) ±10 mV	Turbidity (NTU) <15 NTUs	Comments
0749	Pump On									Heavy Organic Odor!
0752	144.47	140	0	26.53	3.721	2.60	6.61	-121	3.102	In Situ on, 268.50 Hz
0759	144.40	200	0.5	26.96	3.649	2.66	6.63	-132	2.996	268.70 Hz
0802	144.39	200	0.75	27.12	3.546	2.42	6.63	-134	3.158	
0805	144.39	200	0.75	27.11	3.468	1.99	6.64	-139	3.383	
0811	144.39	200	1.0	26.95	3.359	2.03	6.66	-139	3.249	
0814	144.39	200	1.0	26.86	3.391	2.05	6.66	-138	3.602	268.80 Hz
0817	144.39	200	1.0	26.83	3.453	2.28	6.66	-134	3.773	
0820	144.39	200	1.25	26.72	3.617	2.08	6.67	-126	3.972	
0824	144.39	200	1.25	26.69	3.835	2.05	6.66	-121	4.072	
0827	144.39	200	1.5	26.74	3.963	1.81	6.65	-117	4.012	* Hit In Situ to remove bubbles.
0830	144.39	200	1.75	26.79	4.191	1.98	6.65	-115	4.630	
0836	144.39	200	2.0	26.91	4.339	1.72	6.64	-110	4.642	
0839	144.39	180	2.0	27.02	4.401	1.75	6.64	-107	4.696	
0842	144.40	200	2.0	27.18	4.459	1.68	6.64	-105	4.550	
0845	144.40	200	2.25	27.40	4.515	1.71	6.63	-103	4.154	
0848	Collect sample		WG-B760-MW12-050							
0853	Pump Off									

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.58	9.88	16.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 5/6/09
 Location: ST035 - Former Building 760 Field Personnel: K. Mayer, S. Tivnan
 Well Identification: B760-MW13 Initial Water Level: 144.96 ft BTOC
 Well Diameter: 4" Well Depth: 155.37 (5/4/09) ft BTOC
 Screen Interval: 115-155 ft bgs Well Volume:
 Pump/Purging Device: Grundfos/Redi-Flo Submersible Pump Pump Intake Depth: 150 ft BTOC
 Sample ID/Sample Time: WG-8760-MW13-050/0903 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) +/- 1 °C	Specific Conductivity (mS/cm) +/- 5%	Dissolved Oxygen (mg/L or %) +/- 10%	pH (SU) +/- 0.1	Oxidation-Reduction Potential (mV) +/- 10 mV	Turbidity (NTU) <15 NTUs	Comments
0820	Pump On									
0833	145.02	180	0	27.17	2.898	3.02	6.74	+37	1.197	In situ on, 265.30 Hz
0844	145.02	200	0.75	27.81	2.943	1.53	6.72	-158	0.9327	
0848	145.02	200	1.25	28.11	2.902	1.05	6.73	-162	.7782	
0855	145.02	200	1.50	28.27	2.901	1.00	6.74	-162	1.009	
0858	145.02	180	1.5	28.37	2.903	0.98	6.74	-159	0.9202	
0901	145.02	180	1.5	28.52	2.881	0.98	6.74	-157	1.045	
0903	WG-ST035-KMS/0903 NG-B760-MW13-050 and WG-B760-MW13-055 collected									
0906	Pump Off									

Well Diameter (in) 0.5 1 2 3 4 6 8 10
 Volume (gal/ft) 0.04 0.16 0.37 0.65 1.47 2.61 4.08
 Volume (L/ft) 0.03 0.15 0.61 1.40 2.48 5.56 9.88 15.44

Appendix A.2

August 2009 Field Forms

URS
Former Williams Air Force Base
Water Level Survey
ST035

Well ID	Date	Constructed Total Depth (ft bgs)	Surface Completion	Measured TD (ft BTOC)	DTW (ft BTOC)		DTW (ft BTOC)		DTW (ft BTOC)		DTW (ft BTOC)		Condition of Well*
					Time	Reading	Time	Reading	Time	Reading	Time	Reading	
B760-MW06R	8/3/09	159.5	Flush-Mount	159.26	0857	142.52	0900	142.53	0903	142.53	—	—	good
B760-MW07R	8/3/09	156.5	Flush-Mount	156.20	1082	144.49	1035	144.50	1038	144.50	—	—	good
B760-MW08R	8/3/09	157.5	Flush-Mount	156.50	0958	143.55	1001	143.57	1004	143.57	1007	143.57	good
B760-MW09	8/3/09	155	Flush-Mount	155.49	0909	142.75	0912	142.75	0915	142.75	—	—	good
B760-MW10	8/3/09	155	Flush-Mount	155.24	0927	144.06	0930	144.07	0933	144.07	—	—	good
B760-MW11	8/3/09	155	Flush-Mount	153.31	0843	138.04	0846	138.05	0849	138.05	—	—	good
B760-MW12	8/3/09	156.5	Flush-Mount	155.23	0944	144.05	0947	144.05	0950	144.05	—	—	good
B760-MW13	8/3/09	155	Flush-Mount	155.10	1020	144.78	1023	144.78	1026	144.78	—	—	good

*Note of lock is missing, well cap missing, label missing, etc.

Monitoring Well Purging Form

Project: Former Williams AFB Date: Derrick 8/5/09

Location: ST035 - Former Building 780 Field Personnel: Derrick Maurer & Steve Tiunan

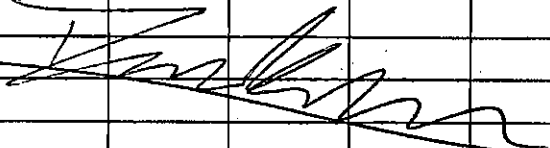
Well Identification: B760-MW06R Initial Water Level: 142.47 ft BTOC

Well Diameter: 4" Well Depth: 159.20 ft BTOC

Screen Interval: 119-159 ft bgs Well Volume: 41.25 Liters

Pump/Purging Device: grunfos Pump Intake Depth: 147.0 ft BTOC

Sample ID/Sample Time: WG-B760-MW06R-060 0821 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) +/- 1 °C	Specific Conductivity (mS/cm) +/- 5%	Dissolved Oxygen (mg/L or %) +/- 10%	pH (SU) +/- 0.1	Oxidation-Reduction Potential (mV) +/- 10 mV	Turbidity (NTU) <15 NTUs	Comments
0734 0743										Begin pumping
0747	142.62	400	1.0	30.48	4.32	-0.02	6.43	-87	30.48	- water purge water has strong
0753	142.60	400	3.5	28.78	4.122	0.33	5.58	-141	0	Hydrocarbon odor.
0756	142.60	410	4.5	28.71	4.130	0.31	6.49	-131	0	
0759	142.60	410	5.5	28.72	4.209	0.34	6.21	-124	0	
0802	142.60	450	7.5	28.95	4.351	0.38	6.47	-121	2.464	
0805	142.60	450	8.0	29.46	4.464	0.39	6.49	-117	0	
0808	142.60	450	9.0	30.37	4.605	0.39	6.49	-115	4.268	
0811	142.60	450	11.0	31.03	4.732	0.39	6.47	-113	1.457	
0814	142.60	450	12.5	31.48	4.830	0.39	6.44	-111	4.505	
0817	142.60	450	14.0	31.81	4.915	0.38	6.44	-110	4.915	
0820	142.60	450	15.0	32.03	4.979	0.36	6.42	-108	4.979	
17.5 Liters purged Total										
Sampled WG B760-MW06R-060 at 0821										
										

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.85	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.68	9.68	15.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 8/5/09
 Location: ST035 - Former Building 760 Field Personnel: Derrick Manner & Steve Tilman
 Well Identification: B760-MW07R Initial Water Level: 144.43 ft BTOC
 Well Diameter: 4" Well Depth: 156.20 ft BTOC
 Screen Interval: 116-156 ft bgs Well Volume: 7.65 gal 28.95 Liters
 Pump/Purging Device: Granfos Pump Intake Depth: 149 ft BTOC
 Sample ID/Sample Time: WG-B760-MW07R-060 1420 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) ±1 °C	Specific Conductivity (mS/cm) ±1-5%	Dissolved Oxygen (mg/L or %) ±1-10%	pH (SU) ±0.1	Oxidation-Reduction Potential (mV) ±10 mV	Turbidity (NTU) <15 NTUs	Comments
1127										Begin Dumping
1134	144.71	400 mL/min	1.0	34.32	10.52	1.59	6.25	3	18.86	245.5 ft H ₂ O
1139	144.99	380 mL/min	2.5	31.96	10.05	0.45	6.35	-33	10.25	drawdown too great will do 3U purge
1154	145.03	480 mL/min	9.0	31.30	9.880	0.64	6.18	-35	4.969	3U Purge = 23 Gallons
1205	145.07	500 mL/min	13.0	34.34	10.50	0.48	6.35	-37	13.78	86.85 Liters
1223	145.12	510 mL/min	23.0	35.13	10.78	0.34	6.29	-28	1.100	flow rate was not increased
1240	145.19	550 mL/min	31.0	35.34	10.92	0.26	6.35	-21	5.846	to 12/min because water level was decreasing @ 5:50 and did not want to draw down anywhere near the pump at 149 ft.
1300	145.22	550 mL/min	42.0	35.35	11.05	0.21	6.35	-14	3.578	
1322	145.35	700 mL/min	53.0	35.14	11.15	0.16	6.35	-9	29.20	
1345	145.29	550 mL/min	67.5	34.14	10.93	0.11	6.35	-13	45.36	
1403	145.27	530 mL/min	76.5	35.12	11.01	0.11	6.36	-4	2.720	
1406	145.27	530 mL/min	78.5	35.10	11.01	0.11	6.34	-2	1.444	
1409	145.25	500 mL/min	79.0	35.24	11.05	0.11	6.35	-2	2.023	
1412	145.23	500 mL/min	82.0	35.13	11.04	0.11	6.36	-1	2.846	
1415	145.22	440 mL/min	89.0	35.27	11.07	0.11	6.30	2	13.80	
1418	145.22	470 mL/min	86.0	35.16	11.03	0.12	6.36	1	4.021	
88 Liters purged total										
Sampled WG-B760-MW07R-060										
Frank Manner										

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.81	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.58	9.88	

Monitoring Well Purging Form

Project: Former Williams AFB Date: 8/5/09
 Location: ST035 - Former Building 760 Field Personnel: Derrick Maurer & Steve Tioman
 Well Identification: B760-MW08R Initial Water Level: 143.52 ft BTOC
 Well Diameter: 4" Well Depth: 156.50 ft BTOC
 Screen Interval: 117-157 ft bgs Well Volume: 31.93 Liters
 Pump/Purging Device: grunfos Pump Intake Depth: 148 ft BTOC
 Sample ID/Sample Time: WG-B760-MW08R-063 1009 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) +/- 1 °C	Specific Conductivity (mS/cm) +/- 5%	Dissolved Oxygen (mg/L or %) +/- 10%	pH (SU) +/- 0.1	Oxidation-Reduction Potential (mV) +/- 10 mV	Turbidity (NTU) <15 NTUs	Comments
0920										Start Pump
0925	143.79	220ml	1.5	32.73	5.122	1.59	6.58	-80	9.800	
0931	143.72	220ml	3.0	31.00	4.906	0.85	6.55	-89	21.49	
0934	143.68	270ml	4.5	31.52	4.971	0.54	6.55	-93	28.61	
0937	143.68	270ml	5.5	31.41	4.992	0.50	6.54	-95	28.80	
0943	143.72	450ml	6.5	30.98	5.015	0.58	6.55	-92	27.07	
0946	143.70	340ml	7.5	31.21	5.035	0.61	6.54	-89	10.86	
0949	143.70	350ml	8.5	31.88	5.101	0.65	6.54	-87	15.05	298.80 Hz
0952	143.69	340ml	9.5	32.53	5.177	0.65	6.54	-85	9.741	
0955	143.69	340ml	11.0	33.14	5.242	0.62	6.54	-83	11.88	
0958	143.69	340ml	12.0	33.76	5.330	0.60	6.55	-83	10.40	
1001	143.69	280ml	13.0	34.21	5.397	0.55	6.54	-81	9.170	
1004	143.69	280ml	14.0	34.38	5.442	0.53	6.53	-79	5.336	
1007	143.69	260ml	15.0	34.55	5.486	0.51	6.54	-77	6.331	
						17.0				Liters purged total
										collected WG-B760-MW08R-063 at 1009
										Derrick Maurer

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.07	1.47	2.61	4.08
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.58	9.68	15.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 8/4/09
 Location: ST035 - Former Building 780 Field Personnel: Derrick Maurer + Shane Timan
 Well Identification: B760-MW09 Initial Water Level: 142.70ft ft BTOC
 Well Diameter: 4" Well Depth: 155.49 ft BTOC
 Screen Interval: 115-155 ft bgs Well Volume: 31.46 L
 Pump/Purging Device: Abgss Pump Intake Depth: 148 ft BTOC
 Sample ID/Sample Time: W6-B760-MW09-060 1200 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) ±1 °C	Specific Conductivity (mS/cm) ±5%	Dissolved Oxygen (mg/L or %) ±10%	pH (SU) ±0.1	Oxidation-Reduction Potential (mV) ±10 mV	Turbidity (NTU) <15 NTUs	Comments
1126										Start Pump
1134	142.77	680ml/min	1	34.35	5.575	3.03	6.70	123	2.554	
1137	142.74	200ml/min	2	31.80	5.340	1.30	6.63	114	0.676	
1140	142.74	210ml/min	2.5	32.77	5.437	0.83	6.62	86	0	
1143	142.74	200ml/min	3.0	33.31	5.498	0.71	6.61	65	2.733	
1146	142.74	225ml/min	3.5	33.40	5.509	0.57	6.61	49	1.084	
1149	142.73	260ml/min	4.0	33.22	5.501	0.51	6.61	39	4.755	
1152	142.73	260ml/min	4.5	33.19	5.495	0.50	6.61	34	7.399	
1155	142.73	270ml/min	5.5	33.24	5.495	0.50	6.61	30	0.8236	
1158	142.73	275ml/min	6.0	33.17	5.497	0.51	6.61	26	4.719	
				7.0 L purged Total						
W6-B760-MW09-060- collected @ 1200										
<i>Derrick Maurer</i>										

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)		0.04	0.16	0.37	0.65	1.47	2.81	4.08
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	9.88	15.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 8/6/09
 Location: ST035 - Former Building 760 Field Personnel: Derrick Maurer and Steve Timan
 Well Identification: B760-MW10 Initial Water Level: 144.02 ft BTOC
 Well Diameter: 4" Well Depth: 155.29 ft BTOC
 Screen Interval: 115-155 ft bgs Well Volume: 27.69 Liters
 Pump/Purging Device: grunts Pump Intake Depth: 149 ft BTOC
 Sample ID/Sample Time: W6-B760-MW10-060 1120 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (100 gal)	Temperature (°C) ±1 °C	Specific Conductivity (mS/cm) ±5%	Dissolved Oxygen (mg/L or %) ±10%	pH (SU) ±0.1	Oxidation-Reduction Potential (mV) ±10 mV	Turbidity (NTU) <15 NTUs	Comments
1032										Begin pumping
1034	144.07	250	0.5	33.28	5.081	1.51	6.63	28	1.939	295.40 Hz
1037	144.07	310	1.0	31.30	4.842	0.73	6.62	45	4.485	
1040	144.07	310	2.0	31.20	4.833	0.52	6.62	55	0.3872	
1043	144.05	310								Pump stopped ground fault.
1045										Pump back on
1050	144.02	400 mL/min	4.5	30.78	4.860	2.33	6.62	81	0	
1053	144.03	460 mL/min	6.0	30.85	4.873	1.02	6.60	82	0	
1056	144.03	460 mL/min	7.0	30.65	4.858	0.71	6.56	86	6.869	
1059	144.03	500 mL/min	8.5	30.49	4.848	0.60	6.59	86	5.808	
1102	144.03	500	10.0	30.95	4.893	0.60	6.56	87	5.326	
1105	144.03	420	11.0	31.96	4.982	0.59	6.52	87	9.527	
1108	144.03	430	12.5	32.89	5.078	0.54	6.42	89	10.79	
1117	144.03	460	14.0	33.37	5.125	0.50	6.58	84	0	
1114	144.03	460	15.5	33.58	5.155	0.47	6.52	86	10.34	
1117	144.02	480	16.5	33.58	5.152	0.46	6.57	84	8.409	
										19 Liters purged total
										Collected W6-B760-MW10-060 @ 1120
										<i>[Signature]</i>

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.81	4.08	
Volume (Lit)	0.03	0.15	0.61	1.40	2.48	5.56	9.88	15.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 8/4/09
 Location: ST035 - Former Building 760 Field Personnel: Derrick Maurer + Steve Trinan
 Well Identification: B760-MW11 Initial Water Level: 138.06 ft (6 DM) ft BTOC
 Well Diameter: 4" Well Depth: 153.31 ft BTOC
 Screen Interval: 115-155 ft bgs Well Volume: 6.695 gal (6 DM) or 25.34 L (6 DM)
 Pump/Purging Device: Abyss pump Pump Intake Depth: 143 ft ft BTOC
 Sample ID/Sample Time: W6-B760-MW11-060 0815 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (ml/min)	Volume Purged (L or gal)	Temperature (°C) +/- 1 °C	Specific Conductivity (mS/cm) +/- 5%	Dissolved Oxygen (mg/L or %) +/- 10%	pH (SU) +/- 0.1	Oxidation-Reduction Potential (mV) +/- 10 mV	Turbidity (NTU) <15 NTUs	Comments
0745										Begin pumping MW-11
0749	138.19	600ml/min	2.2	27.94	4.984	0.81	6.62	169	7.175	took 1min 15 sec to fill flow through cell
0753	138.17	380ml/min	4.5	26.69	4.899	0.51	6.62	154	6.846	
0757	138.16	400ml/min	5.5	27.06	4.856	0.45	6.62	89	2.302	
0802	138.18	440ml/min	6.5	26.76	4.832	0.45	6.62	67	4.654	
0805	138.18	440ml/min	8.0	26.66	4.822	0.45	6.62	55	2.589	
0808	138.18	440ml/min	9.0	26.72	4.827	0.46	6.62	48	7.737	
0811	138.18	480ml/min	10.0	26.62	4.804	0.46	6.61	45	4.616	
0814	138.18	480ml/min	11.5	26.68	4.811	0.48	6.62	46	2.518	
Sample W6-B760-MW11-060 collected at 0815										
dup - W6-B760-MW11-061 collected at 0815										

Sample W6-B760-MW11-060 collected at 0815
 dup - W6-B760-MW11-061 collected at 0815

Derrick Maurer

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.81	1.40	2.46	5.56	9.88	15.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 8/6/09

Location: ST035 - Former Building 760 Field Personnel: Derrick Mauer & Steve Timan

Well Identification: B760-MW12 Initial Water Level: 143.98 ft BTOC

Well Diameter: 4" Well Depth: 155.23 ft BTOC

Screen Interval: 116.5-156.5 ft bgs Well Volume: 2768 liters

Pump/Purging Device: grunfos Pump Intake Depth: 149 ft BTOC

Sample ID/Sample Time: W6-B760-MW12-060 0910 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) ±1 °C	Specific Conductivity (mS/cm) ±1 5%	Dissolved Oxygen (mg/L or %) ±10%	pH (SU) ±0.1	Oxidation-Reduction Potential (mV) ±10 mV	Turbidity (NTU) <15 NTUs	Comments
0736										
0739	144.07	300	0.5	30.60	5.110	1.97	6.54	-97	5.579	295.00 Hz Strong Hydrocarbon odor.
0742	144.05	330	1.5	29.90	5.325	0.81	6.13	-104	6.235	
0748	144.04	330	3.5	29.13	5.125	0.42	6.53	-128	0	
0751	144.05	420	4.5	28.92	5.161	0.44	6.52	-129	0.8897	
0754	144.05	450	6.0	28.87	5.374	0.50	6.66	-125	2.844	
0757	144.05	450	7.0	29.10	5.325	0.54	6.51	-114	6.405	
0800	144.05	450	8.5	30.05	5.285	0.55	6.4			In situ changed to next value
0803	144.07	460	9.5	31.26	5.321	0.52	6.49	-122	7.001	
0806	144.07	450	11.0	32.23	5.380	0.46	6.07	-121	13.98	
0809	144.07	450	12.5	32.07	5.385	0.42	6.50	-127	8.149	
0812	144.07	450	14.0	32.92	5.391	0.39	6.50	-128	7.348	
0815	144.07	450	15.0	33.00	5.389	0.37	6.47	-128	17.08	Hit bubbles out
0818	144.07	450	16.0	32.95	5.325	0.37	6.50	-129	1.786	
					W6-B760-MW12-060 DM					
0821	144.07	450	17.0	32.92	5.313	0.35	6.50	-129	0	
0825	144.07	450	18.5	32.90	5.311	0.35	6.15	-123	6.551	
0829	144.07	450	19.5	32.86	5.310	0.35	5.418	-124	5.418	
0831	144.07	280	20.0	32.84	5.295	0.36	5.4	-144	5.295	
0833	144.06	340	DM							

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.85	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	8.88	15.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 8/6/09
 Location: ST035 - Former Building 760 Field Personnel: Derrick Maurer + Steve Tiunan
 Well Identification: 8760 - MW12 Initial Water Level: 143.98
 Well Diameter: 4" Well Depth: 155.23
 Screen Interval: 116.5 - 156.5 ft bgs Well Volume: 27.68 Liters
 Pump/Purging Device: granfos Pump Intake Depth: 149
 Sample Time: WG-B760-MW12-060 0910 Analyses/Notes: BTEX + MTBE + EDB

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (gal)	Temperature (°C) ±.1 °C	Specific Conductivity (mS/cm) ±.5%	Dissolved Oxygen (mg/L or %) ±.10%	pH (SU) ±.0.1	Oxidation-Reduction Potential (mV) ±.10 mV	Turbidity (NTU) <15 NTUs	Comments
0837	144.07	410	22.5	32.62	5.268	0.36	6.52	-127	6.770	
0840	144.07	410	22.5	32.72	5.277	0.34	6.16	-120	0	
0843	144.07	600	25.0	32.84	5.288	0.32	6.54	-127	0	
0846	144.10	600	26.5	33.25	5.338	0.28	6.53	-128	8.674	
0849	144.07	450	28.0	33.66	5.373	0.25	5.35	-148	0	
0855	144.07	450	30.0	33.97	5.444	0.22	6.53	-130	3.398	
0858	144.07	450	32.0	33.90	5.458	0.21	6.52	-129	2.279	
0901	144.07	470	33.5	33.70	5.450	0.21	6.16	-122	18.04	tapped bubbles out
0904	144.07	470	34.5	33.45	5.403	0.23	6.12	-121	0	
0907	144.07	470	36.0	33.44	5.404	0.21	6.18	-121	0	
Purged 38 Liters total										
Sampled WG-B760-MW12-060 @ 0910										
<i>[Signature]</i>										

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.16	0.61	1.40	2.46	5.66	9.88	15.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 8/4/09
 Location: ST035 - Former Building 760 Field Personnel: Derrick Maurer and Steve Timman
 Well Identification: B780-MW13 Initial Water Level: 144.62 ft BTOC
 Well Diameter: 4" Well Depth: 155.10 ft BTOC
 Screen Interval: 115-155 ft bgs Well Volume: 25.78 L
 Pump/Purging Device: AbysS Pump Intake Depth: 150 ft BTOC
 Sample ID/Sample Time: WG-B780-MW13-060 1808 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) ±1.1°C	Specific Conductivity (mS/cm) ±5%	Dissolved Oxygen (mg/L or %) ±10%	pH (SU) ±0.1	Oxidation-Reduction Potential (mV) ±10 mV	Turbidity (NTU) <15 NTUs	Comments
1500										Start pump
1509	144.75	250ml/min	0.5	35.02	3.912	1.29	6.82	-41	68.52	
1516	144.75	280ml/min	2.5	32.94	3.958	0.79	6.78	-50	41.16	
1521	144.75	280ml/min	3.5	32.17	3.979	0.74	6.77	-56	39.12	
1527	144.75	250ml/min	5.0	32.53	4.018	0.69	6.76	-64	36.70	
1532	144.75	250ml/min	6.0	32.49	4.043	0.66	6.76	-66	33.56	
1538	144.75	250ml/min	7.5	32.60	4.094	0.61	6.76	-62	45.57	
1544	144.75	250ml/min	8.5	32.38	4.103	0.59	6.75	-54	29.27	
1547	144.75		9.0	32.77	4.135	0.58	6.75	-51	26.95	
		↳ not measured in pump stopped pumping at 1548 - stop in site data log								
1604										start pumping with grout pump.
1610	144.81	340ml/min	13.5	30.23	3.223	2.70	6.85	-49	2.593	pump set at 291.2 Hz
1615	144.79	340ml/min	14.0	31.55	3.383	3.27	6.84	-54	1.382	
1620	144.71	300ml/min	15.0	32.63	3.691	2.53	6.81	-46	968.6	
1623	144.71	300ml/min	16.0	32.66	3.671	2.41	6.83	-42	1.184	
1629	144.71	300ml/min	17.5	32.21	3.855	1.62	6.74	-28	107.6	
1635	144.73	360ml/min	19.5	31.58	3.834	1.34	6.81	-24	75.54	
1640	144.76	320ml/min	20.5	32.73	3.913	1.36	6.75	-16	38.38	
1647	144.75	350ml/min	24.0	34.19	4.024	1.09	6.81	-17	31.45	
1651	144.75	350ml/min	25.0	34.60	4.053	1.04	6.82	-15	34.39	

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.58	9.88	15.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 8/4/09
 Location: ST035 - Former Building 760 Field Personnel: Derrick Murren & Steve Thomas
 Well Identification: B760-MW13 Initial Water Level: 144.62 ft btoC
 Well Diameter: 4" Well Depth: 155.10 ft btoC
 Screen Interval: 15' - 155' ft btoC Well Volume: 25.78 L
 Pump/Purging Device: gran fos Pump Intake Depth: 150
 Sample Time: UG-B760-MW13-060 1808 Analyses/Notes: BTEX + MTBE and EDB

Time	Water Level (ft BTCC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) ±.1 °C	Specific Conductivity (mS/cm) ±.5%	Dissolved Oxygen (mg/L or %) ±.10%	pH (SU) ±.0.1	Oxidation-Reduction Potential (mV) ±.10 mV	Turbidity (NTU) <15 NTUs	Comments
1656	144.71	260 mL/min	26.0	34.39	4.062	0.99	6.69	-10	25.32	
1705	144.68	250 mL/min	28.5	35.31	4.099	0.91	6.81	-16	32.60	
1712	144.70	250 mL/min	29.5	34.68	4.066	0.91	6.81	-16	29.59	
1715	144.68	265 mL/min	30.0	34.34	4.014	0.84	6.81	-17	25.64	
1718	144.68	260 mL/min	30.5	34.17	4.003	0.87	6.81	-18	23.12	
1725	144.70	375 mL/min	33.0	34.14	3.979	0.84	6.81	-19	18.29	
1730	144.70	375 mL/min	34.5	33.49	3.913	0.78	6.80	-23	20.44	
1733	144.71	450 mL/min	36.0	33.82	3.932	0.70	6.80	-26	16.44	
1737	144.71	455 mL/min	37.5	34.25	3.952	0.62	6.70	-26	5.706	
1740	144.71	480 mL/min	39.0	34.66	3.995	0.55	6.60	-27	7.923	
1743	144.72	485 mL/min	40.0	35.03	4.042	0.48	6.79	-36	12.38	
1746	144.72	485 mL/min	42.0	35.82	4.072	0.43	6.76	-37	0	
1749	144.72	485 mL/min	43.0	35.82	4.085	0.39	6.69	-35	22.99	
1751	144.72	475 mL/min	44.0	35.24	4.054	0.34	6.76	-38	26.60	
1754	144.70	485 mL/min	45.0	35.23	4.063	0.31	6.78	-39	31.94	
1800	144.71	480 mL/min	47.0	34.99	4.058	0.28	6.77	-38	56.25	
1803	144.72	360 mL/min	48.0	34.85	4.058	0.27	6.74	-37	62.15	
1807	144.72	350 mL/min	49.5	34.79	4.056	0.26	6.77	-37	56.97	called Jay to see if Jantex we could go ahead and sample with high turb he said it was OK.

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.66	9.88	15.44

Appendix A.3

November/December 2009 Field Forms

Brad Sohm + Steve Tisonen

URS
Former Williams Air Force Base
Water Level Survey
ST035

Well ID	Date	Constructed Total Depth (ft bgs)	Constructed Total Depth (ft BTOC)	Surface Completion	Measured TD (ft BTOC)	DTW (ft BTOC)		DTW (ft BTOC)		DTW (ft BTOC)		DTW (ft BTOC)		Condition of Well*
						Time	Reading	Time	Reading	Time	Reading	Time	Reading	
B760-MW06R	11/10/09	159.5	158.9	Flush-Mount	159.25	1322	141.75	1325	141.75	1328	141.75			Good
B760-MW07R	11/10/09	156.5	156.26	Flush-Mount	156.30	1159	143.72	1202	143.72	1205	143.72			Good
B760-MW08R	11/10/09	157.5	157.49	Flush-Mount	156.67	1228	142.77	1223	142.77	1230	142.77			Good
B760-MW09	11/10/09	155	154.46	Flush-Mount	155.45	1311	142.00	1314	142.00	1317	142.00			Good
B760-MW10	11/10/09	155	154.75	Flush-Mount	154.62	1301	143.30	1304	143.30	1307	143.30			Good
B760-MW11	11/10/09	155	154.51	Flush-Mount	153.35	1341	137.25	1344	137.25	1347	137.25			Good
B760-MW12	11/10/09	156.5	156.24	Flush-Mount	156.30	1236	143.27	1239	143.27	1242	143.27			Good
B760-MW13	11/10/09	155	154.74	Flush-Mount	155.10	1212	143.95	1215	143.95	1218	143.95			Good

*Note of lock is missing, well cap missing, label missing, etc.

Monitoring Well Logging Form

Project: Former Williams AFB

Date: 12/2/09

Location: ST035 - Former Building 760

Field Personnel: Brad Sohm & Armando Jimenez

Well Identification: B760-MW06R

Initial Water Level: 141.58 r BTOC

Well Diameter: 4"

Well Depth: 159.25 r BTOC

Screen Interval: 119-159 ft bgs

Well Volume: 11.5 gallons

Pump/Purging Device: Bennett Pump #02

Pump Intake Depth: 146.6 r BTOC

Sample ID/Sample Time: WG-B760-MW06R-070/1018

Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (r BTOC)	Purge Rate (mL/min)	Volume Purged (L)	pH (SU) +/- 0.1	Specific Conductivity (mS/cm) +/- 5%	Oxidation-Reduction Potential (mV) +/- 10 mV	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <15 NTUs	Temperature (°C) +/- 1 °C	Comments
0827										
0832	141.69	310	1.0	7.06	0.0207	250	8.98	0.3496	5.80	Pump On
0838	141.61	210	2.0	6.80	0.0218	251	8.51	0	5.51	Pump Pressure 95 psi
0843	141.61	200	3.0	6.76	0.0230	251	8.61	0.0643	5.49	
0848	141.62	200	4.0	6.65	0.0230	248	12.66	5.924	5.84	
0853	141.65	310	6.0	6.79	2.452	227	21.03	10.45	7.88	Possible Formation Water
0858	141.66	290	7.0	6.79	2.622	220	17.80	18.21	9.29	
0904	141.67	320	9.0	6.74	2.896	213	14.28	52.07	12.08	Bubbles in Flow Thru Cell
0910	141.66	300	10.5	6.72	3.092	204	12.39	434.1	14.52	
0916	141.66	280	12.5	6.72	3.185	200	11.38	2528	15.52	
0922	141.65	250	14.0	6.71	3.362	198	10.24	426.0	15.95	
0928	141.65	250	15.5	6.69	3.598	201	10.50	191.9	16.12	
0934	141.65	250	16.5	6.70	3.725	200	10.73	583.0	16.04	Waiting on Conductivity & Turbidity
0940	141.64	200	17.5	6.70	3.791	204	10.45	3.526	15.98	
0943	141.64	330	18.5	6.70	3.802	203	10.37	6.171	15.94	
0946	141.66	200	19.5	6.70	3.886	201	9.45	39.79	16.58	Slight petroleum hydrocarbon odor
0949	141.67	300	20.5	6.69	3.959	200	10.16	2926	16.80	
0953	141.67	260	22.0	6.69	4.002	199	9.63	10.38	17.09	
0957	141.66	290	23.0	6.69	4.016	198	8.61	8.708	17.32	
1000	141.66	260	23.5	6.69	4.078	195	8.20	44.19	17.70	

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)		0.04	0.16	0.37	0.65	1.47	2.61	4.08
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	9.88	15.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 12/2/09
 Location: ST035- Former Building 760 Field Personnel: Brad Schm & Armando Jimenez
 Well Identification: B760-MW06R Initial Water Level: 141.58 ft BTOC
 Well Diameter: 4" Measured Well Depth: 159.25 ft BTOC
 Screen Interval: 119-159 ft bgs Well Volume: 11.5 gallons
 Pump/Purging Device: Bennett Pump #02 Pump Intake Depth: 146.6 ft BTOC
 Sample Time: WG-B760-MW06R-070 / 1018 Analyses/Notes: BTEX + MTBE (SW8240B) + EOB (SW801)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) +/- 1 °C	Specific Conductivity (mS/cm) +/- 5%	Dissolved Oxygen (mg/L or %) +/- 10%	pH (SU) +/- 0.1	Oxidation-Reduction Potential (mV) +/- 10 mV	Turbidity (NTU) <15 NTUs	Comments
1003	141.67	310	24.5	18.21	4.151	7.74	6.28	193	65.60	
1006	141.67	300	25.5	18.91	4.240	7.93	6.68	192	5.978	
1009	141.67	310	26.5	19.36	4.250	7.82	6.68	189	9.435	Waiting on temp
1012	141.67	290	27.5	19.75	4.264	6.89	6.68	186	11.46	
1015	141.67	300	28.5	20.21	4.340	6.53	6.67	184	27.48	
1018	141.68	290	29.0	20.45	4.385	6.34	6.66	181	0.5302	Collect Sample

B760

12-2-09

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	5.44
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	9.88	15.44

Monitoring Well Logging Form

Project: Former Williams AFB Date: 12/2/09
 Location: ST035 - Former Building 760 Field Personnel: Lisa Gregory/Steve Tiunan
 Well Identification: B760-MW07R Initial Water Level: 143.74 ft BTOC
 Well Diameter: 4" Well Depth: 156.30 ft BTOC
 Screen Interval: 116-156 ft bgs Well Volume: 8.16 gal
 Pump/Purging Device: Submersible Bennett Pump Pump Intake Depth: 148.74 ft BTOC
 Sample ID/Sample Time: W6-B760-MW07R / 1328 Analyses/Notes: BTEX & MTBE (SW8280B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L)	pH (SU) +/- 0.1	Specific Conductivity (mS/cm) +/- 5%	Oxidation-Reduction Potential (mV) +/- 10 mV	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <15 NTUs	Temperature (°C) +/- 1 °C	Comments
1120	143.74									Pumping
1125	143.84	325	1.0	7.36	0.0275	148	8.82	0.3587	17.14	
1131	144.02	290	2.5	7.01	0.0172	114	9.01	0.2685	16.96	water level dropping.
1205	144.04	150	8.0	6.50	6.347	34	5.52	0.1201	19.23	
1216	144.03	120	9.5	6.52	7.360	-3	3.17	0.0148	20.13	
1225	144.02	120	10.0	6.52	7.497	-6	2.64	0.1992	20.67	
1234	143.99	150	11.0	6.53	7.592	-4	2.28	0.1104	21.24	
1243	144.00	130	12.5	6.52	7.642	-7	1.97	0.2370	21.56	
1253	144.00	130	13.5	6.51	7.687	-5	1.64	0.1418	21.89	
1302	144.00	110	14.5	6.52	7.750	-3	1.45	0.0951	22.26	
1311	143.95	130	15.5	6.50	7.706	3	1.41	0.1149	21.99	
1320	144.00	120	16.5	6.52	7.792	-3	1.21	0.1349	22.45	
1329	144.00	130	17.5	6.50	7.685	-1	1.15	0.1201	21.80	
1338	144.00	130	18.5	6.50	7.632	-5	1.02	0.1098	21.52	Sample collected W6-B760-mw07R.

Lisa Gregory
12/2/09

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.49	5.56	9.88	15.44

Monitoring Well Logging Form

Project: Former Williams AFB Date: 12-1-09
 Location: ST035 - Former Building 780 Field Personnel: Armando Jimenez & Kevin Kroghstad
 Well Identification: B760-MW08R Initial Water Level: 142.62 ft BTOC
 Well Diameter: 4" Well Depth: 156.50 ft BTOC
 Screen Interval: 117-157 ft bgs Well Volume: 21.84 Liters
 Pump/Purging Device: Submersible Bennett Pump Pump Intake Depth: 147.62 ft BTOC
 Sample ID/Sample Time: WB-B760-MW08R-070 / 924 1030 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L)	pH (SU) +/- 0.1	Specific Conductivity (mS/cm) +/- 5%	Oxidation-Reduction Potential (mV) +/- 10 mV	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <15 NTUs	Temperature (°C) +/- 1°C	Comments
8:10										PUMP START, @ 90 PSI
8:15	142.75	310	2.5	7.36	0.0320	221	11.28	3.543	5.41	
8:20	142.70	320	3.5	7.19	0.0251	219	10.61	2.936	5.64	
8:25	142.72	230	4.5	7.09	0.0273	218	13.31	6.655	7.21	
8:30	142.70	420	5.5	7.01	0.1264	215	13.85	6.508	8.73	
8:35	142.76	325	7.0	6.54	3.921	-18	13.18	14.54	11.39	Possible Formation H ₂ O
8:40	142.75	280	9.0	6.56	4.539	-42	10.34	22.47	13.57	
8:45	142.75	275	10.0	6.56	4.599	-44	9.45	27.08	14.08	slight Hydrocarbon odor
8:50	142.74	260	11.5	6.56	4.649	-48	8.20	31.19	15.38	
8:55	142.73	250	12.5	6.58	4.669	-60	7.12	36.90	16.56	
9:00	142.75	320	15.0	6.59	4.688	-74	6.22	33.58	17.39	
9:05	142.76	290	16.0	6.59	4.702	-77	5.63	34.92	18.01	
9:10	142.75	290	17.0	6.59	4.815	-81	5.15	36.16	18.53	
9:15	142.75	270	18.5	6.58	4.875	-87	4.27	53.94	19.52	Knocked Bubbles out.
9:18	142.75	270	19.0	6.58	4.997	-86	3.72	0.9455	19.65	
9:21	142.75	260	19.5	6.58	4.991	-87	3.38	1.068	19.69	
9:24	142.74	265	20.0	6.58	5.029	-87	3.10	1.149	20.06	collect sample, no good.
9:41	142.73	230	24.5	6.59	4.930	-82	2.52	1.494	19.04	
9:46	142.72	170	25.0	6.59	5.122	-81	2.24	1.575	20.55	
9:51	142.74	225	26.5	6.58	5.076	-82	2.14	1.707	20.60	

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.81	1.40	2.46	5.56	9.88	15.44

Monitoring Well Purging Form

Project: Former Williams AF13 Date: 12-1-09
 Location: 57035 - Farmer Building 760 Field Personnel: Armando Jimenez & Kevin Kragstad
 Well Identification: 13760 - MW 08R Initial Water Level: 142.62
 Well Diameter: 4" Well Depth: 156.50
 Screen Interval: 117.157 Ft 49.5 Well Volume: 21,84 Liters
 Pump/Purging Device: Submersible Bennett Pump Pump Intake Depth: 147.62
 Sample Time: WB-13760-MW08R070 / 1030 Analyses/Notes: 13TEX & M7B2 (SW026013) & ED13 (SW8011)

Time	Water Level (ft BTWC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) ±1 °C	Specific Conductivity (mS/cm) ±5%	Dissolved Oxygen (mg/L or %) ±10%	pH (SU) ±0.1	Oxidation-Reduction Potential (mV) ±10 mV	Turbidity (NTU) <15 NTUs	Comments
0956	142.75	295	28	21.07	5.105	1.91	6.58	-81	3,949	
1008	142.74	400	30	21.85	5.234	1.49	6.58	-82	4,893	Momentarily loss of pressure
1010	142.78	200	31	22.26	5.287	1.41	6.58	-80	3,624	
1013	142.76	350	32	22.26	5.289	1.36	6.57	-81	3,476	
1018	142.76	325	33.5	22.60	5.339	1.29	6.57	-81	3,383	
1022	142.76	315	35	23.09	5.402	1.10	6.57	-83	5,289	
1025	142.76	280	36.5	23.23	5.427	1.11	6.57	-83	5,561	Waiting for DO
1030	142.75	290	37.5	23.33	5.453	1.02	6.56	-81	6,800	collect sample

Well Diameter (in) 0.5 1 2 3 4 6 8 10
 Volume (gal/ft) 0.04 0.16 0.37 0.65 1.47 2.61 4.08
 Volume (L/ft) 0.03 0.15 0.61 1.40 2.46 5.66 9.88 15.44

Monitoring Well Purging Form

Project: Former Williams AFB

Date: 12/2/09

Location: ST035 - Former Building 760

Field Personnel: Brad Sohm + Armand Jimenez

Well Identification: B760-MW09

Initial Water Level: 141.84 ft BTOC

Well Diameter: 4"

Well Depth: 155.45 ft BTOC

Screen Interval: 115-155 ft bgs

Well Volume: 8.8 gallons

Pump/Purging Device: Bennett Pump #02

Pump Intake Depth: 146.8 ft BTOC

Sample ID/Sample Time: W6-B760-MW09-070/1328

Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L)	pH (SU) +/- 0.1	Specific Conductivity (mS/cm) +/- 5%	Oxidation-Reduction Potential (mV) +/- 10 mV	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <15 NTUs	Temperature (°C) +/- 1 °C	Comments
1128										Pump Started
1132	141.85	390	1.0	8.43	0.0498	143	9.34	0	15.43	Pump Pressure 90 psi
1139	141.85	300	3.0	7.65	0.0208	150	9.36	0	14.77	
1145	141.85	350	4.5	7.34	0.0210	154	9.23	0	14.80	
1152	141.84	300	6.0	7.13	0.0345	159	9.67	0.1808	15.04	
1158	141.84	380	8.0	6.57	3.495	161	9.48	1.315	15.75	Formation Water
1204	141.85	300	10.0	6.62	4.157	155	5.67	4.213	17.00	
1207	141.84	290	11.0	6.64	4.244	154	4.49	6.025	17.55	
1213	141.85	325	13.0	6.64	4.402	151	2.88	54.76	18.77	
1219	141.84	310	15.0	6.64	4.463	149	2.04	49.23	19.49	
1226	141.84	300	17.0	6.64	4.476	148	1.67	50.66	19.71	Waiting on DO + Turbidity
1232	141.83	300	18.5	6.64	4.496	147	1.32	2.308	19.90	
1235	141.83	290	19.5	6.64	4.491	147	1.23	3.178	19.84	
1238	141.84	450	20.5	6.64	4.497	146	1.13	2.110	19.88	
1241	141.84	400	22.0	6.64	4.538	142	0.95	1.878	20.34	
1244	141.84	400	23.5	6.64	4.526	137	0.82	2.477	20.44	
1247	141.84	380	24.5	6.64	4.529	133	0.74	3.136	20.53	
1251	141.84	370	25.5	6.64	4.537	129	0.68	3.807	20.71	Slight hydrocarbon odor
1254	141.84	370	26.5	6.64	4.545	124	0.65	4.926	20.89	
1257	141.84	320	27.5	6.63	4.553	119	0.60	5.266	20.94	Waiting on DO

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.59	9.88	15.44

Monitoring Well Purging Form

Project: Former Williams AFB Date: 12/2/09
 Location: ST035 - Former Building 760 Field Personnel: Brad Schm & Armando Jimenez
 Well Identification: B760-MW09 Initial Water Level: 141.84 ft BTOC
 Well Diameter: 4" Measured Well Depth: 155.45 ft BTOC
 Screen Interval: 115-155 ft logs Well Volume: 8.8 gallons
 Pump/Purging Device: Bennett Pump #02 Pump Intake Depth: 146.8 ft BTOC
 Sample Time: WG-B760-MW09-070/1328 Analyses/Notes: BTEX & MTBE (SL08026 B) and EDB (SL08011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) +/- 1 °C	Specific Conductivity (mS/cm) +/- 5%	Dissolved Oxygen (mg/L or %) +/- 10%	pH (SU) +/- 0.1	Oxidation-Reduction Potential (mV) +/- 10 mV	Turbidity (NTU) < 15 NTUs	Comments
1300	141.84	375	29.0	20.94	4.531	0.54	6.64	113	5.844	
1303	141.84	360	30.0	20.90	4.519	0.51	6.63	107	6.340	Waiting on ORP & DO
1306	141.81	325	31.0	20.85	4.520	0.49	6.64	101	6.418	
1309	141.81	350	32.0	20.65	4.479	0.47	6.64	95	6.731	
1312	141.81	350	33.0	20.66	4.481	0.45	6.64	89	7.143	Waiting on ORP
1315	141.81	350	34.0	20.70	4.478	0.44	6.64	83	7.851	
1319	141.81	350	35.0	20.67	4.469	0.43	6.64	77	8.362	
1322	141.81	350	36.0	20.60	4.447	0.41	6.64	71	8.771	
1325	141.81	300	37.0	20.52	4.463	0.43	6.64	68	14.67	
1328	141.81	300	38.0	20.52	4.467	0.41	6.64	64	14.38	Sample Collected

30 gal

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	5.44
Volume (L/ft)	0.15	0.61	1.40	2.46	5.56	9.88	15.44	

Monitoring Well Purging Form

Project: Former Williams AFB Date: 12/2/09
 Location: ST035 - Former Building 760 Field Personnel: Brad Schim & Armando Jimenez
 Well Identification: B760-MW10 Initial Water Level: 143.09 ft BTOC
 Well Diameter: 4" Well Depth: 154.62 ft BTOC
 Screen Interval: 115-155 ft bgs Well Volume: 7.5 gallons
 Pump/Purging Device: Bennett Pump #02 Pump Intake Depth: 148.1 ft BTOC
 Sample ID/Sample Time: W6-B760-MW10-073 / 1640 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L)	pH (SU) +/- 0.1	Specific Conductivity (mS/cm) +/- 5%	Oxidation-Reduction Potential (mV) +/- 10 mV	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <15 NTUs	Temperature (°C) +/- 1 °C	Comments
1508										Pump Started
1512	143.10	290	1.0	7.90	0.0741	77	8.41	0.3317	19.40	Pump Pressure 90 psi
1519	143.11	310	3.0	7.32	0.0265	96	8.82	0	18.61	
1525	143.10	230	4.5	6.99	0.0226	105	8.89	0.5523	18.35	
1531	143.11	450	7.0	6.49	1.823	129	14.77	4.311	18.92	Formation Water
1537	143.11	410	10.0	6.60	3.957	120	9.33	13.61	19.81	
1544	143.10	390	12.5	6.60	4.087	118	6.54	26.51	20.74	Bubbles in Flow Thru Cell
1550	143.11	370	15.0	6.60	4.093	117	4.69	0.2943	21.09	
1556	143.11	350	17.0	6.60	4.077	120	3.65	0.8029	21.09	
1602	143.11	320	18.5	6.60	4.061	121	3.00	5.166	21.06	Waiting on DO
1608	143.11	300	20.0	6.60	4.036	122	2.49	13.62	20.81	
1615	143.10	270	21.5	6.60	4.043	122	2.09	22.72	20.71	
1621	143.11	460	25.0	6.60	4.068	122	1.59	0.1771	21.09	
1627	143.12	480	28.0	6.60	4.089	121	1.25	5.873	21.18	
1633	143.12	480	31.0	6.60	4.079	119	1.01	2.371	21.59	
1640	143.11	480	33.0	6.60	4.093	119	0.79	3.397	21.71	Collect Sample
										* DO < 1.00 mg/L
										Jay Harbin okayed sample collection

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	8.88	15.44

Monitoring Well Logging Form

Project: Former Williams AFB Date: 12-1-09
 Location: ST035 - Former Building 760 Field Personnel: ARMANDO JIMINEZ / KEVIN KROGSTAD
 Well Identification: B760-MW11 Initial Water Level: 137.04 ft BTOC
 Well Diameter: 4" Well Depth: 153.31 ft BTOC
 Screen Interval: 115-155 ft bgs Well Volume: 10.57 gal
 Pump/Purging Device: BENNETT #02 Pump Intake Depth: 142.04 ft BTOC
 Sample ID/Sample Time: WG-B760-MW11-070/1449 Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L)	pH (SU) +/- 0.1	Specific Conductivity (mS/cm) +/- 5%	Oxidation-Reduction Potential (mV) +/- 10 mV	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <15 NTUs	Temperature (°C) +/- 1 °C	Comments
1309										Pump start
1313	137.06	280	1.5	7.75	0.1219	30	9.37	0.8624	22.34	
1318	137.06	200	3.0	7.66	0.0672	47	9.12	0.1409	22.50	
1323	137.05	250	4.5	7.34	0.0493	74	8.52	0.0568	23.99	
1328	137.06	270	5.5	7.07	0.0470	84	8.34	0.0	24.47	
1333	137.06	290	7.0	6.72	1.112	98	8.49	0.0	24.78	POSSIBLE FORMATION WATER
1338	137.06	280	8.5	6.65	4.360	108	6.76	0.0	25.45	
1343	137.05	280	9.5	6.65	4.775	110	5.53	9.989	25.66	
1348	137.05	270	11.0	6.64	4.466	115	4.23	11.04	26.35	
1354	137.06	350	13.0	6.64	4.515	121	3.47	11.29	26.44	
1359	137.06	310	15.0	6.64	4.517	122	3.17	18.60	26.59	
1404	137.06	305	16.0	6.63	4.525	125	2.71	14.99	26.39	
1409	137.06	305	17.5	6.63	4.498	127	2.37	9.026	25.96	
1414	137.06	290	18.5	6.63	4.483	128	2.24	10.56	25.65	
1419	137.05	290	20.0	6.63	4.465	128	2.01	14.86	25.17	WAITING FOR DO TO STABILIZE
1424	137.06	295	22.0	6.63	4.497	129	1.78	24.89	24.91	
1429	137.05	300	22.5	6.63	4.437	130	1.66	19.00	24.79	
1434	137.05	275	24.5	6.63	4.444	129	1.51	16.85	24.56	
1439	137.05	300	25.5	6.63	4.429	130	1.44	15.78	24.33	
1444	137.05	275	27.0	6.63	4.444	130	1.33	15.96	24.09	

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	9.88	15.44

Monitoring Well Purging Form

Project: FORMER WILLIAMS AFB Date: 12-01-2009
 Location: ST035 FORMER BUILDING 760 Field Personnel: ARMANDO JIMINEZ / KEVIN KROGSTAD
 Well Identification: B760-MW11 Initial Water Level: 137.04 ft BTOC
 Well Diameter: 4" Measured Well Depth: 153.31 ft BTOC
 Screen Interval: 115-155 FT BGS Well Volume: 10.57 GAL
 Pump/Purging Device: BENNETT #02 Pump Intake Depth: 142.04 ft BTOC
 Sample Time: 1449 Analyses/Notes: BTEX, MTBE (SW82608) ANDEDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L or gal)	Temperature (°C) ± 1 °C	Specific Conductivity (mS/cm) ± 5%	Dissolved Oxygen (mg/L or %) ± 10%	pH (SU) ± 0.1	Oxidation- Reduction Potential (mV) ± 10 mV	Turbidity (NTU) < 15 NTUs	Comments
1449	137.05	270	28.5	23.90	4.449	1.35	6.63	129	0.8092	COLLECT SAMPLE WG-B760-MW11-070
										COLLECT EQUIPMENT BLANK WG-B760-MW11-075

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.15	0.37	0.65	1.07	1.47	2.61	4.08
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	9.88	15.44

Monitoring Well Purging Form

Project: Former Williams AFB

Date: 12/2/09

Location: ST035 - Former Building 760

Field Personnel: Lisa Gregory / Steve Tivnan

Well Identification: B760-MW12

Initial Water Level: 143.21 ft BTOC

Well Diameter: 4"

Well Depth: 156.30 ft BTOC

Screen Interval: 116.5-156.5 ft bgs

Well Volume: 8.51 gal

Pump/Purging Device: Submersible Bennett Pump

Pump Intake Depth: 148.21 ft BTOC

Sample ID/Sample Time: W6-B760-MW12-070 / 11619

Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L)	pH (SU) +/- 0.1	Specific Conductivity (mS/cm) +/- 5%	Oxidation-Reduction Potential (mV) +/- 10 mV	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <15 NTUs	Temperature (°C) +/- 1 °C	Comments
1518	143.21	—	—	—	—	—	—	—	—	Pumping
1519	143.23	380	0.5	7.67	0.1850	177	9.79	1.082	19.25	
1525	143.23	320	2.0	7.18	0.0278	126	9.04	0.5855	18.59	
1546	143.23	280	9.0	6.72	4.018	-70	3.79	9.472	19.56	pumping groundwater.
1555	143.25	350	12.0	6.68	4.492	-72	1.90	2.057	21.07	
1558	143.25	330	13.5	6.68	4.589	-76	1.83	2.574	21.26	
1601	143.25	330	14.0	6.67	4.594	-79	1.63	2.962	21.42	
1604	143.25	330	14.5	6.67	4.629	-80	1.49	3.564	21.51	
1607	143.25	390	15.5	6.64	4.661	-77	1.31	1.549	21.51	
1610	143.25	390	16.5	6.65	4.693	-80	1.11	1.821	21.75	
1613	143.25	360	17.5	6.64	4.704	-80	0.96	1.770	21.81	
1616	143.25	340	18.5	6.66	4.713	-82	0.86	2.006	21.91	
1619	143.25	350	19.5	6.65	4.711	-83	0.81	2.270	21.92	Collecting Samples W6-B760-MW12

Lisa Gregory
12/2/09

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.95	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	9.88	15.44

Monitoring Well Logging Form

Project: Former Williams AFB

Date: 12/2/09

Location: ST035 - Former Building 760

Field Personnel: Lisa Gregory / Steve Tiunan

Well Identification: B760-MW13

Initial Water Level: 144 ft BTOC

Well Diameter: 4"

Well Depth: 155.10 ft BTOC

Screen Interval: 115-155 ft bgs

Well Volume: 7.21 gal

Pump/Purging Device: Submersible Bennett Pump

Pump Intake Depth: 149 ft BTOC

Sample ID/Sample Time: W6-B760-MW13-070 / 0950

Analyses/Notes: BTEX & MTBE (SW8260B) and EDB (SW8011)

Time	Water Level (ft BTOC)	Purge Rate (mL/min)	Volume Purged (L)	pH (SU) +/- 0.1	Specific Conductivity (mS/cm) +/- 5%	Oxidation-Reduction Potential (mV) +/- 10 mV	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <15 NTUs	Temperature (°C) +/- 1 °C	Comments
0841	144.02	—	—	—	—	—	—	—	—	Pumping
0844	144.02	280	1.0	6.53	0.0280	210	9.57	0.3382	8.53	
0854	144.02	150	3.5	6.58	0.0220	183	9.56	0.1922	9.48	
0856	144.05	400	4.0	6.50	0.0226	182	9.53	0.2348	10.08	
0917	144.04	280	10.0	6.73	2.943	148	4.07	0.1353	15.88	
0931	144.06	250	13.5	6.73	3.158	122	2.00	0.0514	18.24	
0942	144.05	280	17.0	6.74	3.312	114	1.49	0	19.67	
0945	144.05	350	18.0	6.73	3.314	112	1.33	0	19.98	
0949	144.07	310	18.5	6.74	3.330	108	1.30	0	20.25	
0950	—	—	—	—	—	—	—	—	—	Sample Collected, 0950 Equipment Blank 0950 0950 W6-B760-MW13-070 W6-B760-MW13-071

Steve Tiunan
12/2/09

Well Diameter (in)	0.5	1	2	3	4	6	8	10
Volume (gal/ft)	0.04	0.16	0.37	0.65	1.47	2.61	4.08	
Volume (L/ft)	0.03	0.15	0.61	1.40	2.46	5.56	9.88	15.44

Appendix B

IDW Disposal Documentation

Waste Profile Form for Arizona Generator's Liquid Profile Sheet

4014

15042

GENERATOR'S LIQUID PROFILE SHEET

WASTE CODE PROFILE CODE

PLEASE PRINT IN INK OR TYPE

INSTRUCTIONS FOR COMPLETING THIS FORM ARE ATTACHED

Renewal Date of Service Agreement:

LESOA Account Exec. #:

A. WHERE IS THE WASTE GENERATED?

- Generator Name: Air Force Real Property Agency (AFRPA) Western Environmental Regional Center
- Facility Address (site of waste generation): LF004 and ST035 at Former Williams AFB, Mesa, Arizona
- Generator City, State: McClellan, CA
- Zip Code: 95652
- Generator USEPA ID#: AZ7570028582
- Generator State ID#: N/A
- Technical Contact: William Lopp
- Phone: (210) 536-5030

B. WHERE ARE LIQUID ENVIRONMENTAL SOLUTIONS INVOICES SENT?

1. Generating Facility (A, above), or
- Company Name: MP Environmental Services, Inc.
 - Phone: () 602-278-6233
 - Address: 3045 South 51st Ave.
 - City, State: Phoenix, Arizona
 - Zip Code: 85204

C. PHYSICAL CHARACTERISTICS OF WASTE:

- Name of Waste: Non-regulated liquid, investigative derived waste (IDW)
Groundwater from site of Former Williams AFB gasoline station, and site with TCE/PCE groundwater contamination from
- Process Generating Waste: an unknown source.
- Special Handling Instructions: _____

4. Color	5. Does the waste have a strong incidental odor? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes if so, describe: _____	6. Physical State @ 70°F/21°C <input type="checkbox"/> Solid <input type="checkbox"/> Semi-Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Powder Other: _____	7. Layers <input type="checkbox"/> Multi-layered <input type="checkbox"/> Bi-layered <input checked="" type="checkbox"/> Single Phased	8. Specific Gravity Range _____/_____	9. Free Liquids <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Volume: 100%
10. pH: <input type="checkbox"/> <2 <input type="checkbox"/> >2 - <6 <input checked="" type="checkbox"/> 6 - 8 <input type="checkbox"/> > 8 - <12.5 <input type="checkbox"/> > 12.5 <input type="checkbox"/> Range <input type="checkbox"/> NA					
11. Flash Point: <input checked="" type="checkbox"/> None <input type="checkbox"/> <140°F/60°C <input type="checkbox"/> 140°F-199°F/60°C-83°C <input type="checkbox"/> 200°F/93°C <input type="checkbox"/> Closed Cup <input type="checkbox"/> Open Cup					

D. TRANSPORTATION INFORMATION

- Method of Shipment: Bulk Liquid Bulk Sludge Bulk Solid Drum/Box Other _____
- Annual Amounts/Units: 173,000 gallons
- Supplemental Information: None
- Is this a DOT hazardous material? No Yes (if so, complete 5,6 & 7)
- Hazard Class/ID# _____
- Reportable Quantities/Units (gals.) _____
- Shipping Name: _____

Check Box if additional information is attached.

Turn Page and Continue Side 2.

Form NHLW-005 (04/05) Liquid Environmental Solutions of Arizona
Profile Sheet

Waste Profile Form for Arizona Generator's Liquid Profile Sheet

E. CHEMICAL COMPOSITION

1.	RANGE MIN - MAX	2. Does this waste contain any of the following (provide concentration if known):
Water	99 - 100 %	
VOCs	Trace %	NO or LESS THAN or ACTUAL
	- %	PCB'S <input checked="" type="checkbox"/> <input type="checkbox"/> <50 ppm _____ ppm
	- %	Cyanides <input checked="" type="checkbox"/> <input type="checkbox"/> <50 ppm _____ ppm
	- %	Sulfides <input checked="" type="checkbox"/> <input type="checkbox"/> <50 ppm _____ ppm
	- %	Phenolics <input checked="" type="checkbox"/> <input type="checkbox"/> <50 ppm _____ ppm

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%
Totals: 100 %

F. METALS

1. Does the waste contain any of the following metals (provide concentration if known): NA

Arsenic	<input type="checkbox"/> < 5 or _____ ppm	Barium	<input type="checkbox"/> < 100 or _____ ppm	Calcium	<input type="checkbox"/> < .1 or _____ ppm
Chromium	<input type="checkbox"/> < 5 or _____ ppm	Lead	<input type="checkbox"/> < 5 or _____ ppm	Mercury	<input type="checkbox"/> < 0.2 or _____ ppm
Selenium	<input type="checkbox"/> < 1 or _____ ppm	Silver	<input type="checkbox"/> < 5 or _____ ppm	Copper	<input type="checkbox"/> < 5 or _____ ppm
Nickel	<input type="checkbox"/> < 5 or _____ ppm	Zinc	<input type="checkbox"/> < 5 or _____ ppm		

2. Indicate method used to determine concentration (if provided): EP TOX TCLP, or Total

G. GENERATOR CERTIFICATION

- By signing this profile sheet, the generator certifies that unless clearly stated above or in attachments:
- This waste is not a listed hazardous waste based on the following generator knowledge / testing:
 - CESQG - The generator has characterized his wastes and does not generate more than 100 kg/month of hazardous waste.
 - RCRA Empty - The waste material was generated from the clean-out of a RCRA empty vessel.
 - No listed waste generated - The generator is aware of the RCRA regulation and does not generate any RCRA listed waste streams including spent solvents.
 - Used oil - The generator has not mixed any hazardous waste into his used oil. Also, obtain a total halogen test showing the material is below 1000 ppm during prequalification.
 - The waste is not characteristic hazardous waste based on the following generator knowledge / testing:
 - (CESQG) - The generator has characterized his wastes and does not generate more than 100 kg/month of hazardous waste.
 - (No characteristic waste generated) - The generator is aware of the RCRA regulations and based on knowledge or test data, certifies that he does not generate any characteristic hazardous waste.
 - (Used oil) - The generator has not mixed any hazardous waste into his used oil. If ignitable waste is mixed with the oil, the mixture is not ignitable. If other characteristic hazardous waste is mixed with the used oil, the mixture passes all characteristics. The generator has also obtained a total halogen test showing the material is 1000 ppm during pre-qualification.

If Used Oil Boxes are Checked, Used Oil must be reclaimed if it fails TCLP.
 - The waste does not contain regulated quantities of PCB's (Polychlorinated Biphenyls).
 - This sheet and its attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the generator have been disclosed.
 - Liquid Environmental Solutions Definition of Liquid Waste (Form NHLW-002) has been read, signed and attached.

W B Lopp
4. Signature

William B. Lopp

6. Name (Type or Print)

AFCEE Program Manager and BEC

5. Title

17 Nov 2009

7. Date



DEPARTMENT OF THE AIR FORCE
AIR FORCE CENTER FOR ENGINEERING AND THE ENVIRONMENT
3300 SIDNEY BROOKS
BROOKS CITY-BASE TEXAS 78235-5112

17 November 2009

Mr. Matt Hoffman
MP Environmental Services, Inc.
3045 South 51st Avenue
Phoenix, Arizona 85043

SUBJECT: Liquid Non-Hazardous Waste Manifest Third Party Signature Authorization

Dear Mr. Hoffman:

Please be advised that a representative from MP Environmental Services, Inc. is authorized to sign a non hazardous waste manifest as an agent for the Air Force to initiate shipment of liquid waste to the Liquid Environmental Solutions disposal facility. This authorization applies to non-regulated liquid investigative waste from sites LF004 and ST035, generated during monitoring well sampling and development at the former Williams Air Force Base, located in Mesa, Arizona.

Thank you for your assistance in this matter. Please contact me at 210-536-5030 or william.lope@brooks.af.mil if you have any questions or comments.

Sincerely,

A handwritten signature in black ink that reads "W B Lopp".

WILLIAM B. LOPP
AFCEE Program Manager and BEC

cc: Mr. Jay Harbin, URS Corporation
Ms. Elspeth Sharp, URS Corporation



158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • <http://www.microbac.com>

Laboratory Report Number: L09110209

Client: Debra Bisson, URS Corporation, Austin, TX, 78729

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	<i>Team Chemist/Data Specialist</i>	kalbertson@microbac.com
Stephanie Mossburg	<i>Team Chemist/Data Specialist</i>	smossburg@microbac.com
Tony Long	<i>Team Chemist/Data Specialist</i>	tlong@microbac.com
Amanda Fickiesen	<i>Client Services Specialist</i>	afickiesen@microbac.com
Annie Brown	<i>Client Services Specialist</i>	abrown@microbac.com

This report was reviewed on November 16, 2009.

Handwritten signature of Kathy Albertson in black ink.

Kathy Albertson - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on November 16, 2009.

Handwritten signature of David E. Vandenberg in black ink.

David Vandenberg - Managing Director

State of origin: Arizona
Accrediting authority: Department of Health Services ID:AZ0723
QAPP: WURTSMITH
This report contains a total of 16 pages.

Look closer. Go further. Do more.



The logo for Microbac, featuring the word "Microbac" in a white serif font on a dark teal rectangular background.

Microbac Laboratories, Inc.
Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

Phone: 800.373.4071
Fax: 740.373.4835

Your data is now available online via our Web Access Portal!

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Contact your Microbac service representative to set up a *FREE* account today!

LOOK CLOSER, GO FURTHER, DO MORE.

Microbac Laboratories Inc.
REPORT NARRATIVE

Microbac Login No: L09110209

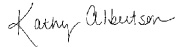
CHAIN OF CUSTODY: The chain of custody number was not designated.

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 4 degrees C.

SAMPLE MANAGEMENT: All samples received were intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: KRA

Approved: 16-NOV-09


LABORATORY REPORT

L09110209

11/16/09 14:33

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: URS Consultants
URS Corporation
9400 Amberglen Boulevard
Austin, TX 78729
Attention: Debra Bisson

Project Number: 2020.117
Project: Williams AFB-Soil
Site: WILLIAMS AFB, AZ

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
2009-11-09-LIQUID PROFILE 1	L09110209-01	8260B	1	11-NOV-09



Report Number: L09110209

Report Date : November 16, 2009

Sample Number: L09110209-01
 Client ID: 2009-11-09-LIQUID PROFILE
 Matrix: Water
 Workgroup Number: WG317230
 Collect Date: 11/09/2009 16:40
 Sample Tag: 01

PrePrep Method: NONE
 Prep Method: 5030C
 Analytical Method: 8260B
 Analyst: MES
 Dilution: 1
 Units: ug/L

Instrument: HPMS8
 Prep Date: 11/12/2009 13:46
 Cal Date: 11/04/2009 16:00
 Run Date: 11/12/2009 13:46
 File ID: 8M357912

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1,2-Tetrachloroethane	630-20-6		U	0.500	0.250
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	0.500	0.125
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,2-Dichloroethane	107-06-2		U	0.500	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dibromo-3-chloropropane	96-12-8		U	2.00	1.00
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,2-Dibromoethane	106-93-4		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,3-Dichloropropane	142-28-9		U	0.400	0.200
1,4-Dichlorobenzene	106-46-7		U	0.500	0.125
1-Chlorohexane	544-10-5		U	1.00	0.125
2,2-Dichloropropane	594-20-7		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	0.400	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	0.500	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	3.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	0.500	0.125
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	0.300	0.125
Chloromethane	74-87-3		U	1.00	0.250
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	0.500	0.250
Dibromochloromethane	124-48-1		U	0.500	0.250
Dibromomethane	74-95-3		U	1.00	0.250
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Hexachlorobutadiene	87-68-3		U	0.600	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
Methylene chloride	75-09-2		U	1.00	0.250
Methyl t-butyl ether (MTBE)	1634-04-4		U	5.00	0.500
MEK (2-Butanone)	78-93-3		U	10.0	2.50
MIBK (methyl isobutyl ketone)	108-10-1		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
n-Propylbenzene	103-65-1		U	1.00	0.125
m-,p-Xylene	136777-61-2		U	2.00	0.500
Naphthalene	91-20-3		U	1.00	0.200
o-Xylene	95-47-6		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
Styrene	100-42-5		U	1.00	0.125
Trichloroethene	79-01-6	0.658	F	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Tetrachloroethene	127-18-4	0.434	F	1.00	0.250

1 of 2



Report Number: L09110209

Report Date : November 16, 2009

Sample Number: L09110209-01
 Client ID: 2009-11-09-LIQUID PROFILE
 Matrix: Water
 Workgroup Number: WG317230
 Collect Date: 11/09/2009 16:40
 Sample Tag: 01

PrePrep Method: NONE
 Prep Method: 5030C
 Analytical Method: 8260B
 Analyst: MES
 Dilution: 1
 Units: ug/L

Instrument: HPMS8
 Prep Date: 11/12/2009 13:46
 Cal Date: 11/04/2009 16:00
 Run Date: 11/12/2009 13:46
 File ID: 8M357912

Analyte	CAS. Number	Result	Qual	RL	MDL
Toluene	108-88-3	1.63		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichlorofluoromethane	75-69-4		U	1.00	0.250
Vinyl chloride	75-01-4		U	1.00	0.250
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	103	85	115		
1,2-Dichloroethane-d4	90.0	72	119		
Toluene-d8	101	81	120		
4-Bromofluorobenzene	93.9	76	119		

U Undetected; the analyte was analyzed for, but not detected.

F Found; the analyte was positively identified with concentration above MDL but below RL.



LABORATORY REPORT

L09110209

11/16/09 14:33

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: URS Consultants
URS Corporation
9400 Amberglen Boulevard
Austin, TX 78729
Attention: Debra Bisson

Project Number: 2020.117
Project: Williams AFB-Soil
Site: WILLIAMS AFB, AZ

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
2009-11-09-LIQUID PROFILE 1	L09110209-01	8015B	1	11-NOV-09



Report Number: L09110209

Report Date : November 16, 2009

Sample Number: <u>L09110209-01</u>	PrePrep Method: <u>NONE</u>	Instrument: <u>HP3</u>
Client ID: <u>2009-11-09-LIQUID PROFILE</u>	Prep Method: <u>5030C/5035A</u>	Prep Date: <u>11/13/2009 19:01</u>
Matrix: <u>Water</u>	Analytical Method: <u>8015B</u>	Cal Date: <u>08/26/2009 14:59</u>
Workgroup Number: <u>WG317420</u>	Analyst: <u>FJB</u>	Run Date: <u>11/13/2009 19:01</u>
Collect Date: <u>11/09/2009 16:40</u>	Dilution: <u>1</u>	File ID: <u>3G33787</u>
Sample Tag: <u>01</u>	Units: <u>mg/L</u>	

Analyte	CAS. Number	Result	Qual	RL	MDL
Gasoline Range Organics	8006-61-9		U	0.100	0.0450

Surrogate	% Recovery	Lower	Upper	Qual
Chlorobenzene(s)	74.0	74	138	

U Undetected; the analyte was analyzed for, but not detected.



LABORATORY REPORT

L09110209

11/16/09 14:33

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: URS Consultants
URS Corporation
9400 Amberglen Boulevard
Austin, TX 78729
Attention: Debra Bisson

Project Number: 2020.117
Project: Williams AFB-Soil
Site: WILLIAMS AFB, AZ

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
2009-11-09-LIQUID PROFILE 1	L09110209-01	8015B	1	11-NOV-09



Report Number: L09110209

Report Date : November 16, 2009

Sample Number: L09110209-01
 Client ID: 2009-11-09-LIQUID PROFILE
 Matrix: Water
 Workgroup Number: WG317205
 Collect Date: 11/09/2009 16:40
 Sample Tag: 01

PrePrep Method: NONE
 Prep Method: 3510C
 Analytical Method: 8015B
 Analyst: HAV/MDC
 Dilution: 1
 Units: ug/L

Instrument: HP14
 Prep Date: 11/11/2009 13:30
 Cal Date: 11/12/2009 14:24
 Run Date: 11/13/2009 01:11
 File ID: 14G24232.R

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range (C10-C28)	68334-30-5		U	521	260
Hydrocarbon-C10-C22			U	521	260
Hydrocarbon-C22-C32			U	521	260
Surrogate	% Recovery	Lower	Upper	Qual	
o-Terphenyl	98.4	57	132		
Octacosane	69.5	26	152		

U Undetected; the analyte was analyzed for, but not detected.



Microbac Laboratories Inc.

Analyst Listing

November 16, 2009

ADC - ANTHONY D. CANTER	AJF - AMANDA J. FICKIESEN	AJM - ANTHONY J. MOSSBURG
ALB - ANNIE L. BROWN	AML - ANTHONY M. LONG	BLG - BRENDA L. GREENWALT
BRG - BRENDA R. GREGORY	CAA - CASSIE A. AUGENSTEIN	CAF - CHERYL A. FLOWERS
CAH - CHARLES A. HALL	CEB - CHAD E. BARNES	CLC - CHRYS L. CRAWFORD
CLW - CHARISSA L. WINTERS	CPD - CHAD P. DAVIS	CSH - CHRIS S. HILL
DDE - DEBRA D. ELLIOTT	DEL - DON E. LIGHTFRITZ	DEV - DAVID E. VANDENBERG
DGB - DOUGLAS G. BUTCHER	DIH - DEANNA I. HESSON	DLB - DAVID L. BUMGARNER
DLP - DOROTHY L. PAYNE	DLR - DIANNA L. RAUCH	DR - DEANNA ROBERTS
ECL - ERIC C. LAWSON	EDA - ERIN D. AGEE	ERP - ERIN R. PORTER
FJB - FRANCES J. BOLDEN	HAV - HEMA VILASAGAR	HJR - HOLLY J. REED
JBK - JEREMY B. KINNEY	JDH - JUSTIN D. HESSON	JKT - JANE K. THOMPSON
JWR - JOHN W. RICHARDS	JWS - JACK W. SHEAVES	JYH - JI Y. HU
KEB - KATHRYN E. BARNES	KHR - KIM H. RHODES	KRA - KATHY R. ALBERTSON
LKN - LINDA K. NEDEFF	LSB - LESLIE S. BUCINA	MDA - MIKE D. ALBERTSON
MDC - MICHAEL D. COCHRAN	MES - MARY E. SCHILLING	MMB - MAREN M. BEERY
MRT - MICHELLE R. TAYLOR	MSW - MATT S. WILSON	NPM - NATHANIEL P. MILLER
PDM - PIERCE D. MORRIS	RAH - ROY A. HALSTEAD	RB - ROBERT BUCHANAN
REK - ROBERT E. KYER	RLK - ROBIN L. KLINGER	RWC - RODNEY W. CAMPBELL
SDH - SHANA D. HINYARD	SLM - STEPHANIE L. MOSSBURG	SLP - SHERI L. PFALZGRAF
TIP - TAE I. PARRISH	TMB - TIFFANY M. BAILEY	TMM - TAMMY M. MORRIS
VC - VICKI COLLIER	WTD - WADE T. DELONG	

November 16, 2009

Qualkey: AFCEE40

<u>Qualifier</u>	<u>Description</u>
*	Surrogate or spike compound out of range
*	This surrogate or spike analyte was diluted out.
>	Result is greater than the associated numerical value.
B	The analyte was found in an associated blank, as well as in the sample.
D	This analyte was quantified at a secondary dilution.
F	Found; the analyte was positively identified with concentration above MDL but below RL.
J	The analyte was positively identified, but the quantitation is an estimate.
M	Matrix effect; the concentration is an estimate due to matrix effect.
NF	This compound was not detected by library search.
NFL	No free liquid was observed for this sample.
NS	This compound was not spiked in the LCS, MS or MSD.
Q	One or more quality control criteria failed. See narrative.
R	Because of quality control deficiencies for this analyte, this data may be rejected.
S	Field screening data
U	Undetected; the analyte was analyzed for, but not detected.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.



3-day TAT

TESTAMERICA Microbac

Chain of Custody Record

Temperature on Receipt

Drinking Water? Yes No

THE LEADER IN ENVIRONMENTAL TESTING

4124 (0907)

Client: **URS** Project Manager: **Jay Harbin / Deb Bisson** Date: **11/09/09** Chain of Custody Number: **409262**

Address: **9400 Amberglen Blvd** Telephone Number (Area Code)/Fax Number: **512-419-5417** Lab Number: **1** of **1**

City: **Austin** State: **TX** Zip Code: **78701** Lab Contact: **Shel Waldson** Analysis (Attach list if more space is needed)

Project Name and Location (State): **Williams AFB - T-088** Carrier/Waybill Number: **409262**

Contract/Purchase Order/Quote No.: **409262** Sample I.D. No. and Description: **2009-11-09-Liquid Profile 1**

(Containers for each sample may be combined on one line)

Date	Time	Matrix				Containers & Preservatives					Special Instructions/Conditions of Receipt			
		Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc2	NaOH	
11/09/09	16:40	X				2		6					VCC's (8260)	
													TPH/KRO (805B)	
													DRC (805B)	

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other **3-day TAT**


QC Requirements (Specify):

1. Relinquished By: **Shel Waldson** Date: **11/10/09** Time: **1645**

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Microbac OVD
Received: 11/11/2009 10:49
By: ERIN PORTER

Barcode:  221000002869

Signature: **Erin Porter**

Comments: **3-Day TAT**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



100002869

COOLER INSPECTION



Received: 11/11/2009 10:49
Delivery Method: FedEx
Opened By: Erin R Porter
Comments:

Login(s): L09110209

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0014233	G	4.0	34575018510000028700702000662003	409262	

1	Yes	Were shipping coolers sealed?
2	Yes	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	Yes	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were correct perservatives used? (water only)
9	NA	Were pH ranges acceptable? (voa's excluded)
10	Yes	Were VOA samples free of headspace (<6mm)?
11	Yes	Were samples received within EPA hold times?

Look closer. Go further. Do more.

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.
Internal Chain of Custody Report

Login: L09110209
Account: 2020
Project: 2020.117
Samples: 1
Due Date: 16-NOV-2009

Samplenum **Container ID** **Products**
L09110209-01 632719 826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	11-NOV-2009 13:01	JKT	
2	ANALYZ	L1	ORG4	11-NOV-2009 13:26	MES	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	11-NOV-2009 13:01	JKT	
2	ANALYZ	L1	ORG4	11-NOV-2009 13:26	MES	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	11-NOV-2009 13:01	JKT	
2	ANALYZ	L1	ORG4	11-NOV-2009 13:26	MES	JKT

Samplenum **Container ID** **Products**
L09110209-01 632720 GRO

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	11-NOV-2009 13:01	JKT	
2	ANALYZ	L1	ORG3	11-NOV-2009 13:26	MES	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	11-NOV-2009 13:01	JKT	
2	ANALYZ	L1	ORG3	11-NOV-2009 13:26	MES	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	11-NOV-2009 13:01	JKT	
2	ANALYZ	L1	ORG3	11-NOV-2009 13:26	MES	JKT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L09110209

Account: 2020

Project: 2020.117

Samples: 1

Due Date: 16-NOV-2009

Samplenum **Container ID** **Products**
L09110209-01 **632721** **DRO-SPE**

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	11-NOV-2009 13:01	JKT	
2	PREP	W1	EXT	11-NOV-2009 13:07	CEB	JKT
3	DISP	EXT	DISP	11-NOV-2009 16:11	RB	RB
4	ANALYZ*	EXT	SEMI	11-NOV-2009 17:00	HAV	CEB

****Sample extract/digestate***

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	11-NOV-2009 13:01	JKT	
2	STORE	W1	A1	13-NOV-2009 10:31	JKT	JKT

****Sample extract/digestate***

- A1 - Sample Archive (COLD)
- A2 - Sample Archive (AMBIENT)
- F1 - Volatiles Freezer in Login
- V1 - Volatiles Refrigerator in Login
- W1 - Walkin Cooler in Login





LIQUID ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

59582

LF004 & ST035

10000

Generator Name	Name: <u>AFRPA WESTERN ENV. REGIONAL</u>	Generator Address	Address: <u>FORMER WILLIAMS AFB</u>	
	Phone: <u>(210) 536-5030</u>		City: <u>MESA</u> State: <u>AZ</u> Zip: _____	

Waste Type	<input type="checkbox"/> Grease Trap <input type="checkbox"/> Grit Trap <input type="checkbox"/> Septic/Chemical Toilet <input checked="" type="checkbox"/> Non-Industrial <input type="checkbox"/> Industrial <input type="checkbox"/> Special
------------	---

I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pursuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

Generator Rep. Name (please print)	<u>MATT HOFFEMAN (AS AGENT OF)</u>	Generator Rep. Signature	MPE 11871
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Transporter Name	Name: <u>MPE ENVIRONMENTAL</u> Phone: <u>(602) 278-6233</u>	Transporter Address	Address: <u>MPE 3045 S. 51ST AVE</u> City: <u>PHOENIX</u> State: <u>AZ</u> Zip: <u>85043</u>
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Waste Removed (Gallons)	<u>5500</u>	Date	Time
		<u>11-20-2009</u>	

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (please print)	<u>DAVE L</u>	Driver Signature	
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Disposal Facility	Liquid Environmental Solutions of Arizona	Address	5159 West Van Buren Street Phoenix, AZ 85043
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Waste Received (Gallons)	<u>5500</u>	Date	Time
		<u>11-20-09</u>	

Facility Rep. Name (please print)	<u>Kevin Brandt</u>	Facility Rep. Signature	
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WHITE - Generator Final Copy YELLOW - Liquid Environmental Solutions Copy GOLDENROD - Transporter Copy PINK - Generator 1st Copy



LIQUID ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

59581

LFO04 + ST03S 10000

Generator Name	Name: <u>AFRPA WESTERN ENV. REGIONAL</u> Phone: <u>(210) 536-5030</u>	Generator Address	Address: <u>FORMER WILLIAMS AFB</u> City: <u>MESA</u> State: <u>AZ</u> Zip: _____
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(Check for any special handling requirements. Agency for hazardous waste management, 2012 Army Regulation 160-400, 160-401, 160-402, 160-403, 160-404, 160-405, 160-406, 160-407, 160-408, 160-409, 160-410, 160-411, 160-412, 160-413, 160-414, 160-415, 160-416, 160-417, 160-418, 160-419, 160-420, 160-421, 160-422, 160-423, 160-424, 160-425, 160-426, 160-427, 160-428, 160-429, 160-430, 160-431, 160-432, 160-433, 160-434, 160-435, 160-436, 160-437, 160-438, 160-439, 160-440, 160-441, 160-442, 160-443, 160-444, 160-445, 160-446, 160-447, 160-448, 160-449, 160-450, 160-451, 160-452, 160-453, 160-454, 160-455, 160-456, 160-457, 160-458, 160-459, 160-460, 160-461, 160-462, 160-463, 160-464, 160-465, 160-466, 160-467, 160-468, 160-469, 160-470, 160-471, 160-472, 160-473, 160-474, 160-475, 160-476, 160-477, 160-478, 160-479, 160-480, 160-481, 160-482, 160-483, 160-484, 160-485, 160-486, 160-487, 160-488, 160-489, 160-490, 160-491, 160-492, 160-493, 160-494, 160-495, 160-496, 160-497, 160-498, 160-499, 160-500)

Waste Type	<input type="checkbox"/> Grease Trap <input type="checkbox"/> Grit Trap <input type="checkbox"/> Septic/Chemical Toilet <input checked="" type="checkbox"/> Non-Industrial <input type="checkbox"/> Industrial <input type="checkbox"/> Special
-------------------	---

I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pursuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

Generator Rep. Name (please print)	<u>MATT HOFFMAN (AS AGENT OF)</u>	Generator Rep. Signature	<u>[Signature]</u> MPE 11891
--	-----------------------------------	---------------------------------	---------------------------------

Transporter Name	Name: <u>LPS Environmental</u> Phone: <u>(602) 278-6233</u>	Transporter Address	Address: <u>MR 3045 S. 51ST AVE</u> City: <u>PHOENIX</u> State: <u>AZ</u> Zip: <u>85043</u>
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Waste Removed (Gallons)	<u>5600</u>	Date	Time
		<u>11-20-2009</u>	

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (please print)	<u>DAVE L.</u>	Driver Signature	<u>[Signature]</u>
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Disposal Facility	<u>Liquid Environmental Solutions of Arizona</u>	Address	<u>5159 West Van Buren Street Phoenix, AZ 85043</u>
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Waste Received (Gallons)	<u>5600</u>	Date	Time
		<u>11-20-09</u>	

Facility Rep. Name (please print)	<u>Kevin Brandt</u>	Facility Rep. Signature	<u>[Signature]</u>
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WHITE - Generator Final Copy YELLOW - Liquid Environmental Solutions Copy GOI DENROD - Transporter Copy PINK - Generator 1st Copy



LIQUID ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

113826

59586

LF004 + ST035

10000

Generator Name	Name: <u>AFRPA WEST ENV. REGION</u>	Generator Address	Address: <u>FORMER WILLIAMS AFB</u>
	Phone: <u>(210) 536-5030</u>		City: <u>MESA</u> State: <u>AZ</u> Zip: _____

Waste Type	<input type="checkbox"/> Grease Trap <input type="checkbox"/> Grit Trap <input type="checkbox"/> Septic/Chemical Toilet <input checked="" type="checkbox"/> Non-Industrial <input type="checkbox"/> Industrial <input type="checkbox"/> Special
------------	---

I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pursuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

MPE # 11891

Generator Rep. Name (please print)	<u>MATT HOFFMAN (AS AGENT OF)</u>	Generator Rep. Signature	
------------------------------------	-----------------------------------	--------------------------	--

Transporter Name	Name: <u>ME ENVIRONMENTAL SRVC, INC.</u>	Transporter Address	Address: <u>3045 S. 51ST AVENUE</u>
	Phone: <u>(602) 278-6233</u>		City: <u>PHOENIX</u> State: <u>AZ</u> Zip: <u>85043</u>

Waste Removed (Gallons)	<u>5,500</u>	Date	Time
		<u>11-25-09</u>	<u>7:30 AM</u>

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (please print)	<u>Joey Lockmense</u>	Driver Signature	
----------------------------	-----------------------	------------------	--

Disposal Facility	<u>Liquid Environmental Solutions of Arizona</u>	Address	<u>5159 West Van Buren Street</u> <u>Phoenix, AZ 85043</u>
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Waste Received (Gallons)	<u>5500</u>	Date	Time
		<u>11-25-09</u>	

Facility Rep. Name (please print)	<u>Kevin Brandt</u>	Facility Rep. Signature	
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WHITE - Generator Final Copy YELLOW - Liquid Environmental Solutions Copy GOLDENROD - Transporter Copy PINK - Generator 1st Copy

ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

59587

			LF004+ST035	10000
Generator Name	Name: <u>AFRPA WEST ENV. REGION</u> Phone: <u>(210) 536-5030</u>	Generator Address	Address: <u>FORMER WILLIAMS AFB</u> City: <u>MESA</u> State: <u>AZ</u> Zip: _____	



Waste Type	<input type="checkbox"/> Grease Trap <input type="checkbox"/> Grit Trap <input type="checkbox"/> Septic/Chemical Toilet <input checked="" type="checkbox"/> Non-Industrial <input type="checkbox"/> Industrial <input type="checkbox"/> Special
-------------------	---

I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pursuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

MPE # 11891

Generator Rep. Name (please print)	MATT HOFFMAN (AS AGENT OF)	Generator Rep. Signature	
--	----------------------------	---------------------------------	--

Transporter Name	Name: <u>MPE ENVIRONMENTAL SERVC., INC.</u> Phone: <u>(602) 278-6233</u>	Transporter Address	Address: <u>3045 S. 51ST AVENUE</u> City: <u>PHOENIX</u> State: <u>AZ</u> Zip: <u>85043</u>
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Waste Removed (Gallons)	5,500	Date	11-24-09	Time	11:15 AM
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I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (please print)	Joey Lademorese	Driver Signature	
--------------------------------------	-----------------	-------------------------	--

Disposal Facility	Liquid Environmental Solutions of Arizona	Address	5159 West Van Buren Street Phoenix, AZ 85043
--------------------------	---	----------------	---

Waste Received (Gallons)	5500	Date	11-25-09	Time	
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Facility Rep. Name (please print)	Kevin Brandt	Facility Rep. Signature	
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WHITE - Generator Final Copy YELLOW - Liquid Environmental Solutions Copy GOLDENROD - Transporter Copy PINK - Generator 1st Copy

Appendix C
Data Summary Reports

May 2009 Event

Final

Site ST035

**Former Building 760
Data Summary, May 2009 Event**

FORMER WILLIAMS AIR FORCE BASE
MESA, ARIZONA

April 2010

Prepared for:
Air Force Real Property Agency and
Air Force Center for Engineering and the Environment
Base Conversion Directorate

Contract Number: FA8903-08-D-8783
Project Number: YZJU20097104
Task Order: 0058

Prepared by:
URS Corporation
9400 Amberglen Boulevard
Austin, Texas 78729

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Attachments

- Attachment A - Analytical Results
- Attachment B - Cross-Reference Table and the Holding Time Table
- Attachment C - Summary of the QC Results
- Attachment D - Detailed QC Results
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1.0 INTRODUCTION

URS Corporation (URS) has prepared this Data Summary Report for former Williams Air Force Base (AFB) under Delivery Order (DO) 0058, Contract No. FA8903-08-D-8783. This Data Summary Report covers the May 2009 Groundwater Monitoring Event at ST035, Building 760.

This document is divided into four sections. Section 1.0 presents the introduction. Section 2.0 presents the analytical results. Section 3.0 presents a summary of the quality assurance (QA)/quality control (QC) results. Section 4.0 presents the references.

Five attachments are included in this document. Attachment A presents the analytical results. Attachment B presents the cross-reference table and the holding time table. Attachment C presents a summary of the QC results. Attachment D presents the detailed QC results. Attachment E presents copies of the chain-of-custody forms (COC).

During the investigation at former Williams AFB, eight groundwater samples, one field duplicate, one equipment blank (EB), and two trip blanks (TBs) were sampled by URS and analyzed for 1,2-dibromoethane and volatile organic compounds (VOCs). Sample distribution is presented in Table 1-1.

The QC data presented in this report have been evaluated according to the QA objectives in the *Final Basewide Sampling and Analysis Plan (BSAP), Former Williams Air Force Base, Mesa, Arizona* (URS, June 2009). These objectives represent accuracy and precision performance goals for 1,2-dibromoethane and VOC analyses. The results indicate that the data are acceptable and usable for characterizing 1,2-dibromoethane and VOC concentrations in the groundwater at ST035.

The results reported for field parameters were not evaluated. These results are to be used for screening purposes only and are not discussed in this report. However, the results for field parameters are provided in Attachment A.

Table 1-1. Sample Distribution Table

Sample ID	Laboratory ID	Date Sampled	1,2-Dibromoethane SW8011	VOCs SW8260B
WG-B760-MW06R-053	L09050209-09	5/6/2009	X	X
WG-B760-MW07R-050	L09050209-01	5/6/2009	X	X
WG-B760-MW08R-050	L09050209-05	5/6/2009	X	X
WG-B760-MW09-050	L09050209-07	5/6/2009	X	X
WG-B760-MW10-050	L09050189-01	5/7/2009	X	X
WG-B760-MW11-050	L09050209-06	5/6/2009	X	X
WG-B760-MW12-050	L09050189-01	5/7/2009	X	X
WG-B760-MW13-050	L09050209-02	5/6/2009	X	X
Field Duplicate				
WG-B760-MW-09-051	L09050209-08	5/6/2009	X	X
Equipment Blank				
WG-B760-MW13-055	L09050209-03	5/6/2009	X	X
Trip Blanks				
WQ-ST035-May0901	L09050209-04	5/6/2009	X	X
WQ-ST035-May0902	L09050189-03	5/7/2009	X	X

X - Analyzed by Microbac Laboratories Inc., Marietta, Ohio.

ID - Identification.

VOC - Volatile organic compound.

2.0 ANALYTICAL RESULTS

Eight groundwater monitoring wells at ST035 were sampled and analyzed for 1,2-dibromoethane using U.S. Environmental Protection Agency (EPA) Method SW8011 and VOCs using EPA Method SW8260B by Microbac Laboratories Inc. in Marietta, Ohio.

The samples were prepared and analyzed in accordance with the procedures published in SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (EPA, Office of Solid Waste and Emergency Response, December 1996, Revision 3 and subsequent revisions). Sample results are presented in Attachment A.

3.0 SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL ACTIVITIES

The QC data associated with the analysis of samples collected for the ST035, Building 760 May 2009 Groundwater Monitoring Event were reviewed and analyzed to determine if measurements were made according to the specifications of the *BSAP*. Results of calibration samples, blank samples, and sample spikes were compared to the acceptance criteria specified in the *BSAP*. The conclusion of this evaluation is that the results are valid measurements within the acceptance criteria specified in the *BSAP* with the limitations specified in this Data Summary Report, and may be used to characterize 1,2-dibromoethane and VOCs in groundwater.

3.1 Quality Assurance/Quality Control Approach

QC data provide information for identifying and defining qualitative and quantitative limitations associated with measurement data. The following key types of QC samples provide the primary basis for quantitatively evaluating data quality:

- Blanks;
- Standards;
- Spikes; and
- Duplicate samples.

Additionally, samples are evaluated for compliance with established holding times and with prescribed sensitivity requirements (detection limits).

3.1.1 Blank Samples

Blanks are QC samples designed to detect the introduction of contamination or other artifacts into the sampling and analytical processes. This is an especially important role in measurement programs involving trace-level analyses.

Method Blanks – Method blanks (MBs) are aliquots of an analyte-free water or solid matrix that are processed through the entire preparation and analytical measurement techniques, in the same manner as investigative field samples, and provide an indication of systematic contamination, which may have been introduced by the preparation of measurement systems. When evidence of contamination is indicated by blank values above pre-established levels, corrective action is initiated to identify and eliminate the source of contamination.

Initial Calibration Blanks/Continuing Calibration Blanks – Initial calibration blanks (ICBs) and continuing calibration blanks (CCBs) are analyte-free water that are analyzed at the beginning of an analytical run and every ten samples. When evidence of contamination is indicated by blank values above pre-established levels, corrective action is initiated to identify and eliminate the source of contamination.

Equipment Blanks – EB samples are collected by pouring reagent-grade water over decontaminated field equipment. EBs provide information regarding both field and laboratory

contamination, but are not used to "control" either the sampling or the analytical processes. Results from EBs are compared to field concentrations to identify possible cross-contamination.

Trip Blanks – TB samples are collected by filling volatile organic analysis (VOA) vials in the laboratory with organic-free water and shipping them to the field. They accompany the VOC samples from the time of collection through analyses in the laboratory. TBs are used to assess the potential introduction of contaminants from sample containers or during transportation and storage. TBs will be collected at a frequency of one per shipping container of VOC samples. The blank data for this project were evaluated using the five-times rule or ten-times for common laboratory analytes, which requires that the concentration detected in the blank sample be multiplied by a factor of five or ten. If five or ten times the concentration detected in the blank exceeds the concentration in the sample, then the result is flagged with a "B" and considered to be similar to blank concentration.

3.1.2 Standards

Three types of standards were included in this program. These were initial calibrations (ICALs), second-source calibration verification (SSCV) standards, and calibration verification standards.

Initial Calibration – ICALs are performed as required for each analytical method, using a range of calibration standards containing all analytes with the lowest standard used to define the reporting limit (RL) for each analyte. These standards are used to determine the calibration range of the instrument.

Second-Source Calibration Verification Standard – A SSCV standard containing all of the analytes is analyzed immediately following an ICAL. This standard is from a different source than the standard used in the ICAL. The SSCV verifies that the ICAL is valid.

Initial Calibration Verification Standards/Continuing Calibration Standards – Initial calibration verification (ICV) and continuing calibration verification (CCV) standards containing all of the analytes are analyzed daily to demonstrate acceptable performance of the analytical system. If the ICVs or CCVs do not meet the acceptance criteria, corrective action is required before samples are analyzed.

3.1.3 Spike Samples

Four types of spiked sample analyses were included in this program. These were surrogates, internal standards (ISs), laboratory control samples (LCSs), and matrix spikes (MSs). Results of spike analyses were used to estimate measurement accuracy.

Surrogate Spikes – All samples are spiked with one or more surrogate compounds, which are chemically similar to the analytes of interest, but are not expected to be present in the actual field samples. Recovery of these surrogate compounds gives an estimate of the effectiveness of the extraction and analysis for that single sample.

Internal Standards – ISs are measured amounts of certain compounds added after preparation or extraction of sample. They are used in an IS calibration method to correct sample results

affected by column injection losses, purging losses, or viscosity effects. ISs shall be added to environmental samples, controls, and blanks, in accordance with the method requirements.

Laboratory Control Samples – LCSs are used to assess analytical performance under a given set of standard conditions. These are samples prepared in an analyte-free water or solid matrix containing all of the analytes of interest spiked at known concentrations from standards that are different than the ones used for ICALs. Typically analyzed with each analytical batch, LCSs may be used to estimate analytical bias and accuracy by comparing measured results to theoretical concentrations. Although matrix effects are not addressed as with MSs and surrogates, LCSs allow batch-to-batch variability to be considered and are useful in identifying trends.

Matrix Spikes – MSs are field samples to which known concentrations of the analytes of interest have been added. Usually expressed as a percentage of the spiked amount, spike recovery can be considered an indication of measurement accuracy and extraction efficiency in the actual sample matrix.

3.1.4 Duplicate Samples

Duplicate samples are designed to provide estimates of precision. Precision is a measure of agreement between two measurements made under similar conditions. Results are presented in the following sections for the analysis of duplicate field samples, laboratory control sample duplicates (LCSDs), and matrix spike duplicates (MSDs).

Duplicate Field Samples – Duplicate field samples are used as indicators of measurement data precision. The analysis of duplicate samples involves replicating sample collection (and the associated sample handling activities), as well as the sample preparation and analysis. Precision estimates based on duplicate sample results incorporate both sampling and analytical variability, and may be affected by sample heterogeneity (for very turbid samples).

Duplicate Laboratory Spike Samples – LCSD samples are used as indicators of overall measurement data precision. The analysis of LCSD samples involves spiking a known amount of concentrations into two fractions of a clean matrix, preparing, and analyzing with the field samples. Precision estimates based on LCSD sample results incorporate preparation and analytical variability.

Duplicate Matrix Spike Samples – MSD samples are used as indicators of overall measurement data precision. The collection and analysis of MSD samples involves collecting three fractions of the same sample, spiking two of the three fractions, preparing, and analyzing the samples. Precision estimates based on MSD sample results incorporate both sampling and analytical variability, and may be affected by sample heterogeneity (for very turbid samples).

3.1.5 Holding Times and Sample Preservation

Maximum holding times and sample preservation techniques have been established by the EPA for each method to prevent possible change in concentration of analytes of interest over time. For example, analytes of interest may be lost because of biological degradation. Adherence to

holding time and preservation requirements is reviewed while analytical measurement data are qualitatively evaluated.

3.1.6 Dual Column Confirmation

The confirmation columns confirm the identity and concentration of the compound of interest. If the compound is found on both columns the identity is considered confirmed; however, if the concentration differs by more than a relative percent difference (RPD) of 40% then the concentration is considered estimated and the result is qualified with a “J”.

3.1.7 Data Flagging

The data were reviewed in accordance with the *BSAP* and data flags were assigned in accordance with the *BSAP*.

Concentrations that were below the method detection limits (MDLs) and RLs were qualified with “F” as estimated and are not discussed in this report.

3.2 1, 2-Dibromoethane by SW8011

Eight groundwater samples, one field duplicate, one EB, and two TBs were collected and analyzed for 1,2-dibromoethane by EPA Method SW8011. Holding times, sample preservation, dual column confirmation, calibrations, blanks, spikes, and duplicates were evaluated and met acceptance criteria.

Completeness

All of the 1,2-dibromoethane data are usable; therefore, the 95% completeness objective for groundwater samples was met.

3.3 Volatile Organic Compounds by SW8260B

Eight groundwater samples, one field duplicate, one EB, and two TBs were collected and analyzed for VOCs by EPA Method SW8260B. Holding times, sample preservation, calibrations, blanks, spikes, and duplicates were evaluated. All QC tests except calibrations, blanks, and spikes were acceptable. Calibrations, blanks, and spikes are discussed below.

Calibrations

All ICALs and SSCVs were acceptable.

Several ICV and CCV recoveries were outside acceptance criteria and are discussed below:

- Dichlorodifluoromethane and methyl t-butyl ether were recovered high in the ICV analyzed on 6 May 2009. Dichlorodifluoromethane was not detected in the associated samples; therefore, no qualifications were made. The detected result for methyl t-butyl ether in the associated sample was qualified with “JH” as estimated/biased high.
- Bromomethane, dichlorodifluoromethane, and trichlorofluoromethane were recovered high in the CCV analyzed on 12 May 2009. These compounds were not detected in the associated samples; therefore, no qualifications were made.

Sample results qualified due to calibrations are presented in Table 3.3-1.

Blanks

Three types of blanks were analyzed: TBs, EB, and MBs.

VOCs were not detected in the TBs or EB.

Three MBs were analyzed for VOCs with samples. Methylene chloride was detected in one MB and hexachlorobutadiene and naphthalene were detected in two MBs. All concentrations were above the MDLs but below the RLs. Hexachlorobutadiene was not detected in the associated samples; therefore, no qualifications were made. Detected results in associated samples for methylene chloride were greater than ten times the MB concentrations; therefore, no qualifications were made. Detected results for naphthalene in associated samples within five times the MB concentrations were qualified with “B” as similar to the blank.

Sample results qualified due to MBs are presented in Table 3.3-2.

Spikes

Four types of spikes were analyzed: surrogates, ISs, LCSs, and MSs.

Three ISs and four surrogates were spiked into every field and QC samples. All recoveries were within acceptance criteria.

Four LCSs were analyzed for VOCs with samples. Most LCS recoveries were within acceptance criteria. Methyl t-butyl ether was recovered above acceptance criteria in one LCS. This compound was already qualified “JH” as potentially biased high in the associated sample due to ICV recovery; therefore, no qualifications were made due to LCS recoveries.

One MS/MSD pair was analyzed in association with the samples. Several MS recoveries were outside acceptance criteria. Benzene was recovered below acceptance criteria in two MSs. The MS /MSD parent concentration for benzene was greater than four times the spiked amount; therefore, no qualifications were made. 1,2-Dichloroethane, 2-butanone, and methyl t-butyl ether were recovered above acceptance criteria in the MS and MSD and bromomethane was recovered above acceptance criteria in the MS. Detected results for 1,2-dichloroethane, 2-butanone, and methyl t-butyl ether were qualified with “MH” as estimated/biased high, unless already qualified due to ICV. Bromomethane was not detected in the associated samples; therefore, no qualifications were made due to MS/MSD recoveries.

Sample results qualified due to MS recoveries are presented in Table 3.3-3.

Completeness

All of the VOC data are usable; therefore, the 95% completeness objective for groundwater samples was met.

Table 3.3-1. Sample Results Qualified Due to Calibrations

Sample ID	Compound	Result (µg/L)	Qualifier	Reason
WG-B760-MW06R-053	Methyl t-butyl ether	2.92	JH	ICV RSD > UCL

µg/L - Micrograms per liter.

H - Biased high.

ICV - Initial calibration verification.

ID - Identification.

J - Estimated.

RSD - Relative standard deviation.

UCL - Upper control limit.

Table 3.3-2. Sample Results Qualified Due to Method Blanks

Sample ID	Compound	Result (µg/L)	Qualifier	Reason
WG-B760-MW09-050	Naphthalene	1.18	B	Detected within five times the MB
WG-B760-MW10-050		0.228		
WG-B760-MW12-050		1.26		

µg/L - Micrograms per liter.

B - Similar to blank.

ID - Identification.

MB - Method blank.

Table 3.3-3. Sample Results Qualified Due to Matrix Spike Recoveries

Sample ID	Compound	Result (µg/L)	Qualifier	Reason
WG-B760-MW07R-050	1,2-Dichloroethane	66.6	MH	MS and/or MSD > UCL
	Methyl t-butyl ether	160		
WG-B760-MW08R-050	1,2-Dichloroethane	20.3		
	Methyl t-butyl ether	12.4		
WG-B760-MW09-050	1,2-Dichloroethane	16.5		
	Methyl t-butyl ether	22.7		
WG-B760-MW09-051	1,2-Dichloroethane	17.4		
	Methyl t-butyl ether	25.1		
WG-B760-MW10-050	1,2-Dichloroethane	13.7		
	2-Butanone	15.3		
	Methyl t-butyl ether	22.2		
WG-B760-MW12-050	1,2-Dichloroethane	158		
	Methyl t-butyl ether	201		

µg/L - Micrograms per liter.

H - Biased high.

ID - Identification.

M - Estimated due to matrix spike (MS).

MSD - Matrix spike duplicate

UCL - Upper control limit.

4.0 REFERENCES

U.S. Environmental Protection Agency (EPA), December 1996. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*. Office of Solid Waste and Emergency Response, December 1996, Revision 3, and subsequent revisions.

URS Corporation (URS), June 2009. *Final Basewide Sampling and Analysis Plan, Former Williams Air Force Base, Mesa, Arizona*. Austin, TX.

Attachment A
Analytical Results

Attachment A Table of Contents

Table A-1	Results of Organic Analyses for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009
Table A-2	Results of Field Analyses for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

PARAMETER	B760		B760		B760		B760	
	B760-MW06R	B760-MW07R	B760-MW08R	B760-MW09	B760-MW06R-053	B760-MW07R-050	B760-MW08R-050	B760-MW09-050
	06-MAY-09	06-MAY-09	06-MAY-09	06-MAY-09				
SW8011 - Ethylene Dibromide (ug/L)								
1,2-Dibromoethane	ND	U (0.00680) [1]	ND	U (0.00687) [1]	ND	U (0.00701) [1]	0.345	(0.00680) [1]
SW8260B - Volatile Organic Compounds (ug/L)								
1,1,1,2-Tetrachloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
1,1,1-Trichloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
1,1,2,2-Tetrachloroethane	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]
1,1,2-Trichloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
1,1-Dichloroethane	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]
1,1-Dichloroethene	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]
1,1-Dichloropropene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
1,2,3-Trichlorobenzene	ND	U (0.150) [1]	ND	U (0.150) [1]	ND	U (0.150) [1]	ND	U (0.150) [1]
1,2,3-Trichloropropane	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]
1,2,4-Trichlorobenzene	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]
1,2,4-Trimethylbenzene	6.95	(0.250) [1]	ND	U (0.250) [1]	0.359	F (0.250) [1]	36.8	(0.250) [1]
1,2-Dibromo-3-chloropropane	ND	U (1.00) [1]	ND	U (1.00) [1]	ND	U (1.00) [1]	ND	U (1.00) [1]
1,2-Dibromoethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	0.262	F (0.250) [1]
1,2-Dichlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]
1,2-Dichloroethane	ND	U (0.250) [1]	66.6	MH (0.250) [1]	20.3	MH (0.250) [1]	16.5	MH (0.250) [1]
1,2-Dichloropropane	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]
1,3,5-Trimethylbenzene	4.13	(0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	12.0	(0.250) [1]
1,3-Dichlorobenzene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
1,3-Dichloropropane	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]
1,4-Dichlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]
1-Chlorohexane	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]

PARAMETER	SITE ID			
	LOCATION ID		SAMPLE ID	
	DATE SAMPLED		DATE SAMPLED	
	B760	B760	B760	B760
	B760-MW06R	B760-MW07R	B760-MW08R	B760-MW09
	WG-B760-MW06R-053	WG-B760-MW07R-050	WG-B760-MW08R-050	WG-B760-MW09-050
	06-MAY-09	06-MAY-09	06-MAY-09	06-MAY-09
SW8260B - Volatile Organic Compounds, cont. (ug/L)				
2,2-Dichloropropane	ND	U (0.250) [1]	ND	U (0.250) [1]
2-Butanone(MEK)	ND	U (2.50) [1]	ND	U (2.50) [1]
2-Chlorotoluene	ND	U (0.125) [1]	ND	U (0.125) [1]
4-Chlorotoluene	ND	U (0.250) [1]	ND	U (0.250) [1]
Acetone	11.3	(2.50) [1]	ND	U (2.50) [1]
Benzene	94.1	(0.125) [1]	1.51	(0.125) [1]
Bromobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]
Bromochloromethane	ND	U (0.200) [1]	ND	U (0.200) [1]
Bromodichloromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Bromoform	ND	U (0.500) [1]	ND	U (0.500) [1]
Bromomethane	ND	U (0.500) [1]	ND	U (0.500) [1]
Carbon tetrachloride	ND	U (0.250) [1]	ND	U (0.250) [1]
Chlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]
Chloroethane	ND	U (0.500) [1]	ND	U (0.500) [1]
Chloroform	ND	U (0.125) [1]	ND	U (0.125) [1]
Chloromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Dibromochloromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Dibromomethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Dichlorodifluoromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Ethylbenzene	0.598	F (0.250) [1]	ND	U (0.250) [1]
Hexachlorobutadiene	ND	U (0.250) [1]	ND	U (0.250) [1]
Isopropylbenzene	0.982	F (0.250) [1]	0.739	F (0.250) [1]
Methyl isobutyl ketone (MIBK)	ND	U (2.50) [1]	ND	U (2.50) [1]
Methyl t-butyl ether	2.92	FJH (0.500) [1]	160	MH (0.500) [1]

PARAMETER	B760			B760			B760			B760		
	B760-MW06R			B760-MW07R			B760-MW08R			B760-MW09		
	WG-B760-MW06R-053			WG-B760-MW07R-050			WG-B760-MW08R-050			WG-B760-MW09-050		
	06-MAY-09			06-MAY-09			06-MAY-09			06-MAY-09		
SW8260B - Volatile Organic Compounds, cont. (ug/L)												
Methylene chloride	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]	1.05	(0.250)	[1]
Naphthalene	ND	U (0.200)	[1]	ND	U (0.200)	[1]	ND	U (0.200)	[1]	1.18	FB (0.200)	[1]
Styrene	ND	U (0.125)	[1]	ND	U (0.125)	[1]	ND	U (0.125)	[1]	ND	U (0.125)	[1]
Tert-Butyl alcohol	ND	U (50.0)	[1]	78.1	F (50.0)	[1]	ND	U (50.0)	[1]	ND	U (50.0)	[1]
Tetrachloroethene	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]
Toluene	1.09	(0.250)	[1]	0.512	F (0.250)	[1]	0.505	F (0.250)	[1]	11.9	(0.250)	[1]
Trichloroethene	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]
Trichlorofluoromethane	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]
Vinyl chloride	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]
cis-1,2-Dichloroethene	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]
cis-1,3-Dichloropropene	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]
m&p-Xylene	19.2	(0.500)	[1]	0.768	F (0.500)	[1]	0.583	F (0.500)	[1]	78.0	(0.500)	[1]
n-Butylbenzene	0.368	F (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]	0.943	F (0.250)	[1]
n-Propylbenzene	0.676	F (0.125)	[1]	0.187	F (0.125)	[1]	ND	U (0.125)	[1]	0.629	F (0.125)	[1]
o-Xylene	1.05	(0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]	22.5	(0.250)	[1]
p-Isopropyltoluene	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]
sec-Butylbenzene	ND	U (0.250)	[1]	0.772	F (0.250)	[1]	0.883	F (0.250)	[1]	ND	U (0.250)	[1]
tert-Butylbenzene	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]
trans-1,2-Dichloroethene	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]	ND	U (0.250)	[1]
trans-1,3-Dichloropropene	ND	U (0.500)	[1]	ND	U (0.500)	[1]	ND	U (0.500)	[1]	ND	U (0.500)	[1]

PARAMETER	B760				B760				B760				B760											
	B760-MW09 WG-B760-MW09-051 Dup of WG-B760-MW09-050 06-MAY-09				B760-MW10 WG-B760-MW10-050 07-MAY-09				B760-MW11 WG-B760-MW11-050 06-MAY-09				B760-MW12 WG-B760-MW12-050 07-MAY-09											
SW8011 - Ethylene Dibromide (ug/L)																								
1,2-Dibromoethane	0.414	(	0.00682	)	[1]	0.0458	(	0.00676	)	[1]	ND	U	(	0.00688	)	[1]	ND	U	(	0.00677	)	[1]		
SW8260B - Volatile Organic Compounds (ug/L)																								
1,1,1,2-Tetrachloroethane	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]
1,1,1-Trichloroethane	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]
1,1,2,2-Tetrachloroethane	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]
1,1,2-Trichloroethane	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]
1,1-Dichloroethane	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]
1,1-Dichloroethene	ND	U	(	0.500	)	[1]	ND	U	(	0.500	)	[1]	ND	U	(	0.500	)	[1]	ND	U	(	0.500	)	[1]
1,1-Dichloropropene	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]
1,2,3-Trichlorobenzene	ND	U	(	0.150	)	[1]	ND	U	(	0.150	)	[1]	ND	U	(	0.150	)	[1]	ND	U	(	0.150	)	[1]
1,2,3-Trichloropropane	ND	U	(	0.500	)	[1]	ND	U	(	0.500	)	[1]	ND	U	(	0.500	)	[1]	ND	U	(	0.500	)	[1]
1,2,4-Trichlorobenzene	ND	U	(	0.200	)	[1]	ND	U	(	0.200	)	[1]	ND	U	(	0.200	)	[1]	ND	U	(	0.200	)	[1]
1,2,4-Trimethylbenzene	39.9	(	0.250	)	[1]	22.8	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	0.557	F	(	0.250	)	[1]		
1,2-Dibromo-3-chloropropane	ND	U	(	1.00	)	[1]	ND	U	(	1.00	)	[1]	ND	U	(	1.00	)	[1]	ND	U	(	1.00	)	[1]
1,2-Dibromoethane	0.269	F	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]
1,2-Dichlorobenzene	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]
1,2-Dichloroethane	17.4	MH	(	0.250	)	[1]	13.7	MH	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	158	MH	(	0.250	)	[1]
1,2-Dichloropropane	ND	U	(	0.200	)	[1]	ND	U	(	0.200	)	[1]	ND	U	(	0.200	)	[1]	ND	U	(	0.200	)	[1]
1,3,5-Trimethylbenzene	13.6	(	0.250	)	[1]	21.7	(	0.250	)	[1]	0.493	F	(	0.250	)	[1]	ND	U	(	0.250	)	[1]		
1,3-Dichlorobenzene	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]	ND	U	(	0.250	)	[1]
1,3-Dichloropropane	ND	U	(	0.200	)	[1]	ND	U	(	0.200	)	[1]	ND	U	(	0.200	)	[1]	ND	U	(	0.200	)	[1]
1,4-Dichlorobenzene	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]
1-Chlorohexane	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]	ND	U	(	0.125	)	[1]

PARAMETER	B760 B760-MW09 WG-B760-MW09-051 Dup of WG-B760-MW09-050 06-MAY-09			B760 B760-MW10 WG-B760-MW10-050 07-MAY-09			B760 B760-MW11 WG-B760-MW11-050 06-MAY-09			B760 B760-MW12 WG-B760-MW12-050 07-MAY-09								
	CONC	UNIT	DF	CONC	UNIT	DF	CONC	UNIT	DF	CONC	UNIT	DF						
SW8260B - Volatile Organic Compounds, cont. (ug/L)																		
2,2-Dichloropropane	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]		
2-Butanone(MEK)	ND	U	(2.50)	[1]	15.3	MH	(2.50)	[1]	ND	U	(2.50)	[1]	ND	U	(2.50)	[1]		
2-Chlorotoluene	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]		
4-Chlorotoluene	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]		
Acetone	ND	U	(2.50)	[1]	24.3	(2.50)	[1]	ND	U	(2.50)	[1]	ND	U	(2.50)	[1]			
Benzene	182	(0.125)	[1]	37.2	(0.125)	[1]	5.17	(0.125)	[1]	8.38	(0.125)	[1]						
Bromobenzene	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]		
Bromochloromethane	ND	U	(0.200)	[1]	ND	U	(0.200)	[1]	ND	U	(0.200)	[1]	ND	U	(0.200)	[1]		
Bromodichloromethane	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]		
Bromoform	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]		
Bromomethane	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]		
Carbon tetrachloride	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]		
Chlorobenzene	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]		
Chloroethane	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]		
Chloroform	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]		
Chloromethane	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	0.305	F	(0.250)	[1]	ND	U	(0.250)	[1]		
Dibromochloromethane	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]		
Dibromomethane	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]		
Dichlorodifluoromethane	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]		
Ethylbenzene	4.80	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	141	(0.250)	[1]				
Hexachlorobutadiene	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]		
Isopropylbenzene	0.519	F	(0.250)	[1]	3.19	(0.250)	[1]	ND	U	(0.250)	[1]	6.59	(0.250)	[1]				
Methyl isobutyl ketone (MIBK)	ND	U	(2.50)	[1]	ND	U	(2.50)	[1]	ND	U	(2.50)	[1]	ND	U	(2.50)	[1]		
Methyl t-butyl ether	25.1	MH	(0.500)	[1]	22.2	MH	(0.500)	[1]	ND	U	(0.500)	[1]	201	MH	(12.5)	[25]		

PARAMETER	B760		B760		B760		B760	
	B760-MW09	B760-MW10	B760-MW11	B760-MW12	B760-MW09	B760-MW10	B760-MW11	B760-MW12
	WG-B760-MW09-051 Dup of WG-B760-MW09-050		WG-B760-MW10-050		WG-B760-MW11-050		WG-B760-MW12-050	
	06-MAY-09		07-MAY-09		06-MAY-09		07-MAY-09	
SW8260B - Volatile Organic Compounds, cont. (ug/L)								
Methylene chloride	1.07	(0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Naphthalene	1.26	(0.200) [1]	0.228	FB (0.200) [1]	ND	U (0.200) [1]	1.26	B (0.200) [1]
Styrene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]
Tert-Butyl alcohol	ND	U (50.0) [1]	50.6	F (50.0) [1]	ND	U (50.0) [1]	63.8	F (50.0) [1]
Tetrachloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Toluene	12.5	(0.250) [1]	0.837	F (0.250) [1]	1.03	(0.250) [1]	1.87	(0.250) [1]
Trichloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Trichlorofluoromethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Vinyl chloride	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
cis-1,2-Dichloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
cis-1,3-Dichloropropene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
m&p-Xylene	82.0	(0.500) [1]	39.2	(0.500) [1]	2.05	(0.500) [1]	1.35	F (0.500) [1]
n-Butylbenzene	1.03	(0.250) [1]	2.24	(0.250) [1]	ND	U (0.250) [1]	1.42	(0.250) [1]
n-Propylbenzene	0.709	F (0.125) [1]	1.03	(0.125) [1]	0.722	F (0.125) [1]	13.6	(0.125) [1]
o-Xylene	24.0	(0.250) [1]	0.880	F (0.250) [1]	0.621	F (0.250) [1]	0.716	F (0.250) [1]
p-Isopropyltoluene	ND	U (0.250) [1]	0.421	F (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
sec-Butylbenzene	ND	U (0.250) [1]	0.628	F (0.250) [1]	ND	U (0.250) [1]	2.72	(0.250) [1]
tert-Butylbenzene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
trans-1,2-Dichloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
trans-1,3-Dichloropropene	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]

PARAMETER				SITE ID
-----	-----			LOCATION ID
				SAMPLE ID
				DATE SAMPLED
				B760
				B760-MW13
				WG-B760-MW13-050
				06-MAY-09
SW8011 - Ethylene Dibromide (ug/L)				
1,2-Dibromoethane	ND	U	(0.00695)	[1]
SW8260B - Volatile Organic Compounds (ug/L)				
1,1,1,2-Tetrachloroethane	ND	U	(0.250)	[1]
1,1,1-Trichloroethane	ND	U	(0.250)	[1]
1,1,2,2-Tetrachloroethane	ND	U	(0.125)	[1]
1,1,2-Trichloroethane	ND	U	(0.250)	[1]
1,1-Dichloroethane	ND	U	(0.125)	[1]
1,1-Dichloroethene	ND	U	(0.500)	[1]
1,1-Dichloropropene	ND	U	(0.250)	[1]
1,2,3-Trichlorobenzene	ND	U	(0.150)	[1]
1,2,3-Trichloropropane	ND	U	(0.500)	[1]
1,2,4-Trichlorobenzene	ND	U	(0.200)	[1]
1,2,4-Trimethylbenzene	ND	U	(0.250)	[1]
1,2-Dibromo-3-chloropropane	ND	U	(1.00)	[1]
1,2-Dibromoethane	ND	U	(0.250)	[1]
1,2-Dichlorobenzene	ND	U	(0.125)	[1]
1,2-Dichloroethane	ND	U	(0.250)	[1]
1,2-Dichloropropane	ND	U	(0.200)	[1]
1,3,5-Trimethylbenzene	0.250	F	(0.250)	[1]
1,3-Dichlorobenzene	ND	U	(0.250)	[1]
1,3-Dichloropropane	ND	U	(0.200)	[1]
1,4-Dichlorobenzene	ND	U	(0.125)	[1]
1-Chlorohexane	ND	U	(0.125)	[1]

PARAMETER				SITE ID
				LOCATION ID
				SAMPLE ID
				DATE SAMPLED
				B760
				B760-MW13
				WG-B760-MW13-050
				06-MAY-09
SW8260B - Volatile Organic Compounds, cont. (ug/L)				
2,2-Dichloropropane	ND	U (0.250)	[1]	
2-Butanone(MEK)	ND	U (2.50)	[1]	
2-Chlorotoluene	ND	U (0.125)	[1]	
4-Chlorotoluene	ND	U (0.250)	[1]	
Acetone	ND	U (2.50)	[1]	
Benzene	2.01	(0.125)	[1]	
Bromobenzene	ND	U (0.125)	[1]	
Bromochloromethane	ND	U (0.200)	[1]	
Bromodichloromethane	ND	U (0.250)	[1]	
Bromoform	ND	U (0.500)	[1]	
Bromomethane	ND	U (0.500)	[1]	
Carbon tetrachloride	ND	U (0.250)	[1]	
Chlorobenzene	ND	U (0.125)	[1]	
Chloroethane	ND	U (0.500)	[1]	
Chloroform	ND	U (0.125)	[1]	
Chloromethane	ND	U (0.250)	[1]	
Dibromochloromethane	ND	U (0.250)	[1]	
Dibromomethane	ND	U (0.250)	[1]	
Dichlorodifluoromethane	ND	U (0.250)	[1]	
Ethylbenzene	ND	U (0.250)	[1]	
Hexachlorobutadiene	ND	U (0.250)	[1]	
Isopropylbenzene	4.59	(0.250)	[1]	
Methyl isobutyl ketone (MIBK)	ND	U (2.50)	[1]	
Methyl t-butyl ether	ND	U (0.500)	[1]	

PARAMETER				
-----	-----			
				SITE ID
				LOCATION ID
				SAMPLE ID
				DATE SAMPLED
				B760
				B760-MW13
				WG-B760-MW13-050
				06-MAY-09
SW8260B - Volatile Organic Compounds, cont. (ug/L)				
Methylene chloride	ND	U	(0.250)	[1]
Naphthalene	ND	U	(0.200)	[1]
Styrene	ND	U	(0.125)	[1]
Tert-Butyl alcohol	50.8	F	(50.0)	[1]
Tetrachloroethene	ND	U	(0.250)	[1]
Toluene	0.389	F	(0.250)	[1]
Trichloroethene	ND	U	(0.250)	[1]
Trichlorofluoromethane	ND	U	(0.250)	[1]
Vinyl chloride	ND	U	(0.250)	[1]
cis-1,2-Dichloroethene	ND	U	(0.250)	[1]
cis-1,3-Dichloropropene	ND	U	(0.250)	[1]
m&p-Xylene	ND	U	(0.500)	[1]
n-Butylbenzene	0.474	F	(0.250)	[1]
n-Propylbenzene	2.49		(0.125)	[1]
o-Xylene	0.581	F	(0.250)	[1]
p-Isopropyltoluene	ND	U	(0.250)	[1]
sec-Butylbenzene	1.09		(0.250)	[1]
tert-Butylbenzene	ND	U	(0.250)	[1]
trans-1,2-Dichloroethene	ND	U	(0.250)	[1]
trans-1,3-Dichloropropene	ND	U	(0.500)	[1]

PARAMETER	B760				B760				B760				B760			
	B760-MW06R WG-B760-MW06R-053 06-MAY-09				B760-MW07R WG-B760-MW07R-050 06-MAY-09				B760-MW08R WG-B760-MW08R-050 06-MAY-09				B760-MW09 WG-B760-MW09-050 06-MAY-09			
D1498 - Oxidation-Reduction Potential (mv)																
REDOX	6.00	S ()	[1]	69.0	S ()	[1]	-126	S ()	[1]	-178	S ()	[1]				
E170.1 - Temperature (degC)																
Temperature	33.2	S ()	[1]	30.2	S ()	[1]	31.9	S ()	[1]	33.1	S ()	[1]				
E180.1 - Turbidity (ntu)																
Turbidity	8.70	S ()	[1]	12.0	S ()	[1]	11.2	S ()	[1]	8.74	S ()	[1]				
E360.1 - Oxygen, Dissolved (mg/L)																
Dissolved Oxygen	0.760	S ()	[1]	0.830	S ()	[1]	0.510	S ()	[1]	0.450	S ()	[1]				
SW9040 - pH Electrometric Measurement (pH UNITS)																
pH	6.66	S ()	[1]	6.42	S ()	[1]	6.55	S ()	[1]	6.63	S ()	[1]				
SW9050 - Specific Conductance (ms/cm)																
Specific Conductivity	4.16	S ()	[1]	9.45	S ()	[1]	5.64	S ()	[1]	5.15	S ()	[1]				

PARAMETER	B760				B760				B760				B760			
	B760-MW10				B760-MW11				B760-MW12				B760-MW13			
	WG-B760-MW10-050				WG-B760-MW11-050				WG-B760-MW12-050				WG-B760-MW13-050			
	07-MAY-09				06-MAY-09				07-MAY-09				06-MAY-09			
	VALUE	UNIT	QUAL	DF	VALUE	UNIT	QUAL	DF	VALUE	UNIT	QUAL	DF	VALUE	UNIT	QUAL	DF
D1498 - Oxidation-Reduction Potential (mv)																
REDOX	-25.0		S ()	[1]	-113		S ()	[1]	-103		S ()	[1]	-157		S ()	[1]
E170.1 - Temperature (degC)																
Temperature	27.7		S ()	[1]	31.6		S ()	[1]	27.4		S ()	[1]	28.5		S ()	[1]
E180.1 - Turbidity (ntu)																
Turbidity	1.19		S ()	[1]	0.559		S ()	[1]	4.15		S ()	[1]	1.05		S ()	[1]
E360.1 - Oxygen, Dissolved (mg/L)																
Dissolved Oxygen	0.590		S ()	[1]	0.380		S ()	[1]	1.71		S ()	[1]	0.980		S ()	[1]
SW9040 - pH Electrometric Measurement (pH UNITS)																
pH	6.62		S ()	[1]	6.65		S ()	[1]	6.63		S ()	[1]	6.74		S ()	[1]
SW9050 - Specific Conductance (ms/cm)																
Specific Conductivity	4.90		S ()	[1]	5.42		S ()	[1]	4.52		S ()	[1]	2.88		S ()	[1]

Attachment B

Cross-Reference Table and the Holding Time Table

Attachment B Table of Contents

Table B-1	Date Summary, Additional Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009
Table B-2	Date and Batch Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Table B-1. Date Summary, Additional Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

SAMPLE ID ANALYTICAL METHOD	SAMP TYPE	DATE COLLECTED	DATE PREPARED	ELAPSED TIME	PREPARATION HT	DATE ANALYZED	ELAPSED TIME	ANALYTICAL HT
WG-B760-MW06R-053 MSD								
SW8011 - Ethylene Dibromide		06-MAY-09	18-MAY-09	12 Days	NA	18-MAY-09	0 Days	NA
SW8260B - Volatile Organic Compounds		06-MAY-09	12-MAY-09	6 Days	14 Days	12-MAY-09	0 Days	14 Days
WG-B760-MW06R-053 MS								
SW8011 - Ethylene Dibromide		06-MAY-09	18-MAY-09	12 Days	NA	18-MAY-09	0 Days	NA
SW8260B - Volatile Organic Compounds		06-MAY-09	12-MAY-09	6 Days	14 Days	12-MAY-09	0 Days	14 Days
WG-B760-MW06R-053 N								
D1498 - Oxidation-Reduction Potential		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
E170.1 - Temperature		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
E180.1 - Turbidity		06-MAY-09	NA	NA	48 Hours	06-MAY-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		06-MAY-09	18-MAY-09	12 Days	NA	18-MAY-09	0 Days	NA
SW8260B - Volatile Organic Compounds		06-MAY-09	12-MAY-09	6 Days	14 Days	12-MAY-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
SW9050 - Specific Conductance		06-MAY-09	NA	NA	28 Days	06-MAY-09	0 Days	28 Days
WG-B760-MW07R-050 N								
D1498 - Oxidation-Reduction Potential		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
E170.1 - Temperature		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
E180.1 - Turbidity		06-MAY-09	NA	NA	48 Hours	06-MAY-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		06-MAY-09	18-MAY-09	12 Days	NA	18-MAY-09	0 Days	NA
SW8260B - Volatile Organic Compounds		06-MAY-09	13-MAY-09	7 Days	14 Days	13-MAY-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
SW9050 - Specific Conductance		06-MAY-09	NA	NA	28 Days	06-MAY-09	0 Days	28 Days
WG-B760-MW08R-050 N								

Table B-1. Date Summary, Additional Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

SAMPLE ID ANALYTICAL METHOD	SAMP TYPE	DATE COLLECTED	DATE PREPARED	ELAPSED TIME	PREPARATION HT	DATE ANALYZED	ELAPSED TIME	ANALYTICAL HT

D1498 - Oxidation-Reduction Potential		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
E170.1 - Temperature		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
E180.1 - Turbidity		06-MAY-09	NA	NA	48 Hours	06-MAY-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		06-MAY-09	18-MAY-09	12 Days	NA	18-MAY-09	0 Days	NA
SW8260B - Volatile Organic Compounds		06-MAY-09	13-MAY-09	7 Days	14 Days	13-MAY-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
SW9050 - Specific Conductance		06-MAY-09	NA	NA	28 Days	06-MAY-09	0 Days	28 Days

WG-B760-MW09-050	N							
D1498 - Oxidation-Reduction Potential		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
E170.1 - Temperature		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
E180.1 - Turbidity		06-MAY-09	NA	NA	48 Hours	06-MAY-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		06-MAY-09	18-MAY-09	12 Days	NA	18-MAY-09	0 Days	NA
SW8260B - Volatile Organic Compounds		06-MAY-09	13-MAY-09	7 Days	14 Days	13-MAY-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
SW9050 - Specific Conductance		06-MAY-09	NA	NA	28 Days	06-MAY-09	0 Days	28 Days

WG-B760-MW09-051	FD							
SW8011 - Ethylene Dibromide		06-MAY-09	18-MAY-09	12 Days	NA	18-MAY-09	0 Days	NA
SW8260B - Volatile Organic Compounds		06-MAY-09	13-MAY-09	7 Days	14 Days	13-MAY-09	0 Days	14 Days

WG-B760-MW10-050	N							
D1498 - Oxidation-Reduction Potential		07-MAY-09	NA	NA	24 Hours	07-MAY-09	0 Days	24 Hours
E170.1 - Temperature		07-MAY-09	NA	NA	24 Hours	07-MAY-09	0 Days	24 Hours
E180.1 - Turbidity		07-MAY-09	NA	NA	48 Hours	07-MAY-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		07-MAY-09	NA	NA	24 Hours	07-MAY-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		07-MAY-09	18-MAY-09	11 Days	NA	18-MAY-09	0 Days	NA
SW8260B - Volatile Organic Compounds		07-MAY-09	13-MAY-09	6 Days	14 Days	13-MAY-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		07-MAY-09	NA	NA	24 Hours	07-MAY-09	0 Days	24 Hours

Compiled: 06/03/09

N = Normal Sample MS = Matrix Spike MSD = Matrix Spike Duplicate

B-1-2

FD = Field Duplicate EB = Equipment Blank TB = Trip Blank * Sample extraction or analysis exceeded hold time.

Table B-1. Date Summary, Additional Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

SAMPLE ID ANALYTICAL METHOD	SAMP TYPE	DATE COLLECTED	DATE PREPARED	ELAPSED TIME	PREPARATION HT	DATE ANALYZED	ELAPSED TIME	ANALYTICAL HT
SW9050 - Specific Conductance		07-MAY-09	NA	NA	28 Days	07-MAY-09	0 Days	28 Days

WG-B760-MW11-050	N							
D1498 - Oxidation-Reduction Potential		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
E170.1 - Temperature		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
E180.1 - Turbidity		06-MAY-09	NA	NA	48 Hours	06-MAY-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		06-MAY-09	18-MAY-09	12 Days	NA	18-MAY-09	0 Days	NA
SW8260B - Volatile Organic Compounds		06-MAY-09	12-MAY-09	6 Days	14 Days	12-MAY-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
SW9050 - Specific Conductance		06-MAY-09	NA	NA	28 Days	06-MAY-09	0 Days	28 Days

WG-B760-MW12-050	N							
D1498 - Oxidation-Reduction Potential		07-MAY-09	NA	NA	24 Hours	07-MAY-09	0 Days	24 Hours
E170.1 - Temperature		07-MAY-09	NA	NA	24 Hours	07-MAY-09	0 Days	24 Hours
E180.1 - Turbidity		07-MAY-09	NA	NA	48 Hours	07-MAY-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		07-MAY-09	NA	NA	24 Hours	07-MAY-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		07-MAY-09	18-MAY-09	11 Days	NA	18-MAY-09	0 Days	NA
SW8260B - Volatile Organic Compounds		07-MAY-09	13-MAY-09	6 Days	14 Days	13-MAY-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		07-MAY-09	14-MAY-09	7 Days	14 Days	14-MAY-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		07-MAY-09	NA	NA	24 Hours	07-MAY-09	0 Days	24 Hours
SW9050 - Specific Conductance		07-MAY-09	NA	NA	28 Days	07-MAY-09	0 Days	28 Days

WG-B760-MW13-050	N							
D1498 - Oxidation-Reduction Potential		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
E170.1 - Temperature		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
E180.1 - Turbidity		06-MAY-09	NA	NA	48 Hours	06-MAY-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		06-MAY-09	18-MAY-09	12 Days	NA	18-MAY-09	0 Days	NA
SW8260B - Volatile Organic Compounds		06-MAY-09	12-MAY-09	6 Days	14 Days	12-MAY-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		06-MAY-09	NA	NA	24 Hours	06-MAY-09	0 Days	24 Hours

Compiled: 06/03/09

N = Normal Sample MS = Matrix Spike MSD = Matrix Spike Duplicate

B-1-3

FD = Field Duplicate EB = Equipment Blank TB = Trip Blank * Sample extraction or analysis exceeded hold time.

Table B-1. Date Summary, Additional Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

SAMPLE ID ANALYTICAL METHOD -----	SAMP TYPE ----	DATE COLLECTED -----	DATE PREPARED -----	ELAPSED TIME -----	PREPARATION HT -----	DATE ANALYZED -----	ELAPSED TIME -----	ANALYTICAL HT -----
SW9050 - Specific Conductance		06-MAY-09	NA	NA	28 Days	06-MAY-09	0 Days	28 Days

Table B-2. Date And Batch Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

SAMPLE ID ANALYTICAL METHOD -----	SAMP TYPE ----	LEACHATE BATCH ID -----	PREPARATION BATCH ID -----	ANALYTICAL BATCH ID -----	DATE COLLECTED -----	DATE LEACHED -----	DATE PREPARED -----	DATE ANALYZED -----
WG-B760-MW06R-053	MSD							
SDG : 09050209-11 SW8011 - Ethylene Dibromide			WG302547	WG302547	06-MAY-09		18-MAY-09	18-MAY-09
SDG : 09050209-11 SW8260B - Volatile Organic Compounds			WG302074	WG302074	06-MAY-09		12-MAY-09	12-MAY-09
WG-B760-MW06R-053	MS							
SDG : 09050209-10 SW8011 - Ethylene Dibromide			WG302547	WG302547	06-MAY-09		18-MAY-09	18-MAY-09
SDG : 09050209-10 SW8260B - Volatile Organic Compounds			WG302074	WG302074	06-MAY-09		12-MAY-09	12-MAY-09
WG-B760-MW06R-053	N							
SDG : D1498 - Oxidation-Reduction Potential				FlMay0902	06-MAY-09			06-MAY-09
SDG : E170.1 - Temperature				FlMay0902	06-MAY-09			06-MAY-09
SDG : E180.1 - Turbidity				FlMay0902	06-MAY-09			06-MAY-09
SDG : E360.1 - Oxygen, Dissolved				FlMay0902	06-MAY-09			06-MAY-09
SDG : 09050209-09								

Table B-2. Date And Batch Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
SW8011 - Ethylene Dibromide			WG302547	WG302547	06-MAY-09		18-MAY-09	18-MAY-09
SDG : 09050209-09								
SW8260B - Volatile Organic Compounds			WG302074	WG302074	06-MAY-09		12-MAY-09	12-MAY-09
SDG :								
SW9040 - pH Electrometric Measurement				FldMay0902	06-MAY-09			06-MAY-09
SDG :								
SW9050 - Specific Conductance				FldMay0902	06-MAY-09			06-MAY-09

WG-B760-MW07R-050	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FldMay0902	06-MAY-09			06-MAY-09
SDG :								
E170.1 - Temperature				FldMay0902	06-MAY-09			06-MAY-09
SDG :								
E180.1 - Turbidity				FldMay0902	06-MAY-09			06-MAY-09
SDG :								
E360.1 - Oxygen, Dissolved				FldMay0902	06-MAY-09			06-MAY-09
SDG : 09050209-01								
SW8011 - Ethylene Dibromide			WG302547	WG302547	06-MAY-09		18-MAY-09	18-MAY-09
SDG : 09050209-01								
SW8260B - Volatile Organic Compounds			WG302166	WG302166	06-MAY-09		13-MAY-09	13-MAY-09
SDG :								
SW9040 - pH Electrometric Measurement				FldMay0902	06-MAY-09			06-MAY-09

Table B-2. Date And Batch Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
SDG :								
SW9050 - Specific Conductance				FLdMay0902	06-MAY-09			06-MAY-09

WG-B760-MW08R-050	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FLdMay0902	06-MAY-09			06-MAY-09
SDG :								
E170.1 - Temperature				FLdMay0902	06-MAY-09			06-MAY-09
SDG :								
E180.1 - Turbidity				FLdMay0902	06-MAY-09			06-MAY-09
SDG :								
E360.1 - Oxygen, Dissolved				FLdMay0902	06-MAY-09			06-MAY-09
SDG : 09050209-05								
SW8011 - Ethylene Dibromide			WG302547	WG302547	06-MAY-09	18-MAY-09		18-MAY-09
SDG : 09050209-05								
SW8260B - Volatile Organic Compounds			WG302166	WG302166	06-MAY-09	13-MAY-09		13-MAY-09
SDG :								
SW9040 - pH Electrometric Measurement				FLdMay0902	06-MAY-09			06-MAY-09
SDG :								
SW9050 - Specific Conductance				FLdMay0902	06-MAY-09			06-MAY-09
WG-B760-MW09-050	N							
SDG :								

Table B-2. Date And Batch Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
D1498 - Oxidation-Reduction Potential				FldMay0902	06-MAY-09			06-MAY-09
SDG :								
E170.1 - Temperature				FldMay0902	06-MAY-09			06-MAY-09
SDG :								
E180.1 - Turbidity				FldMay0902	06-MAY-09			06-MAY-09
SDG :								
E360.1 - Oxygen, Dissolved				FldMay0902	06-MAY-09			06-MAY-09
SDG : 09050209-07								
SW8011 - Ethylene Dibromide			WG302547	WG302547	06-MAY-09		18-MAY-09	18-MAY-09
SDG : 09050209-07								
SW8260B - Volatile Organic Compounds			WG302166	WG302166	06-MAY-09		13-MAY-09	13-MAY-09
SDG :								
SW9040 - pH Electrometric Measurement				FldMay0902	06-MAY-09			06-MAY-09
SDG :								
SW9050 - Specific Conductance				FldMay0902	06-MAY-09			06-MAY-09

WG-B760-MW09-051	FD							
SDG : 09050209-08								
SW8011 - Ethylene Dibromide			WG302547	WG302547	06-MAY-09		18-MAY-09	18-MAY-09
SDG : 09050209-08								
SW8260B - Volatile Organic Compounds			WG302166	WG302166	06-MAY-09		13-MAY-09	13-MAY-09

Table B-2. Date And Batch Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
WG-B760-MW10-050	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FldMay0902	07-MAY-09			07-MAY-09
SDG :								
E170.1 - Temperature				FldMay0902	07-MAY-09			07-MAY-09
SDG :								
E180.1 - Turbidity				FldMay0902	07-MAY-09			07-MAY-09
SDG :								
E360.1 - Oxygen, Dissolved				FldMay0902	07-MAY-09			07-MAY-09
SDG : 09050189-01								
SW8011 - Ethylene Dibromide			WG302547	WG302547	07-MAY-09		18-MAY-09	18-MAY-09
SDG : 09050189-01								
SW8260B - Volatile Organic Compounds			WG302166	WG302166	07-MAY-09		13-MAY-09	13-MAY-09
SDG :								
SW9040 - pH Electrometric Measurement				FldMay0902	07-MAY-09			07-MAY-09
SDG :								
SW9050 - Specific Conductance				FldMay0902	07-MAY-09			07-MAY-09

WG-B760-MW11-050	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FldMay0902	06-MAY-09			06-MAY-09
SDG :								
E170.1 - Temperature				FldMay0902	06-MAY-09			06-MAY-09

Table B-2. Date And Batch Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
SDG :								
E180.1 - Turbidity				FldMay0902	06-MAY-09			06-MAY-09
SDG :								
E360.1 - Oxygen, Dissolved				FldMay0902	06-MAY-09			06-MAY-09
SDG : 09050209-06								
SW8011 - Ethylene Dibromide			WG302547	WG302547	06-MAY-09		18-MAY-09	18-MAY-09
SDG : 09050209-06								
SW8260B - Volatile Organic Compounds			WG302074	WG302074	06-MAY-09		12-MAY-09	12-MAY-09
SDG :								
SW9040 - pH Electrometric Measurement				FldMay0902	06-MAY-09			06-MAY-09
SDG :								
SW9050 - Specific Conductance				FldMay0902	06-MAY-09			06-MAY-09

WG-B760-MW12-050	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FldMay0902	07-MAY-09			07-MAY-09
SDG :								
E170.1 - Temperature				FldMay0902	07-MAY-09			07-MAY-09
SDG :								
E180.1 - Turbidity				FldMay0902	07-MAY-09			07-MAY-09
SDG :								
E360.1 - Oxygen, Dissolved				FldMay0902	07-MAY-09			07-MAY-09
SDG : 09050189-02								

Table 8-2. Date And Batch Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
SW8011 - Ethylene Dibromide			WG302547	WG302547	07-MAY-09		18-MAY-09	18-MAY-09
SDG : 09050189-02								
SW8260B - Volatile Organic Compounds			WG302166	WG302166	07-MAY-09		13-MAY-09	13-MAY-09
SDG : 09050189-02								
SW8260B - Volatile Organic Compounds			WG302273	WG302273	07-MAY-09		14-MAY-09	14-MAY-09
SDG :								
SW9040 - pH Electrometric Measurement				FlMay0902	07-MAY-09			07-MAY-09
SDG :								
SW9050 - Specific Conductance				FlMay0902	07-MAY-09			07-MAY-09

WG-B760-MW13-050	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FlMay0902	06-MAY-09			06-MAY-09
SDG :								
E170.1 - Temperature				FlMay0902	06-MAY-09			06-MAY-09
SDG :								
E180.1 - Turbidity				FlMay0902	06-MAY-09			06-MAY-09
SDG :								
E360.1 - Oxygen, Dissolved				FlMay0902	06-MAY-09			06-MAY-09
SDG : 09050209-02								
SW8011 - Ethylene Dibromide			WG302547	WG302547	06-MAY-09		18-MAY-09	18-MAY-09
SDG : 09050209-02								
SW8260B - Volatile Organic Compounds			WG302074	WG302074	06-MAY-09		12-MAY-09	12-MAY-09

Table B-2. Date And Batch Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
SDG :								
SW9040 - pH Electrometric Measurement				FldMay0902	06-MAY-09			06-MAY-09
SDG :								
SW9050 - Specific Conductance				FldMay0902	06-MAY-09			06-MAY-09

Attachment C

Summary of the QC Results

Attachment C Table of Contents

Table C-1	Summary of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009
Table C-2	Summary Listing of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009
Table C-3	Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Analyte	Number of Blanks	Number Above Sample RL	Number Above SDL	Concentration Range
SW8011 - Ethylene Dibromide, (ug/L)				
Type of Blank : Equipment Blank				
1,2-Dibromoethane	1	0	0	NC
Type of Blank : Method Blank				
1,2-Dibromoethane	1	0	0	NC
Type of Blank : Trip Blank				
1,2-Dibromoethane	2	0	0	NC
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Equipment Blank				
1,1,1,2-Tetrachloroethane	1	0	0	NC
1,1,1-Trichloroethane	1	0	0	NC
1,1,2,2-Tetrachloroethane	1	0	0	NC
1,1,2-Trichloroethane	1	0	0	NC
1,1-Dichloroethane	1	0	0	NC
1,1-Dichloroethene	1	0	0	NC
1,1-Dichloropropene	1	0	0	NC
1,2,3-Trichlorobenzene	1	0	0	NC
1,2,3-Trichloropropane	1	0	0	NC
1,2,4-Trichlorobenzene	1	0	0	NC
1,2,4-Trimethylbenzene	1	0	0	NC
1,2-Dibromo-3-chloropropane	1	0	0	NC
1,2-Dibromoethane	1	0	0	NC
1,2-Dichlorobenzene	1	0	0	NC
1,2-Dichloroethane	1	0	0	NC
1,2-Dichloropropane	1	0	0	NC
1,3,5-Trimethylbenzene	1	0	0	NC
1,3-Dichlorobenzene	1	0	0	NC
1,3-Dichloropropane	1	0	0	NC
1,4-Dichlorobenzene	1	0	0	NC
1-Chlorohexane	1	0	0	NC
2,2-Dichloropropane	1	0	0	NC
2-Butanone(MEK)	1	0	0	NC
2-Chlorotoluene	1	0	0	NC
4-Chlorotoluene	1	0	0	NC
Acetone	1	0	0	NC
Benzene	1	0	0	NC
Bromobenzene	1	0	0	NC
Bromochloromethane	1	0	0	NC
Bromodichloromethane	1	0	0	NC
Bromoform	1	0	0	NC
Bromomethane	1	0	0	NC
Carbon tetrachloride	1	0	0	NC
Chlorobenzene	1	0	0	NC
Chloroethane	1	0	0	NC
Chloroform	1	0	0	NC
Chloromethane	1	0	0	NC
Dibromochloromethane	1	0	0	NC
Dibromomethane	1	0	0	NC
Dichlorodifluoromethane	1	0	0	NC
Ethylbenzene	1	0	0	NC

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Analyte	Number of Blanks	Number Above Sample RL	Number Above SDL	Concentration Range
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Equipment Blank, cont.				
Hexachlorobutadiene	1	0	0	NC
Isopropylbenzene	1	0	0	NC
Methyl isobutyl ketone (MIBK)	1	0	0	NC
Methyl t-butyl ether	1	0	0	NC
Methylene chloride	1	0	0	NC
Naphthalene	1	0	0	NC
Styrene	1	0	0	NC
Tert-Butyl alcohol	1	0	0	NC
Tetrachloroethene	1	0	0	NC
Toluene	1	0	0	NC
Trichloroethene	1	0	0	NC
Trichlorofluoromethane	1	0	0	NC
Vinyl chloride	1	0	0	NC
cis-1,2-Dichloroethene	1	0	0	NC
cis-1,3-Dichloropropene	1	0	0	NC
m&p-Xylene	1	0	0	NC
n-Butylbenzene	1	0	0	NC
n-Propylbenzene	1	0	0	NC
o-Xylene	1	0	0	NC
p-Isopropyltoluene	1	0	0	NC
sec-Butylbenzene	1	0	0	NC
tert-Butylbenzene	1	0	0	NC
trans-1,2-Dichloroethene	1	0	0	NC
trans-1,3-Dichloropropene	1	0	0	NC
Type of Blank : Method Blank				
1,1,1,2-Tetrachloroethane	3	0	0	NC
1,1,1-Trichloroethane	3	0	0	NC
1,1,2,2-Tetrachloroethane	3	0	0	NC
1,1,2-Trichloroethane	3	0	0	NC
1,1-Dichloroethane	3	0	0	NC
1,1-Dichloroethene	3	0	0	NC
1,1-Dichloropropene	3	0	0	NC
1,2,3-Trichlorobenzene	3	0	0	NC
1,2,3-Trichloropropane	3	0	0	NC
1,2,4-Trichlorobenzene	3	0	0	NC
1,2,4-Trimethylbenzene	3	0	0	NC
1,2-Dibromo-3-chloropropane	3	0	0	NC
1,2-Dibromoethane	3	0	0	NC
1,2-Dichlorobenzene	3	0	0	NC
1,2-Dichloroethane	3	0	0	NC
1,2-Dichloropropane	3	0	0	NC
1,3,5-Trimethylbenzene	3	0	0	NC
1,3-Dichlorobenzene	3	0	0	NC
1,3-Dichloropropane	3	0	0	NC
1,4-Dichlorobenzene	3	0	0	NC
1-Chlorohexane	3	0	0	NC
2,2-Dichloropropane	3	0	0	NC
2-Butanone(MEK)	3	0	0	NC
2-Chlorotoluene	3	0	0	NC

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Analyte -----	Number of Blanks -----	Number Above Sample RL -----	Number Above SDL -----	Concentration Range -----
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Method Blank, cont.				
4-Chlorotoluene	3	0	0	NC
Acetone	3	0	0	NC
Benzene	3	0	0	NC
Bromobenzene	3	0	0	NC
Bromochloromethane	3	0	0	NC
Bromodichloromethane	3	0	0	NC
Bromoform	3	0	0	NC
Bromomethane	3	0	0	NC
Carbon tetrachloride	3	0	0	NC
Chlorobenzene	3	0	0	NC
Chloroethane	3	0	0	NC
Chloroform	3	0	0	NC
Chloromethane	3	0	0	NC
Dibromochloromethane	3	0	0	NC
Dibromomethane	3	0	0	NC
Dichlorodifluoromethane	3	0	0	NC
Ethylbenzene	3	0	0	NC
Hexachlorobutadiene	3	0	2	0.502 - 0.526
Isopropylbenzene	3	0	0	NC
Methyl isobutyl ketone (MIBK)	3	0	0	NC
Methyl t-butyl ether	3	0	0	NC
Methylene chloride	3	0	1	0.347 - 0.347
Naphthalene	3	0	2	0.243 - 0.285
Styrene	3	0	0	NC
Tert-Butyl alcohol	3	0	0	NC
Tetrachloroethene	3	0	0	NC
Toluene	3	0	0	NC
Trichloroethene	3	0	0	NC
Trichlorofluoromethane	3	0	0	NC
Vinyl chloride	3	0	0	NC
cis-1,2-Dichloroethene	3	0	0	NC
cis-1,3-Dichloropropene	3	0	0	NC
m&p-Xylene	3	0	0	NC
n-Butylbenzene	3	0	0	NC
n-Propylbenzene	3	0	0	NC
o-Xylene	3	0	0	NC
p-Isopropyltoluene	3	0	0	NC
sec-Butylbenzene	3	0	0	NC
tert-Butylbenzene	3	0	0	NC
trans-1,2-Dichloroethene	3	0	0	NC
trans-1,3-Dichloropropene	3	0	0	NC
Type of Blank : Trip Blank				
1,1,1,2-Tetrachloroethane	2	0	0	NC
1,1,1-Trichloroethane	2	0	0	NC
1,1,2,2-Tetrachloroethane	2	0	0	NC
1,1,2-Trichloroethane	2	0	0	NC
1,1-Dichloroethane	2	0	0	NC
1,1-Dichloroethene	2	0	0	NC
1,1-Dichloropropene	2	0	0	NC

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Analyte	Number of Blanks	Number Above Sample RL	Number Above SDL	Concentration Range
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Trip Blank, cont.				
1,2,3-Trichlorobenzene	2	0	0	NC
1,2,3-Trichloropropane	2	0	0	NC
1,2,4-Trichlorobenzene	2	0	0	NC
1,2,4-Trimethylbenzene	2	0	0	NC
1,2-Dibromo-3-chloropropane	2	0	0	NC
1,2-Dibromoethane	2	0	0	NC
1,2-Dichlorobenzene	2	0	0	NC
1,2-Dichloroethane	2	0	0	NC
1,2-Dichloropropane	2	0	0	NC
1,3,5-Trimethylbenzene	2	0	0	NC
1,3-Dichlorobenzene	2	0	0	NC
1,3-Dichloropropane	2	0	0	NC
1,4-Dichlorobenzene	2	0	0	NC
1-Chlorohexane	2	0	0	NC
2,2-Dichloropropane	2	0	0	NC
2-Butanone(MEK)	2	0	0	NC
2-Chlorotoluene	2	0	0	NC
4-Chlorotoluene	2	0	0	NC
Acetone	2	0	0	NC
Benzene	2	0	0	NC
Bromobenzene	2	0	0	NC
Bromochloromethane	2	0	0	NC
Bromodichloromethane	2	0	0	NC
Bromoform	2	0	0	NC
Bromomethane	2	0	0	NC
Carbon tetrachloride	2	0	0	NC
Chlorobenzene	2	0	0	NC
Chloroethane	2	0	0	NC
Chloroform	2	0	0	NC
Chloromethane	2	0	0	NC
Dibromochloromethane	2	0	0	NC
Dibromomethane	2	0	0	NC
Dichlorodifluoromethane	2	0	0	NC
Ethylbenzene	2	0	0	NC
Hexachlorobutadiene	2	0	0	NC
Isopropylbenzene	2	0	0	NC
Methyl isobutyl ketone (MIBK)	2	0	0	NC
Methyl t-butyl ether	2	0	0	NC
Methylene chloride	2	0	0	NC
Naphthalene	2	0	0	NC
Styrene	2	0	0	NC
Tert-Butyl alcohol	2	0	0	NC
Tetrachloroethene	2	0	0	NC
Toluene	2	0	0	NC
Trichloroethene	2	0	0	NC
Trichlorofluoromethane	2	0	0	NC
Vinyl chloride	2	0	0	NC
cis-1,2-Dichloroethene	2	0	0	NC
cis-1,3-Dichloropropene	2	0	0	NC

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Analyte -----	Number of Blanks -----	Number Above Sample RL -----	Number Above SDL -----	Concentration Range -----
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Trip Blank, cont.				
m&p-Xylene	2	0	0	NC
n-Butylbenzene	2	0	0	NC
n-Propylbenzene	2	0	0	NC
o-Xylene	2	0	0	NC
p-Isopropyltoluene	2	0	0	NC
sec-Butylbenzene	2	0	0	NC
tert-Butylbenzene	2	0	0	NC
trans-1,2-Dichloroethene	2	0	0	NC
trans-1,3-Dichloropropene	2	0	0	NC

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Method : SW8011 - Ethylene Dibromide							
Type of Spike : Laboratory Control 1,2-Dibromoethane	1	1	86-86	86	0	0	80-120
Type of Spike : Matrix Spike 1,2-Dibromoethane	2	2	104-105	105	0	0	80-120
Type of Spike : Surrogate - Equipment Blank 1,2-Dibromopropane	1	1	89-89	89	0	0	70-120
Type of Spike : Surrogate - Field Duplicate 1,2-Dibromopropane	1	1	107-107	107	0	0	70-120
Type of Spike : Surrogate - Laboratory Control 1,2-Dibromopropane	1	1	92-92	92	0	0	70-120
Type of Spike : Surrogate - Matrix Spike 1,2-Dibromopropane	2	2	116-116	116	0	0	70-120
Type of Spike : Surrogate - Method Blank 1,2-Dibromopropane	1	1	96-96	96	0	0	70-120
Type of Spike : Surrogate - Normal Sample 1,2-Dibromopropane	8	8	95-120	107	0	0	70-120
Type of Spike : Surrogate - Trip Blank 1,2-Dibromopropane	2	2	92-94	93	0	0	70-120
Method : SW8260B - Volatile Organic Compounds							
Type of Spike : Laboratory Control 1,1,1,2-Tetrachloroethane	4	4	87-106	95	0	0	81-129
1,1,1-Trichloroethane	4	4	93-115	101	0	0	67-132
1,1,2,2-Tetrachloroethane	4	4	92-101	96	0	0	63-128
1,1,2-Trichloroethane	4	4	94-100	97	0	0	75-125
1,1-Dichloroethane	4	4	96-104	100	0	0	69-133
1,1-Dichloroethene	4	4	94-105	100	0	0	68-130
1,1-Dichloropropene	4	4	98-111	104	0	0	73-132
1,2,3-Trichlorobenzene	4	4	84-104	92	0	0	67-137
1,2,3-Trichloropropane	4	4	90-98	95	0	0	73-124
1,2,4-Trichlorobenzene	4	4	82-92	87	0	0	66-134
1,2,4-Trimethylbenzene	4	4	90-106	99	0	0	74-132
1,2-Dibromo-3-chloropropane	4	4	83-104	92	0	0	50-132
1,2-Dibromoethane	4	4	91-101	96	0	0	80-121
1,2-Dichlorobenzene	4	4	88-102	95	0	0	71-122
1,2-Dichloroethane	4	4	96-108	100	0	0	69-132
1,2-Dichloropropane	4	4	96-104	100	0	0	75-125

Date Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Method : SW8260B - Volatile Organic Compounds							
Type of Spike : Laboratory Control, cont.							
1,3,5-Trimethylbenzene	4	4	88-101	96	0	0	74-131
1,3-Dichlorobenzene	4	4	86-100	93	0	0	75-124
1,3-Dichloropropane	4	4	92-102	97	0	0	73-126
1,4-Dichlorobenzene	4	4	84-96	91	0	0	74-123
1-Chlorohexane	4	4	93-102	99	0	0	70-125
2,2-Dichloropropane	4	4	99-105	102	0	0	69-137
2-Butanone(MEK)	4	4	91-100	96	0	0	49-136
2-Chlorotoluene	4	4	92-107	100	0	0	73-126
4-Chlorotoluene	4	4	87-106	96	0	0	74-128
Acetone	4	4	88-100	93	0	0	40-135
Benzene	4	4	95-104	99	0	0	81-122
Bromobenzene	4	4	92-105	99	0	0	76-124
Bromochloromethane	4	4	93-106	98	0	0	65-129
Bromodichloromethane	4	4	99-115	104	0	0	76-121
Bromoform	4	4	84-91	88	0	0	69-128
Bromomethane	4	4	90-140	104	0	0	30-141
Carbon tetrachloride	4	4	96-108	102	0	0	66-138
Chlorobenzene	4	4	87-98	93	0	0	81-122
Chloroethane	4	4	89-104	95	0	0	58-133
Chloroform	4	4	99-107	103	0	0	69-128
Chloromethane	4	4	82-108	90	0	0	56-131
Dibromochloromethane	4	4	89-110	97	0	0	66-133
Dibromomethane	4	4	99-107	102	0	0	76-125
Dichlorodifluoromethane	4	4	94-137	107	0	0	30-153
Ethylbenzene	4	4	88-105	96	0	0	73-127
Hexachlorobutadiene	4	4	88-104	97	0	0	67-131
Isopropylbenzene	4	4	77-88	83	0	0	75-127
Methyl isobutyl ketone (MIBK)	4	4	86-94	90	0	0	58-134
Methyl t-butyl ether	4	4	102-154	117	0	1	65-123
Methylene chloride	4	4	92-95	94	0	0	63-137
Naphthalene	4	4	81-91	86	0	0	54-138
Styrene	4	4	87-96	92	0	0	65-134
Tert-Butyl alcohol	4	4	63-86	78	0	0	50-150
Tetrachloroethene	4	4	87-103	95	0	0	66-128
Toluene	4	4	91-107	99	0	0	77-122
Trichloroethene	4	4	92-106	98	0	0	70-127
Trichlorofluoromethane	4	4	85-112	94	0	0	57-129
Vinyl chloride	4	4	82-111	91	0	0	50-134
cis-1,2-Dichloroethene	4	4	98-110	102	0	0	72-126
cis-1,3-Dichloropropene	4	4	96-98	97	0	0	69-131
m&p-Xylene	4	4	86-106	94	0	0	76-128
n-Butylbenzene	4	4	88-102	96	0	0	69-137
n-Propylbenzene	4	4	90-103	96	0	0	72-129
o-Xylene	4	4	86-95	91	0	0	80-121
p-Isopropyltoluene	4	4	85-106	95	0	0	73-130
sec-Butylbenzene	4	4	88-108	98	0	0	72-127

Date Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Method : SW8260B - Volatile Organic Compounds							
Type of Spike : Laboratory Control, cont.							
tert-Butylbenzene	4	4	85-104	95	0	0	70-129
trans-1,2-Dichloroethene	4	4	98-106	103	0	0	63-137
trans-1,3-Dichloropropene	4	4	86-97	91	0	0	59-135
Type of Spike : Matrix Spike							
1,1,1,2-Tetrachloroethane	2	2	103-105	104	0	0	81-129
1,1,1-Trichloroethane	2	2	105-105	105	0	0	67-132
1,1,2,2-Tetrachloroethane	2	2	97-97	97	0	0	63-128
1,1,2-Trichloroethane	2	2	100-103	101	0	0	75-125
1,1-Dichloroethane	2	2	98-100	99	0	0	69-133
1,1-Dichloroethene	2	2	93-95	94	0	0	68-130
1,1-Dichloropropene	2	2	103-104	104	0	0	73-132
1,2,3-Trichlorobenzene	2	2	104-104	104	0	0	67-137
1,2,3-Trichloropropane	2	2	97-100	98	0	0	73-124
1,2,4-Trichlorobenzene	2	2	88-89	89	0	0	66-134
1,2,4-Trimethylbenzene	2	2	100-102	101	0	0	74-132
1,2-Dibromo-3-chloropropane	2	2	102-103	103	0	0	50-132
1,2-Dibromoethane	2	2	102-104	103	0	0	80-121
1,2-Dichlorobenzene	2	2	100-103	102	0	0	71-122
1,2-Dichloroethane	2	2	150-153	152	0	2	69-132
1,2-Dichloropropane	2	2	102-105	104	0	0	75-125
1,3,5-Trimethylbenzene	2	2	104-106	105	0	0	74-131
1,3-Dichlorobenzene	2	2	96-99	97	0	0	75-124
1,3-Dichloropropane	2	2	101-102	102	0	0	73-126
1,4-Dichlorobenzene	2	2	92-94	93	0	0	74-123
1-Chlorohexane	2	2	93-96	94	0	0	70-125
2,2-Dichloropropane	2	2	88-89	88	0	0	69-137
2-Butanone(MEK)	2	2	420-440	430	0	2	49-136
2-Chlorotoluene	2	2	105-111	108	0	0	73-126
4-Chlorotoluene	2	2	101-103	102	0	0	74-128
Acetone	2	2	84-89	87	0	0	40-135
Benzene	2	0	NC	0.00	0	0	81-122
Bromobenzene	2	2	103-105	104	0	0	76-124
Bromochloromethane	2	2	102-104	103	0	0	65-129
Bromodichloromethane	2	2	114-114	114	0	0	76-121
Bromoform	2	2	89-90	89	0	0	69-128
Bromomethane	2	2	138-145	142	0	1	30-141
Carbon tetrachloride	2	2	96-98	97	0	0	66-138
Chlorobenzene	2	2	94-97	96	0	0	81-122
Chloroethane	2	2	97-100	98	0	0	58-133
Chloroform	2	2	105-106	106	0	0	69-128
Chloromethane	2	2	101-104	103	0	0	56-131
Dibromochloromethane	2	2	109-112	111	0	0	66-133
Dibromomethane	2	2	106-106	106	0	0	76-125
Dichlorodifluoromethane	2	2	112-115	114	0	0	30-153
Ethylbenzene	2	2	101-104	103	0	0	73-127

Date Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

C-2-3

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Method : SW8260B - Volatile Organic Compounds							
Type of Spike : Matrix Spike, cont.							
Hexachlorobutadiene	2	2	95-97	96	0	0	67-131
Isopropylbenzene	2	2	83-86	84	0	0	75-127
Methyl isobutyl ketone (MIBK)	2	2	93-95	94	0	0	58-134
Methyl t-butyl ether	2	2	151-153	152	0	2	65-123
Methylene chloride	2	2	108-111	110	0	0	63-137
Naphthalene	2	2	84-85	85	0	0	54-138
Styrene	2	2	87-90	88	0	0	65-134
Tert-Butyl alcohol	2	2	71-75	73	0	0	50-150
Tetrachloroethene	2	2	96-100	98	0	0	66-128
Toluene	2	2	102-107	105	0	0	77-122
Trichloroethene	2	2	101-103	102	0	0	70-127
Trichlorofluoromethane	2	2	95-98	96	0	0	57-129
Vinyl chloride	2	2	100-105	103	0	0	50-134
cis-1,2-Dichloroethene	2	2	104-107	106	0	0	72-126
cis-1,3-Dichloropropene	2	2	94-95	94	0	0	69-131
m&p-Xylene	2	2	97-102	100	0	0	76-128
n-Butylbenzene	2	2	97-98	97	0	0	69-137
n-Propylbenzene	2	2	86-88	87	0	0	72-129
o-Xylene	2	2	90-92	91	0	0	80-121
p-Isopropyltoluene	2	2	100-103	102	0	0	73-130
sec-Butylbenzene	2	2	102-105	104	0	0	72-127
tert-Butylbenzene	2	2	96-99	97	0	0	70-129
trans-1,2-Dichloroethene	2	2	99-102	101	0	0	63-137
trans-1,3-Dichloropropene	2	2	92-95	93	0	0	59-135
Type of Spike : Surrogate - Equipment Blank							
1,2-Dichloroethane-d4	1	1	106-106	106	0	0	72-119
4-Bromofluorobenzene	1	1	107-107	107	0	0	76-119
Dibromofluoromethane	1	1	108-108	108	0	0	85-115
Toluene-d8	1	1	103-103	103	0	0	81-120
Type of Spike : Surrogate - Field Duplicate							
1,2-Dichloroethane-d4	1	1	103-103	103	0	0	72-119
4-Bromofluorobenzene	1	1	100-100	100	0	0	76-119
Dibromofluoromethane	1	1	104-104	104	0	0	85-115
Toluene-d8	1	1	102-102	102	0	0	81-120
Type of Spike : Surrogate - Laboratory Control							
1,2-Dichloroethane-d4	4	4	97-101	99	0	0	72-119
4-Bromofluorobenzene	4	4	102-106	104	0	0	76-119
Dibromofluoromethane	4	4	100-103	102	0	0	85-115
Toluene-d8	4	4	99-104	101	0	0	81-120

Date Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

C-2-4

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Type of Spike : Surrogate - Matrix Spike							
1,2-Dichloroethane-d4	2	2	95-100	97	0	0	72-119
4-Bromofluorobenzene	2	2	103-104	104	0	0	76-119
Dibromofluoromethane	2	2	100-101	100	0	0	85-115
Toluene-d8	2	2	103-103	103	0	0	81-120
Type of Spike : Surrogate - Method Blank							
1,2-Dichloroethane-d4	3	3	98-99	98	0	0	72-119
4-Bromofluorobenzene	3	3	104-109	106	0	0	76-119
Dibromofluoromethane	3	3	100-103	102	0	0	85-115
Toluene-d8	3	3	101-106	103	0	0	81-120
Type of Spike : Surrogate - Normal Sample							
1,2-Dichloroethane-d4	9	9	100-108	104	0	0	72-119
4-Bromofluorobenzene	9	9	102-108	104	0	0	76-119
Dibromofluoromethane	9	9	99-106	104	0	0	85-115
Toluene-d8	9	9	101-106	103	0	0	81-120
Type of Spike : Surrogate - Trip Blank							
1,2-Dichloroethane-d4	2	2	98-101	100	0	0	72-119
4-Bromofluorobenzene	2	2	103-106	105	0	0	76-119
Dibromofluoromethane	2	2	101-106	104	0	0	85-115
Toluene-d8	2	2	102-104	103	0	0	81-120

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Parameter -----	Number of Pairs -----	No. of Pairs Assessed* -----	Range of RPDs (%) -----	Above Accept -----	Acceptance RPD (%) -----
Method: SW8011 - Ethylene Dibromide					
Type of Duplicate : Field Duplicate					
1,2-Dibromoethane	1	1	NC - 18.18	0	20
Method: SW8011 - Ethylene Dibromide					
Type of Duplicate : Matrix Spike Duplicate					
1,2-Dibromoethane	1	1	NC - 0.851	0	20
Method: SW8260B - Volatile Organic Compounds					
Type of Duplicate : Field Duplicate					
1,1,1,2-Tetrachloroethane	1	0	NC - NC	0	20
1,1,1-Trichloroethane	1	0	NC - NC	0	20
1,1,2,2-Tetrachloroethane	1	0	NC - NC	0	20
1,1,2-Trichloroethane	1	0	NC - NC	0	20
1,1-Dichloroethane	1	0	NC - NC	0	20
1,1-Dichloroethene	1	0	NC - NC	0	20
1,1-Dichloropropene	1	0	NC - NC	0	20
1,2,3-Trichlorobenzene	1	0	NC - NC	0	20
1,2,3-Trichloropropane	1	0	NC - NC	0	20
1,2,4-Trichlorobenzene	1	0	NC - NC	0	20
1,2,4-Trimethylbenzene	1	1	NC - 8.08	0	20
1,2-Dibromo-3-chloropropane	1	0	NC - NC	0	20
1,2-Dibromoethane	1	0	NC - NC	0	20
1,2-Dichlorobenzene	1	0	NC - NC	0	20
1,2-Dichloroethane	1	1	NC - 5.31	0	20
1,2-Dichloropropane	1	0	NC - NC	0	20
1,3,5-Trimethylbenzene	1	1	NC - 12.50	0	20
1,3-Dichlorobenzene	1	0	NC - NC	0	20
1,3-Dichloropropane	1	0	NC - NC	0	20
1,4-Dichlorobenzene	1	0	NC - NC	0	20
1-Chlorohexane	1	0	NC - NC	0	20
2,2-Dichloropropane	1	0	NC - NC	0	20
2-Butanone(MEK)	1	0	NC - NC	0	20
2-Chlorotoluene	1	0	NC - NC	0	20
4-Chlorotoluene	1	0	NC - NC	0	20
Acetone	1	0	NC - NC	0	20
Benzene	1	1	NC - 7.41	0	20
Bromobenzene	1	0	NC - NC	0	20
Bromochloromethane	1	0	NC - NC	0	20
Bromodichloromethane	1	0	NC - NC	0	20
Bromoform	1	0	NC - NC	0	20
Bromomethane	1	0	NC - NC	0	20
Carbon tetrachloride	1	0	NC - NC	0	20
Chlorobenzene	1	0	NC - NC	0	20
Chloroethane	1	0	NC - NC	0	20
Chloroform	1	0	NC - NC	0	20

Compiled: 07/01/09

NC = Not Calculable ND = Not Detected NS = Not Specified

C-3-1

Statistics include only detected concentrations.

* Pairs for which one or both of the results were below the RL or not detected are excluded from evaluation.

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Parameter	Number of Pairs	No. of Pairs Assessed*	Range of RPDs (%)	Above Accept	Acceptance RPD (%)
Chloromethane	1	0	NC - NC	0	20
Dibromochloromethane	1	0	NC - NC	0	20
Dibromomethane	1	0	NC - NC	0	20
Dichlorodifluoromethane	1	0	NC - NC	0	20
Ethylbenzene	1	1	NC - 10.99	0	20
Hexachlorobutadiene	1	0	NC - NC	0	20
Isopropylbenzene	1	0	NC - NC	0	20
Methyl isobutyl ketone (MIBK)	1	0	NC - NC	0	20
Methyl t-butyl ether	1	1	NC - 10.04	0	20
Methylene chloride	1	1	NC - 1.89	0	20
Naphthalene	1	1	NC - 6.56	0	20
Styrene	1	0	NC - NC	0	20
Tert-Butyl alcohol	1	0	NC - NC	0	20
Tetrachloroethene	1	0	NC - NC	0	20
Toluene	1	1	NC - 4.92	0	20
Trichloroethene	1	0	NC - NC	0	20
Trichlorofluoromethane	1	0	NC - NC	0	20
Vinyl chloride	1	0	NC - NC	0	20
cis-1,2-Dichloroethene	1	0	NC - NC	0	20
cis-1,3-Dichloropropene	1	0	NC - NC	0	20
m&p-Xylene	1	1	NC - 5.00	0	20
n-Butylbenzene	1	0	NC - NC	0	20
n-Propylbenzene	1	0	NC - NC	0	20
o-Xylene	1	1	NC - 6.45	0	20
p-Isopropyltoluene	1	0	NC - NC	0	20
sec-Butylbenzene	1	0	NC - NC	0	20
tert-Butylbenzene	1	0	NC - NC	0	20
trans-1,2-Dichloroethene	1	0	NC - NC	0	20
trans-1,3-Dichloropropene	1	0	NC - NC	0	20

Method: SW8260B - Volatile Organic Compounds

Type of Duplicate : Laboratory Control Duplicate

1,1,1,2-Tetrachloroethane	1	1	NC - 4.49	0	20
1,1,1-Trichloroethane	1	1	NC - 5.71	0	20
1,1,2,2-Tetrachloroethane	1	1	NC - 1.08	0	20
1,1,2-Trichloroethane	1	1	NC - 1.58	0	20
1,1-Dichloroethane	1	1	NC - 5.08	0	20
1,1-Dichloroethene	1	1	NC - 7.18	0	20
1,1-Dichloropropene	1	1	NC - 6.90	0	20
1,2,3-Trichlorobenzene	1	1	NC - 3.53	0	20
1,2,3-Trichloropropane	1	1	NC - 4.35	0	20
1,2,4-Trichlorobenzene	1	1	NC - 4.18	0	20
1,2,4-Trimethylbenzene	1	1	NC - 6.45	0	20
1,2-Dibromo-3-chloropropane	1	1	NC - 5.88	0	20
1,2-Dibromoethane	1	1	NC - 2.17	0	20
1,2-Dichlorobenzene	1	1	NC - 4.47	0	20
1,2-Dichloroethane	1	1	NC - 3.09	0	20

Compiled: 07/01/09

NC = Not Calculable ND = Not Detected NS = Not Specified

C-3-2

Statistics include only detected concentrations.

* Pairs for which one or both of the results were below the RL or not detected are excluded from evaluation.

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Parameter	Number of Pairs	No. of Pairs Assessed*	Range of RPDs (%)	Above Accept	Acceptance RPD (%)
1,2-Dichloropropane	1	1	NC - 4.58	0	20
1,3,5-Trimethylbenzene	1	1	NC - 7.65	0	20
1,3-Dichlorobenzene	1	1	NC - 4.57	0	20
1,3-Dichloropropane	1	1	NC - 1.08	0	20
1,4-Dichlorobenzene	1	1	NC - 6.94	0	20
1-Chlorohexane	1	1	NC - 6.25	0	20
2,2-Dichloropropane	1	1	NC - 5.91	0	20
2-Butanone(MEK)	1	1	NC - 2.01	0	20
2-Chlorotoluene	1	1	NC - 6.35	0	20
4-Chlorotoluene	1	1	NC - 5.07	0	20
Acetone	1	1	NC - 2.19	0	20
Benzene	1	1	NC - 4.10	0	20
Bromobenzene	1	1	NC - 3.73	0	20
Bromochloromethane	1	1	NC - 4.19	0	20
Bromodichloromethane	1	1	NC - 0.990	0	20
Bromoform	1	1	NC - 1.18	0	20
Bromomethane	1	1	NC - 2.71	0	20
Carbon tetrachloride	1	1	NC - 7.04	0	20
Chlorobenzene	1	1	NC - 5.04	0	20
Chloroethane	1	1	NC - 7.57	0	20
Chloroform	1	1	NC - 5.41	0	20
Chloromethane	1	1	NC - 3.00	0	20
Dibromochloromethane	1	1	NC - 2.75	0	20
Dibromomethane	1	1	NC - 2.49	0	20
Dichlorodifluoromethane	1	1	NC - 8.12	0	20
Ethylbenzene	1	1	NC - 4.99	0	20
Hexachlorobutadiene	1	1	NC - 7.12	0	20
Isopropylbenzene	1	1	NC - 3.82	0	20
Methyl isobutyl ketone (MIBK)	1	1	NC - 3.81	0	20
Methyl t-butyl ether	1	1	NC - 1.43	0	20
Methylene chloride	1	1	NC - 2.68	0	20
Naphthalene	1	1	NC - 1.76	0	20
Styrene	1	1	NC - 3.94	0	20
Tert-Butyl alcohol	1	1	NC - 2.95	0	20
Tetrachloroethene	1	1	NC - 5.62	0	20
Toluene	1	1	NC - 4.83	0	20
Trichloroethene	1	1	NC - 7.33	0	20
Trichlorofluoromethane	1	1	NC - 6.82	0	20
Vinyl chloride	1	1	NC - 7.06	0	20
cis-1,2-Dichloroethene	1	1	NC - 3.51	0	20
cis-1,3-Dichloropropene	1	1	NC - 2.57	0	20
m&p-Xylene	1	1	NC - 4.56	0	20
n-Butylbenzene	1	1	NC - 7.12	0	20
n-Propylbenzene	1	1	NC - 6.42	0	20
o-Xylene	1	1	NC - 5.13	0	20
p-Isopropyltoluene	1	1	NC - 6.86	0	20
sec-Butylbenzene	1	1	NC - 7.65	0	20
tert-Butylbenzene	1	1	NC - 7.91	0	20

Compiled: 07/01/09

NC = Not Calculable ND = Not Detected NS = Not Specified

C-3-3

Statistics include only detected concentrations.

* Pairs for which one or both of the results were below the RL or not detected are excluded from evaluation.

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Parameter -----	Number of Pairs -----	No. of Pairs Assessed* -----	Range of RPDs (%) -----	Above Accept -----	Acceptance RPD (%) -----
trans-1,2-Dichloroethene	1	1	NC - 5.94	0	20
trans-1,3-Dichloropropene	1	1	NC - 0.576	0	20
Method: SW82608 - Volatile Organic Compounds					
Type of Duplicate : Matrix Spike Duplicate					
1,1,1,2-Tetrachloroethane	1	1	NC - 1.91	0	20
1,1,1-Trichloroethane	1	1	NC - 0.475	0	20
1,1,2,2-Tetrachloroethane	1	1	NC - 0.00	0	20
1,1,2-Trichloroethane	1	1	NC - 3.46	0	20
1,1-Dichloroethane	1	1	NC - 3.03	0	20
1,1-Dichloroethene	1	1	NC - 1.60	0	20
1,1-Dichloropropene	1	1	NC - 1.45	0	20
1,2,3-Trichlorobenzene	1	1	NC - 0.482	0	20
1,2,3-Trichloropropane	1	1	NC - 3.06	0	20
1,2,4-Trichlorobenzene	1	1	NC - 0.563	0	20
1,2,4-Trimethylbenzene	1	1	NC - 1.84	0	20
1,2-Dibromo-3-chloropropane	1	1	NC - 0.489	0	20
1,2-Dibromoethane	1	1	NC - 1.95	0	20
1,2-Dichlorobenzene	1	1	NC - 2.96	0	20
1,2-Dichloroethane	1	1	NC - 2.31	0	20
1,2-Dichloropropane	1	1	NC - 2.91	0	20
1,3,5-Trimethylbenzene	1	1	NC - 1.99	0	20
1,3-Dichlorobenzene	1	1	NC - 3.60	0	20
1,3-Dichloropropane	1	1	NC - 1.47	0	20
1,4-Dichlorobenzene	1	1	NC - 2.15	0	20
1-Chlorohexane	1	1	NC - 2.65	0	20
2,2-Dichloropropane	1	1	NC - 1.70	0	20
2-Butanone(MEK)	1	1	NC - 4.53	0	20
2-Chlorotoluene	1	1	NC - 6.03	0	20
4-Chlorotoluene	1	1	NC - 0.980	0	20
Acetone	1	1	NC - 3.48	0	20
Benzene	1	1	NC - 0.00	0	20
Bromobenzene	1	1	NC - 2.41	0	20
Bromochloromethane	1	1	NC - 0.971	0	20
Bromodichloromethane	1	1	NC - 0.877	0	20
Bromoform	1	1	NC - 1.12	0	20
Bromomethane	1	1	NC - 5.29	0	20
Carbon tetrachloride	1	1	NC - 2.57	0	20
Chlorobenzene	1	1	NC - 3.66	0	20
Chloroethane	1	1	NC - 3.06	0	20
Chloroform	1	1	NC - 0.948	0	20
Chloromethane	1	1	NC - 3.42	0	20
Dibromochloromethane	1	1	NC - 2.27	0	20
Dibromomethane	1	1	NC - 0.00	0	20
Dichlorodifluoromethane	1	1	NC - 1.76	0	20
Ethylbenzene	1	1	NC - 2.84	0	20
Hexachlorobutadiene	1	1	NC - 1.57	0	20

Compiled: 07/01/09

NC = Not Calculable ND = Not Detected NS = Not Specified

C-3-4

Statistics include only detected concentrations.

* Pairs for which one or both of the results were below the RL or not detected are excluded from evaluation.

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Parameter	Number of Pairs	No. of Pairs Assessed*	Range of RPDs (%)	Above Accept	Acceptance RPD (%)
Isopropylbenzene	1	1	NC - 2.80	0	20
Methyl isobutyl ketone (MIBK)	1	1	NC - 2.12	0	20
Methyl t-butyl ether	1	1	NC - 1.20	0	20
Methylene chloride	1	1	NC - 2.29	0	20
Naphthalene	1	1	NC - 1.77	0	20
Styrene	1	1	NC - 3.39	0	20
Tert-Butyl alcohol	1	1	NC - 4.11	0	20
Tetrachloroethene	1	1	NC - 4.08	0	20
Toluene	1	1	NC - 4.57	0	20
Trichloroethene	1	1	NC - 2.46	0	20
Trichlorofluoromethane	1	1	NC - 2.60	0	20
Vinyl chloride	1	1	NC - 4.38	0	20
cis-1,2-Dichloroethene	1	1	NC - 2.84	0	20
cis-1,3-Dichloropropene	1	1	NC - 1.06	0	20
m&p-Xylene	1	1	NC - 3.72	0	20
n-Butylbenzene	1	1	NC - 1.01	0	20
n-Propylbenzene	1	1	NC - 2.77	0	20
o-Xylene	1	1	NC - 3.13	0	20
p-Isopropyltoluene	1	1	NC - 2.96	0	20
sec-Butylbenzene	1	1	NC - 3.37	0	20
tert-Butylbenzene	1	1	NC - 2.57	0	20
trans-1,2-Dichloroethene	1	1	NC - 2.99	0	20
trans-1,3-Dichloropropene	1	1	NC - 4.28	0	20

Attachment D
Detailed QC Results

Attachment D Table of Contents

Table D-1	Detailed Listing of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009
Table D-2	Detailed Listing of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009
Table D-3	Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8011 - Ethylene Dibromide Analyte : 1,2-Dibromoethane Type of Blank : Equipment Blank								
18-MAY-09	WG-B760-MW13-055	WG302547	WG302547	ND	0.00671	0.0192	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8011 - Ethylene Dibromide Analyte : 1,2-Dibromoethane Type of Blank : Method Blank								
18-MAY-09	BLANK-302547-01	WG302547	WG302547	ND	0.00700	0.0200	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8011 - Ethylene Dibromide Analyte : 1,2-Dibromoethane Type of Blank : Trip Blank								
18-MAY-09	WQ-ST035-MAY0902	WG302547	WG302547	ND	0.00683	0.0195	ug/L	1
18-MAY-09	WQ-ST035-MAY0901	WG302547	WG302547	ND	0.00699	0.0200	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1,2-Tetrachloroethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1,2-Tetrachloroethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	0.500	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	0.500	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	0.500	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1,2-Tetrachloroethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	0.500	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1-Trichloroethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1-Trichloroethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1-Trichloroethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2,2-Tetrachloroethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.125	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2,2-Tetrachloroethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.125	0.500	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.125	0.500	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.125	0.500	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2,2-Tetrachloroethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.125	0.500	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.125	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2-Trichloroethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2-Trichloroethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2-Trichloroethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.125	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.500	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.500	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.500	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.500	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloropropene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloropropene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloropropene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichlorobenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.150	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichlorobenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.150	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.150	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.150	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichlorobenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.150	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.150	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichloropropane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichloropropane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.500	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.500	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.500	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichloropropane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.500	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trichlorobenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.200	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trichlorobenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.200	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.200	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.200	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trichlorobenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.200	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.200	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trimethylbenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trimethylbenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trimethylbenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromo-3-chloropropane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	1.00	2.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromo-3-chloropropane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	1.00	2.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	1.00	2.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	1.00	2.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromo-3-chloropropane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	1.00	2.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	1.00	2.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromoethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromoethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromoethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichlorobenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichlorobenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.125	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichlorobenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloroethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloroethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	0.500	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	0.500	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	0.500	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloroethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	0.500	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloropropane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.200	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloropropane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.200	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.200	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.200	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloropropane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.200	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.200	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3,5-Trimethylbenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3,5-Trimethylbenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,3,5-Trimethylbenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichlorobenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichlorobenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichlorobenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichloropropane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.200	0.400	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichloropropane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.200	0.400	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.200	0.400	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.200	0.400	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichloropropane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.200	0.400	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.200	0.400	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,4-Dichlorobenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.125	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,4-Dichlorobenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.125	0.500	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.125	0.500	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.125	0.500	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,4-Dichlorobenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.125	0.500	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.125	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1-Chlorohexane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1-Chlorohexane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.125	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1-Chlorohexane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 2,2-Dichloropropane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 2,2-Dichloropropane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 2,2-Dichloropropane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 2-Butanone(MEK) Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	2.50	10	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 2-Butanone(MEK) Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	2.50	10	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	2.50	10	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	2.50	10	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 2-Butanone(MEK) Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	2.50	10	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	2.50	10	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 2-Chlorotoluene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 2-Chlorotoluene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.125	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 2-Chlorotoluene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 4-Chlorotoluene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 4-Chlorotoluene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 4-Chlorotoluene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Acetone Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	2.50	10	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Acetone Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	2.50	10	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	2.50	10	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	2.50	10	ug/L	1
Number of Blanks = 3				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Acetone Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	2.50	10	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	2.50	10	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Benzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.125	0.400	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Benzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.125	0.400	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.125	0.400	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.125	0.400	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Benzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.125	0.400	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.125	0.400	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Bromobenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Bromobenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.125	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Bromobenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Bromochloromethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.200	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Bromochloromethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.200	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.200	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.200	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Bromochloromethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.200	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.200	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Bromodichloromethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Bromodichloromethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	0.500	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	0.500	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	0.500	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Bromodichloromethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	0.500	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Bromoform Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Bromoform Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.500	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.500	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.500	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Bromoform Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.500	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Bromomethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.500	3.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Bromomethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.500	3.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.500	3.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.500	3.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Bromomethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.500	3.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.500	3.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Carbon tetrachloride Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Carbon tetrachloride Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Carbon tetrachloride Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chlorobenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.125	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chlorobenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.125	0.500	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.125	0.500	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.125	0.500	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Chlorobenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.125	0.500	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.125	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.500	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.500	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.500	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.500	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroform Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.125	0.300	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroform Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.125	0.300	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.125	0.300	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.125	0.300	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroform Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.125	0.300	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.125	0.300	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloromethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Chloromethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloromethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromochloromethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromochloromethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	0.500	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	0.500	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	0.500	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromochloromethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	0.500	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromomethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromomethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromomethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Dichlorodifluoromethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dichlorodifluoromethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dichlorodifluoromethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Ethylbenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Ethylbenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Ethylbenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Hexachlorobutadiene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	0.600	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Hexachlorobutadiene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	0.600	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	0.502	0.250	0.600	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	0.526	0.250	0.600	ug/L	1
Number of Blanks = 3 Number above Sample DL = 2				Concentration Range:		0.502 - 0.526 Number above Sample RL = 0		

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Hexachlorobutadiene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	0.600	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	0.600	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Isopropylbenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Isopropylbenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Isopropylbenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl isobutyl ketone (MIBK) Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	2.50	10	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl isobutyl ketone (MIBK) Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	2.50	10	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	2.50	10	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	2.50	10	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl isobutyl ketone (MIBK) Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	2.50	10	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	2.50	10	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl t-butyl ether Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.500	5.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl t-butyl ether Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.500	5.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.500	5.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.500	5.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl t-butyl ether Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.500	5.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.500	5.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Methylene chloride Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Methylene chloride Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	0.347	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 1				Concentration Range: 0.347 - 0.347 Number above Sample RL = 0				

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Methylene chloride Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Naphthalene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.200	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Naphthalene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.200	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	0.243	0.200	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	0.285	0.200	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 2				Concentration Range: 0.243 - 0.285 Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Naphthalene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.200	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.200	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Styrene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Styrene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.125	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Styrene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Tert-Butyl alcohol Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	50	100	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Tert-Butyl alcohol Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	50	100	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	50	100	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	50	100	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Tert-Butyl alcohol Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	50	100	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	50	100	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Tetrachloroethene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Tetrachloroethene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Tetrachloroethene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Toluene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Toluene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Toluene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Trichloroethene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Trichloroethene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Trichloroethene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Trichlorofluoromethane Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Trichlorofluoromethane Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Trichlorofluoromethane Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Vinyl chloride Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Vinyl chloride Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Vinyl chloride Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,2-Dichloroethene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,2-Dichloroethene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,2-Dichloroethene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,3-Dichloropropene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,3-Dichloropropene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	0.500	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	0.500	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	0.500	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,3-Dichloropropene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	0.500	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : m&p-Xylene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.500	2.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

D-1-43

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : m&p-Xylene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.500	2.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.500	2.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.500	2.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : m&p-Xylene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.500	2.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.500	2.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : n-Butylbenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : n-Butylbenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : n-Butylbenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : n-Propylbenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : n-Propylbenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.125	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : n-Propylbenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.125	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

D-1-45

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : o-Xylene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : o-Xylene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : o-Xylene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : p-Isopropyltoluene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : p-Isopropyltoluene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : p-Isopropyltoluene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : sec-Butylbenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : sec-Butylbenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

D-1-47

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : sec-Butylbenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : tert-Butylbenzene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : tert-Butylbenzene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : tert-Butylbenzene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 06/09/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

D-1-48

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,2-Dichloroethene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,2-Dichloroethene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.250	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 3 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,2-Dichloroethene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.250	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,3-Dichloropropene Type of Blank : Equipment Blank								
12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,3-Dichloropropene Type of Blank : Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	ND	0.500	1.00	ug/L	1
13-MAY-09	BLANK-302166-01	WG302166	WG302166	ND	0.500	1.00	ug/L	1
14-MAY-09	BLANK-302273-01	WG302273	WG302273	ND	0.500	1.00	ug/L	1
Number of Blanks = 3				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL =		0		
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,3-Dichloropropene Type of Blank : Trip Blank								
13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	ND	0.500	1.00	ug/L	1
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	ND	0.500	1.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL =		0		

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8011 - Ethylene Dibromide Spiked Analyte : 1,2-Dibromoethane Type of Spike : Laboratory Control								
18-MAY-09	LCS-302547-02	WG302547	WG302547	NA	0.114	0.0977	ug/L	86
Number of Spikes		=	1	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		80-120		

Method : SW8011 - Ethylene Dibromide Spiked Analyte : 1,2-Dibromoethane Type of Spike : Matrix Spike								
18-MAY-09	WG-B760-MW06R-053	WG302547	WG302547	ND	0.113	0.118	ug/L	104
18-MAY-09	WG-B760-MW06R-053	WG302547	WG302547	ND	0.112	0.117	ug/L	105
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		80-120		

Method : SW8011 - Ethylene Dibromide Spiked Analyte : 1,2-Dibromopropane Type of Spike : Surrogate - Equipment Blank								
18-MAY-09	WG-B760-MW13-055	WG302547	WG302547	NA	2.50	0.122	ug/L	89
Number of Spikes		=	1	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		70-120		

Method : SW8011 - Ethylene Dibromide Spiked Analyte : 1,2-Dibromopropane Type of Spike : Surrogate - Field Duplicate								
18-MAY-09	WG-B760-MW09-051	WG302547	WG302547	NA	2.50	0.149	ug/L	107
Number of Spikes		=	1	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		70-120		

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Laboratory Control

18-MAY-09	LCS-302547-02	WG302547	WG302547	NA	2.50	0.131	ug/L	92
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-120

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Matrix Spike

18-MAY-09	WG-B760-MW06R-053	WG302547	WG302547	NA	2.50	0.164	ug/L	116
18-MAY-09	WG-B760-MW06R-053	WG302547	WG302547	NA	2.50	0.162	ug/L	116

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-120

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Method Blank

18-MAY-09	BLANK-302547-01	WG302547	WG302547	NA	2.50	0.138	ug/L	96
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-120

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Normal Sample

18-MAY-09	WG-B760-MW06R-053	WG302547	WG302547	NA	2.50	0.162	ug/L	116
18-MAY-09	WG-B760-MW07R-050	WG302547	WG302547	NA	2.50	0.162	ug/L	115
18-MAY-09	WG-B760-MW08R-050	WG302547	WG302547	NA	2.50	0.136	ug/L	95
18-MAY-09	WG-B760-MW09-050	WG302547	WG302547	NA	2.50	0.149	ug/L	107
18-MAY-09	WG-B760-MW10-050	WG302547	WG302547	NA	2.50	0.140	ug/L	102
18-MAY-09	WG-B760-MW11-050	WG302547	WG302547	NA	2.50	0.139	ug/L	99
18-MAY-09	WG-B760-MW12-050	WG302547	WG302547	NA	2.50	0.142	ug/L	102

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8011 - Ethylene Dibromide

Spiked Analyte : 1,2-Dibromopropane

Type of Spike : Surrogate - Normal Sample, cont.

18-MAY-09	WG-B760-MW13-050	WG302547	WG302547	NA	2.50	0.170	ug/L	120
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Number of Spikes	=	8	Number Below acceptance	=	0
			Number Above acceptance	=	0
			Acceptance Criteria	=	70-120

Method : SW8011 - Ethylene Dibromide

Spiked Analyte : 1,2-Dibromopropane

Type of Spike : Surrogate - Trip Blank

18-MAY-09	WQ-ST035-MAY0901	WG302547	WG302547	NA	2.50	0.135	ug/L	94
18-MAY-09	WQ-ST035-MAY0902	WG302547	WG302547	NA	2.50	0.128	ug/L	92

Number of Spikes	=	2	Number Below acceptance	=	0
			Number Above acceptance	=	0
			Acceptance Criteria	=	70-120

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1,1,2-Tetrachloroethane

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	106
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	87
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	91
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	97

Number of Spikes	=	4	Number Below acceptance	=	0
			Number Above acceptance	=	0
			Acceptance Criteria	=	81-129

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1,1,2-Tetrachloroethane

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	103
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	105

Number of Spikes	=	2	Number Below acceptance	=	0
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Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,1,2-Tetrachloroethane
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 81-129

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,1-Trichloroethane
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	23	ug/L	115
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	93
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	99
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	96

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 67-132

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,1-Trichloroethane
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	105
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	105

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 67-132

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,2,2-Tetrachloroethane
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	20	ug/L	97
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	92
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	93
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	101

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,2,2-Tetrachloroethane
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 63-128

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,2,2-Tetrachloroethane
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	97
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	97

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 63-128

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1,2-Trichloroethane
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	20	ug/L	100
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	94
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	96
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	99

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 75-125

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1,2-Trichloroethane
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	100
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	103

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 75-125

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1-Dichloroethane

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	104
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	96
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	101
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	99

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-133

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1-Dichloroethane

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	98
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	100

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-133

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1-Dichloroethene

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	105
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	94
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	101
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	99

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 68-130

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1-Dichloroethene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	93
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	95

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 68-130

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1-Dichloropropene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	22	ug/L	111
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	20	ug/L	98
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	21	ug/L	105
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	102

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-132

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1-Dichloropropene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	103
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	104

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-132

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,3-Trichlorobenzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	104
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	84
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	17	ug/L	87

Date Compiled: 09/29/09
 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds Spiked Analyte : 1,2,3-Trichlorobenzene Type of Spike : Laboratory Control, cont.								
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	93
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		67-137		

Method : SW8260B - Volatile Organic Compounds Spiked Analyte : 1,2,3-Trichlorobenzene Type of Spike : Matrix Spike								
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	104
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	104
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		67-137		

Method : SW8260B - Volatile Organic Compounds Spiked Analyte : 1,2,3-Trichloropropane Type of Spike : Laboratory Control								
12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	20	ug/L	98
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	90
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	94
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	98
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		73-124		

Method : SW8260B - Volatile Organic Compounds Spiked Analyte : 1,2,3-Trichloropropane Type of Spike : Matrix Spike								
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	97
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	100
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,3-Trichloropropane
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 73-124

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,4-Trichlorobenzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	18	ug/L	89
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	16	ug/L	82
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	17	ug/L	85
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	18	ug/L	92

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-134

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,4-Trichlorobenzene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	18	ug/L	88
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	18	ug/L	89

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-134

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,4-Trimethylbenzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	106
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	90
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	96
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	21	ug/L	104

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,4-Trimethylbenzene
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 74-132

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,4-Trimethylbenzene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	6.95	20	27	ug/L	100
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	6.95	20	27	ug/L	102

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 74-132

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dibromo-3-chloropropane
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	104
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	83
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	88
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	18	ug/L	92

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 50-132

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dibromo-3-chloropropane
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	102
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	103

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 50-132

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dibromoethane
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	20	ug/L	101
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	91
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	93
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	98

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 80-121

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dibromoethane
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	102
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	104

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 80-121

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichlorobenzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	102
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	88
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	92
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	98

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 71-122

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dichlorobenzene

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	100
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	103

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 71-122

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dichloroethane

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	22	ug/L	108
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	96
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	99
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	98

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-132

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dichloroethane

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	31	ug/L	153
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	30	ug/L	150

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 2
 Acceptance Criteria = 69-132

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dichloropropane

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	104
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	96
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	101

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dichloropropane

Type of Spike : Laboratory Control, cont.

14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	100
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Number of Spikes	=	4	Number Below acceptance	=	0
			Number Above acceptance	=	0
			Acceptance Criteria	=	75-125

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dichloropropane

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	102
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	105

Number of Spikes	=	2	Number Below acceptance	=	0
			Number Above acceptance	=	0
			Acceptance Criteria	=	75-125

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3,5-Trimethylbenzene

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	20	ug/L	99
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	88
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	95
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	101

Number of Spikes	=	4	Number Below acceptance	=	0
			Number Above acceptance	=	0
			Acceptance Criteria	=	74-131

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3,5-Trimethylbenzene

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	4.13	20	25	ug/L	104
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	4.13	20	25	ug/L	106

Number of Spikes	=	2	Number Below acceptance	=	0
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Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,3,5-Trimethylbenzene
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 74-131

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,3-Dichlorobenzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	20	ug/L	100
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	86
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	90
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	97

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 75-124

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,3-Dichlorobenzene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	96
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	99

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 75-124

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,3-Dichloropropane
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	20	ug/L	102
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	92
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	93
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	100

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3-Dichloropropane

Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 73-126

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3-Dichloropropane

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	101
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	102

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 73-126

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,4-Dichlorobenzene

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	19	ug/L	96
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	84
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	90
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	95

Number of Spikes = 4

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 74-123

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,4-Dichlorobenzene

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	18	ug/L	92
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	94

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 74-123

Date Compiled: 09/29/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1-Chlorohexane

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	20	ug/L	101
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	93
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	99
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	102

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-125

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1-Chlorohexane

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	93
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	96

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-125

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 2,2-Dichloropropane

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	102
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	20	ug/L	99
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	21	ug/L	105
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	21	ug/L	103

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-137

Date Compiled: 09/29/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 2,2-Dichloropropane

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	18	ug/L	88
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	18	ug/L	89

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-137

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 2-Butanone(MEK)

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	18	ug/L	91
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	20	ug/L	100
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	98
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	95

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 49-136

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 2-Butanone(MEK)

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	88	ug/L	440
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	84	ug/L	420

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 2
 Acceptance Criteria = 49-136

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 2-Chlorotoluene

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	107
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	92
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	98

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 2-Chlorotoluene								
Type of Spike : Laboratory Control, cont.								
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	21	ug/L	104
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		73-126		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 2-Chlorotoluene								
Type of Spike : Matrix Spike								
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	105
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	22	ug/L	111
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		73-126		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 4-Chlorotoluene								
Type of Spike : Laboratory Control								
12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	106
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	87
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	91
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	100
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		74-128		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 4-Chlorotoluene								
Type of Spike : Matrix Spike								
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	101
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	103
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Chlorotoluene
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 74-128

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Acetone
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	20	ug/L	100
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	92
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	91
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	18	ug/L	88

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 40-135

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Acetone
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	11	20	28	ug/L	84
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	11	20	29	ug/L	89

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 40-135

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Benzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	104
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	95
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	99
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	97

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Benzene
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 81-122

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Benzene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	94	20	104	ug/L	51	#
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	94	20	104	ug/L	49	#

Number of Spikes = 2
 Number Below acceptance = 2
 Number Above acceptance = 0
 Acceptance Criteria = 81-122

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Bromobenzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	105
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	92
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	96
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	21	ug/L	103

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-124

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Bromobenzene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	103
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	105

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-124

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Bromochloromethane

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	106
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	93
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	97
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	96

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 65-129

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Bromochloromethane

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	102
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	104

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 65-129

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Bromodichloromethane

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	23	ug/L	115
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	20	ug/L	100
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	101
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	99

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-121

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromodichloromethane								
Type of Spike : Matrix Spike								
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	23	ug/L	114
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	23	ug/L	114
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 76-121				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromoform								
Type of Spike : Laboratory Control								
12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	18	ug/L	90
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	85
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	17	ug/L	84
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	18	ug/L	91
Number of Spikes = 4				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 69-128				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromoform								
Type of Spike : Matrix Spike								
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	18	ug/L	90
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	18	ug/L	89
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 69-128				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromomethane								
Type of Spike : Laboratory Control								
12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	28	ug/L	140
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	91
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	94

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Bromomethane
 Type of Spike : Laboratory Control, cont.

14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	18	ug/L	90
Number of Spikes = 4				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 30-141				

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Bromomethane
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	29	ug/L	145
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	28	ug/L	138
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 1				
				Acceptance Criteria = 30-141				

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Carbon tetrachloride
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	22	ug/L	108
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	96
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	21	ug/L	103
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	100
Number of Spikes = 4				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 66-138				

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Carbon tetrachloride
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	98
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	96
Number of Spikes = 2				Number Below acceptance = 0				

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Carbon tetrachloride

Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 66-138

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Chlorobenzene

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	20	ug/L	98
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	87
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	92
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	96

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-122

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Chlorobenzene

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	94
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	97

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-122

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Chloroethane

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	104
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	89
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	96
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	93

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Chloroethane
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 58-133

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Chloroethane
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	97
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	100

Number of Spikes	=	2	Number Below acceptance =	0
			Number Above acceptance =	0
			Acceptance Criteria =	58-133

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Chloroform
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	107
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	20	ug/L	99
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	21	ug/L	104
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	102

Number of Spikes	=	4	Number Below acceptance =	0
			Number Above acceptance =	0
			Acceptance Criteria =	69-128

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Chloroform
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	105
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	106

Number of Spikes	=	2	Number Below acceptance =	0
			Number Above acceptance =	0
			Acceptance Criteria =	69-128

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Chloromethane

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	22	ug/L	108
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	16	ug/L	82
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	17	ug/L	85
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	17	ug/L	84

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 56-131

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Chloromethane

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	101
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	104

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 56-131

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Dibromochloromethane

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	22	ug/L	110
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	89
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	92
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	97

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-133

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dibromochloromethane								
Type of Spike : Matrix Spike								
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	22	ug/L	109
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	22	ug/L	112
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		66-133		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dibromomethane								
Type of Spike : Laboratory Control								
12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	107
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	20	ug/L	99
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	102
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	99
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		76-125		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dibromomethane								
Type of Spike : Matrix Spike								
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	106
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	106
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		76-125		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dichlorodifluoromethane								
Type of Spike : Laboratory Control								
12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	27	ug/L	137
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	94
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	21	ug/L	102

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation. D-2-27

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dichlorodifluoromethane
 Type of Spike : Laboratory Control, cont.

14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	96
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		30-153		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dichlorodifluoromethane
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	23	ug/L	115
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	23	ug/L	112
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		30-153		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Ethylbenzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	105
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	88
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	93
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	99
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		73-127		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Ethylbenzene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	0.598	20	21	ug/L	101
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	0.598	20	21	ug/L	104
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Ethylbenzene
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 73-127

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Hexachlorobutadiene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	104
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	88
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	94
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	21	ug/L	103

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 67-131

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Hexachlorobutadiene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	95
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	97

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 67-131

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Isopropylbenzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	18	ug/L	88
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	15	ug/L	77
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	16	ug/L	80
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	17	ug/L	86

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Isopropylbenzene
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 75-127

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Isopropylbenzene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	0.982	20	18	ug/L	83
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	0.982	20	18	ug/L	86

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 75-127

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Methyl isobutyl ketone (MIBK)
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	18	ug/L	89
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	90
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	94
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	17	ug/L	86

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 58-134

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Methyl isobutyl ketone (MIBK)
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	95
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	93

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 58-134

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methyl t-butyl ether
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	31	ug/L	154
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	21	ug/L	104
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	21	ug/L	106
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	102

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 1
 Acceptance Criteria = 65-123

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methyl t-butyl ether
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	2.92	20	33	ug/L	151
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	2.92	20	34	ug/L	153

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 2
 Acceptance Criteria = 65-123

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methylene chloride
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	19	ug/L	95
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	92
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	95
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	94

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 63-137

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methylene chloride
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	22	ug/L	108
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	22	ug/L	111

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 63-137

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Naphthalene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	16	ug/L	81
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	84
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	17	ug/L	86
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	18	ug/L	91

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 54-138

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Naphthalene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	17	ug/L	85
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	17	ug/L	84

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 54-138

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Styrene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	19	ug/L	94
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	87
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	90

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Styrene
 Type of Spike : Laboratory Control, cont.

14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	96
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		65-134		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Styrene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	17	ug/L	87
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	18	ug/L	90
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		65-134		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Tert-Butyl alcohol
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	200	127	ug/L	63
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	200	167	ug/L	83
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	200	172	ug/L	86
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	200	159	ug/L	79
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		50-150		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Tert-Butyl alcohol
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	200	143	ug/L	71
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	200	149	ug/L	75
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Tert-Butyl alcohol

Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 50-150

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Tetrachloroethene

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	103
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	87
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	91
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	100

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-128

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Tetrachloroethene

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	96
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	100

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-128

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Toluene

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	107
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	91
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	96
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	101

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Toluene

Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 77-122

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Toluene

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	1.09	20	21	ug/L	102
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	1.09	20	22	ug/L	107

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 77-122

Method : SW8260B - Volatile organic compounds

Spiked Analyte : Trichloroethene

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	106
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	92
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	99
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	96

Number of Spikes = 4

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 70-127

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Trichloroethene

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	101
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	103

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 70-127

Date Compiled: 09/29/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Trichlorofluoromethane
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	22	ug/L	112
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	85
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	91
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	18	ug/L	89

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 57-129

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Trichlorofluoromethane
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	98
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	95

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 57-129

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Vinyl chloride
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	22	ug/L	111
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	16	ug/L	82
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	88
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	17	ug/L	84

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 50-134

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Vinyl chloride
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	105
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	100

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 50-134

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : cis-1,2-Dichloroethene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	22	ug/L	110
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	20	ug/L	98
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	101
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	100

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-126

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : cis-1,2-Dichloroethene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	104
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	107

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-126

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : cis-1,3-Dichloropropene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	20	ug/L	98
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	19	ug/L	96
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	20	ug/L	98

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : cis-1,3-Dichloropropene

Type of Spike : Laboratory Control, cont.

14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	96
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Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-131

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : cis-1,3-Dichloropropene

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	94
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	95

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-131

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : m&p-Xylene

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	40	42	ug/L	106
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	40	34	ug/L	86
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	40	36	ug/L	90
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	40	39	ug/L	96

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-128

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : m&p-Xylene

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	19	40	58	ug/L	97
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	19	40	60	ug/L	102

Number of Spikes = 2
 Number Below acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : m&p-Xylene
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 76-128

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : n-Butylbenzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	20	ug/L	102
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	88
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	94
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	101

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-137

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : n-Butylbenzene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	0.368	20	20	ug/L	97
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	0.368	20	20	ug/L	98

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-137

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : n-Propylbenzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	19	ug/L	94
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	90
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	96
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	21	ug/L	103

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : n-Propylbenzene

Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 72-129

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : n-Propylbenzene

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	0.676	20	18	ug/L	86
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	0.676	20	18	ug/L	88

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 72-129

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : o-Xylene

Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	19	ug/L	95
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	86
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	90
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	95

Number of Spikes = 4

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 80-121

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : o-Xylene

Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	1.05	20	19	ug/L	90
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	1.05	20	20	ug/L	92

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 80-121

Date Compiled: 09/29/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : p-Isopropyltoluene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	106
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	85
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	91
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	97

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-130

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : p-Isopropyltoluene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	100
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	103

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-130

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : sec-Butylbenzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	22	ug/L	108
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	18	ug/L	88
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	19	ug/L	95
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	101

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-127

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : sec-Butylbenzene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	102
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	21	ug/L	105

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-127

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : tert-Butylbenzene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	104
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	85
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	18	ug/L	92
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	99

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-129

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : tert-Butylbenzene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	96
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	99

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-129

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : trans-1,2-Dichloroethene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	21	ug/L	106
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	20	ug/L	98
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	21	ug/L	104

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : trans-1,2-Dichloroethene
 Type of Spike : Laboratory Control, cont.

14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	20	ug/L	102
Number of Spikes = 4				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 63-137				

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : trans-1,2-Dichloroethene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	99
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	20	ug/L	102
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 63-137				

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : trans-1,3-Dichloropropene
 Type of Spike : Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	20	19	ug/L	97
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	20	17	ug/L	86
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	20	17	ug/L	87
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	20	19	ug/L	95
Number of Spikes = 4				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 59-135				

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : trans-1,3-Dichloropropene
 Type of Spike : Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	18	ug/L	92
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	ND	20	19	ug/L	95
Number of Spikes = 2				Number Below acceptance = 0				

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : trans-1,3-Dichloropropene
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 59-135

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Equipment Blank

12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	NA	25	26	ug/L	106
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Field Duplicate

13-MAY-09	WG-B760-MW09-051	WG302166	WG302166	NA	25	26	ug/L	103
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	25	25	ug/L	98
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	25	25	ug/L	101
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	25	25	ug/L	100
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	25	24	ug/L	97

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-119

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichloroethane-d4								
Type of Spike : Surrogate - Matrix Spike								
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	NA	25	25	ug/L	100
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	NA	25	24	ug/L	95
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 72-119				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichloroethane-d4								
Type of Spike : Surrogate - Method Blank								
12-MAY-09	BLANK-302074-01	WG302074	WG302074	NA	25	24	ug/L	98
13-MAY-09	BLANK-302166-01	WG302166	WG302166	NA	25	24	ug/L	98
14-MAY-09	BLANK-302273-01	WG302273	WG302273	NA	25	25	ug/L	99
Number of Spikes = 3				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 72-119				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichloroethane-d4								
Type of Spike : Surrogate - Normal Sample								
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	NA	25	25	ug/L	100
12-MAY-09	WG-B760-MW11-050	WG302074	WG302074	NA	25	26	ug/L	103
12-MAY-09	WG-B760-MW13-050	WG302074	WG302074	NA	25	26	ug/L	105
13-MAY-09	WG-B760-MW07R-050	WG302166	WG302166	NA	25	26	ug/L	105
13-MAY-09	WG-B760-MW08R-050	WG302166	WG302166	NA	25	26	ug/L	104
13-MAY-09	WG-B760-MW09-050	WG302166	WG302166	NA	25	26	ug/L	104
13-MAY-09	WG-B760-MW10-050	WG302166	WG302166	NA	25	27	ug/L	108
13-MAY-09	WG-B760-MW12-050	WG302166	WG302166	NA	625	633	ug/L	101
14-MAY-09	WG-B760-MW12-050	WG302273	WG302273	NA	25	26	ug/L	102
Number of Spikes = 9				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 72-119				

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Trip Blank

13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	NA	25	25	ug/L	101
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	NA	25	25	ug/L	98

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Equipment Blank

12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	NA	25	27	ug/L	107
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Field Duplicate

13-MAY-09	WG-B760-MW09-051	WG302166	WG302166	NA	25	100	ug/L	100
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	25	26	ug/L	103
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	25	26	ug/L	102
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	25	26	ug/L	103
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	25	27	ug/L	106

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Laboratory Control, cont.

Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	NA	25	26	ug/L	104
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	NA	25	26	ug/L	103

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Method Blank

12-MAY-09	BLANK-302074-01	WG302074	WG302074	NA	25	27	ug/L	106
13-MAY-09	BLANK-302166-01	WG302166	WG302166	NA	25	26	ug/L	104
14-MAY-09	BLANK-302273-01	WG302273	WG302273	NA	25	27	ug/L	109

Number of Spikes = 3
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Normal Sample

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	NA	25	105	ug/L	105
12-MAY-09	WG-B760-MW11-050	WG302074	WG302074	NA	25	27	ug/L	107
12-MAY-09	WG-B760-MW13-050	WG302074	WG302074	NA	25	27	ug/L	108
13-MAY-09	WG-B760-MW07R-050	WG302166	WG302166	NA	25	26	ug/L	102
13-MAY-09	WG-B760-MW08R-050	WG302166	WG302166	NA	25	26	ug/L	103
13-MAY-09	WG-B760-MW09-050	WG302166	WG302166	NA	25	102	ug/L	102
13-MAY-09	WG-B760-MW10-050	WG302166	WG302166	NA	25	26	ug/L	102
13-MAY-09	WG-B760-MW12-050	WG302166	WG302166	NA	625	642	ug/L	103
14-MAY-09	WG-B760-MW12-050	WG302273	WG302273	NA	25	27	ug/L	106

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Normal Sample, cont.

Number of Spikes = 9
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Trip Blank

13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	NA	25	26	ug/L	103
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	NA	25	26	ug/L	106

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromofluoromethane
 Type of Spike : Surrogate - Equipment Blank

12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	NA	25	27	ug/L	108
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 85-115

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromofluoromethane
 Type of Spike : Surrogate - Field Duplicate

13-MAY-09	WG-B760-MW09-051	WG302166	WG302166	NA	25	26	ug/L	104
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 85-115

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromofluoromethane
 Type of Spike : Surrogate - Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	25	26	ug/L	103
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	25	26	ug/L	103
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	25	26	ug/L	103
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	25	25	ug/L	100

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 85-115

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromofluoromethane
 Type of Spike : Surrogate - Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	NA	25	25	ug/L	101
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	NA	25	25	ug/L	100

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 85-115

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromofluoromethane
 Type of Spike : Surrogate - Method Blank

12-MAY-09	BLANK-302074-01	WG302074	WG302074	NA	25	26	ug/L	102
13-MAY-09	BLANK-302166-01	WG302166	WG302166	NA	25	26	ug/L	103
14-MAY-09	BLANK-302273-01	WG302273	WG302273	NA	25	25	ug/L	100

Number of Spikes = 3
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 85-115

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Dibromofluoromethane

Type of Spike : Surrogate - Normal Sample

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	NA	25	26	ug/L	103
12-MAY-09	WG-B760-MW11-050	WG302074	WG302074	NA	25	26	ug/L	105
12-MAY-09	WG-B760-MW13-050	WG302074	WG302074	NA	25	26	ug/L	105
13-MAY-09	WG-B760-MW07R-050	WG302166	WG302166	NA	25	26	ug/L	105
13-MAY-09	WG-B760-MW08R-050	WG302166	WG302166	NA	25	26	ug/L	105
13-MAY-09	WG-B760-MW09-050	WG302166	WG302166	NA	25	26	ug/L	106
13-MAY-09	WG-B760-MW10-050	WG302166	WG302166	NA	25	26	ug/L	106
13-MAY-09	WG-B760-MW12-050	WG302166	WG302166	NA	625	657	ug/L	105
14-MAY-09	WG-B760-MW12-050	WG302273	WG302273	NA	25	25	ug/L	99

Number of Spikes = 9

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 85-115

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Dibromofluoromethane

Type of Spike : Surrogate - Trip Blank

13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	NA	25	26	ug/L	106
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	NA	25	25	ug/L	101

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 85-115

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Toluene-d8

Type of Spike : Surrogate - Equipment Blank

12-MAY-09	WG-B760-MW13-055	WG302074	WG302074	NA	25	26	ug/L	103
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Number of Spikes = 1

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 81-120

Date Compiled: 09/29/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Field Duplicate

13-MAY-09	WG-B760-MW09-051	WG302166	WG302166	NA	25	26	ug/L	102
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Number of Spikes	=	1	Number Below acceptance =	0
			Number Above acceptance =	0
			Acceptance Criteria =	81-120

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Laboratory Control

12-MAY-09	LCS-302074-02	WG302074	WG302074	NA	25	26	ug/L	102
13-MAY-09	LCS-302166-02	WG302166	WG302166	NA	25	25	ug/L	99
13-MAY-09	LCS2-302166-03	WG302166	WG302166	NA	25	25	ug/L	99
14-MAY-09	LCS-302273-02	WG302273	WG302273	NA	25	26	ug/L	104

Number of Spikes	=	4	Number Below acceptance =	0
			Number Above acceptance =	0
			Acceptance Criteria =	81-120

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Matrix Spike

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	NA	25	26	ug/L	103
12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	NA	25	26	ug/L	103

Number of Spikes	=	2	Number Below acceptance =	0
			Number Above acceptance =	0
			Acceptance Criteria =	81-120

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Method Blank

12-MAY-09	BLANK-302074-01	WG302074	WG302074	NA	25	25	ug/L	102
13-MAY-09	BLANK-302166-01	WG302166	WG302166	NA	25	25	ug/L	101
14-MAY-09	BLANK-302273-01	WG302273	WG302273	NA	25	27	ug/L	106

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Method Blank, cont.

Number of Spikes = 3
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-120

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Normal Sample

12-MAY-09	WG-B760-MW06R-053	WG302074	WG302074	NA	25	26	ug/L	103
12-MAY-09	WG-B760-MW11-050	WG302074	WG302074	NA	25	26	ug/L	102
12-MAY-09	WG-B760-MW13-050	WG302074	WG302074	NA	25	25	ug/L	101
13-MAY-09	WG-B760-MW07R-050	WG302166	WG302166	NA	25	26	ug/L	102
13-MAY-09	WG-B760-MW08R-050	WG302166	WG302166	NA	25	25	ug/L	101
13-MAY-09	WG-B760-MW09-050	WG302166	WG302166	NA	25	26	ug/L	103
13-MAY-09	WG-B760-MW10-050	WG302166	WG302166	NA	25	26	ug/L	104
13-MAY-09	WG-B760-MW12-050	WG302166	WG302166	NA	625	639	ug/L	102
14-MAY-09	WG-B760-MW12-050	WG302273	WG302273	NA	25	27	ug/L	106

Number of Spikes = 9
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-120

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Trip Blank

13-MAY-09	WQ-ST035-MAY0902	WG302166	WG302166	NA	25	26	ug/L	102
14-MAY-09	WQ-ST035-MAY0901	WG302273	WG302273	NA	25	26	ug/L	104

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-120

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result		Duplicate Result	RPD Limit (%)	RPD (%)
Method: SW8011 - Ethylene Dibromide							
Type of Duplicate : Field Duplicate							
1,2-Dibromoethane	WG-B760-MW09-050	WG-B760-MW09-051	0.345		0.414	20	18.18
Method: SW8011 - Ethylene Dibromide							
Type of Duplicate : Matrix Spike Duplicate							
1,2-Dibromoethane	WG-B760-MW06R-053	WG-B760-MW06R-053	0.118		0.117	20	0.851
Method: SW8260B - Volatile Organic Compounds							
Type of Duplicate : Field Duplicate							
1,1,1,2-Tetrachloroethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20 NC
1,1,1-Trichloroethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20 NC
1,1,2,2-Tetrachloroethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.125	(U)	< 0.125	(U)	20 NC
1,1,2-Trichloroethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20 NC
1,1-Dichloroethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.125	(U)	< 0.125	(U)	20 NC
1,1-Dichloroethene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.500	(U)	< 0.500	(U)	20 NC
1,1-Dichloropropene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20 NC
1,2,3-Trichlorobenzene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.150	(U)	< 0.150	(U)	20 NC
1,2,3-Trichloropropane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.500	(U)	< 0.500	(U)	20 NC
1,2,4-Trichlorobenzene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.200	(U)	< 0.200	(U)	20 NC
1,2,4-Trimethylbenzene	WG-B760-MW09-050	WG-B760-MW09-051	36.80		39.90		20 8.08
1,2-Dibromo-3-chloropropane	WG-B760-MW09-050	WG-B760-MW09-051	< 1.00	(U)	< 1.00	(U)	20 NC
1,2-Dibromoethane	WG-B760-MW09-050	WG-B760-MW09-051	0.262	(F)	0.269	(F)	20 2.64 *
1,2-Dichlorobenzene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.125	(U)	< 0.125	(U)	20 NC
1,2-Dichloroethane	WG-B760-MW09-050	WG-B760-MW09-051	16.50	(MH)	17.40	(MH)	20 5.31
1,2-Dichloropropane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.200	(U)	< 0.200	(U)	20 NC
1,3,5-Trimethylbenzene	WG-B760-MW09-050	WG-B760-MW09-051	12.00		13.60		20 12.50
1,3-Dichlorobenzene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20 NC
1,3-Dichloropropane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.200	(U)	< 0.200	(U)	20 NC
1,4-Dichlorobenzene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.125	(U)	< 0.125	(U)	20 NC
1-Chlorohexane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.125	(U)	< 0.125	(U)	20 NC
2,2-Dichloropropane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20 NC

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result		Duplicate Result		RPD Limit (%)	RPD (%)
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2-Butanone(MEK)	WG-B760-MW09-050	WG-B760-MW09-051	< 2.50	(U)	< 2.50	(U)	20	NC
2-Chlorotoluene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.125	(U)	< 0.125	(U)	20	NC
4-Chlorotoluene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
Acetone	WG-B760-MW09-050	WG-B760-MW09-051	< 2.50	(U)	< 2.50	(U)	20	NC
Benzene	WG-B760-MW09-050	WG-B760-MW09-051	169		182		20	7.41
Bromobenzene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.125	(U)	< 0.125	(U)	20	NC
Bromochloromethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.200	(U)	< 0.200	(U)	20	NC
Bromodichloromethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
Bromoform	WG-B760-MW09-050	WG-B760-MW09-051	< 0.500	(U)	< 0.500	(U)	20	NC
Bromomethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.500	(U)	< 0.500	(U)	20	NC
Carbon tetrachloride	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
Chlorobenzene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.125	(U)	< 0.125	(U)	20	NC
Chloroethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.500	(U)	< 0.500	(U)	20	NC
Chloroform	WG-B760-MW09-050	WG-B760-MW09-051	< 0.125	(U)	< 0.125	(U)	20	NC
Chloromethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
Dibromochloromethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
Dibromomethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
Dichlorodifluoromethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
Ethylbenzene	WG-B760-MW09-050	WG-B760-MW09-051	4.30		4.80		20	10.99
Hexachlorobutadiene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
Isopropylbenzene	WG-B760-MW09-050	WG-B760-MW09-051	0.479	(F)	0.519	(F)	20	8.02 *
Methyl isobutyl ketone (MIBK)	WG-B760-MW09-050	WG-B760-MW09-051	< 2.50	(U)	< 2.50	(U)	20	NC
Methyl t-butyl ether	WG-B760-MW09-050	WG-B760-MW09-051	22.70	(MH)	25.10	(MH)	20	10.04
Methylene chloride	WG-B760-MW09-050	WG-B760-MW09-051	1.05		1.07		20	1.89
Naphthalene	WG-B760-MW09-050	WG-B760-MW09-051	1.18	(FB)	1.26		20	6.56
Styrene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.125	(U)	< 0.125	(U)	20	NC
Tert-Butyl alcohol	WG-B760-MW09-050	WG-B760-MW09-051	< 50.00	(U)	< 50.00	(U)	20	NC
Tetrachloroethene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
Toluene	WG-B760-MW09-050	WG-B760-MW09-051	11.90		12.50		20	4.92
Trichloroethene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
Trichlorofluoromethane	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
Vinyl chloride	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
cis-1,2-Dichloroethene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC
cis-1,3-Dichloropropene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	(U)	20	NC

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result		Duplicate Result	RPD Limit (%)	RPD (%)
m&p-Xylene	WG-B760-MW09-050	WG-B760-MW09-051	78.00		82.00	20	5.00
n-Butylbenzene	WG-B760-MW09-050	WG-B760-MW09-051	0.943	(F)	1.03	20	8.82
n-Propylbenzene	WG-B760-MW09-050	WG-B760-MW09-051	0.629	(F)	0.709	20	11.96 *
o-Xylene	WG-B760-MW09-050	WG-B760-MW09-051	22.50		24.00	20	6.45
p-Isopropyltoluene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	20	NC
sec-Butylbenzene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	20	NC
tert-Butylbenzene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	20	NC
trans-1,2-Dichloroethene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.250	(U)	< 0.250	20	NC
trans-1,3-Dichloropropene	WG-B760-MW09-050	WG-B760-MW09-051	< 0.500	(U)	< 0.500	20	NC

Method: SW8260B - Volatile Organic Compounds

Type of Duplicate : Laboratory Control Duplicate

1,1,1,2-Tetrachloroethane	LCS-302166-02	LCS2-302166-03	17.40		18.20	20	4.49
1,1,1-Trichloroethane	LCS-302166-02	LCS2-302166-03	18.70		19.80	20	5.71
1,1,2,2-Tetrachloroethane	LCS-302166-02	LCS2-302166-03	18.40		18.60	20	1.08
1,1,2-Trichloroethane	LCS-302166-02	LCS2-302166-03	18.80		19.10	20	1.58
1,1-Dichloroethane	LCS-302166-02	LCS2-302166-03	19.20		20.20	20	5.08
1,1-Dichloroethene	LCS-302166-02	LCS2-302166-03	18.80		20.20	20	7.18
1,1-Dichloropropene	LCS-302166-02	LCS2-302166-03	19.60		21.00	20	6.90
1,2,3-Trichlorobenzene	LCS-302166-02	LCS2-302166-03	16.70		17.30	20	3.53
1,2,3-Trichloropropane	LCS-302166-02	LCS2-302166-03	18.00		18.80	20	4.35
1,2,4-Trichlorobenzene	LCS-302166-02	LCS2-302166-03	16.40		17.10	20	4.18
1,2,4-Trimethylbenzene	LCS-302166-02	LCS2-302166-03	18.00		19.20	20	6.45
1,2-Dibromo-3-chloropropane	LCS-302166-02	LCS2-302166-03	16.50		17.50	20	5.88
1,2-Dibromoethane	LCS-302166-02	LCS2-302166-03	18.20		18.60	20	2.17
1,2-Dichlorobenzene	LCS-302166-02	LCS2-302166-03	17.50		18.30	20	4.47
1,2-Dichloroethane	LCS-302166-02	LCS2-302166-03	19.10		19.70	20	3.09
1,2-Dichloropropane	LCS-302166-02	LCS2-302166-03	19.20		20.10	20	4.58
1,3,5-Trimethylbenzene	LCS-302166-02	LCS2-302166-03	17.60		19.00	20	7.65
1,3-Dichlorobenzene	LCS-302166-02	LCS2-302166-03	17.10		17.90	20	4.57
1,3-Dichloropropane	LCS-302166-02	LCS2-302166-03	18.40		18.60	20	1.08
1,4-Dichlorobenzene	LCS-302166-02	LCS2-302166-03	16.70		17.90	20	6.94
1-Chlorohexane	LCS-302166-02	LCS2-302166-03	18.60		19.80	20	6.25

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result	Duplicate Result	RPD Limit (%)	RPD (%)
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2,2-Dichloropropane	LCS-302166-02	LCS2-302166-03	19.70	20.90	20	5.91
2-Butanone(MEK)	LCS-302166-02	LCS2-302166-03	20.10	19.70	20	2.01
2-Chlorotoluene	LCS-302166-02	LCS2-302166-03	18.30	19.50	20	6.35
4-Chlorotoluene	LCS-302166-02	LCS2-302166-03	17.30	18.20	20	5.07
Acetone	LCS-302166-02	LCS2-302166-03	18.50	18.10	20	2.19
Benzene	LCS-302166-02	LCS2-302166-03	19.10	19.90	20	4.10
Bromobenzene	LCS-302166-02	LCS2-302166-03	18.40	19.10	20	3.73
Bromochloromethane	LCS-302166-02	LCS2-302166-03	18.70	19.50	20	4.19
Bromodichloromethane	LCS-302166-02	LCS2-302166-03	20.10	20.30	20	0.990
Bromoform	LCS-302166-02	LCS2-302166-03	17.00	16.80	20	1.18
Bromomethane	LCS-302166-02	LCS2-302166-03	18.20	18.70	20	2.71
Carbon tetrachloride	LCS-302166-02	LCS2-302166-03	19.20	20.60	20	7.04
Chlorobenzene	LCS-302166-02	LCS2-302166-03	17.40	18.30	20	5.04
Chloroethane	LCS-302166-02	LCS2-302166-03	17.80	19.20	20	7.57
Chloroform	LCS-302166-02	LCS2-302166-03	19.80	20.90	20	5.41
Chloromethane	LCS-302166-02	LCS2-302166-03	16.40	16.90	20	3.00
Dibromochloromethane	LCS-302166-02	LCS2-302166-03	17.90	18.40	20	2.75
Dibromomethane	LCS-302166-02	LCS2-302166-03	19.80	20.30	20	2.49
Dichlorodifluoromethane	LCS-302166-02	LCS2-302166-03	18.90	20.50	20	8.12
Ethylbenzene	LCS-302166-02	LCS2-302166-03	17.60	18.50	20	4.99
Hexachlorobutadiene	LCS-302166-02	LCS2-302166-03	17.60	18.90	20	7.12
Isopropylbenzene	LCS-302166-02	LCS2-302166-03	15.40	16.00	20	3.82
Methyl isobutyl ketone (MIBK)	LCS-302166-02	LCS2-302166-03	18.00	18.70	20	3.81
Methyl t-butyl ether	LCS-302166-02	LCS2-302166-03	20.90	21.20	20	1.43
Methylene chloride	LCS-302166-02	LCS2-302166-03	18.40	18.90	20	2.68
Naphthalene	LCS-302166-02	LCS2-302166-03	16.90	17.20	20	1.76
Styrene	LCS-302166-02	LCS2-302166-03	17.40	18.10	20	3.94
Tert-Butyl alcohol	LCS-302166-02	LCS2-302166-03	167	172	20	2.95
Tetrachloroethene	LCS-302166-02	LCS2-302166-03	17.30	18.30	20	5.62
Toluene	LCS-302166-02	LCS2-302166-03	18.20	19.10	20	4.83
Trichloroethene	LCS-302166-02	LCS2-302166-03	18.40	19.80	20	7.33
Trichlorofluoromethane	LCS-302166-02	LCS2-302166-03	17.00	18.20	20	6.82
Vinyl chloride	LCS-302166-02	LCS2-302166-03	16.40	17.60	20	7.06
cis-1,2-Dichloroethene	LCS-302166-02	LCS2-302166-03	19.60	20.30	20	3.51

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result	Duplicate Result	RPD Limit (%)	RPD (%)
cis-1,3-Dichloropropene	LCS-302166-02	LCS2-302166-03	19.20	19.70	20	2.57
m&p-Xylene	LCS-302166-02	LCS2-302166-03	34.30	35.90	20	4.56
n-Butylbenzene	LCS-302166-02	LCS2-302166-03	17.60	18.90	20	7.12
n-Propylbenzene	LCS-302166-02	LCS2-302166-03	18.10	19.30	20	6.42
o-Xylene	LCS-302166-02	LCS2-302166-03	17.10	18.00	20	5.13
p-Isopropyltoluene	LCS-302166-02	LCS2-302166-03	16.90	18.10	20	6.86
sec-Butylbenzene	LCS-302166-02	LCS2-302166-03	17.60	19.00	20	7.65
tert-Butylbenzene	LCS-302166-02	LCS2-302166-03	17.00	18.40	20	7.91
trans-1,2-Dichloroethene	LCS-302166-02	LCS2-302166-03	19.60	20.80	20	5.94
trans-1,3-Dichloropropene	LCS-302166-02	LCS2-302166-03	17.30	17.40	20	0.576

Method: SW8260B - Volatile Organic Compounds

Type of Duplicate : Matrix Spike Duplicate

1,1,1,2-Tetrachloroethane	WG-B760-MW06R-053	WG-B760-MW06R-053	20.70	21.10	20	1.91
1,1,1-Trichloroethane	WG-B760-MW06R-053	WG-B760-MW06R-053	21.10	21.00	20	0.475
1,1,2,2-Tetrachloroethane	WG-B760-MW06R-053	WG-B760-MW06R-053	19.40	19.40	20	0.00
1,1,2-Trichloroethane	WG-B760-MW06R-053	WG-B760-MW06R-053	19.90	20.60	20	3.46
1,1-Dichloroethane	WG-B760-MW06R-053	WG-B760-MW06R-053	19.50	20.10	20	3.03
1,1-Dichloroethene	WG-B760-MW06R-053	WG-B760-MW06R-053	18.60	18.90	20	1.60
1,1-Dichloropropene	WG-B760-MW06R-053	WG-B760-MW06R-053	20.60	20.90	20	1.45
1,2,3-Trichlorobenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	20.70	20.80	20	0.482
1,2,3-Trichloropropane	WG-B760-MW06R-053	WG-B760-MW06R-053	19.30	19.90	20	3.06
1,2,4-Trichlorobenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	17.70	17.80	20	0.563
1,2,4-Trimethylbenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	26.90	27.40	20	1.84
1,2-Dibromo-3-chloropropane	WG-B760-MW06R-053	WG-B760-MW06R-053	20.40	20.50	20	0.489
1,2-Dibromoethane	WG-B760-MW06R-053	WG-B760-MW06R-053	20.30	20.70	20	1.95
1,2-Dichlorobenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	20.00	20.60	20	2.96
1,2-Dichloroethane	WG-B760-MW06R-053	WG-B760-MW06R-053	30.60	29.90	20	2.31
1,2-Dichloropropane	WG-B760-MW06R-053	WG-B760-MW06R-053	20.30	20.90	20	2.91
1,3,5-Trimethylbenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	24.90	25.40	20	1.99
1,3-Dichlorobenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	19.10	19.80	20	3.60
1,3-Dichloropropane	WG-B760-MW06R-053	WG-B760-MW06R-053	20.20	20.50	20	1.47
1,4-Dichlorobenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	18.40	18.80	20	2.15

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result	Duplicate Result	RPD Limit (%)	RPD (%)
1-Chlorohexane	WG-B760-MW06R-053	WG-B760-MW06R-053	18.60	19.10	20	2.65
2,2-Dichloropropane	WG-B760-MW06R-053	WG-B760-MW06R-053	17.50	17.80	20	1.70
2-Butanone(MEK)	WG-B760-MW06R-053	WG-B760-MW06R-053	88.00	84.10	20	4.53
2-Chlorotoluene	WG-B760-MW06R-053	WG-B760-MW06R-053	20.90	22.20	20	6.03
4-Chlorotoluene	WG-B760-MW06R-053	WG-B760-MW06R-053	20.30	20.50	20	0.980
Acetone	WG-B760-MW06R-053	WG-B760-MW06R-053	28.20	29.20	20	3.48
Benzene	WG-B760-MW06R-053	WG-B760-MW06R-053	104	104	20	0.00
Bromobenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	20.50	21.00	20	2.41
Bromochloromethane	WG-B760-MW06R-053	WG-B760-MW06R-053	20.50	20.70	20	0.971
Bromodichloromethane	WG-B760-MW06R-053	WG-B760-MW06R-053	22.90	22.70	20	0.877
Bromoform	WG-B760-MW06R-053	WG-B760-MW06R-053	17.90	17.70	20	1.12
Bromomethane	WG-B760-MW06R-053	WG-B760-MW06R-053	29.10	27.60	20	5.29
Carbon tetrachloride	WG-B760-MW06R-053	WG-B760-MW06R-053	19.70	19.20	20	2.57
Chlorobenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	18.80	19.50	20	3.66
Chloroethane	WG-B760-MW06R-053	WG-B760-MW06R-053	19.30	19.90	20	3.06
Chloroform	WG-B760-MW06R-053	WG-B760-MW06R-053	21.00	21.20	20	0.948
Chloromethane	WG-B760-MW06R-053	WG-B760-MW06R-053	20.10	20.80	20	3.42
Dibromochloromethane	WG-B760-MW06R-053	WG-B760-MW06R-053	21.80	22.30	20	2.27
Dibromomethane	WG-B760-MW06R-053	WG-B760-MW06R-053	21.20	21.20	20	0.00
Dichlorodifluoromethane	WG-B760-MW06R-053	WG-B760-MW06R-053	22.90	22.50	20	1.76
Ethylbenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	20.80	21.40	20	2.84
Hexachlorobutadiene	WG-B760-MW06R-053	WG-B760-MW06R-053	19.00	19.30	20	1.57
Isopropylbenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	17.60	18.10	20	2.80
Methyl isobutyl ketone (MIBK)	WG-B760-MW06R-053	WG-B760-MW06R-053	19.10	18.70	20	2.12
Methyl t-butyl ether	WG-B760-MW06R-053	WG-B760-MW06R-053	33.10	33.50	20	1.20
Methylene chloride	WG-B760-MW06R-053	WG-B760-MW06R-053	21.60	22.10	20	2.29
Naphthalene	WG-B760-MW06R-053	WG-B760-MW06R-053	17.10	16.80	20	1.77
Styrene	WG-B760-MW06R-053	WG-B760-MW06R-053	17.40	18.00	20	3.39
Tert-Butyl alcohol	WG-B760-MW06R-053	WG-B760-MW06R-053	143	149	20	4.11
Tetrachloroethene	WG-B760-MW06R-053	WG-B760-MW06R-053	19.20	20.00	20	4.08
Toluene	WG-B760-MW06R-053	WG-B760-MW06R-053	21.40	22.40	20	4.57
Trichloroethene	WG-B760-MW06R-053	WG-B760-MW06R-053	20.10	20.60	20	2.46
Trichlorofluoromethane	WG-B760-MW06R-053	WG-B760-MW06R-053	19.50	19.00	20	2.60
Vinyl chloride	WG-B760-MW06R-053	WG-B760-MW06R-053	21.00	20.10	20	4.38

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - May 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result	Duplicate Result	RPD Limit (%)	RPD (%)
-----	-----	-----	-----	-----	-----	-----
cis-1,2-Dichloroethene	WG-B760-MW06R-053	WG-B760-MW06R-053	20.80	21.40	20	2.84
cis-1,3-Dichloropropene	WG-B760-MW06R-053	WG-B760-MW06R-053	18.70	18.90	20	1.06
m&p-Xylene	WG-B760-MW06R-053	WG-B760-MW06R-053	58.00	60.20	20	3.72
n-Butylbenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	19.70	19.90	20	1.01
n-Propylbenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	17.80	18.30	20	2.77
o-Xylene	WG-B760-MW06R-053	WG-B760-MW06R-053	18.90	19.50	20	3.13
p-Isopropyltoluene	WG-B760-MW06R-053	WG-B760-MW06R-053	20.00	20.60	20	2.96
sec-Butylbenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	20.40	21.10	20	3.37
tert-Butylbenzene	WG-B760-MW06R-053	WG-B760-MW06R-053	19.20	19.70	20	2.57
trans-1,2-Dichloroethene	WG-B760-MW06R-053	WG-B760-MW06R-053	19.80	20.40	20	2.99
trans-1,3-Dichloropropene	WG-B760-MW06R-053	WG-B760-MW06R-053	18.30	19.10	20	4.28

Attachment E
Chain-of-Custody Forms

August 2009 Event

Final

Site ST035

**Former Building 760
Data Summary, August 2009 Event**

FORMER WILLIAMS AIR FORCE BASE
MESA, ARIZONA

April 2010

Prepared for:
Air Force Real Property Agency and
Air Force Center for Engineering and the Environment
Base Conversion Directorate

Contract Number: FA8903-08-D-8783
Project Number: YZJU20097104
Task Order: 0058

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Attachments

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- Attachment C - Summary of the QC Results
- Attachment D - Detailed QC Results
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1.0 INTRODUCTION

URS Corporation (URS) has prepared this Data Summary Report for former Williams Air Force Base (AFB) under Delivery Order (DO) 0058, Contract No. FA8903-08-D-8783. This Data Summary Report covers the August 2009 Groundwater Monitoring Event at ST035, Building 760.

This document is divided into four sections. Section 1.0 presents the introduction. Section 2.0 presents the analytical results. Section 3.0 presents a summary of the quality assurance (QA)/quality control (QC) results. Section 4.0 presents the references.

Five attachments are included in this document. Attachment A presents the analytical results. Attachment B presents the cross-reference table and the holding time table. Attachment C presents a summary of the QC results. Attachment D presents the detailed QC results. Attachment E presents copies of the chain-of-custody forms (COC).

During the investigation at former Williams AFB, eight groundwater samples, one field duplicate, one equipment blank (EB), and two trip blanks (TBs) were sampled by URS and analyzed for 1,2-dibromoethane and volatile organic compounds (VOCs). Sample distribution is presented in Table 1-1.

The QC data presented in this report have been evaluated according to the QA objectives in the *Final Basewide Sampling and Analysis Plan (BSAP), Former Williams Air Force Base, Mesa, Arizona* (URS, June 2009). These objectives represent accuracy and precision performance goals for 1,2-dibromoethane and VOC analyses. The results indicate that the data are acceptable and usable for characterizing 1,2-dibromoethane and VOC concentrations in the groundwater at ST035.

The results reported for field parameters were not evaluated. These results are to be used for screening purposes only and are not discussed in this report. However, the results for field parameters are provided in Attachment A.

Table 1-1. Sample Distribution Table

Sample ID	Laboratory ID	Date Sampled	1,2-Dibromoethane SW8011	VOCs SW8260B
WG-B760-MW06R-060	09080133-06	8/5/2009	X	X
WG-B760-MW07R-060	09080133-10	8/5/2009	X	X
WG-B760-MW08R-063	09080133-07	8/5/2009	X	X
WG-B760-MW09-060	09080133-03	8/4/2009	X	X
WG-B760-MW10-060	09080173-02	8/6/2009	X	X
WG-B760-MW11-060	09080133-01	8/4/2009	X	X
WG-B760-MW12-060	09080173-01	8/6/2009	X	X
WG-B760-MW13-060	09080133-04	8/4/2009	X	X
Field Duplicate				
WG-B760-MW11-061	09080133-02	8/4/2009	X	X
Equipment Blank				
WG-B760-MW07R-065	09080133-11	8/5/2009	X	X
Trip Blanks				
WQ-ST035-AUG0901	09080133-05	8/4/2009	X	X
WQ-ST035-AUG0902	09080173-03	8/6/2009	X	X

X - Analyzed by Microbac Laboratories Inc., Marietta, Ohio.
 ID - Identification.
 VOC - Volatile organic compound.

2.0 ANALYTICAL RESULTS

Eight groundwater monitoring wells at ST035 were sampled and analyzed for 1,2-dibromoethane using U.S. Environmental Protection Agency (EPA) Method SW8011 and VOCs using EPA Method SW8260B by Microbac Laboratories Inc. in Marietta, Ohio.

The samples were prepared and analyzed in accordance with the procedures published in SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (EPA, Office of Solid Waste and Emergency Response, December 1996, Revision 3 and subsequent revisions). Sample results are presented in Attachment A.

3.0 SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL ACTIVITIES

The QC data associated with the analysis of samples collected for the ST035, Building 760 August 2009 Groundwater Monitoring Event were reviewed and analyzed to determine if measurements were made according to the specifications of the *BSAP*. Results of calibration samples, blank samples, and sample spikes were compared to the acceptance criteria specified in the *BSAP*. The conclusion of this evaluation is that the results are valid measurements within the acceptance criteria specified in the *BSAP* with the limitations specified in this Data Summary Report, and may be used to characterize 1,2-dibromoethane and VOCs in groundwater.

3.1 Quality Assurance/Quality Control Approach

QC data provide information for identifying and defining qualitative and quantitative limitations associated with measurement data. The following key types of QC samples provide the primary basis for quantitatively evaluating data quality:

- Blanks;
- Standards;
- Spikes; and
- Duplicate samples.

Additionally, samples are evaluated for compliance with established holding times and with prescribed sensitivity requirements (detection limits).

3.1.1 Blank Samples

Blanks are QC samples designed to detect the introduction of contamination or other artifacts into the sampling and analytical processes. This is an especially important role in measurement programs involving trace-level analyses.

Method Blanks – Method blanks (MBs) are aliquots of an analyte-free water or solid matrix that are processed through the entire preparation and analytical measurement techniques, in the same manner as investigative field samples, and provide an indication of systematic contamination, which may have been introduced by the preparation of measurement systems. When evidence of contamination is indicated by blank values above pre-established levels, corrective action is initiated to identify and eliminate the source of contamination.

Initial Calibration Blanks/Continuing Calibration Blanks – Initial calibration blanks (ICBs) and continuing calibration blanks (CCBs) are analyte-free water that are analyzed at the beginning of an analytical run and every ten samples. When evidence of contamination is indicated by blank values above pre-established levels, corrective action is initiated to identify and eliminate the source of contamination.

Equipment Blanks – EB samples are collected by pouring reagent-grade water over decontaminated field equipment. EBs provide information regarding both field and laboratory

contamination, but are not used to "control" either the sampling or the analytical processes. Results from EBs are compared to field concentrations to identify possible cross-contamination.

Trip Blanks – TB samples are collected by filling volatile organic analysis (VOA) vials in the laboratory with organic-free water and shipping them to the field. They accompany the VOC samples from the time of collection through analyses in the laboratory. TBs are used to assess the potential introduction of contaminants from sample containers or during transportation and storage. TBs will be collected at a frequency of one per shipping container of VOC samples. The blank data for this project were evaluated using the five-times rule or ten-times for common laboratory analytes, which requires that the concentration detected in the blank sample be multiplied by a factor of five or ten. If five or ten times the concentration detected in the blank exceeds the concentration in the sample, then the result is flagged with a “B” and considered to be similar to blank concentration.

3.1.2 Standards

Three types of standards were included in this program. These were initial calibrations (ICALs), second-source calibration verification (SSCV) standards, and calibration verification standards.

Initial Calibration – ICALs are performed as required for each analytical method, using a range of calibration standards containing all analytes with the lowest standard used to define the reporting limit (RL) for each analyte. These standards are used to determine the calibration range of the instrument.

Second-Source Calibration Verification Standard – A SSCV standard containing all of the analytes is analyzed immediately following an ICAL. This standard is from a different source than the standard used in the ICAL. The SSCV verifies that the ICAL is valid.

Initial Calibration Verification Standards/Continuing Calibration Standards – Initial calibration verification (ICV) and continuing calibration verification (CCV) standards containing all of the analytes are analyzed daily to demonstrate acceptable performance of the analytical system. If the ICVs or CCVs do not meet the acceptance criteria, corrective action is required before samples are analyzed.

3.1.3 Spike Samples

Four types of spiked sample analyses were included in this program. These were surrogates, internal standards (ISs), laboratory control samples (LCSs), and matrix spikes (MSs). Results of spike analyses were used to estimate measurement accuracy.

Surrogate Spikes – All samples are spiked with one or more surrogate compounds, which are chemically similar to the analytes of interest, but are not expected to be present in the actual field samples. Recovery of these surrogate compounds gives an estimate of the effectiveness of the extraction and analysis for that single sample.

Internal Standards – ISs are measured amounts of certain compounds added after preparation or extraction of sample. They are used in an IS calibration method to correct sample results

affected by column injection losses, purging losses, or viscosity effects. ISs shall be added to environmental samples, controls, and blanks, in accordance with the method requirements.

Laboratory Control Samples – LCSs are used to assess analytical performance under a given set of standard conditions. These are samples prepared in an analyte-free water or solid matrix containing all of the analytes of interest spiked at known concentrations from standards that are different than the ones used for ICALs. Typically analyzed with each analytical batch, LCSs may be used to estimate analytical bias and accuracy by comparing measured results to theoretical concentrations. Although matrix effects are not addressed as with MSs and surrogates, LCSs allow batch-to-batch variability to be considered and are useful in identifying trends.

Matrix Spikes – MSs are field samples to which known concentrations of the analytes of interest have been added. Usually expressed as a percentage of the spiked amount, spike recovery can be considered an indication of measurement accuracy and extraction efficiency in the actual sample matrix.

3.1.4 Duplicate Samples

Duplicate samples are designed to provide estimates of precision. Precision is a measure of agreement between two measurements made under similar conditions. Results are presented in the following sections for the analysis of duplicate field samples, laboratory control sample duplicates (LCSDs), and matrix spike duplicates (MSDs).

Duplicate Field Samples – Duplicate field samples are used as indicators of measurement data precision. The analysis of duplicate samples involves replicating sample collection (and the associated sample handling activities), as well as the sample preparation and analysis. Precision estimates based on duplicate sample results incorporate both sampling and analytical variability, and may be affected by sample heterogeneity (for very turbid samples).

Duplicate Laboratory Spike Samples – LCSD samples are used as indicators of overall measurement data precision. The analysis of LCSD samples involves spiking a known amount of concentrations into two fractions of a clean matrix, preparing, and analyzing with the field samples. Precision estimates based on LCSD sample results incorporate preparation and analytical variability.

Duplicate Matrix Spike Samples – MSD samples are used as indicators of overall measurement data precision. The collection and analysis of MSD samples involves collecting three fractions of the same sample, spiking two of the three fractions, preparing, and analyzing the samples. Precision estimates based on MSD sample results incorporate both sampling and analytical variability, and may be affected by sample heterogeneity (for very turbid samples).

3.1.5 Holding Times and Sample Preservation

Maximum holding times and sample preservation techniques have been established by the EPA for each method to prevent possible change in concentration of analytes of interest over time. For example, analytes of interest may be lost because of biological degradation. Adherence to

holding time and preservation requirements is reviewed while analytical measurement data are qualitatively evaluated.

3.1.6 Dual Column Confirmation

The confirmation columns confirm the identity and concentration of the compound of interest. If the compound is found on both columns the identity is considered confirmed; however, if the concentration differs by more than a relative percent difference (RPD) of 40% then the concentration is considered estimated and the result is qualified with a “J”.

3.1.7 Data Flagging

The data were reviewed in accordance with the *BSAP* and data flags were assigned in accordance with the *BSAP*.

Concentrations that were below the method detection limits (MDLs) and RLs were qualified with “F” as estimated and are not discussed in this report.

3.2 1, 2-Dibromoethane by SW8011

Eight groundwater samples, one field duplicate, one EB, and two TBs were collected and analyzed for 1,2-dibromoethane by EPA Method SW8011. Holding times, sample preservation, dual column confirmation, calibrations, blanks, spikes, and duplicates were evaluated. All QC tests except spikes were acceptable. Spikes are discussed below.

Spikes

Three types of spikes were analyzed: LCSs, surrogates, and MSs.

Two LCSs were analyzed for 1,2-dibromoethane with the samples. All LCS recoveries were within acceptance criteria.

One surrogate was spiked into every field and QC samples. 1,2-Dibromopropane was recovered above acceptance in the MS/MSD pair. These are QC samples; therefore, no qualifications were made.

One MS/MSD pair was analyzed in association with the samples. The MSD recovery was above acceptance criteria for 1,2-dibromoethane. Detected results for 1,2-dibromoethane were qualified with “MH” as estimated/biased high.

Sample results qualified due to MS recoveries are presented in Table 3.2-1.

Completeness

All of the 1,2-dibromoethane data are usable; therefore, the 95% completeness objective for groundwater samples was met.

Table 3.2-1. 1,2-Dibromoethane Sample Results Qualified Due to Matrix Spike Recoveries

Sample ID	Compound	Result (µg/L)	Qualifier	Reason
WG-B760-MW09-060	1,2-Dibromoethane	0.148	MH	MSD > UCL
WG-B760-MW10-060		0.0488		

µg/L - Micrograms per liter.

H - Biased high.

ID - Identification.

M - Estimated due to matrix spike (MS).

MSD - Matrix spike duplicate.

UCL - Upper control limit.

3.3 Volatile Organic Compounds by SW8260B

Eight groundwater samples, one field duplicate, one EB, and two TBs were collected and analyzed for VOCs by EPA Method SW8260B. Holding times, sample preservation, calibrations, blanks, spikes, and duplicates were evaluated. All QC tests except calibrations, blanks, and spikes were acceptable. Calibrations, blanks, and spikes are discussed below.

Calibrations

All ICALs, SSCVs, and CCVs were acceptable.

ICV recoveries were within acceptance criteria for all compounds except dichlorodifluoromethane. Dichlorodifluoromethane was recovered high in the ICV analyzed on 26 June 2009 and 30 July 2009. Dichlorodifluoromethane was not detected in the associated samples; therefore, no qualifications were made.

Blanks

Three types of blanks were analyzed: MBs, TBs, and EB.

Five MBs were analyzed for VOCs with the samples. Methylene chloride was detected in three MBs and 1,2,3-trichlorobenzene, hexachlorobutadiene, and methylene chloride were detected in another MB. All concentrations were above the MDLs but below the RLs.

1,2,3-Trichlorobenzene and hexachlorobutadiene were not detected in the associated samples; therefore, no qualifications were made. Detected results for methylene chloride in associated samples within ten times the MB concentrations were qualified with "B" as similar to the blank.

Two TBs were analyzed for VOCs with the samples. Methylene chloride was detected in both TBs above the MDLs but below the RLs. Detected results in associated samples for methylene chloride were within ten times the MB concentrations. These methylene chloride results were already qualified due to MB concentrations; therefore, no qualifications were made due to TB concentrations.

One EB was analyzed for VOCs with the samples. Methylene chloride was detected in the EB above the MDLs but below the RLs. Methylene chloride was not detected in the associated sample; therefore, no qualifications were made due to the EB concentration.

Sample results qualified due to MBs are presented in Table 3.3-1.

Spikes

Four types of spikes were analyzed: ISs, surrogates, LCSs, and MSs.

Three ISs and four surrogates were spiked into every field and QC sample. All recoveries were within acceptance criteria.

Four LCSs were analyzed for VOCs with the samples. Most LCS recoveries were within acceptance criteria. Dichlorodifluoromethane was recovered above acceptance criteria in one LCS. This compound was not detected in the associated samples; therefore, no qualifications were made due to LCS/LCSD recoveries.

One MS/MSD pair was analyzed in association with the samples. The MS/MSD RPD was above acceptance criteria for acetone. All results for acetone were qualified with “M” for detects and “UM” for non-detects as estimated.

Sample results qualified due to MS recoveries are presented in Table 3.3-2.

Completeness

All of the VOC data are usable; therefore, the 95% completeness objective for groundwater samples was met.

Table 3.3-1. VOC Sample Results Qualified Due to Method Blanks

Sample ID	Compound	Result (µg/L)	Qualifier	Reason
WG-B760-MW09-060	Methylene chloride	0.368	B	Detected within ten times the MB
WG-B760-MW12-060		0.270		

µg/L - Micrograms per liter.
 B - Similar to blank.
 ID - Identification.
 MB - Method blank.

Table 3.3-2. VOC Sample Results Qualified Due to Matrix Spike Recoveries

Sample ID	Compound	Result (µg/L)	Qualifier	Reason
WG-B760-MW06R-060	Acetone	ND	UM	MS/MSD RPD > CL
WG-B760-MW07R-060				
WG-B760-MW08R-063				
WG-B760-MW09-060		19.2	M	
WG-B760-MW10-060				
WG-B760-MW11-060		ND	UM	
WG-B760-MW11-061				
WG-B760-MW12-060				
WG-B760-MW13-060				

µg/L - Micrograms per liter.

CL - Control limit.

ID - Identification.

M - Estimated due to matrix spike (MS).

MSD - Matrix spike duplicate.

ND - Not detected.

RPD - Relative percent difference.

UM - Not detected/estimated due to MS.

4.0 REFERENCES

U.S. Environmental Protection Agency (EPA), December 1996. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*. Office of Solid Waste and Emergency Response, December 1996, Revision 3 and subsequent revisions.

URS Corporation (URS), June 2009. *Final Basewide Sampling and Analysis Plan, Former Williams Air Force Base, Mesa, Arizona*. Austin, TX.

Attachment A
Analytical Results

Attachment A Table of Contents

Table A-1	Results of Organic Analyses for Water Samples, Williams AFB Groundwater Monitoring - ST035 - August 2009
Table A-2	Results of Field Analyses for Water Samples, Williams AFB Groundwater Monitoring - ST035 - August 2009

PARAMETER	SITE ID									
	B760 B760-MW06R WG-B760-MW06R-060 05-AUG-09		B760 B760-MW07R WG-B760-MW07R-060 05-AUG-09		B760 B760-MW08R WG-B760-MW08R-063 05-AUG-09		B760 B760-MW09 WG-B760-MW09-060 04-AUG-09			
SW8011 - Ethylene Dibromide (ug/L)										
1,2-Dibromoethane	ND	U (0.00706) [1]	ND	U (0.00651) [1]	ND	U (0.00659) [1]	0.148	MH (0.00656) [1]		
SW8260B - Volatile Organic Compounds (ug/L)										
1,1,1,2-Tetrachloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]		
1,1,1-Trichloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]		
1,1,2,2-Tetrachloroethane	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]		
1,1,2-Trichloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]		
1,1-Dichloroethane	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]		
1,1-Dichloroethene	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]		
1,1-Dichloropropene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]		
1,2,3-Trichlorobenzene	ND	U (0.150) [1]	ND	U (0.150) [1]	ND	U (0.150) [1]	ND	U (0.150) [1]		
1,2,3-Trichloropropane	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]		
1,2,4-Trichlorobenzene	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]		
1,2,4-Trimethylbenzene	2.62	(0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	8.53	(0.250) [1]		
1,2-Dibromo-3-chloropropane	ND	U (1.00) [1]	ND	U (1.00) [1]	ND	U (1.00) [1]	ND	U (1.00) [1]		
1,2-Dibromoethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]		
1,2-Dichlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]		
1,2-Dichloroethane	9.37	(0.250) [1]	48.5	(0.250) [1]	9.00	(0.250) [1]	8.20	(0.250) [1]		
1,2-Dichloropropane	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]		
1,3,5-Trimethylbenzene	2.13	(0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	3.30	(0.250) [1]		
1,3-Dichlorobenzene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]		
1,3-Dichloropropane	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]		
1,4-Dichlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]		
1-Chlorohexane	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]		

PARAMETER	SITE ID			
	LOCATION ID		SAMPLE ID	
	DATE SAMPLED		DATE SAMPLED	
	B760	B760	B760	B760
	B760-MW06R	B760-MW07R	B760-MW08R	B760-MW09
	WG-B760-MW06R-060	WG-B760-MW07R-060	WG-B760-MW08R-063	WG-B760-MW09-060
	05-AUG-09	05-AUG-09	05-AUG-09	04-AUG-09
SW8260B - Volatile Organic Compounds, cont. (ug/L)				
2,2-Dichloropropane	ND	U (0.250) [1]	ND	U (0.250) [1]
2-Butanone(MEK)	ND	U (2.50) [1]	ND	F (2.50) [1]
2-Chlorotoluene	ND	U (0.125) [1]	ND	U (0.125) [1]
4-Chlorotoluene	ND	U (0.250) [1]	ND	U (0.250) [1]
Acetone	ND	UM (2.50) [1]	ND	UM (2.50) [1]
Benzene	283	(0.625) [5]	1.34	(0.125) [1]
Bromobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]
Bromochloromethane	ND	U (0.200) [1]	ND	U (0.200) [1]
Bromodichloromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Bromoform	ND	U (0.500) [1]	ND	U (0.500) [1]
Bromomethane	ND	U (0.500) [1]	ND	U (0.500) [1]
Carbon tetrachloride	ND	U (0.250) [1]	ND	U (0.250) [1]
Chlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]
Chloroethane	ND	U (0.500) [1]	ND	U (0.500) [1]
Chloroform	ND	U (0.125) [1]	ND	U (0.125) [1]
Chloromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Dibromochloromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Dibromomethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Dichlorodifluoromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Ethylbenzene	3.19	(0.250) [1]	ND	U (0.250) [1]
Hexachlorobutadiene	ND	U (0.250) [1]	ND	U (0.250) [1]
Isopropylbenzene	0.992	F (0.250) [1]	0.754	F (0.250) [1]
Methyl isobutyl ketone (MIBK)	ND	U (2.50) [1]	ND	U (2.50) [1]
Methyl t-butyl ether	ND	U (0.500) [1]	84.7	(0.500) [1]

PARAMETER	SITE ID			
	LOCATION ID			
	SAMPLE ID			
	DATE SAMPLED			
	B760	B760	B760	B760
	B760-MW06R	B760-MW07R	B760-MW08R	B760-MW09
	WG-B760-MW06R-060	WG-B760-MW07R-060	WG-B760-MW08R-063	WG-B760-MW09-060
	05-AUG-09	05-AUG-09	05-AUG-09	04-AUG-09
SW8260B - Volatile Organic Compounds, cont. (ug/L)				
Methylene chloride	ND	U (0.250) [1]	ND	U (0.250) [1]
Naphthalene	ND	U (0.200) [1]	ND	U (0.200) [1]
Styrene	ND	U (0.125) [1]	ND	U (0.125) [1]
Tert-Butyl alcohol	77.1	F (50.0) [1]	104	(50.0) [1]
Tetrachloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]
Toluene	0.822	F (0.250) [1]	ND	U (0.250) [1]
Trichloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]
Trichlorofluoromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Vinyl chloride	ND	U (0.250) [1]	ND	U (0.250) [1]
cis-1,2-Dichloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]
cis-1,3-Dichloropropene	ND	U (0.250) [1]	ND	U (0.250) [1]
m&p-Xylene	10.3	(0.500) [1]	0.648	F (0.500) [1]
n-Butylbenzene	ND	U (0.250) [1]	ND	U (0.250) [1]
n-Propylbenzene	0.307	F (0.125) [1]	0.164	F (0.125) [1]
o-Xylene	0.327	F (0.250) [1]	ND	U (0.250) [1]
p-Isopropyltoluene	ND	U (0.250) [1]	ND	U (0.250) [1]
sec-Butylbenzene	0.259	F (0.250) [1]	1.01	(0.250) [1]
tert-Butylbenzene	ND	U (0.250) [1]	ND	U (0.250) [1]
trans-1,2-Dichloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]
trans-1,3-Dichloropropene	ND	U (0.500) [1]	ND	U (0.500) [1]

PARAMETER	SITE ID								
	B760 B760-MW10 WG-B760-MW10-060 06-AUG-09		B760 B760-MW11 WG-B760-MW11-060 04-AUG-09		B760 B760-MW11 WG-B760-MW11-061 Dup of WG-B760-MW11-060 04-AUG-09		B760 B760-MW12 WG-B760-MW12-060 06-AUG-09		
SW8011 - Ethylene Dibromide (ug/L)									
1,2-Dibromoethane	0.0488	MH (0.00657) [1]	ND	U (0.00680) [1]	ND	U (0.00665) [1]	ND	U (0.00665) [1]	
SW8260B - Volatile Organic Compounds (ug/L)									
1,1,1,2-Tetrachloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	
1,1,1-Trichloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	
1,1,2,2-Tetrachloroethane	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	
1,1,2-Trichloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	
1,1-Dichloroethane	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	
1,1-Dichloroethene	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]	
1,1-Dichloropropene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	
1,2,3-Trichlorobenzene	ND	U (0.150) [1]	ND	U (0.150) [1]	ND	U (0.150) [1]	ND	U (0.150) [1]	
1,2,3-Trichloropropane	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]	
1,2,4-Trichlorobenzene	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	
1,2,4-Trimethylbenzene	0.581	F (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	
1,2-Dibromo-3-chloropropane	ND	U (1.00) [1]	ND	U (1.00) [1]	ND	U (1.00) [1]	ND	U (1.00) [1]	
1,2-Dibromoethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	
1,2-Dichlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	
1,2-Dichloroethane	10.4	(0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	103	(0.250) [1]	
1,2-Dichloropropane	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	
1,3,5-Trimethylbenzene	7.74	(0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	
1,3-Dichlorobenzene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	
1,3-Dichloropropane	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	
1,4-Dichlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	
1-Chlorohexane	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	

PARAMETER	SITE ID			
	LOCATION ID		DATE SAMPLED	
	B760 B760-MW10 WG-B760-MW10-060	B760 B760-MW11 WG-B760-MW11-060	B760 B760-MW11 WG-B760-MW11-061 Dup of WG-B760-MW11-060	B760 B760-MW12 WG-B760-MW12-060
	06-AUG-09	04-AUG-09	04-AUG-09	06-AUG-09
SW8260B - Volatile Organic Compounds, cont. (ug/L)				
2,2-Dichloropropane	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]
2-Butanone(MEK)	15.0 (2.50) [1]	ND U (2.50) [1]	ND U (2.50) [1]	ND U (2.50) [1]
2-Chlorotoluene	ND U (0.125) [1]	ND U (0.125) [1]	ND U (0.125) [1]	ND U (0.125) [1]
4-Chlorotoluene	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]
Acetone	19.2 M (2.50) [1]	ND UM (2.50) [1]	ND UM (2.50) [1]	ND UM (2.50) [1]
Benzene	23.0 (0.125) [1]	4.30 (0.125) [1]	4.39 (0.125) [1]	4.78 (0.125) [1]
Bromobenzene	ND U (0.125) [1]	ND U (0.125) [1]	ND U (0.125) [1]	ND U (0.125) [1]
Bromochloromethane	ND U (0.200) [1]	ND U (0.200) [1]	ND U (0.200) [1]	ND U (0.200) [1]
Bromodichloromethane	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]
Bromoform	ND U (0.500) [1]	ND U (0.500) [1]	ND U (0.500) [1]	ND U (0.500) [1]
Bromomethane	ND U (0.500) [1]	ND U (0.500) [1]	ND U (0.500) [1]	ND U (0.500) [1]
Carbon tetrachloride	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]
Chlorobenzene	ND U (0.125) [1]	ND U (0.125) [1]	ND U (0.125) [1]	ND U (0.125) [1]
Chloroethane	ND U (0.500) [1]	ND U (0.500) [1]	ND U (0.500) [1]	ND U (0.500) [1]
Chloroform	ND U (0.125) [1]	ND U (0.125) [1]	ND U (0.125) [1]	ND U (0.125) [1]
Chloromethane	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]
Dibromochloromethane	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]
Dibromomethane	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]
Dichlorodifluoromethane	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]
Ethylbenzene	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]	23.2 (0.250) [1]
Hexachlorobutadiene	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]
Isopropylbenzene	4.31 (0.250) [1]	ND U (0.250) [1]	ND U (0.250) [1]	2.11 (0.250) [1]
Methyl isobutyl ketone (MIBK)	ND U (2.50) [1]	ND U (2.50) [1]	ND U (2.50) [1]	ND U (2.50) [1]
Methyl t-butyl ether	15.0 (0.500) [1]	ND U (0.500) [1]	ND U (0.500) [1]	175 (0.500) [1]

PARAMETER	B760				B760				B760				B760			
	B760-MW10				B760-MW11				B760-MW11				B760-MW12			
	WG-B760-MW10-060				WG-B760-MW11-060				WG-B760-MW11-061 Dup of WG-B760-MW11-060				WG-B760-MW12-060			
	06-AUG-09				04-AUG-09				04-AUG-09				06-AUG-09			
	CONC	U/L	DF	REMARKS	CONC	U/L	DF	REMARKS	CONC	U/L	DF	REMARKS	CONC	U/L	DF	REMARKS
SW8260B - Volatile Organic Compounds, cont. (ug/L)																
Methylene chloride	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	0.270	FB	(0.250)	[1]
Naphthalene	ND	U	(0.200)	[1]	ND	U	(0.200)	[1]	ND	U	(0.200)	[1]	ND	U	(0.200)	[1]
Styrene	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]	ND	U	(0.125)	[1]
Tert-Butyl alcohol	ND	U	(50.0)	[1]	ND	U	(50.0)	[1]	ND	U	(50.0)	[1]	76.1	F	(50.0)	[1]
Tetrachloroethene	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]
Toluene	0.333	F	(0.250)	[1]	0.681	F	(0.250)	[1]	0.697	F	(0.250)	[1]	0.542	F	(0.250)	[1]
Trichloroethene	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]
Trichlorofluoromethane	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]
Vinyl chloride	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]
cis-1,2-Dichloroethene	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]
cis-1,3-Dichloropropene	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]
m&p-Xylene	1.31	F	(0.500)	[1]	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]	0.713	F	(0.500)	[1]
n-Butylbenzene	2.10		(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	0.502	F	(0.250)	[1]
n-Propylbenzene	1.11		(0.125)	[1]	0.152	F	(0.125)	[1]	0.159	F	(0.125)	[1]	2.32		(0.125)	[1]
o-Xylene	0.551	F	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]
p-Isopropyl toluene	0.546	F	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]
sec-Butylbenzene	0.771	F	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	1.06		(0.250)	[1]
tert-Butylbenzene	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]
trans-1,2-Dichloroethene	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]	ND	U	(0.250)	[1]
trans-1,3-Dichloropropene	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]	ND	U	(0.500)	[1]

	SITE ID			
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	SAMPLE ID			
	DATE SAMPLED			
	B760			
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	WG-B760-MW13-060			
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PARAMETER				

SW8011 - Ethylene Dibromide (ug/L)				
1,2-Dibromoethane	ND	U	(0.00675)	[1]
SW8260B - Volatile Organic Compounds (ug/L)				
1,1,1,2-Tetrachloroethane	ND	U	(0.250)	[1]
1,1,1-Trichloroethane	ND	U	(0.250)	[1]
1,1,2,2-Tetrachloroethane	ND	U	(0.125)	[1]
1,1,2-Trichloroethane	ND	U	(0.250)	[1]
1,1-Dichloroethane	ND	U	(0.125)	[1]
1,1-Dichloroethene	ND	U	(0.500)	[1]
1,1-Dichloropropene	ND	U	(0.250)	[1]
1,2,3-Trichlorobenzene	ND	U	(0.150)	[1]
1,2,3-Trichloropropane	ND	U	(0.500)	[1]
1,2,4-Trichlorobenzene	ND	U	(0.200)	[1]
1,2,4-Trimethylbenzene	ND	U	(0.250)	[1]
1,2-Dibromo-3-chloropropane	ND	U	(1.00)	[1]
1,2-Dibromoethane	ND	U	(0.250)	[1]
1,2-Dichlorobenzene	ND	U	(0.125)	[1]
1,2-Dichloroethane	ND	U	(0.250)	[1]
1,2-Dichloropropane	ND	U	(0.200)	[1]
1,3,5-Trimethylbenzene	0.510	F	(0.250)	[1]
1,3-Dichlorobenzene	ND	U	(0.250)	[1]
1,3-Dichloropropane	ND	U	(0.200)	[1]
1,4-Dichlorobenzene	ND	U	(0.125)	[1]
1-Chlorohexane	ND	U	(0.125)	[1]

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PARAMETER

SW8260B - Volatile Organic Compounds, cont. (ug/L)

PARAMETER	CONCENTRATION	UNIT	DETECTION LIMIT	DILUTION FACTOR
2,2-Dichloropropane	ND	U	0.250	[1]
2-Butanone(MEK)	ND	U	2.50	[1]
2-Chlorotoluene	ND	U	0.125	[1]
4-Chlorotoluene	ND	U	0.250	[1]
Acetone	ND	UM	2.50	[1]
Benzene	5.73		0.125	[1]
Bromobenzene	ND	U	0.125	[1]
Bromochloromethane	ND	U	0.200	[1]
Bromodichloromethane	ND	U	0.250	[1]
Bromoform	ND	U	0.500	[1]
Bromomethane	ND	U	0.500	[1]
Carbon tetrachloride	ND	U	0.250	[1]
Chlorobenzene	ND	U	0.125	[1]
Chloroethane	ND	U	0.500	[1]
Chloroform	ND	U	0.125	[1]
Chloromethane	ND	U	0.250	[1]
Dibromochloromethane	ND	U	0.250	[1]
Dibromomethane	ND	U	0.250	[1]
Dichlorodifluoromethane	ND	U	0.250	[1]
Ethylbenzene	ND	U	0.250	[1]
Hexachlorobutadiene	ND	U	0.250	[1]
Isopropylbenzene	3.64		0.250	[1]
Methyl isobutyl ketone (MIBK)	ND	U	2.50	[1]
Methyl t-butyl ether	ND	U	0.500	[1]

SITE ID
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PARAMETER

SW8260B - Volatile Organic Compounds, cont. (ug/L)

PARAMETER	CONCENTRATION	UNIT	DETECTION LIMIT	DILUTION FACTOR
Methylene chloride	ND	U	0.250	[1]
Naphthalene	ND	U	0.200	[1]
Styrene	ND	U	0.125	[1]
Tert-Butyl alcohol	79.6	F	50.0	[1]
Tetrachloroethene	ND	U	0.250	[1]
Toluene	ND	U	0.250	[1]
Trichloroethene	ND	U	0.250	[1]
Trichlorofluoromethane	ND	U	0.250	[1]
Vinyl chloride	ND	U	0.250	[1]
cis-1,2-Dichloroethene	ND	U	0.250	[1]
cis-1,3-Dichloropropene	ND	U	0.250	[1]
m&p-Xylene	ND	U	0.500	[1]
n-Butylbenzene	0.932	F	0.250	[1]
n-Propylbenzene	2.02		0.125	[1]
o-Xylene	ND	U	0.250	[1]
p-Isopropyltoluene	0.291	F	0.250	[1]
sec-Butylbenzene	0.931	F	0.250	[1]
tert-Butylbenzene	ND	U	0.250	[1]
trans-1,2-Dichloroethene	ND	U	0.250	[1]
trans-1,3-Dichloropropene	ND	U	0.500	[1]

PARAMETER	B760				B760				B760				B760							
	B760-MW06R WG-B760-MW06R-060 05-AUG-09				B760-MW07R WG-B760-MW07R-060 05-AUG-09				B760-MW08R WG-B760-MW08R-063 05-AUG-09				B760-MW09 WG-B760-MW09-060 04-AUG-09							
D1498 - Oxidation-Reduction Potential (mv)																				
REDOX	-108	S ()	[1]	1.00	S ()	[1]	-77.0	S ()	[1]	26.0	S ()	[1]								
E170.1 - Temperature (degC)																				
Temperature	32.0	S ()	[1]	35.2	S ()	[1]	34.6	S ()	[1]	33.2	S ()	[1]								
E180.1 - Turbidity (ntu)																				
Turbidity	4.98	S ()	[1]	4.02	S ()	[1]	6.33	S ()	[1]	4.72	S ()	[1]								
E360.1 - Oxygen, Dissolved (mg/L)																				
Dissolved Oxygen	0.360	S ()	[1]	0.120	S ()	[1]	0.510	S ()	[1]	0.510	S ()	[1]								
SW9040 - pH Electrometric Measurement (pH UNITS)																				
pH	6.42	S ()	[1]	6.36	S ()	[1]	6.54	S ()	[1]	6.61	S ()	[1]								
SW9050 - Specific Conductance (ms/cm)																				
Specific Conductivity	4.98	S ()	[1]	11.0	S ()	[1]	5.48	S ()	[1]	5.50	S ()	[1]								

PARAMETER -----	B760 B760-MW10 WG-B760-MW10-060 06-AUG-09				B760 B760-MW11 WG-B760-MW11-060 04-AUG-09				B760 B760-MW12 WG-B760-MW12-060 06-AUG-09				B760 B760-MW13 WG-B760-MW13-060 04-AUG-09			
	VALUE	UNIT	QUAL	QUANTITY	VALUE	UNIT	QUAL	QUANTITY	VALUE	UNIT	QUAL	QUANTITY	VALUE	UNIT	QUAL	QUANTITY
D1498 - Oxidation-Reduction Potential (mv) REDOX	84.0		S ()	[1]	46.0		S ()	[1]	-121		S ()	[1]	-37.0		S ()	[1]
E170.1 - Temperature (degC) Temperature	33.6		S ()	[1]	26.7		S ()	[1]	33.4		S ()	[1]	34.8		S ()	[1]
E180.1 - Turbidity (ntu) Turbidity	8.41		S ()	[1]	2.52		S ()	[1]	0.00		S ()	[1]	57.0		S ()	[1]
E360.1 - Oxygen, Dissolved (mg/L) Dissolved Oxygen	0.460		S ()	[1]	0.480		S ()	[1]	0.210		S ()	[1]	0.260		S ()	[1]
SW9040 - pH Electrometric Measurement (pH UNITS) pH	6.57		S ()	[1]	6.62		S ()	[1]	6.18		S ()	[1]	6.77		S ()	[1]
SW9050 - Specific Conductance (ms/cm) Specific Conductivity	5.15		S ()	[1]	4.81		S ()	[1]	5.40		S ()	[1]	4.06		S ()	[1]

Attachment B

Cross-Reference Table and the Holding Time Table

Attachment B Table of Contents

Table B-1	Holding Time Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - August 2009
Table B-2	Date and Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - August 2009

Table B-1. Holding Time Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

SAMPLE ID ANALYTICAL METHOD -----	SAMP TYPE ----	DATE COLLECTED -----	DATE PREPARED -----	ELAPSED TIME -----	PREPARATION HT -----	DATE ANALYZED -----	ELAPSED TIME -----	ANALYTICAL HT -----
WG-B760-MW06R-060 N								
D1498 - Oxidation-Reduction Potential		05-AUG-09	NA	NA	24 Hours	05-AUG-09	0 Days	24 Hours
E170.1 - Temperature		05-AUG-09	NA	NA	24 Hours	05-AUG-09	0 Days	24 Hours
E180.1 - Turbidity		05-AUG-09	NA	NA	48 Hours	05-AUG-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		05-AUG-09	NA	NA	24 Hours	05-AUG-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		05-AUG-09	12-AUG-09	7 Days	14 Days	12-AUG-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		05-AUG-09	07-AUG-09	2 Days	14 Days	07-AUG-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		05-AUG-09	10-AUG-09	5 Days	14 Days	10-AUG-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		05-AUG-09	NA	NA	24 Hours	05-AUG-09	0 Days	24 Hours
SW9050 - Specific Conductance		05-AUG-09	NA	NA	28 Days	05-AUG-09	0 Days	28 Days

WG-B760-MW07R-060 N								
D1498 - Oxidation-Reduction Potential		05-AUG-09	NA	NA	24 Hours	05-AUG-09	0 Days	24 Hours
E170.1 - Temperature		05-AUG-09	NA	NA	24 Hours	05-AUG-09	0 Days	24 Hours
E180.1 - Turbidity		05-AUG-09	NA	NA	48 Hours	05-AUG-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		05-AUG-09	NA	NA	24 Hours	05-AUG-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		05-AUG-09	11-AUG-09	6 Days	14 Days	13-AUG-09	2 Days	14 Days
SW8260B - Volatile Organic Compounds		05-AUG-09	07-AUG-09	2 Days	14 Days	07-AUG-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		05-AUG-09	NA	NA	24 Hours	05-AUG-09	0 Days	24 Hours
SW9050 - Specific Conductance		05-AUG-09	NA	NA	28 Days	05-AUG-09	0 Days	28 Days

WG-B760-MW08R-063 MSD								
SW8011 - Ethylene Dibromide		05-AUG-09	11-AUG-09	6 Days	14 Days	12-AUG-09	1 Days	14 Days
SW8260B - Volatile Organic Compounds		05-AUG-09	07-AUG-09	2 Days	14 Days	07-AUG-09	0 Days	14 Days

WG-B760-MW08R-063 MS								
SW8011 - Ethylene Dibromide		05-AUG-09	11-AUG-09	6 Days	14 Days	12-AUG-09	1 Days	14 Days
SW8260B - Volatile Organic Compounds		05-AUG-09	07-AUG-09	2 Days	14 Days	07-AUG-09	0 Days	14 Days

WG-B760-MW08R-063 N								

Table B-1. Holding Time Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

SAMPLE ID ANALYTICAL METHOD -----	SAMP TYPE ----	DATE COLLECTED -----	DATE PREPARED -----	ELAPSED TIME -----	PREPARATION HT -----	DATE ANALYZED -----	ELAPSED TIME -----	ANALYTICAL HT -----
D1498 - Oxidation-Reduction Potential		05-AUG-09	NA	NA	24 Hours	05-AUG-09	0 Days	24 Hours
E170.1 - Temperature		05-AUG-09	NA	NA	24 Hours	05-AUG-09	0 Days	24 Hours
E180.1 - Turbidity		05-AUG-09	NA	NA	48 Hours	05-AUG-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		05-AUG-09	NA	NA	24 Hours	05-AUG-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		05-AUG-09	11-AUG-09	6 Days	14 Days	12-AUG-09	1 Days	14 Days
SW8260B - Volatile Organic Compounds		05-AUG-09	07-AUG-09	2 Days	14 Days	07-AUG-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		05-AUG-09	NA	NA	24 Hours	05-AUG-09	0 Days	24 Hours
SW9050 - Specific Conductance		05-AUG-09	NA	NA	28 Days	05-AUG-09	0 Days	28 Days

WG-B760-MW09-060	N							
D1498 - Oxidation-Reduction Potential		04-AUG-09	NA	NA	24 Hours	04-AUG-09	0 Days	24 Hours
E170.1 - Temperature		04-AUG-09	NA	NA	24 Hours	04-AUG-09	0 Days	24 Hours
E180.1 - Turbidity		04-AUG-09	NA	NA	48 Hours	04-AUG-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		04-AUG-09	NA	NA	24 Hours	04-AUG-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		04-AUG-09	11-AUG-09	7 Days	14 Days	12-AUG-09	1 Days	14 Days
SW8260B - Volatile Organic Compounds		04-AUG-09	07-AUG-09	3 Days	14 Days	07-AUG-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		04-AUG-09	NA	NA	24 Hours	04-AUG-09	0 Days	24 Hours
SW9050 - Specific Conductance		04-AUG-09	NA	NA	28 Days	04-AUG-09	0 Days	28 Days

WG-B760-MW10-060	N							
D1498 - Oxidation-Reduction Potential		06-AUG-09	NA	NA	24 Hours	06-AUG-09	0 Days	24 Hours
E170.1 - Temperature		06-AUG-09	NA	NA	24 Hours	06-AUG-09	0 Days	24 Hours
E180.1 - Turbidity		06-AUG-09	NA	NA	48 Hours	06-AUG-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		06-AUG-09	NA	NA	24 Hours	06-AUG-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		06-AUG-09	11-AUG-09	5 Days	14 Days	12-AUG-09	1 Days	14 Days
SW8260B - Volatile Organic Compounds		06-AUG-09	10-AUG-09	4 Days	14 Days	10-AUG-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		06-AUG-09	NA	NA	24 Hours	06-AUG-09	0 Days	24 Hours
SW9050 - Specific Conductance		06-AUG-09	NA	NA	28 Days	06-AUG-09	0 Days	28 Days

WG-B760-MW11-060	N							

Table B-1. Holding Time Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

SAMPLE ID ANALYTICAL METHOD	SAMP TYPE	DATE COLLECTED	DATE PREPARED	ELAPSED TIME	PREPARATION HT	DATE ANALYZED	ELAPSED TIME	ANALYTICAL HT
D1498 - Oxidation-Reduction Potential		04-AUG-09	NA	NA	24 Hours	04-AUG-09	0 Days	24 Hours
E170.1 - Temperature		04-AUG-09	NA	NA	24 Hours	04-AUG-09	0 Days	24 Hours
E180.1 - Turbidity		04-AUG-09	NA	NA	48 Hours	04-AUG-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		04-AUG-09	NA	NA	24 Hours	04-AUG-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		04-AUG-09	11-AUG-09	7 Days	14 Days	12-AUG-09	1 Days	14 Days
SW8260B - Volatile Organic Compounds		04-AUG-09	07-AUG-09	3 Days	14 Days	07-AUG-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		04-AUG-09	NA	NA	24 Hours	04-AUG-09	0 Days	24 Hours
SW9050 - Specific Conductance		04-AUG-09	NA	NA	28 Days	04-AUG-09	0 Days	28 Days

WG-B760-MW11-061	FD							
SW8011 - Ethylene Dibromide		04-AUG-09	11-AUG-09	7 Days	14 Days	12-AUG-09	1 Days	14 Days
SW8260B - Volatile Organic Compounds		04-AUG-09	07-AUG-09	3 Days	14 Days	07-AUG-09	0 Days	14 Days

WG-B760-MW12-060	N							
D1498 - Oxidation-Reduction Potential		06-AUG-09	NA	NA	24 Hours	06-AUG-09	0 Days	24 Hours
E170.1 - Temperature		06-AUG-09	NA	NA	24 Hours	06-AUG-09	0 Days	24 Hours
E180.1 - Turbidity		06-AUG-09	NA	NA	48 Hours	06-AUG-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		06-AUG-09	NA	NA	24 Hours	06-AUG-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		06-AUG-09	11-AUG-09	5 Days	14 Days	12-AUG-09	1 Days	14 Days
SW8260B - Volatile Organic Compounds		06-AUG-09	10-AUG-09	4 Days	14 Days	10-AUG-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		06-AUG-09	NA	NA	24 Hours	06-AUG-09	0 Days	24 Hours
SW9050 - Specific Conductance		06-AUG-09	NA	NA	28 Days	06-AUG-09	0 Days	28 Days

WG-B760-MW13-060	N							
D1498 - Oxidation-Reduction Potential		04-AUG-09	NA	NA	24 Hours	04-AUG-09	0 Days	24 Hours
E170.1 - Temperature		04-AUG-09	NA	NA	24 Hours	04-AUG-09	0 Days	24 Hours
E180.1 - Turbidity		04-AUG-09	NA	NA	48 Hours	04-AUG-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		04-AUG-09	NA	NA	24 Hours	04-AUG-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		04-AUG-09	12-AUG-09	8 Days	14 Days	12-AUG-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		04-AUG-09	07-AUG-09	3 Days	14 Days	07-AUG-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		04-AUG-09	NA	NA	24 Hours	04-AUG-09	0 Days	24 Hours

Table B-1. Holding Time Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

SAMPLE ID ANALYTICAL METHOD -----	SAMP TYPE ---	DATE COLLECTED -----	DATE PREPARED -----	ELAPSED TIME -----	PREPARATION HT -----	DATE ANALYZED -----	ELAPSED TIME -----	ANALYTICAL HT -----
SW9050 - Specific Conductance		04-AUG-09	NA	NA	28 Days	04-AUG-09	0 Days	28 Days

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
WG-B760-MW06R-060	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FldAug-1	05-AUG-09			05-AUG-09
SDG :								
E170.1 - Temperature				FldAug-1	05-AUG-09			05-AUG-09
SDG :								
E180.1 - Turbidity				FldAug-1	05-AUG-09			05-AUG-09
SDG :								
E360.1 - Oxygen, Dissolved				FldAug-1	05-AUG-09			05-AUG-09
SDG : 09080133-06								
SW8011 - Ethylene Dibromide			WG309646	WG309646	05-AUG-09		12-AUG-09	12-AUG-09
SDG : 09080133-06								
SW8260B - Volatile Organic Compounds			WG309200	WG309200	05-AUG-09		07-AUG-09	07-AUG-09
SDG : 09080133-06								
SW8260B - Volatile Organic Compounds			WG309327	WG309327	05-AUG-09		10-AUG-09	10-AUG-09
SDG :								
SW9040 - pH Electrometric Measurement				FldAug-1	05-AUG-09			05-AUG-09
SDG :								
SW9050 - Specific Conductance				FldAug-1	05-AUG-09			05-AUG-09
WG-B760-MW07R-060	N							
SDG :								

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
D1498 - Oxidation-Reduction Potential				Fl dAug-1	05-AUG-09			05-AUG-09
SDG :								
E170.1 - Temperature				Fl dAug-1	05-AUG-09			05-AUG-09
SDG :								
E180.1 - Turbidity				Fl dAug-1	05-AUG-09			05-AUG-09
SDG :								
E360.1 - Oxygen, Dissolved				Fl dAug-1	05-AUG-09			05-AUG-09
SDG : 09080133-10								
SW8011 - Ethylene Dibromide			WG309430	WG309430	05-AUG-09		11-AUG-09	13-AUG-09
SDG : 09080133-10								
SW8260B - Volatile Organic Compounds			WG309200	WG309200	05-AUG-09		07-AUG-09	07-AUG-09
SDG :								
SW9040 - pH Electrometric Measurement				Fl dAug-1	05-AUG-09			05-AUG-09
SDG :								
SW9050 - Specific Conductance				Fl dAug-1	05-AUG-09			05-AUG-09

WG-B760-MW08R-063	MSD							
SDG : 09080133-09								
SW8011 - Ethylene Dibromide			WG309430	WG309430	05-AUG-09		11-AUG-09	12-AUG-09
SDG : 09080133-09								
SW8260B - Volatile Organic Compounds			WG309198	WG309198	05-AUG-09		07-AUG-09	07-AUG-09

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
WG-B760-MW08R-063	MS							
SDG : 09080133-08								
SW8011 - Ethylene Dibromide			WG309430	WG309430	05-AUG-09		11-AUG-09	12-AUG-09
SDG : 09080133-08								
SW8260B - Volatile Organic Compounds			WG309198	WG309198	05-AUG-09		07-AUG-09	07-AUG-09

WG-B760-MW08R-063	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FldAug-1	05-AUG-09			05-AUG-09
SDG :								
E170.1 - Temperature				FldAug-1	05-AUG-09			05-AUG-09
SDG :								
E180.1 - Turbidity				FldAug-1	05-AUG-09			05-AUG-09
SDG :								
E360.1 - Oxygen, Dissolved				FldAug-1	05-AUG-09			05-AUG-09
SDG : 09080133-07								
SW8011 - Ethylene Dibromide			WG309430	WG309430	05-AUG-09		11-AUG-09	12-AUG-09
SDG : 09080133-07								
SW8260B - Volatile Organic Compounds			WG309198	WG309198	05-AUG-09		07-AUG-09	07-AUG-09
SDG :								
SW9040 - pH Electrometric Measurement				FldAug-1	05-AUG-09			05-AUG-09
SDG :								
SW9050 - Specific Conductance				FldAug-1	05-AUG-09			05-AUG-09

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
WG-B760-MW09-060	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FldAug-1	04-AUG-09			04-AUG-09
SDG :								
E170.1 - Temperature				FldAug-1	04-AUG-09			04-AUG-09
SDG :								
E180.1 - Turbidity				FldAug-1	04-AUG-09			04-AUG-09
SDG :								
E360.1 - Oxygen, Dissolved				FldAug-1	04-AUG-09			04-AUG-09
SDG : 09080133-03								
SW8011 - Ethylene Dibromide			WG309430	WG309430	04-AUG-09		11-AUG-09	12-AUG-09
SDG : 09080133-03								
SW8260B - Volatile Organic Compounds			WG309200	WG309200	04-AUG-09		07-AUG-09	07-AUG-09
SDG :								
SW9040 - pH Electrometric Measurement				FldAug-1	04-AUG-09			04-AUG-09
SDG :								
SW9050 - Specific Conductance				FldAug-1	04-AUG-09			04-AUG-09

WG-B760-MW10-060	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FldAug-1	06-AUG-09			06-AUG-09
SDG :								
E170.1 - Temperature				FldAug-1	06-AUG-09			06-AUG-09

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
SDG :								
E180.1 - Turbidity				FlAug-1	06-AUG-09			06-AUG-09
SDG :								
E360.1 - Oxygen, Dissolved				FlAug-1	06-AUG-09			06-AUG-09
SDG : 09080173-02								
SW8011 - Ethylene Dibromide			WG309430	WG309430	06-AUG-09		11-AUG-09	12-AUG-09
SDG : 09080173-02								
SW8260B - Volatile Organic Compounds			WG309327	WG309327	06-AUG-09		10-AUG-09	10-AUG-09
SDG :								
SW9040 - pH Electrometric Measurement				FlAug-1	06-AUG-09			06-AUG-09
SDG :								
SW9050 - Specific Conductance				FlAug-1	06-AUG-09			06-AUG-09

WG-B760-MW11-060	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FlAug-1	04-AUG-09			04-AUG-09
SDG :								
E170.1 - Temperature				FlAug-1	04-AUG-09			04-AUG-09
SDG :								
E180.1 - Turbidity				FlAug-1	04-AUG-09			04-AUG-09
SDG :								
E360.1 - Oxygen, Dissolved				FlAug-1	04-AUG-09			04-AUG-09
SDG : 09080133-01								

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
SW8011 - Ethylene Dibromide			WG309430	WG309430	04-AUG-09		11-AUG-09	12-AUG-09
SDG : 09080133-01								
SW8260B - Volatile Organic Compounds			WG309200	WG309200	04-AUG-09		07-AUG-09	07-AUG-09
SDG :								
SW9040 - pH Electrometric Measurement				FlAug-1	04-AUG-09			04-AUG-09
SDG :								
SW9050 - Specific Conductance				FlAug-1	04-AUG-09			04-AUG-09

WG-B760-MW11-061	FD							
SDG : 09080133-02								
SW8011 - Ethylene Dibromide			WG309430	WG309430	04-AUG-09		11-AUG-09	12-AUG-09
SDG : 09080133-02								
SW8260B - Volatile Organic Compounds			WG309200	WG309200	04-AUG-09		07-AUG-09	07-AUG-09

WG-B760-MW12-060	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FlAug-1	06-AUG-09			06-AUG-09
SDG :								
E170.1 - Temperature				FlAug-1	06-AUG-09			06-AUG-09
SDG :								
E180.1 - Turbidity				FlAug-1	06-AUG-09			06-AUG-09
SDG :								
E360.1 - Oxygen, Dissolved				FlAug-1	06-AUG-09			06-AUG-09

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
SDG : 09080173-01								
SW8011 - Ethylene Dibromide			WG309430	WG309430	06-AUG-09		11-AUG-09	12-AUG-09
SDG : 09080173-01								
SW8260B - Volatile Organic Compounds			WG309327	WG309327	06-AUG-09		10-AUG-09	10-AUG-09
SDG :								
SW9040 - pH Electrometric Measurement				FlAug-1	06-AUG-09			06-AUG-09
SDG :								
SW9050 - Specific Conductance				FlAug-1	06-AUG-09			06-AUG-09

WG-B760-MW13-060	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FlAug-1	04-AUG-09			04-AUG-09
SDG :								
E170.1 - Temperature				FlAug-1	04-AUG-09			04-AUG-09
SDG :								
E180.1 - Turbidity				FlAug-1	04-AUG-09			04-AUG-09
SDG :								
E360.1 - Oxygen, Dissolved				FlAug-1	04-AUG-09			04-AUG-09
SDG : 09080133-04								
SW8011 - Ethylene Dibromide			WG309646	WG309646	04-AUG-09		12-AUG-09	12-AUG-09
SDG : 09080133-04								
SW8260B - Volatile Organic Compounds			WG309200	WG309200	04-AUG-09		07-AUG-09	07-AUG-09
SDG :								

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
SW9040 - pH Electrometric Measurement				FldAug-1	04-AUG-09			04-AUG-09
SDG :								
SW9050 - Specific Conductance				FldAug-1	04-AUG-09			04-AUG-09

Attachment C

Summary of the QC Results

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Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Analyte	Number of Blanks	Number Above Sample RL	Number Above SDL	Concentration Range
SW8011 - Ethylene Dibromide, (ug/L)				
Type of Blank : Equipment Blank				
1,2-Dibromoethane	1	0	0	NC
Type of Blank : Method Blank				
1,2-Dibromoethane	2	0	0	NC
Type of Blank : Trip Blank				
1,2-Dibromoethane	2	0	0	NC
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Equipment Blank				
1,1,1,2-Tetrachloroethane	1	0	0	NC
1,1,1-Trichloroethane	1	0	0	NC
1,1,2,2-Tetrachloroethane	1	0	0	NC
1,1,2-Trichloroethane	1	0	0	NC
1,1-Dichloroethane	1	0	0	NC
1,1-Dichloroethene	1	0	0	NC
1,1-Dichloropropene	1	0	0	NC
1,2,3-Trichlorobenzene	1	0	0	NC
1,2,3-Trichloropropane	1	0	0	NC
1,2,4-Trichlorobenzene	1	0	0	NC
1,2,4-Trimethylbenzene	1	0	0	NC
1,2-Dibromo-3-chloropropane	1	0	0	NC
1,2-Dibromoethane	1	0	0	NC
1,2-Dichlorobenzene	1	0	0	NC
1,2-Dichloroethane	1	0	0	NC
1,2-Dichloropropane	1	0	0	NC
1,3,5-Trimethylbenzene	1	0	0	NC
1,3-Dichlorobenzene	1	0	0	NC
1,3-Dichloropropane	1	0	0	NC
1,4-Dichlorobenzene	1	0	0	NC
1-Chlorohexane	1	0	0	NC
2,2-Dichloropropane	1	0	0	NC
2-Butanone(MEK)	1	0	0	NC
2-Chlorotoluene	1	0	0	NC
4-Chlorotoluene	1	0	0	NC
Acetone	1	0	0	NC
Benzene	1	0	0	NC
Bromobenzene	1	0	0	NC
Bromochloromethane	1	0	0	NC
Bromodichloromethane	1	0	0	NC
Bromoform	1	0	0	NC
Bromomethane	1	0	0	NC
Carbon tetrachloride	1	0	0	NC
Chlorobenzene	1	0	0	NC
Chloroethane	1	0	0	NC
Chloroform	1	0	0	NC
Chloromethane	1	0	0	NC
Dibromochloromethane	1	0	0	NC
Dibromomethane	1	0	0	NC
Dichlorodifluoromethane	1	0	0	NC
Ethylbenzene	1	0	0	NC

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Analyte -----	Number of Blanks -----	Number Above Sample RL -----	Number Above SDL -----	Concentration Range -----
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Equipment Blank, cont.				
Hexachlorobutadiene	1	0	0	NC
Isopropylbenzene	1	0	0	NC
Methyl isobutyl ketone (MIBK)	1	0	0	NC
Methyl t-butyl ether	1	0	0	NC
Methylene chloride	1	0	1	0.255 - 0.255
Naphthalene	1	0	0	NC
Styrene	1	0	0	NC
Tert-Butyl alcohol	1	0	0	NC
Tetrachloroethene	1	0	0	NC
Toluene	1	0	0	NC
Trichloroethene	1	0	0	NC
Trichlorofluoromethane	1	0	0	NC
Vinyl chloride	1	0	0	NC
cis-1,2-Dichloroethene	1	0	0	NC
cis-1,3-Dichloropropene	1	0	0	NC
m&p-Xylene	1	0	0	NC
n-Butylbenzene	1	0	0	NC
n-Propylbenzene	1	0	0	NC
o-Xylene	1	0	0	NC
p-Isopropyltoluene	1	0	0	NC
sec-Butylbenzene	1	0	0	NC
tert-Butylbenzene	1	0	0	NC
trans-1,2-Dichloroethene	1	0	0	NC
trans-1,3-Dichloropropene	1	0	0	NC
Type of Blank : Method Blank				
1,1,1,2-Tetrachloroethane	5	0	0	NC
1,1,1-Trichloroethane	5	0	0	NC
1,1,2,2-Tetrachloroethane	5	0	0	NC
1,1,2-Trichloroethane	5	0	0	NC
1,1-Dichloroethane	5	0	0	NC
1,1-Dichloroethene	5	0	0	NC
1,1-Dichloropropene	5	0	0	NC
1,2,3-Trichlorobenzene	5	0	1	0.192 - 0.192
1,2,3-Trichloropropane	5	0	0	NC
1,2,4-Trichlorobenzene	5	0	0	NC
1,2,4-Trimethylbenzene	5	0	0	NC
1,2-Dibromo-3-chloropropane	5	0	0	NC
1,2-Dibromoethane	5	0	0	NC
1,2-Dichlorobenzene	5	0	0	NC
1,2-Dichloroethane	5	0	0	NC
1,2-Dichloropropane	5	0	0	NC
1,3,5-Trimethylbenzene	5	0	0	NC
1,3-Dichlorobenzene	5	0	0	NC
1,3-Dichloropropane	5	0	0	NC
1,4-Dichlorobenzene	5	0	0	NC
1-Chlorohexane	5	0	0	NC
2,2-Dichloropropane	5	0	0	NC
2-Butanone(MEK)	5	0	0	NC
2-Chlorotoluene	5	0	0	NC

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Analyte -----	Number of Blanks -----	Number Above Sample RL -----	Number Above SDL -----	Concentration Range -----
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Method Blank, cont.				
4-Chlorotoluene	5	0	0	NC
Acetone	5	0	0	NC
Benzene	5	0	0	NC
Bromobenzene	5	0	0	NC
Bromochloromethane	5	0	0	NC
Bromodichloromethane	5	0	0	NC
Bromoform	5	0	0	NC
Bromomethane	5	0	0	NC
Carbon tetrachloride	5	0	0	NC
Chlorobenzene	5	0	0	NC
Chloroethane	5	0	0	NC
Chloroform	5	0	0	NC
Chloromethane	5	0	0	NC
Dibromochloromethane	5	0	0	NC
Dibromomethane	5	0	0	NC
Dichlorodifluoromethane	5	0	0	NC
Ethylbenzene	5	0	0	NC
Hexachlorobutadiene	5	0	1	0.454 - 0.454
Isopropylbenzene	5	0	0	NC
Methyl isobutyl ketone (MIBK)	5	0	0	NC
Methyl t-butyl ether	5	0	0	NC
Methylene chloride	5	0	4	0.291 - 0.446
Naphthalene	5	0	0	NC
Styrene	5	0	0	NC
Tert-Butyl alcohol	5	0	0	NC
Tetrachloroethene	5	0	0	NC
Toluene	5	0	0	NC
Trichloroethene	5	0	0	NC
Trichlorofluoromethane	5	0	0	NC
Vinyl chloride	5	0	0	NC
cis-1,2-Dichloroethene	5	0	0	NC
cis-1,3-Dichloropropene	5	0	0	NC
m&p-Xylene	5	0	0	NC
n-Butylbenzene	5	0	0	NC
n-Propylbenzene	5	0	0	NC
o-Xylene	5	0	0	NC
p-Isopropyltoluene	5	0	0	NC
sec-Butylbenzene	5	0	0	NC
tert-Butylbenzene	5	0	0	NC
trans-1,2-Dichloroethene	5	0	0	NC
trans-1,3-Dichloropropene	5	0	0	NC
Type of Blank : Trip Blank				
1,1,1,2-Tetrachloroethane	2	0	0	NC
1,1,1-Trichloroethane	2	0	0	NC
1,1,2,2-Tetrachloroethane	2	0	0	NC
1,1,2-Trichloroethane	2	0	0	NC
1,1-Dichloroethane	2	0	0	NC
1,1-Dichloroethene	2	0	0	NC
1,1-Dichloropropene	2	0	0	NC

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Analyte	Number of Blanks	Number Above Sample RL	Number Above SDL	Concentration Range
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Trip Blank, cont.				
1,2,3-Trichlorobenzene	2	0	0	NC
1,2,3-Trichloropropane	2	0	0	NC
1,2,4-Trichlorobenzene	2	0	0	NC
1,2,4-Trimethylbenzene	2	0	0	NC
1,2-Dibromo-3-chloropropane	2	0	0	NC
1,2-Dibromoethane	2	0	0	NC
1,2-Dichlorobenzene	2	0	0	NC
1,2-Dichloroethane	2	0	0	NC
1,2-Dichloropropane	2	0	0	NC
1,3,5-Trimethylbenzene	2	0	0	NC
1,3-Dichlorobenzene	2	0	0	NC
1,3-Dichloropropane	2	0	0	NC
1,4-Dichlorobenzene	2	0	0	NC
1-Chlorohexane	2	0	0	NC
2,2-Dichloropropane	2	0	0	NC
2-Butanone(MEK)	2	0	0	NC
2-Chlorotoluene	2	0	0	NC
4-Chlorotoluene	2	0	0	NC
Acetone	2	0	0	NC
Benzene	2	0	0	NC
Bromobenzene	2	0	0	NC
Bromochloromethane	2	0	0	NC
Bromodichloromethane	2	0	0	NC
Bromoform	2	0	0	NC
Bromomethane	2	0	0	NC
Carbon tetrachloride	2	0	0	NC
Chlorobenzene	2	0	0	NC
Chloroethane	2	0	0	NC
Chloroform	2	0	0	NC
Chloromethane	2	0	0	NC
Dibromochloromethane	2	0	0	NC
Dibromomethane	2	0	0	NC
Dichlorodifluoromethane	2	0	0	NC
Ethylbenzene	2	0	0	NC
Hexachlorobutadiene	2	0	0	NC
Isopropylbenzene	2	0	0	NC
Methyl isobutyl ketone (MIBK)	2	0	0	NC
Methyl t-butyl ether	2	0	0	NC
Methylene chloride	2	0	2	0.859 - 0.868
Naphthalene	2	0	0	NC
Styrene	2	0	0	NC
Tert-Butyl alcohol	2	0	0	NC
Tetrachloroethene	2	0	0	NC
Toluene	2	0	0	NC
Trichloroethene	2	0	0	NC
Trichlorofluoromethane	2	0	0	NC
Vinyl chloride	2	0	0	NC
cis-1,2-Dichloroethene	2	0	0	NC
cis-1,3-Dichloropropene	2	0	0	NC

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Analyte -----	Number of Blanks -----	Number Above Sample RL -----	Number Above SDL -----	Concentration Range -----
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Trip Blank, cont.				
m&p-Xylene	2	0	0	NC
n-Butylbenzene	2	0	0	NC
n-Propylbenzene	2	0	0	NC
o-Xylene	2	0	0	NC
p-Isopropyltoluene	2	0	0	NC
sec-Butylbenzene	2	0	0	NC
tert-Butylbenzene	2	0	0	NC
trans-1,2-Dichloroethene	2	0	0	NC
trans-1,3-Dichloropropene	2	0	0	NC

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Method : SW8011 - Ethylene Dibromide							
Type of Spike : Laboratory Control							
1,2-Dibromoethane	3	3	96-112	105	0	0	80-120
Type of Spike : Matrix Spike							
1,2-Dibromoethane	2	2	107-128	118	0	1	80-120
Type of Spike : Surrogate - Equipment Blank							
1,2-Dibromopropane	1	1	117-117	117	0	0	70-120
Type of Spike : Surrogate - Field Duplicate							
1,2-Dibromopropane	1	1	104-104	104	0	0	70-120
Type of Spike : Surrogate - Laboratory Control							
1,2-Dibromopropane	3	3	105-117	112	0	0	70-120
Type of Spike : Surrogate - Matrix Spike							
1,2-Dibromopropane	2	2	129-146	138	0	2	70-120
Type of Spike : Surrogate - Method Blank							
1,2-Dibromopropane	2	2	108-111	110	0	0	70-120
Type of Spike : Surrogate - Normal Sample							
1,2-Dibromopropane	8	8	76-113	92	0	0	70-120
Type of Spike : Surrogate - Trip Blank							
1,2-Dibromopropane	2	2	104-112	108	0	0	70-120
Method : SW8260B - Volatile Organic Compounds							
Type of Spike : Laboratory Control							
1,1,1,2-Tetrachloroethane	4	4	100-104	102	0	0	81-129
1,1,1-Trichloroethane	4	4	100-104	102	0	0	67-132
1,1,2,2-Tetrachloroethane	4	4	98-99	98	0	0	63-128
1,1,2-Trichloroethane	4	4	103-104	104	0	0	75-125
1,1-Dichloroethane	4	4	97-101	100	0	0	69-133
1,1-Dichloroethene	4	4	94-100	98	0	0	68-130
1,1-Dichloropropene	4	4	95-102	98	0	0	73-132
1,2,3-Trichlorobenzene	4	4	97-115	102	0	0	67-137
1,2,3-Trichloropropane	4	4	99-104	101	0	0	73-124
1,2,4-Trichlorobenzene	4	4	93-105	97	0	0	66-134
1,2,4-Trimethylbenzene	4	4	97-103	100	0	0	74-132
1,2-Dibromo-3-chloropropane	4	4	99-102	100	0	0	50-132
1,2-Dibromoethane	4	4	100-103	101	0	0	80-121
1,2-Dichlorobenzene	4	4	97-103	99	0	0	71-122
1,2-Dichloroethane	4	4	96-100	98	0	0	69-132
1,2-Dichloropropane	4	4	97-103	101	0	0	75-125

Date Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Method : SW8260B - Volatile Organic Compounds							
Type of Spike : Laboratory Control, cont.							
1,3,5-Trimethylbenzene	4	4	97-105	100	0	0	74-131
1,3-Dichlorobenzene	4	4	96-103	99	0	0	75-124
1,3-Dichloropropane	4	4	99-105	100	0	0	73-126
1,4-Dichlorobenzene	4	4	93-103	96	0	0	74-123
1-Chlorohexane	4	4	95-104	99	0	0	70-125
2,2-Dichloropropane	4	4	93-99	97	0	0	69-137
2-Butanone(MEK)	4	4	89-106	99	0	0	49-136
2-Chlorotoluene	4	4	100-107	103	0	0	73-126
4-Chlorotoluene	4	4	90-103	94	0	0	74-128
Acetone	4	4	106-117	113	0	0	40-135
Benzene	4	4	96-102	100	0	0	81-122
Bromobenzene	4	4	99-106	102	0	0	76-124
Bromochloromethane	4	4	104-110	107	0	0	65-129
Bromodichloromethane	4	4	103-109	106	0	0	76-121
Bromoform	4	4	98-103	100	0	0	69-128
Bromomethane	4	4	104-125	113	0	0	30-141
Carbon tetrachloride	4	4	98-103	101	0	0	66-138
Chlorobenzene	4	4	98-103	100	0	0	81-122
Chloroethane	4	4	100-109	106	0	0	58-133
Chloroform	4	4	97-105	101	0	0	69-128
Chloromethane	4	4	93-111	100	0	0	56-131
Dibromochloromethane	4	4	103-107	104	0	0	66-133
Dibromomethane	4	4	103-108	105	0	0	76-125
Dichlorodifluoromethane	4	4	129-156	145	0	1	30-153
Ethylbenzene	4	4	99-103	101	0	0	73-127
Hexachlorobutadiene	4	4	92-114	99	0	0	67-131
Isopropylbenzene	4	4	88-93	90	0	0	75-127
Methyl isobutyl ketone (MIBK)	4	4	88-100	96	0	0	58-134
Methyl t-butyl ether	4	4	100-110	106	0	0	65-123
Methylene chloride	4	4	92-99	97	0	0	63-137
Naphthalene	4	4	98-115	103	0	0	54-138
Styrene	4	4	101-106	103	0	0	65-134
Tert-Butyl alcohol	4	4	81-102	94	0	0	50-150
Tetrachloroethene	4	4	95-109	100	0	0	66-128
Toluene	4	4	97-106	100	0	0	77-122
Trichloroethene	4	4	103-107	106	0	0	70-127
Trichlorofluoromethane	4	4	93-97	96	0	0	57-129
Vinyl chloride	4	4	101-118	107	0	0	50-134
cis-1,2-Dichloroethene	4	4	98-106	103	0	0	72-126
cis-1,3-Dichloropropene	4	4	99-105	103	0	0	69-131
m&p-Xylene	4	4	98-106	101	0	0	76-128
n-Butylbenzene	4	4	94-100	96	0	0	69-137
n-Propylbenzene	4	4	97-106	101	0	0	72-129
o-Xylene	4	4	100-108	102	0	0	80-121
p-Isopropyltoluene	4	4	91-98	95	0	0	73-130
sec-Butylbenzene	4	4	97-103	100	0	0	72-127

Date Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Method : SW8260B - Volatile Organic Compounds							
Type of Spike : Laboratory Control, cont.							
tert-Butylbenzene	4	4	98-105	101	0	0	70-129
trans-1,2-Dichloroethene	4	4	97-113	107	0	0	63-137
trans-1,3-Dichloropropene	4	4	87-88	87	0	0	59-135
Type of Spike : Matrix Spike							
1,1,1,2-Tetrachloroethane	2	2	96-97	96	0	0	81-129
1,1,1-Trichloroethane	2	2	95-97	96	0	0	67-132
1,1,2,2-Tetrachloroethane	2	2	90-93	92	0	0	63-128
1,1,2-Trichloroethane	2	2	100-101	100	0	0	75-125
1,1-Dichloroethane	2	2	93-94	93	0	0	69-133
1,1-Dichloroethene	2	2	89-91	90	0	0	68-130
1,1-Dichloropropene	2	2	95-96	96	0	0	73-132
1,2,3-Trichlorobenzene	2	2	108-108	108	0	0	67-137
1,2,3-Trichloropropane	2	2	97-107	102	0	0	73-124
1,2,4-Trichlorobenzene	2	2	99-102	100	0	0	66-134
1,2,4-Trimethylbenzene	2	2	94-97	95	0	0	74-132
1,2-Dibromo-3-chloropropane	2	2	90-96	93	0	0	50-132
1,2-Dibromoethane	2	2	97-100	98	0	0	80-121
1,2-Dichlorobenzene	2	2	97-97	97	0	0	71-122
1,2-Dichloroethane	2	2	89-90	89	0	0	69-132
1,2-Dichloropropane	2	2	98-100	99	0	0	75-125
1,3,5-Trimethylbenzene	2	2	96-97	96	0	0	74-131
1,3-Dichlorobenzene	2	2	95-96	96	0	0	75-124
1,3-Dichloropropane	2	2	99-100	99	0	0	73-126
1,4-Dichlorobenzene	2	2	96-97	96	0	0	74-123
1-Chlorohexane	2	2	93-95	94	0	0	70-125
2,2-Dichloropropane	2	2	91-92	92	0	0	69-137
2-Butanone(MEK)	2	2	100-111	106	0	0	49-136
2-Chlorotoluene	2	2	95-99	97	0	0	73-126
4-Chlorotoluene	2	2	94-96	95	0	0	74-128
Acetone	2	2	89-113	101	0	0	40-135
Benzene	2	2	94-95	94	0	0	81-122
Bromobenzene	2	2	100-101	101	0	0	76-124
Bromochloromethane	2	2	100-100	100	0	0	65-129
Bromodichloromethane	2	2	101-102	102	0	0	76-121
Bromoform	2	2	98-100	99	0	0	69-128
Bromomethane	2	2	112-120	116	0	0	30-141
Carbon tetrachloride	2	2	98-100	99	0	0	66-138
Chlorobenzene	2	2	95-95	95	0	0	81-122
Chloroethane	2	2	99-99	99	0	0	58-133
Chloroform	2	2	95-99	97	0	0	69-128
Chloromethane	2	2	104-104	104	0	0	56-131
Dibromochloromethane	2	2	104-104	104	0	0	66-133
Dibromomethane	2	2	101-101	101	0	0	76-125
Dichlorodifluoromethane	2	2	117-127	122	0	0	30-153
Ethylbenzene	2	2	94-97	95	0	0	73-127

Date Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Method : SW8260B - Volatile Organic Compounds							
Type of Spike : Matrix Spike, cont.							
Hexachlorobutadiene	2	2	104-105	105	0	0	67-131
Isopropylbenzene	2	2	87-89	88	0	0	75-127
Methyl isobutyl ketone (MIBK)	2	2	92-95	94	0	0	58-134
Methyl t-butyl ether	2	2	97-102	100	0	0	65-123
Methylene chloride	2	2	90-94	92	0	0	63-137
Naphthalene	2	2	109-110	110	0	0	54-138
Styrene	2	2	99-100	99	0	0	65-134
Tert-Butyl alcohol	2	2	93-105	99	0	0	50-150
Tetrachloroethene	2	2	100-102	101	0	0	66-128
Toluene	2	2	98-99	98	0	0	77-122
Trichloroethene	2	2	99-100	99	0	0	70-127
Trichlorofluoromethane	2	2	87-90	89	0	0	57-129
Vinyl chloride	2	2	112-115	114	0	0	50-134
cis-1,2-Dichloroethene	2	2	97-99	98	0	0	72-126
cis-1,3-Dichloropropene	2	2	96-97	97	0	0	69-131
m&p-Xylene	2	2	98-99	99	0	0	76-128
n-Butylbenzene	2	2	84-89	86	0	0	69-137
n-Propylbenzene	2	2	97-98	97	0	0	72-129
o-Xylene	2	2	100-102	101	0	0	80-121
p-Isopropyltoluene	2	2	82-85	83	0	0	73-130
sec-Butylbenzene	2	2	94-94	94	0	0	72-127
tert-Butylbenzene	2	2	94-94	94	0	0	70-129
trans-1,2-Dichloroethene	2	2	103-104	104	0	0	63-137
trans-1,3-Dichloropropene	2	2	80-84	82	0	0	59-135
Type of Spike : Surrogate - Equipment Blank							
1,2-Dichloroethane-d4	1	1	90-90	90	0	0	72-119
4-Bromofluorobenzene	1	1	96-96	96	0	0	76-119
Dibromofluoromethane	1	1	96-96	96	0	0	85-115
Toluene-d8	1	1	99-99	99	0	0	81-120
Type of Spike : Surrogate - Field Duplicate							
1,2-Dichloroethane-d4	1	1	94-94	94	0	0	72-119
4-Bromofluorobenzene	1	1	96-96	96	0	0	76-119
Dibromofluoromethane	1	1	96-96	96	0	0	85-115
Toluene-d8	1	1	99-99	99	0	0	81-120
Type of Spike : Surrogate - Laboratory Control							
1,2-Dichloroethane-d4	4	4	86-91	89	0	0	72-119
4-Bromofluorobenzene	4	4	92-106	96	0	0	76-119
Dibromofluoromethane	4	4	92-100	95	0	0	85-115
Toluene-d8	4	4	94-103	97	0	0	81-120

Date Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

C-2-4

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Type of Spike : Surrogate - Matrix Spike							
1,2-Dichloroethane-d4	2	2	85-89	87	0	0	72-119
4-Bromofluorobenzene	2	2	103-105	104	0	0	76-119
Dibromofluoromethane	2	2	96-100	98	0	0	85-115
Toluene-d8	2	2	100-101	100	0	0	81-120
Type of Spike : Surrogate - Method Blank							
1,2-Dichloroethane-d4	5	5	83-93	89	0	0	72-119
4-Bromofluorobenzene	5	5	94-119	100	0	0	76-119
Dibromofluoromethane	5	5	91-100	95	0	0	85-115
Toluene-d8	5	5	98-102	99	0	0	81-120
Type of Spike : Surrogate - Normal Sample							
1,2-Dichloroethane-d4	9	9	85-97	92	0	0	72-119
4-Bromofluorobenzene	9	9	92-112	97	0	0	76-119
Dibromofluoromethane	9	9	91-100	95	0	0	85-115
Toluene-d8	9	9	97-100	99	0	0	81-120
Type of Spike : Surrogate - Trip Blank							
1,2-Dichloroethane-d4	2	2	88-92	90	0	0	72-119
4-Bromofluorobenzene	2	2	94-96	95	0	0	76-119
Dibromofluoromethane	2	2	93-96	94	0	0	85-115
Toluene-d8	2	2	98-101	99	0	0	81-120

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Parameter -----	Number of Pairs -----	No. of Pairs Assessed* -----	Range of RPDs (%) -----	Above Accept -----	Acceptance RPD (%) -----
Method: SW8011 - Ethylene Dibromide					
Type of Duplicate : Field Duplicate					
1,2-Dibromoethane	1	0	NC - NC	0	20
Method: SW8011 - Ethylene Dibromide					
Type of Duplicate : Laboratory Control Duplicate					
1,2-Dibromoethane	1	1	NC - 11.16	0	20
Method: SW8011 - Ethylene Dibromide					
Type of Duplicate : Matrix Spike Duplicate					
1,2-Dibromoethane	1	1	NC - 18.18	0	20
Method: SW8260B - Volatile Organic Compounds					
Type of Duplicate : Field Duplicate					
1,1,1,2-Tetrachloroethane	1	0	NC - NC	0	20
1,1,1-Trichloroethane	1	0	NC - NC	0	20
1,1,2,2-Tetrachloroethane	1	0	NC - NC	0	20
1,1,2-Trichloroethane	1	0	NC - NC	0	20
1,1-Dichloroethane	1	0	NC - NC	0	20
1,1-Dichloroethene	1	0	NC - NC	0	20
1,1-Dichloropropene	1	0	NC - NC	0	20
1,2,3-Trichlorobenzene	1	0	NC - NC	0	20
1,2,3-Trichloropropane	1	0	NC - NC	0	20
1,2,4-Trichlorobenzene	1	0	NC - NC	0	20
1,2,4-Trimethylbenzene	1	0	NC - NC	0	20
1,2-Dibromo-3-chloropropane	1	0	NC - NC	0	20
1,2-Dibromoethane	1	0	NC - NC	0	20
1,2-Dichlorobenzene	1	0	NC - NC	0	20
1,2-Dichloroethane	1	0	NC - NC	0	20
1,2-Dichloropropane	1	0	NC - NC	0	20
1,3,5-Trimethylbenzene	1	0	NC - NC	0	20
1,3-Dichlorobenzene	1	0	NC - NC	0	20
1,3-Dichloropropane	1	0	NC - NC	0	20
1,4-Dichlorobenzene	1	0	NC - NC	0	20
1-Chlorohexane	1	0	NC - NC	0	20
2,2-Dichloropropane	1	0	NC - NC	0	20
2-Butanone(MEK)	1	0	NC - NC	0	20
2-Chlorotoluene	1	0	NC - NC	0	20
4-Chlorotoluene	1	0	NC - NC	0	20
Acetone	1	0	NC - NC	0	20
Benzene	1	1	NC - 2.07	0	20
Bromobenzene	1	0	NC - NC	0	20
Bromochloromethane	1	0	NC - NC	0	20
Bromodichloromethane	1	0	NC - NC	0	20
Bromoform	1	0	NC - NC	0	20

Compiled: 09/03/09

NC = Not Calculable · ND = Not Detected · NS = Not Specified

C-3-1

Statistics include only detected concentrations.

* Pairs for which one or both of the results were below the RL or not detected are excluded from evaluation.

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Parameter	Number of Pairs	No. of Pairs Assessed*	Range of RPDs (%)	Above Accept	Acceptance RPD (%)
Bromomethane	1	0	NC - NC	0	20
Carbon tetrachloride	1	0	NC - NC	0	20
Chlorobenzene	1	0	NC - NC	0	20
Chloroethane	1	0	NC - NC	0	20
Chloroform	1	0	NC - NC	0	20
Chloromethane	1	0	NC - NC	0	20
Dibromochloromethane	1	0	NC - NC	0	20
Dibromomethane	1	0	NC - NC	0	20
Dichlorodifluoromethane	1	0	NC - NC	0	20
Ethylbenzene	1	0	NC - NC	0	20
Hexachlorobutadiene	1	0	NC - NC	0	20
Isopropylbenzene	1	0	NC - NC	0	20
Methyl isobutyl ketone (MIBK)	1	0	NC - NC	0	20
Methyl t-butyl ether	1	0	NC - NC	0	20
Methylene chloride	1	0	NC - NC	0	20
Naphthalene	1	0	NC - NC	0	20
Styrene	1	0	NC - NC	0	20
Tert-Butyl alcohol	1	0	NC - NC	0	20
Tetrachloroethene	1	0	NC - NC	0	20
Toluene	1	0	NC - NC	0	20
Trichloroethene	1	0	NC - NC	0	20
Trichlorofluoromethane	1	0	NC - NC	0	20
Vinyl chloride	1	0	NC - NC	0	20
cis-1,2-Dichloroethene	1	0	NC - NC	0	20
cis-1,3-Dichloropropene	1	0	NC - NC	0	20
m&p-Xylene	1	0	NC - NC	0	20
n-Butylbenzene	1	0	NC - NC	0	20
n-Propylbenzene	1	0	NC - NC	0	20
o-Xylene	1	0	NC - NC	0	20
p-Isopropyltoluene	1	0	NC - NC	0	20
sec-Butylbenzene	1	0	NC - NC	0	20
tert-Butylbenzene	1	0	NC - NC	0	20
trans-1,2-Dichloroethene	1	0	NC - NC	0	20
trans-1,3-Dichloropropene	1	0	NC - NC	0	20

Method: SW8260B - Volatile Organic Compounds
 Type of Duplicate : Laboratory Control Duplicate

1,1,1,2-Tetrachloroethane	1	1	NC - 0.990	0	20
1,1,1-Trichloroethane	1	1	NC - 1.46	0	20
1,1,2,2-Tetrachloroethane	1	1	NC - 1.53	0	20
1,1,2-Trichloroethane	1	1	NC - 1.45	0	20
1,1-Dichloroethane	1	1	NC - 0.995	0	20
1,1-Dichloroethene	1	1	NC - 0.504	0	20
1,1-Dichloropropene	1	1	NC - 1.03	0	20
1,2,3-Trichlorobenzene	1	1	NC - 1.03	0	20
1,2,3-Trichloropropane	1	1	NC - 4.95	0	20
1,2,4-Trichlorobenzene	1	1	NC - 0.533	0	20

Compiled: 09/03/09

NC = Not Calculable ND = Not Detected NS = Not Specified

C-3-2

Statistics include only detected concentrations.

* Pairs for which one or both of the results were below the RL or not detected are excluded from evaluation.

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Parameter	Number of Pairs	No. of Pairs Assessed*	Range of RPDs (%)	Above Accept	Acceptance RPD (%)
1,2,4-Trimethylbenzene	1	1	NC - 0.00	0	20
1,2-Dibromo-3-chloropropane	1	1	NC - 1.50	0	20
1,2-Dibromoethane	1	1	NC - 0.499	0	20
1,2-Dichlorobenzene	1	1	NC - 1.54	0	20
1,2-Dichloroethane	1	1	NC - 0.00	0	20
1,2-Dichloropropane	1	1	NC - 0.985	0	20
1,3,5-Trimethylbenzene	1	1	NC - 1.03	0	20
1,3-Dichlorobenzene	1	1	NC - 0.00	0	20
1,3-Dichloropropane	1	1	NC - 0.506	0	20
1,4-Dichlorobenzene	1	1	NC - 0.00	0	20
1-Chlorohexane	1	1	NC - 2.08	0	20
2,2-Dichloropropane	1	1	NC - 2.57	0	20
2-Butanone(MEK)	1	1	NC - 0.471	0	20
2-Chlorotoluene	1	1	NC - 3.44	0	20
4-Chlorotoluene	1	1	NC - 1.66	0	20
Acetone	1	1	NC - 1.31	0	20
Benzene	1	1	NC - 1.50	0	20
Bromobenzene	1	1	NC - 0.504	0	20
Bromochloromethane	1	1	NC - 0.913	0	20
Bromodichloromethane	1	1	NC - 0.922	0	20
Bromoform	1	1	NC - 2.53	0	20
Bromomethane	1	1	NC - 0.901	0	20
Carbon tetrachloride	1	1	NC - 0.487	0	20
Chlorobenzene	1	1	NC - 1.02	0	20
Chloroethane	1	1	NC - 0.00	0	20
Chloroform	1	1	NC - 0.494	0	20
Chloromethane	1	1	NC - 0.506	0	20
Dibromochloromethane	1	1	NC - 0.966	0	20
Dibromomethane	1	1	NC - 1.87	0	20
Dichlorodifluoromethane	1	1	NC - 1.94	0	20
Ethylbenzene	1	1	NC - 1.50	0	20
Hexachlorobutadiene	1	1	NC - 0.542	0	20
Isopropylbenzene	1	1	NC - 0.567	0	20
Methyl isobutyl ketone (MIBK)	1	1	NC - 1.01	0	20
Methyl t-butyl ether	1	1	NC - 0.454	0	20
Methylene chloride	1	1	NC - 0.00	0	20
Naphthalene	1	1	NC - 2.52	0	20
Styrene	1	1	NC - 0.00	0	20
Tert-Butyl alcohol	1	1	NC - 6.65	0	20
Tetrachloroethene	1	1	NC - 3.13	0	20
Toluene	1	1	NC - 1.53	0	20
Trichloroethene	1	1	NC - 0.00	0	20
Trichlorofluoromethane	1	1	NC - 0.514	0	20
Vinyl chloride	1	1	NC - 2.38	0	20
cis-1,2-Dichloroethene	1	1	NC - 0.971	0	20
cis-1,3-Dichloropropene	1	1	NC - 0.957	0	20
m&p-Xylene	1	1	NC - 1.52	0	20
n-Butylbenzene	1	1	NC - 0.528	0	20

Compiled: 09/03/09

NC = Not Calculable ND = Not Detected NS = Not Specified

C-3-3

Statistics include only detected concentrations.

* Pairs for which one or both of the results were below the RL or not detected are excluded from evaluation.

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Parameter	Number of Pairs	No. of Pairs Assessed*	Range of RPDs (%)	Above Accept	Acceptance RPD (%)
n-Propylbenzene	1	1	NC - 1.53	0	20
o-Xylene	1	1	NC - 0.499	0	20
p-Isopropyltoluene	1	1	NC - 1.57	0	20
sec-Butylbenzene	1	1	NC - 0.514	0	20
tert-Butylbenzene	1	1	NC - 1.52	0	20
trans-1,2-Dichloroethene	1	1	NC - 1.85	0	20
trans-1,3-Dichloropropene	1	1	NC - 0.00	0	20

Method: SW8260B - Volatile Organic Compounds

Type of Duplicate : Matrix Spike Duplicate

1,1,1,2-Tetrachloroethane	1	1	NC - 0.519	0	20
1,1,1-Trichloroethane	1	1	NC - 2.08	0	20
1,1,2,2-Tetrachloroethane	1	1	NC - 3.28	0	20
1,1,2-Trichloroethane	1	1	NC - 1.99	0	20
1,1-Dichloroethane	1	1	NC - 1.08	0	20
1,1-Dichloroethene	1	1	NC - 3.33	0	20
1,1-Dichloropropene	1	1	NC - 1.05	0	20
1,2,3-Trichlorobenzene	1	1	NC - 0.00	0	20
1,2,3-Trichloropropane	1	1	NC - 9.29	0	20
1,2,4-Trichlorobenzene	1	1	NC - 3.49	0	20
1,2,4-Trimethylbenzene	1	1	NC - 3.16	0	20
1,2-Dibromo-3-chloropropane	1	1	NC - 7.53	0	20
1,2-Dibromoethane	1	1	NC - 2.03	0	20
1,2-Dichlorobenzene	1	1	NC - 0.514	0	20
1,2-Dichloroethane	1	1	NC - 1.12	0	20
1,2-Dichloropropane	1	1	NC - 1.51	0	20
1,3,5-Trimethylbenzene	1	1	NC - 1.56	0	20
1,3-Dichlorobenzene	1	1	NC - 1.05	0	20
1,3-Dichloropropane	1	1	NC - 0.00	0	20
1,4-Dichlorobenzene	1	1	NC - 1.56	0	20
1-Chlorohexane	1	1	NC - 1.06	0	20
2,2-Dichloropropane	1	1	NC - 0.00	0	20
2-Butanone(MEK)	1	1	NC - 10.87	0	20
2-Chlorotoluene	1	1	NC - 3.62	0	20
4-Chlorotoluene	1	1	NC - 2.12	0	20
Acetone	1	1	NC - 23.88	1	20
Benzene	1	1	NC - 0.519	0	20
Bromobenzene	1	1	NC - 0.496	0	20
Bromochloromethane	1	1	NC - 0.499	0	20
Bromodichloromethane	1	1	NC - 0.494	0	20
Bromoform	1	1	NC - 2.02	0	20
Bromomethane	1	1	NC - 6.90	0	20
Carbon tetrachloride	1	1	NC - 2.02	0	20
Chlorobenzene	1	1	NC - 0.525	0	20
Chloroethane	1	1	NC - 0.504	0	20
Chloroform	1	1	NC - 4.12	0	20
Chloromethane	1	1	NC - 0.962	0	20

Compiled: 09/03/09

NC = Not Calculable ND = Not Detected NS = Not Specified

C-3-4

Statistics include only detected concentrations.

* Pairs for which one or both of the results were below the RL or not detected are excluded from evaluation.

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Parameter	Number of Pairs	No. of Pairs Assessed*	Range of RPDs (%)	Above Accept	Acceptance RPD (%)
Dibromochloromethane	1	1	NC - 0.482	0	20
Dibromomethane	1	1	NC - 0.496	0	20
Dichlorodifluoromethane	1	1	NC - 8.20	0	20
Ethylbenzene	1	1	NC - 2.62	0	20
Hexachlorobutadiene	1	1	NC - 1.44	0	20
Isopropylbenzene	1	1	NC - 2.27	0	20
Methyl isobutyl ketone (MIBK)	1	1	NC - 3.73	0	20
Methyl t-butyl ether	1	1	NC - 4.26	0	20
Methylene chloride	1	1	NC - 4.37	0	20
Naphthalene	1	1	NC - 1.37	0	20
Styrene	1	1	NC - 1.50	0	20
Tert-Butyl alcohol	1	1	NC - 9.11	0	20
Tetrachloroethene	1	1	NC - 1.98	0	20
Toluene	1	1	NC - 1.53	0	20
Trichloroethene	1	1	NC - 0.504	0	20
Trichlorofluoromethane	1	1	NC - 3.37	0	20
Vinyl chloride	1	1	NC - 2.21	0	20
cis-1,2-Dichloroethene	1	1	NC - 2.04	0	20
cis-1,3-Dichloropropene	1	1	NC - 0.517	0	20
m&p-Xylene	1	1	NC - 1.77	0	20
n-Butylbenzene	1	1	NC - 5.22	0	20
n-Propylbenzene	1	1	NC - 0.514	0	20
o-Xylene	1	1	NC - 2.47	0	20
p-Isopropyltoluene	1	1	NC - 3.00	0	20
sec-Butylbenzene	1	1	NC - 0.509	0	20
tert-Butylbenzene	1	1	NC - 0.533	0	20
trans-1,2-Dichloroethene	1	1	NC - 1.45	0	20
trans-1,3-Dichloropropene	1	1	NC - 4.28	0	20

Attachment D
Detailed QC Results

Attachment D Table of Contents

Table D-1	Detailed Listing of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - August 2009
Table D-2	Detailed Listing of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - August 2009
Table D-3	Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - August 2009

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8011 - Ethylene Dibromide Analyte : 1,2-Dibromoethane Type of Blank : Equipment Blank								
12-AUG-09	WG-B760-MW07R-065	WG309430	WG309430	ND	0.00693	0.0198	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8011 - Ethylene Dibromide Analyte : 1,2-Dibromoethane Type of Blank : Method Blank								
11-AUG-09	BLANK-309430-01	WG309430	WG309430	ND	0.00700	0.0200	ug/L	1
12-AUG-09	BLANK-309646-01	WG309646	WG309646	ND	0.00700	0.0200	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8011 - Ethylene Dibromide Analyte : 1,2-Dibromoethane Type of Blank : Trip Blank								
12-AUG-09	WQ-ST035-AUG0902	WG309430	WG309430	ND	0.00657	0.0188	ug/L	1
12-AUG-09	WQ-ST035-AUG0901	WG309430	WG309430	ND	0.00656	0.0188	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1,2-Tetrachloroethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1,2-Tetrachloroethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	0.500	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	0.500	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	0.500	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	0.500	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	0.500	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1,2-Tetrachloroethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	0.500	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1-Trichloroethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1-Trichloroethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1

Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
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Method : SW8260B - Volatile Organic Compounds
 Analyte : 1,1,1-Trichloroethane
 Type of Blank : Method Blank

Number of Blanks = 5
 Number above Sample DL = 0

Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : 1,1,1-Trichloroethane
 Type of Blank : Trip Blank

07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1

Number of Blanks = 2
 Number above Sample DL = 0

Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : 1,1,2,2-Tetrachloroethane
 Type of Blank : Equipment Blank

07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.125	0.500	ug/L	1
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Number of Blanks = 1
 Number above Sample DL = 0

Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : 1,1,2,2-Tetrachloroethane
 Type of Blank : Method Blank

07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.125	0.500	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.125	0.500	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.125	0.500	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.125	0.500	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.125	0.500	ug/L	1

Number of Blanks = 5
 Number above Sample DL = 0

Concentration Range: NC
 Number above Sample RL = 0

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2,2-Tetrachloroethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.125	0.500	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.125	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2-Trichloroethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2-Trichloroethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2-Trichloroethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.500	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.500	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.500	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.500	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.500	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.500	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloropropene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloropropene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1

Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloropropene Type of Blank : Method Blank								
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloropropene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichlorobenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.150	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichlorobenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.150	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.150	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	0.192	0.150	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.150	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.150	1.00	ug/L	1
Number of Blanks = 5				Concentration Range:		0.192 - 0.192		
Number above Sample DL = 1				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichlorobenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.150	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.150	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichloropropane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichloropropane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.500	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.500	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.500	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.500	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.500	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichloropropane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.500	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
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Method : SW8260B - Volatile Organic Compounds
 Analyte : 1,2,4-Trichlorobenzene
 Type of Blank : Equipment Blank

07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.200	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds
 Analyte : 1,2,4-Trichlorobenzene
 Type of Blank : Method Blank

07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.200	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.200	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.200	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.200	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.200	1.00	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds
 Analyte : 1,2,4-Trichlorobenzene
 Type of Blank : Trip Blank

07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.200	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.200	1.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds
 Analyte : 1,2,4-Trimethylbenzene
 Type of Blank : Equipment Blank

07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trimethylbenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trimethylbenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromo-3-chloropropane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	1.00	2.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromo-3-chloropropane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	1.00	2.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	1.00	2.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	1.00	2.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	1.00	2.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	1.00	2.00	ug/L	1

Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromo-3-chloropropane Type of Blank : Method Blank								
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromo-3-chloropropane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	1.00	2.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	1.00	2.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromoethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromoethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromoethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichlorobenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichlorobenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichlorobenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloroethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloroethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	0.500	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	0.500	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	0.500	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	0.500	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	0.500	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloroethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	0.500	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloropropane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.200	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloropropane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.200	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.200	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.200	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.200	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.200	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC		
				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloropropane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.200	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.200	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC		
				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,3,5-Trimethylbenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC		
				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,3,5-Trimethylbenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1

Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3,5-Trimethylbenzene Type of Blank : Method Blank								
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,3,5-Trimethylbenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichlorobenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichlorobenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichlorobenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichloropropane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.200	0.400	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichloropropane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.200	0.400	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.200	0.400	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.200	0.400	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.200	0.400	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.200	0.400	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichloropropane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.200	0.400	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.200	0.400	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,4-Dichlorobenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.125	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,4-Dichlorobenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.125	0.500	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.125	0.500	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.125	0.500	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.125	0.500	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.125	0.500	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,4-Dichlorobenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.125	0.500	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.125	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1-Chlorohexane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds								
Analyte : 1-Chlorohexane								
Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds								
Analyte : 1-Chlorohexane								
Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds								
Analyte : 2,2-Dichloropropane								
Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds								
Analyte : 2,2-Dichloropropane								
Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1

Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 2,2-Dichloropropane Type of Blank : Method Blank								
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 2,2-Dichloropropane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 2-Butanone(MEK) Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	2.50	10	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 2-Butanone(MEK) Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	2.50	10	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	2.50	10	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	2.50	10	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	2.50	10	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	2.50	10	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 2-Butanone(MEK) Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	2.50	10	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	2.50	10	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 2-Chlorotoluene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 2-Chlorotoluene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : 2-Chlorotoluene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 4-Chlorotoluene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 4-Chlorotoluene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 4-Chlorotoluene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Acetone Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	2.50	10	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds								
Analyte : Acetone								
Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	2.50	10	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	2.50	10	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	2.50	10	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	2.50	10	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	2.50	10	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL =		0		

Method : SW8260B - Volatile Organic Compounds								
Analyte : Acetone								
Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	2.50	10	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	2.50	10	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL =		0		

Method : SW8260B - Volatile Organic Compounds								
Analyte : Benzene								
Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.125	0.400	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL =		0		

Method : SW8260B - Volatile Organic Compounds								
Analyte : Benzene								
Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.125	0.400	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.125	0.400	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.125	0.400	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.125	0.400	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.125	0.400	ug/L	1

Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Benzene Type of Blank : Method Blank								
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Benzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.125	0.400	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.125	0.400	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Bromobenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.125	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Bromobenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Bromobenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Bromochloromethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.200	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Bromochloromethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.200	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.200	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.200	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.200	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.200	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Bromochloromethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.200	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.200	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Bromodichloromethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Bromodichloromethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	0.500	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	0.500	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	0.500	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	0.500	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	0.500	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Bromodichloromethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	0.500	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Bromoform Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Bromoform Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.500	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.500	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.500	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.500	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.500	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Bromoform Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.500	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Bromomethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.500	3.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Bromomethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.500	3.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.500	3.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.500	3.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.500	3.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.500	3.00	ug/L	1

Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Bromomethane Type of Blank : Method Blank								
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Bromomethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.500	3.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.500	3.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Carbon tetrachloride Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Carbon tetrachloride Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Carbon tetrachloride Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Chlorobenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.125	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Chlorobenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.125	0.500	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.125	0.500	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.125	0.500	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.125	0.500	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.125	0.500	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Chlorobenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.125	0.500	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.125	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.500	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.500	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.500	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.500	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.500	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.500	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroform Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.125	0.300	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroform Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.125	0.300	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.125	0.300	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.125	0.300	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.125	0.300	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.125	0.300	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroform Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.125	0.300	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.125	0.300	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloromethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloromethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Chloromethane Type of Blank : Method Blank								
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloromethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromochloromethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	0.500	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromochloromethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	0.500	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	0.500	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	0.500	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	0.500	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	0.500	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
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Method : SW8260B - Volatile Organic Compounds
 Analyte : Dibromochloromethane
 Type of Blank : Trip Blank

07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	0.500	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	0.500	ug/L	1

Number of Blanks = 2
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : Dibromomethane
 Type of Blank : Equipment Blank

07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
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Number of Blanks = 1
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : Dibromomethane
 Type of Blank : Method Blank

07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1

Number of Blanks = 5
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : Dibromomethane
 Type of Blank : Trip Blank

07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1

Number of Blanks = 2
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Dichlorodifluoromethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Dichlorodifluoromethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Dichlorodifluoromethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Ethylbenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Ethylbenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Ethylbenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Hexachlorobutadiene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	0.600	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Hexachlorobutadiene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	0.600	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	0.600	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	0.454	0.250	0.600	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	0.600	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	0.600	ug/L	1

Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Hexachlorobutadiene Type of Blank : Method Blank								
Number of Blanks = 5				Concentration Range: 0.454 - 0.454				
Number above Sample DL = 1				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Hexachlorobutadiene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	0.600	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	0.600	ug/L	1
Number of Blanks = 2				Concentration Range: NC				
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Isopropylbenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1				Concentration Range: NC				
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Isopropylbenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5				Concentration Range: NC				
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Isopropylbenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl isobutyl ketone (MIBK) Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	2.50	10	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl isobutyl ketone (MIBK) Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	2.50	10	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	2.50	10	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	2.50	10	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	2.50	10	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	2.50	10	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl isobutyl ketone (MIBK) Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	2.50	10	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	2.50	10	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
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Method : SW8260B - Volatile Organic Compounds
 Analyte : Methyl t-butyl ether
 Type of Blank : Equipment Blank

07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.500	5.00	ug/L	1
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Number of Blanks = 1
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : Methyl t-butyl ether
 Type of Blank : Method Blank

07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.500	5.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.500	5.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.500	5.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.500	5.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.500	5.00	ug/L	1

Number of Blanks = 5
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : Methyl t-butyl ether
 Type of Blank : Trip Blank

07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.500	5.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.500	5.00	ug/L	1

Number of Blanks = 2
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : Methylene chloride
 Type of Blank : Equipment Blank

07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	0.255	0.250	1.00	ug/L	1
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Number of Blanks = 1
 Number above Sample DL = 1
 Concentration Range: 0.255 - 0.255
 Number above Sample RL = 0

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Methylene chloride Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	0.291	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	0.370	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	0.436	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	0.446	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 4					Concentration Range: 0.291 - 0.446 Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Methylene chloride Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	0.868	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	0.859	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 2					Concentration Range: 0.859 - 0.868 Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Naphthalene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.200	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Naphthalene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.200	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.200	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.200	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.200	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.200	1.00	ug/L	1

Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Naphthalene Type of Blank : Method Blank								
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Naphthalene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.200	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.200	1.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Styrene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.125	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Styrene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Styrene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Tert-Butyl alcohol Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	50	100	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Tert-Butyl alcohol Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	50	100	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	50	100	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	50	100	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	50	100	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	50	100	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Tert-Butyl alcohol Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	50	100	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	50	100	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Tetrachloroethene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Tetrachloroethene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Tetrachloroethene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Toluene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Toluene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC		
				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Toluene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC		
				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Trichloroethene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC		
				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Trichloroethene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1

Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Trichloroethene Type of Blank : Method Blank								
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Trichloroethene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Trichlorofluoromethane Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : Trichlorofluoromethane Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Trichlorofluoromethane Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Vinyl chloride Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Vinyl chloride Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Vinyl chloride Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,2-Dichloroethene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,2-Dichloroethene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,2-Dichloroethene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,3-Dichloropropene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,3-Dichloropropene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	0.500	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	0.500	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	0.500	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	0.500	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	0.500	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,3-Dichloropropene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	0.500	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : m&p-Xylene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.500	2.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : m&p-Xylene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.500	2.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.500	2.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.500	2.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.500	2.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.500	2.00	ug/L	1

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : m&p-Xylene Type of Blank : Method Blank								
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : m&p-Xylene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.500	2.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.500	2.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : n-Butylbenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : n-Butylbenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : n-Butylbenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : n-Propylbenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : n-Propylbenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.125	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.125	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : n-Propylbenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.125	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : o-Xylene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : o-Xylene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : o-Xylene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : p-Isopropyltoluene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : p-Isopropyltoluene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : p-Isopropyltoluene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : sec-Butylbenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : sec-Butylbenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1

Compiled: 08/26/09

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : sec-Butylbenzene Type of Blank : Method Blank								
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : sec-Butylbenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : tert-Butylbenzene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : tert-Butylbenzene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5				Concentration Range:		NC		
Number above Sample DL = 0				Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : tert-Butylbenzene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,2-Dichloroethene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,2-Dichloroethene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.250	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.250	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,2-Dichloroethene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.250	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,3-Dichloropropene Type of Blank : Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,3-Dichloropropene Type of Blank : Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	ND	0.500	1.00	ug/L	1
07-AUG-09	BLANK-309200-04	WG309200	WG309200	ND	0.500	1.00	ug/L	1
07-AUG-09	BLANK-309200-01	WG309200	WG309200	ND	0.500	1.00	ug/L	1
10-AUG-09	BLANK-309327-01	WG309327	WG309327	ND	0.500	1.00	ug/L	1
10-AUG-09	BLANK-309327-06	WG309327	WG309327	ND	0.500	1.00	ug/L	1
Number of Blanks = 5 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,3-Dichloropropene Type of Blank : Trip Blank								
07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	ND	0.500	1.00	ug/L	1
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromoethane
 Type of Spike : Laboratory Control

11-AUG-09	LCS-309430-02	WG309430	WG309430	NA	0.114	0.127	ug/L	112
12-AUG-09	LCS-309646-02	WG309646	WG309646	NA	0.114	0.110	ug/L	96
12-AUG-09	LCS2-309646-03	WG309646	WG309646	NA	0.114	0.123	ug/L	108

Number of Spikes = 3
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 80-120

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromoethane
 Type of Spike : Matrix Spike

12-AUG-09	WG-B760-MW08R-063	WG309430	WG309430	ND	0.108	0.115	ug/L	107
12-AUG-09	WG-B760-MW08R-063	WG309430	WG309430	ND	0.109	0.138	ug/L	128

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 1
 Acceptance Criteria = 80-120

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Equipment Blank

12-AUG-09	WG-B760-MW07R-065	WG309430	WG309430	NA	2.50	0.165	ug/L	117
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-120

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Field Duplicate

12-AUG-09	WG-B760-MW11-061	WG309430	WG309430	NA	2.50	0.141	ug/L	104
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-120

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Field Duplicate, cont.

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Laboratory Control

11-AUG-09	LCS-309430-02	WG309430	WG309430	NA	2.50	0.167	ug/L	117
12-AUG-09	LCS-309646-02	WG309646	WG309646	NA	2.50	0.164	ug/L	115
12-AUG-09	LCS2-309646-03	WG309646	WG309646	NA	2.50	0.150	ug/L	105

Number of Spikes = 3
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-120

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Matrix Spike

12-AUG-09	WG-B760-MW08R-063	WG309430	WG309430	NA	2.50	0.174	ug/L	129
12-AUG-09	WG-B760-MW08R-063	WG309430	WG309430	NA	2.50	0.199	ug/L	146

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 2
 Acceptance Criteria = 70-120

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Method Blank

11-AUG-09	BLANK-309430-01	WG309430	WG309430	NA	2.50	0.155	ug/L	108
12-AUG-09	BLANK-309646-01	WG309646	WG309646	NA	2.50	0.158	ug/L	111

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-120

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8011 - Ethylene Dibromide

Spiked Analyte : 1,2-Dibromopropane

Type of Spike : Surrogate - Normal Sample

12-AUG-09	WG-B760-MW08R-063	WG309430	WG309430	NA	2.50	0.152	ug/L	113
12-AUG-09	WG-B760-MW09-060	WG309430	WG309430	NA	2.50	0.133	ug/L	99
12-AUG-09	WG-B760-MW10-060	WG309430	WG309430	NA	2.50	0.122	ug/L	91
12-AUG-09	WG-B760-MW11-060	WG309430	WG309430	NA	2.50	0.132	ug/L	95
12-AUG-09	WG-B760-MW12-060	WG309430	WG309430	NA	2.50	0.119	ug/L	88
13-AUG-09	WG-B760-MW07R-060	WG309430	WG309430	NA	2.50	0.123	ug/L	93
12-AUG-09	WG-B760-MW06R-060	WG309646	WG309646	NA	2.50	0.110	ug/L	76
12-AUG-09	WG-B760-MW13-060	WG309646	WG309646	NA	2.50	0.105	ug/L	76

Number of Spikes = 8

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-120

Method : SW8011 - Ethylene Dibromide

Spiked Analyte : 1,2-Dibromopropane

Type of Spike : Surrogate - Trip Blank

12-AUG-09	WQ-ST035-AUG0901	WG309430	WG309430	NA	2.50	0.149	ug/L	112
12-AUG-09	WQ-ST035-AUG0902	WG309430	WG309430	NA	2.50	0.139	ug/L	104

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-120

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1,1,2-Tetrachloroethane

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	104
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	101
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	100
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	101

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-129

Date Compiled: 09/29/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,1,2-Tetrachloroethane
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	97
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	96

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-129

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,1-Trichloroethane
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	104
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	21	ug/L	103
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	102
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	100

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 67-132

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,1-Trichloroethane
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	95
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	97

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 67-132

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,2,2-Tetrachloroethane
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	20	ug/L	99
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	98
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	99

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,1,2,2-Tetrachloroethane								
Type of Spike : Laboratory Control, cont.								
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	98
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		63-128		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,1,2,2-Tetrachloroethane								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	90
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	93
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		63-128		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,1,2-Trichloroethane								
Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	104
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	21	ug/L	103
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	21	ug/L	104
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	21	ug/L	103
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		75-125		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,1,2-Trichloroethane								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	101
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation. D-2-5

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1,2-Trichloroethane

Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 75-125

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1-Dichloroethane

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	20	ug/L	101
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	101
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	100
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	97

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-133

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1-Dichloroethane

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	93
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	94

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-133

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1-Dichloroethene

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	20	ug/L	98
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	100
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	99
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	94

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1-Dichloroethene

Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 68-130

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1-Dichloroethene

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	89
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	91

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 68-130

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1-Dichloropropene

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	20	ug/L	102
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	98
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	97
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	95

Number of Spikes = 4

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 73-132

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1-Dichloropropene

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	95
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	96

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 73-132

Date Compiled: 09/29/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

D-2-7

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2,3-Trichlorobenzene								
Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	23	ug/L	115
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	19	ug/L	97
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	98
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	98
Number of Spikes = 4					Number Below acceptance = 0			
					Number Above acceptance = 0			
					Acceptance Criteria = 67-137			

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2,3-Trichlorobenzene								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	22	ug/L	108
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	22	ug/L	108
Number of Spikes = 2					Number Below acceptance = 0			
					Number Above acceptance = 0			
					Acceptance Criteria = 67-137			

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2,3-Trichloropropane								
Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	104
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	99
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	21	ug/L	103
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	99
Number of Spikes = 4					Number Below acceptance = 0			
					Number Above acceptance = 0			
					Acceptance Criteria = 73-124			

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,3-Trichloropropane
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	97
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	21	ug/L	107

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-124

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,4-Trichlorobenzene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	105
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	19	ug/L	93
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	94
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	95

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-134

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,4-Trichlorobenzene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	102
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	99

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-134

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,4-Trimethylbenzene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	103
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	19	ug/L	97
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	97

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2,4-Trimethylbenzene								
Type of Spike : Laboratory Control, cont.								
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	102
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		74-132		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2,4-Trimethylbenzene								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	97
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	94
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		74-132		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dibromo-3-chloropropane								
Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	20	ug/L	102
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	99
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	101
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	99
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		50-132		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dibromo-3-chloropropane								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	90
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	96
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dibromo-3-chloropropane

Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 50-132

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dibromoethane

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	103
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	100
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	100
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	100

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 80-121

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dibromoethane

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	97
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 80-121

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dichlorobenzene

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	103
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	19	ug/L	97
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	98
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	99

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichlorobenzene
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 71-122

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichlorobenzene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	97
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	97

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 71-122

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	19	ug/L	96
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	100
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	100
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	96

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-132

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	9.00	20	27	ug/L	89
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	9.00	20	27	ug/L	90

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-132

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloropropane
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	103
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	101
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	102
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	97

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 75-125

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloropropane
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	98
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 75-125

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,3,5-Trimethylbenzene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	105
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	98
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	97
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	101

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 74-131

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3,5-Trimethylbenzene

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	97
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	96

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 74-131

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3-Dichlorobenzene

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	103
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	19	ug/L	96
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	97
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	99

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 75-124

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3-Dichlorobenzene

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	96
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	95

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 75-124

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3-Dichloropropane

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	105
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	99
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	99

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,3-Dichloropropane
 Type of Spike : Laboratory Control, cont.

10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	99
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Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-126

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,3-Dichloropropane
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	99

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-126

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,4-Dichlorobenzene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	103
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	19	ug/L	93
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	94
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	96

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 74-123

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,4-Dichlorobenzene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	97
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	96

Number of Spikes = 2
 Number Below acceptance = 0

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,4-Dichlorobenzene
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 74-123

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1-Chlorohexane
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	104
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	19	ug/L	97
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	95
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	98

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-125

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1-Chlorohexane
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	93
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	95

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-125

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 2,2-Dichloropropane
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	20	ug/L	99
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	98
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	96
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	93

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds Spiked Analyte : 2,2-Dichloropropane Type of Spike : Laboratory Control, cont.								
					Acceptance Criteria	=	69-137	

Method : SW8260B - Volatile Organic Compounds Spiked Analyte : 2,2-Dichloropropane Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	91
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	92
Number of Spikes					=	2		
					Number Below acceptance	=	0	
					Number Above acceptance	=	0	
					Acceptance Criteria	=	69-137	

Method : SW8260B - Volatile Organic Compounds Spiked Analyte : 2-Butanone(MEK) Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	18	ug/L	89
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	21	ug/L	106
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	21	ug/L	106
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	95
Number of Spikes					=	4		
					Number Below acceptance	=	0	
					Number Above acceptance	=	0	
					Acceptance Criteria	=	49-136	

Method : SW8260B - Volatile Organic Compounds Spiked Analyte : 2-Butanone(MEK) Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	22	ug/L	111
Number of Spikes					=	2		
					Number Below acceptance	=	0	
					Number Above acceptance	=	0	
					Acceptance Criteria	=	49-136	

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 2-Chlorotoluene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	20	ug/L	101
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	21	ug/L	103
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	100
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	21	ug/L	107

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-126

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 2-Chlorotoluene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	99
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	95

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-126

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Chlorotoluene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	103
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	18	ug/L	90
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	18	ug/L	91
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	94

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 74-128

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 4-Chlorotoluene								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	94
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	96
Number of Spikes = 2				Number Below acceptance = 0		Number Above acceptance = 0		Acceptance Criteria = 74-128

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Acetone								
Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	23	ug/L	117
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	23	ug/L	113
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	23	ug/L	115
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	21	ug/L	106
Number of Spikes = 4				Number Below acceptance = 0		Number Above acceptance = 0		Acceptance Criteria = 40-135

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Acetone								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	89
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	23	ug/L	113
Number of Spikes = 2				Number Below acceptance = 0		Number Above acceptance = 0		Acceptance Criteria = 40-135

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Benzene								
Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	20	ug/L	102
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	101
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	99

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Benzene								
Type of Spike : Laboratory Control, cont.								
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	96
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		81-122		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Benzene								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	0.355	20	19	ug/L	94
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	0.355	20	19	ug/L	95
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		81-122		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromobenzene								
Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	106
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	99
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	99
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	102
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		76-124		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromobenzene								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	101
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Bromobenzene
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 76-124

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Bromochloromethane
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	106
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	22	ug/L	110
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	22	ug/L	109
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	21	ug/L	104

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 65-129

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Bromochloromethane
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 65-129

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Bromodichloromethane
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	104
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	22	ug/L	108
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	22	ug/L	109
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	21	ug/L	103

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Bromodichloromethane

Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 76-121

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Bromodichloromethane

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	102
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	101

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 76-121

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Bromoform

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	103
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	98
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	100
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	98

Number of Spikes = 4

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 69-128

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Bromoform

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	98
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 69-128

Date Compiled: 09/29/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

D-2-22

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Bromomethane

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	25	ug/L	125
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	22	ug/L	112
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	22	ug/L	111
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	21	ug/L	104

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 30-141

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Bromomethane

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	22	ug/L	112
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	24	ug/L	120

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 30-141

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Carbon tetrachloride

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	20	ug/L	98
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	21	ug/L	103
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	21	ug/L	103
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	100

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-138

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Carbon tetrachloride								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	98
Number of Spikes = 2					Number Below acceptance = 0			
					Number Above acceptance = 0			
					Acceptance Criteria = 66-138			

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Chlorobenzene								
Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	103
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	99
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	98
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	99
Number of Spikes = 4					Number Below acceptance = 0			
					Number Above acceptance = 0			
					Acceptance Criteria = 81-122			

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Chlorobenzene								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	95
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	95
Number of Spikes = 2					Number Below acceptance = 0			
					Number Above acceptance = 0			
					Acceptance Criteria = 81-122			

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Chloroethane								
Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	22	ug/L	109
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	21	ug/L	107
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	21	ug/L	107

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported D0 = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Chloroethane								
Type of Spike : Laboratory Control, cont.								
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	100
Number of Spikes		= 4		Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria		= 58-133		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Chloroethane								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	99
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	99
Number of Spikes		= 2		Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria		= 58-133		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Chloroform								
Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	105
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	101
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	101
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	97
Number of Spikes		= 4		Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria		= 69-128		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Chloroform								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	99
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	95
Number of Spikes		= 2		Number Below acceptance =		0		

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Chloroform
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 69-128

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Chloromethane
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	22	ug/L	111
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	99
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	98
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	93

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 56-131

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Chloromethane
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	21	ug/L	104
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	21	ug/L	104

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 56-131

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromochloromethane
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	107
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	21	ug/L	103
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	21	ug/L	104
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	21	ug/L	103

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromochloromethane
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 66-133

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromochloromethane
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	21	ug/L	104
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	21	ug/L	104

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-133

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromomethane
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	104
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	21	ug/L	106
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	22	ug/L	108
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	21	ug/L	103

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-125

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromomethane
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	101
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	101

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-125

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Dichlorodifluoromethane

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	26	ug/L	129
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	31	ug/L	156
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	31	ug/L	153
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	29	ug/L	143

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 1
 Acceptance Criteria = 30-153

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Dichlorodifluoromethane

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	23	ug/L	117
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	25	ug/L	127

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 30-153

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Ethylbenzene

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	103
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	101
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	99
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	102

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-127

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Ethylbenzene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	97
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	94

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-127

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Hexachlorobutadiene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	23	ug/L	114
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	19	ug/L	93
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	18	ug/L	92
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	97

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 67-131

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Hexachlorobutadiene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	21	ug/L	105
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	21	ug/L	104

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 67-131

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Isopropylbenzene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	19	ug/L	93
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	18	ug/L	89
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	18	ug/L	88

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Isopropylbenzene
 Type of Spike : Laboratory Control, cont.

10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	18	ug/L	89
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		75-127		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Isopropylbenzene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	89
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	17	ug/L	87
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		75-127		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methyl isobutyl ketone (MIBK)
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	20	ug/L	98
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	99
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	100
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	18	ug/L	88
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		58-134		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methyl isobutyl ketone (MIBK)
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	92
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	95
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methyl isobutyl ketone (MIBK)
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 58-134

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methyl t-butyl ether
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	103
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	22	ug/L	110
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	22	ug/L	110
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	100

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 65-123

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methyl t-butyl ether
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	3.61	20	23	ug/L	97
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	3.61	20	24	ug/L	102

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 65-123

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methylene chloride
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	20	ug/L	99
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	98
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	98
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	92

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methylene chloride
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 63-137

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methylene chloride
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	90
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	94

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 63-137

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Naphthalene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	23	ug/L	115
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	98
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	100
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	100

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 54-138

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Naphthalene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	22	ug/L	109
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	22	ug/L	110

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 54-138

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Styrene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	106
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	101
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	101
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	102

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 65-134

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Styrene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	99

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 65-134

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Tert-Butyl alcohol
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	200	204	ug/L	102
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	200	189	ug/L	94
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	200	202	ug/L	101
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	200	161	ug/L	81

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 50-150

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Tert-Butyl alcohol

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	77	200	262	ug/L	93
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	77	200	287	ug/L	105

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 50-150

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Tetrachloroethene

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	22	ug/L	109
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	97
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	95
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	99

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-128

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Tetrachloroethene

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	102
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-128

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Toluene

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	106
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	99
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	97

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene
 Type of Spike : Laboratory Control, cont.

10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	100
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		77-122		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	99
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	98
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		77-122		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Trichloroethene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	107
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	21	ug/L	106
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	21	ug/L	107
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	21	ug/L	103
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		70-127		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Trichloroethene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	99
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Trichloroethene

Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 70-127

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Trichlorofluoromethane

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	19	ug/L	95
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	97
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	97
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	93

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 57-129

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Trichlorofluoromethane

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	87
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	90

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 57-129

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Vinyl chloride

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	24	ug/L	118
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	21	ug/L	106
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	21	ug/L	104
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	101

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Vinyl chloride

Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 50-134

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Vinyl chloride

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	22	ug/L	112
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	23	ug/L	115

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 50-134

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : cis-1,2-Dichloroethene

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	106
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	21	ug/L	104
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	21	ug/L	102
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	98

Number of Spikes = 4

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 72-126

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : cis-1,2-Dichloroethene

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	97
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	99

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 72-126

Date Compiled: 09/29/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

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Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : cis-1,3-Dichloropropene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	20	ug/L	102
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	21	ug/L	105
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	21	ug/L	104
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	99

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-131

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : cis-1,3-Dichloropropene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	97
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	96

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-131

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : m&p-Xylene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	40	42	ug/L	106
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	40	40	ug/L	100
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	40	39	ug/L	98
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	40	40	ug/L	101

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-128

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : m&p-Xylene								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	40	40	ug/L	99
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	40	39	ug/L	98
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 76-128				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : n-Butylbenzene								
Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	19	ug/L	94
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	19	ug/L	95
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	94
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	100
Number of Spikes = 4				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 69-137				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : n-Butylbenzene								
Type of Spike : Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	18	ug/L	89
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	17	ug/L	84
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 69-137				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : n-Propylbenzene								
Type of Spike : Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	106
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	99
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	97

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : n-Propylbenzene
 Type of Spike : Laboratory Control, cont.

10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	21	ug/L	103
Number of Spikes = 4				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 72-129				

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : n-Propylbenzene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	97
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	98
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 72-129				

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : o-Xylene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	22	ug/L	108
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	101
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	100
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	100
Number of Spikes = 4				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 80-121				

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : o-Xylene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	21	ug/L	102
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	20	ug/L	100
Number of Spikes = 2				Number Below acceptance = 0				

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : o-Xylene

Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 80-121

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : p-Isopropyltoluene

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	18	ug/L	91
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	19	ug/L	96
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	95
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	20	ug/L	98

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-130

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : p-Isopropyltoluene

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	17	ug/L	85
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	16	ug/L	82

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-130

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : sec-Butylbenzene

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	102
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	98
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	19	ug/L	97
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	21	ug/L	103

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : sec-Butylbenzene
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 72-127

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : sec-Butylbenzene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	0.809	20	20	ug/L	94
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	0.809	20	20	ug/L	94

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-127

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : tert-Butylbenzene
 Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	21	ug/L	105
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	20	ug/L	100
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	20	ug/L	98
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	21	ug/L	102

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-129

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : tert-Butylbenzene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	94
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	19	ug/L	94

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-129

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : trans-1,2-Dichloroethene

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	23	ug/L	113
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	22	ug/L	109
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	21	ug/L	107
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	19	ug/L	97

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 63-137

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : trans-1,2-Dichloroethene

Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	21	ug/L	104
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	21	ug/L	103

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 63-137

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : trans-1,3-Dichloropropene

Type of Spike : Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	20	18	ug/L	88
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	20	18	ug/L	88
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	20	18	ug/L	88
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	20	17	ug/L	87

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 59-135

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : trans-1,3-Dichloropropene
 Type of Spike : Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	16	ug/L	80
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	ND	20	17	ug/L	84

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 59-135

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Equipment Blank

07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	NA	25	23	ug/L	90
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Field Duplicate

07-AUG-09	WG-B760-MW11-061	WG309200	WG309200	NA	25	24	ug/L	94
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	25	21	ug/L	86
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	25	23	ug/L	91
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	25	23	ug/L	91
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	25	22	ug/L	89

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Laboratory Control, cont.

Acceptance Criteria = 72-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	NA	25	21	ug/L	85
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	NA	25	22	ug/L	89

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Method Blank

07-AUG-09	BLANK-309198-01	WG309198	WG309198	NA	25	21	ug/L	83
07-AUG-09	BLANK-309200-01	WG309200	WG309200	NA	25	22	ug/L	89
07-AUG-09	BLANK-309200-04	WG309200	WG309200	NA	25	23	ug/L	93
10-AUG-09	BLANK-309327-01	WG309327	WG309327	NA	25	22	ug/L	89
10-AUG-09	BLANK-309327-06	WG309327	WG309327	NA	25	23	ug/L	92

Number of Spikes = 5
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Normal Sample

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	NA	25	21	ug/L	85
07-AUG-09	WG-B760-MW06R-060	WG309200	WG309200	NA	25	24	ug/L	95
07-AUG-09	WG-B760-MW07R-060	WG309200	WG309200	NA	25	23	ug/L	93
07-AUG-09	WG-B760-MW09-060	WG309200	WG309200	NA	25	23	ug/L	91
07-AUG-09	WG-B760-MW11-060	WG309200	WG309200	NA	25	23	ug/L	94
07-AUG-09	WG-B760-MW13-060	WG309200	WG309200	NA	25	24	ug/L	97
10-AUG-09	WG-B760-MW06R-060	WG309327	WG309327	NA	125	110	ug/L	88

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Normal Sample, cont.

10-AUG-09	WG-B760-MW10-060	WG309327	WG309327	NA	25	23	ug/L	91
10-AUG-09	WG-B760-MW12-060	WG309327	WG309327	NA	25	23	ug/L	91

Number of Spikes = 9
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichloroethane-d4
 Type of Spike : Surrogate - Trip Blank

07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	NA	25	23	ug/L	92
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	NA	25	22	ug/L	88

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Equipment Blank

07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	NA	25	24	ug/L	96
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Field Duplicate

07-AUG-09	WG-B760-MW11-061	WG309200	WG309200	NA	25	24	ug/L	96
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Laboratory Control

07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	25	26	ug/L	106
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	25	23	ug/L	92
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	25	23	ug/L	93
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	25	24	ug/L	95

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Matrix Spike

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	NA	25	26	ug/L	103
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	NA	25	26	ug/L	105

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Method Blank

07-AUG-09	BLANK-309198-01	WG309198	WG309198	NA	25	30	ug/L	119
07-AUG-09	BLANK-309200-01	WG309200	WG309200	NA	25	24	ug/L	94
07-AUG-09	BLANK-309200-04	WG309200	WG309200	NA	25	24	ug/L	96
10-AUG-09	BLANK-309327-01	WG309327	WG309327	NA	25	24	ug/L	95
10-AUG-09	BLANK-309327-06	WG309327	WG309327	NA	25	24	ug/L	98

Number of Spikes = 5
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Normal Sample

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	NA	25	28	ug/L	112
07-AUG-09	WG-B760-MW06R-060	WG309200	WG309200	NA	25	23	ug/L	92
07-AUG-09	WG-B760-MW07R-060	WG309200	WG309200	NA	25	24	ug/L	96
07-AUG-09	WG-B760-MW09-060	WG309200	WG309200	NA	25	24	ug/L	94
07-AUG-09	WG-B760-MW11-060	WG309200	WG309200	NA	25	24	ug/L	96
07-AUG-09	WG-B760-MW13-060	WG309200	WG309200	NA	25	24	ug/L	97
10-AUG-09	WG-B760-MW06R-060	WG309327	WG309327	NA	125	120	ug/L	96
10-AUG-09	WG-B760-MW10-060	WG309327	WG309327	NA	25	24	ug/L	96
10-AUG-09	WG-B760-MW12-060	WG309327	WG309327	NA	25	24	ug/L	96

Number of Spikes = 9

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Trip Blank

07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	NA	25	24	ug/L	94
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	NA	25	24	ug/L	96

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromofluoromethane
 Type of Spike : Surrogate - Equipment Blank

07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	NA	25	24	ug/L	96
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Number of Spikes = 1

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 85-115

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dibromofluoromethane								
Type of Spike : Surrogate - Field Duplicate								
07-AUG-09	WG-B760-MW11-061	WG309200	WG309200	NA	25	24	ug/L	96
Number of Spikes		=	1	Number Below acceptance		=	0	
				Number Above acceptance		=	0	
				Acceptance Criteria		=	85-115	

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dibromofluoromethane								
Type of Spike : Surrogate - Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	25	25	ug/L	100
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	25	24	ug/L	95
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	25	24	ug/L	94
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	25	23	ug/L	92
Number of Spikes		=	4	Number Below acceptance		=	0	
				Number Above acceptance		=	0	
				Acceptance Criteria		=	85-115	

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dibromofluoromethane								
Type of Spike : Surrogate - Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	NA	25	24	ug/L	96
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	NA	25	25	ug/L	100
Number of Spikes		=	2	Number Below acceptance		=	0	
				Number Above acceptance		=	0	
				Acceptance Criteria		=	85-115	

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dibromofluoromethane								
Type of Spike : Surrogate - Method Blank								
07-AUG-09	BLANK-309198-01	WG309198	WG309198	NA	25	25	ug/L	100
07-AUG-09	BLANK-309200-01	WG309200	WG309200	NA	25	24	ug/L	96
07-AUG-09	BLANK-309200-04	WG309200	WG309200	NA	25	24	ug/L	96
10-AUG-09	BLANK-309327-01	WG309327	WG309327	NA	25	23	ug/L	91

Date Compiled: 09/29/09

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromofluoromethane
 Type of Spike : Surrogate - Method Blank, cont.

10-AUG-09	BLANK-309327-06	WG309327	WG309327	NA	25	24	ug/L	94
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Number of Spikes = 5
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 85-115

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromofluoromethane
 Type of Spike : Surrogate - Normal Sample

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	NA	25	25	ug/L	100
07-AUG-09	WG-B760-MW06R-060	WG309200	WG309200	NA	25	24	ug/L	94
07-AUG-09	WG-B760-MW07R-060	WG309200	WG309200	NA	25	24	ug/L	95
07-AUG-09	WG-B760-MW09-060	WG309200	WG309200	NA	25	24	ug/L	96
07-AUG-09	WG-B760-MW11-060	WG309200	WG309200	NA	25	24	ug/L	95
07-AUG-09	WG-B760-MW13-060	WG309200	WG309200	NA	25	24	ug/L	97
10-AUG-09	WG-B760-MW06R-060	WG309327	WG309327	NA	125	116	ug/L	93
10-AUG-09	WG-B760-MW10-060	WG309327	WG309327	NA	25	23	ug/L	92
10-AUG-09	WG-B760-MW12-060	WG309327	WG309327	NA	25	23	ug/L	91

Number of Spikes = 9
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 85-115

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromofluoromethane
 Type of Spike : Surrogate - Trip Blank

07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	NA	25	24	ug/L	96
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	NA	25	23	ug/L	93

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 85-115

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Toluene-d8								
Type of Spike : Surrogate - Equipment Blank								
07-AUG-09	WG-B760-MW07R-065	WG309200	WG309200	NA	25	25	ug/L	99
Number of Spikes		=	1	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		81-120		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Toluene-d8								
Type of Spike : Surrogate - Field Duplicate								
07-AUG-09	WG-B760-MW11-061	WG309200	WG309200	NA	25	25	ug/L	99
Number of Spikes		=	1	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		81-120		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Toluene-d8								
Type of Spike : Surrogate - Laboratory Control								
07-AUG-09	LCS-309198-02	WG309198	WG309198	NA	25	26	ug/L	103
07-AUG-09	LCS-309200-02	WG309200	WG309200	NA	25	24	ug/L	94
07-AUG-09	LCS2-309200-03	WG309200	WG309200	NA	25	24	ug/L	94
10-AUG-09	LCS-309327-02	WG309327	WG309327	NA	25	24	ug/L	97
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		81-120		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Toluene-d8								
Type of Spike : Surrogate - Matrix Spike								
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	NA	25	25	ug/L	100
07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	NA	25	25	ug/L	101
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		

Date Compiled: 09/29/09 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation. D-2-51

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Matrix Spike, cont.

Acceptance Criteria = 81-120

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Method Blank

07-AUG-09	BLANK-309198-01	WG309198	WG309198	NA	25	25	ug/L	99
07-AUG-09	BLANK-309200-01	WG309200	WG309200	NA	25	24	ug/L	98
07-AUG-09	BLANK-309200-04	WG309200	WG309200	NA	25	25	ug/L	100
10-AUG-09	BLANK-309327-01	WG309327	WG309327	NA	25	25	ug/L	100
10-AUG-09	BLANK-309327-06	WG309327	WG309327	NA	25	26	ug/L	102

Number of Spikes = 5
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-120

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Normal Sample

07-AUG-09	WG-B760-MW08R-063	WG309198	WG309198	NA	25	25	ug/L	100
07-AUG-09	WG-B760-MW06R-060	WG309200	WG309200	NA	25	25	ug/L	98
07-AUG-09	WG-B760-MW07R-060	WG309200	WG309200	NA	25	25	ug/L	98
07-AUG-09	WG-B760-MW09-060	WG309200	WG309200	NA	25	25	ug/L	98
07-AUG-09	WG-B760-MW11-060	WG309200	WG309200	NA	25	25	ug/L	99
07-AUG-09	WG-B760-MW13-060	WG309200	WG309200	NA	25	24	ug/L	97
10-AUG-09	WG-B760-MW06R-060	WG309327	WG309327	NA	125	124	ug/L	99
10-AUG-09	WG-B760-MW10-060	WG309327	WG309327	NA	25	25	ug/L	99
10-AUG-09	WG-B760-MW12-060	WG309327	WG309327	NA	25	25	ug/L	99

Number of Spikes = 9
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-120

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Trip Blank

07-AUG-09	WQ-ST035-AUG0901	WG309200	WG309200	NA	25	24	ug/L	98
10-AUG-09	WQ-ST035-AUG0902	WG309327	WG309327	NA	25	25	ug/L	101

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-120

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result	Duplicate Result	RPD Limit (%)	RPD (%)
Method: SW8011 - Ethylene Dibromide						
Type of Duplicate : Field Duplicate						
1,2-Dibromoethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.00680 (U)	< 0.00665 (U)	20	NC
Method: SW8011 - Ethylene Dibromide						
Type of Duplicate : Laboratory Control Duplicate						
1,2-Dibromoethane	LCS-309646-02	LCS2-309646-03	0.110	0.123	20	11.16
Method: SW8011 - Ethylene Dibromide						
Type of Duplicate : Matrix Spike Duplicate						
1,2-Dibromoethane	WG-B760-MW08R-063	WG-B760-MW08R-063	0.115	0.138	20	18.18
Method: SW8260B - Volatile Organic Compounds						
Type of Duplicate : Field Duplicate						
1,1,1,2-Tetrachloroethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250 (U)	< 0.250 (U)	20	NC
1,1,1-Trichloroethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250 (U)	< 0.250 (U)	20	NC
1,1,2,2-Tetrachloroethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.125 (U)	< 0.125 (U)	20	NC
1,1,2-Trichloroethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250 (U)	< 0.250 (U)	20	NC
1,1-Dichloroethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.125 (U)	< 0.125 (U)	20	NC
1,1-Dichloroethene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.500 (U)	< 0.500 (U)	20	NC
1,1-Dichloropropene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250 (U)	< 0.250 (U)	20	NC
1,2,3-Trichlorobenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.150 (U)	< 0.150 (U)	20	NC
1,2,3-Trichloropropane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.500 (U)	< 0.500 (U)	20	NC
1,2,4-Trichlorobenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.200 (U)	< 0.200 (U)	20	NC
1,2,4-Trimethylbenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250 (U)	< 0.250 (U)	20	NC
1,2-Dibromo-3-chloropropane	WG-B760-MW11-060	WG-B760-MW11-061	< 1.00 (U)	< 1.00 (U)	20	NC
1,2-Dibromoethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250 (U)	< 0.250 (U)	20	NC
1,2-Dichlorobenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.125 (U)	< 0.125 (U)	20	NC
1,2-Dichloroethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250 (U)	< 0.250 (U)	20	NC
1,2-Dichloropropane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.200 (U)	< 0.200 (U)	20	NC
1,3,5-Trimethylbenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250 (U)	< 0.250 (U)	20	NC

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result		Duplicate Result		RPD Limit (%)	RPD (%)
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1,3-Dichlorobenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
1,3-Dichloropropane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.200	(U)	< 0.200	(U)	20	NC
1,4-Dichlorobenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.125	(U)	< 0.125	(U)	20	NC
1-Chlorohexane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.125	(U)	< 0.125	(U)	20	NC
2,2-Dichloropropane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
2-Butanone(MEK)	WG-B760-MW11-060	WG-B760-MW11-061	< 2.50	(U)	< 2.50	(U)	20	NC
2-Chlorotoluene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.125	(U)	< 0.125	(U)	20	NC
4-Chlorotoluene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Acetone	WG-B760-MW11-060	WG-B760-MW11-061	< 2.50	(UM)	< 2.50	(UM)	20	NC
Benzene	WG-B760-MW11-060	WG-B760-MW11-061	4.30		4.39		20	2.07
Bromobenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.125	(U)	< 0.125	(U)	20	NC
Bromochloromethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.200	(U)	< 0.200	(U)	20	NC
Bromodichloromethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Bromoform	WG-B760-MW11-060	WG-B760-MW11-061	< 0.500	(U)	< 0.500	(U)	20	NC
Bromomethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.500	(U)	< 0.500	(U)	20	NC
Carbon tetrachloride	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Chlorobenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.125	(U)	< 0.125	(U)	20	NC
Chloroethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.500	(U)	< 0.500	(U)	20	NC
Chloroform	WG-B760-MW11-060	WG-B760-MW11-061	< 0.125	(U)	< 0.125	(U)	20	NC
Chloromethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Dibromochloromethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Dibromomethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Dichlorodifluoromethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Ethylbenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Hexachlorobutadiene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Isopropylbenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Methyl isobutyl ketone (MIBK)	WG-B760-MW11-060	WG-B760-MW11-061	< 2.50	(U)	< 2.50	(U)	20	NC
Methyl t-butyl ether	WG-B760-MW11-060	WG-B760-MW11-061	< 0.500	(U)	< 0.500	(U)	20	NC
Methylene chloride	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Naphthalene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.200	(U)	< 0.200	(U)	20	NC
Styrene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.125	(U)	< 0.125	(U)	20	NC
Tert-Butyl alcohol	WG-B760-MW11-060	WG-B760-MW11-061	< 50.00	(U)	< 50.00	(U)	20	NC
Tetrachloroethene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Toluene	WG-B760-MW11-060	WG-B760-MW11-061	0.681	(F)	0.697	(F)	20	2.32 *

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result		Duplicate Result		RPD Limit (%)	RPD (%)
Trichloroethene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Trichlorofluoromethane	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
Vinyl chloride	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
cis-1,2-Dichloroethene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
cis-1,3-Dichloropropene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
m&p-Xylene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.500	(U)	< 0.500	(U)	20	NC
n-Butylbenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
n-Propylbenzene	WG-B760-MW11-060	WG-B760-MW11-061	0.152	(F)	0.159	(F)	20	4.50 *
o-Xylene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
p-Isopropyltoluene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
sec-Butylbenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
tert-Butylbenzene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
trans-1,2-Dichloroethene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.250	(U)	< 0.250	(U)	20	NC
trans-1,3-Dichloropropene	WG-B760-MW11-060	WG-B760-MW11-061	< 0.500	(U)	< 0.500	(U)	20	NC

Method: SW8260B - Volatile Organic Compounds

Type of Duplicate : Laboratory Control Duplicate

1,1,1,2-Tetrachloroethane	LCS-309200-02	LCS2-309200-03	20.30		20.10		20	0.990
1,1,1-Trichloroethane	LCS-309200-02	LCS2-309200-03	20.70		20.40		20	1.46
1,1,2,2-Tetrachloroethane	LCS-309200-02	LCS2-309200-03	19.50		19.80		20	1.53
1,1,2-Trichloroethane	LCS-309200-02	LCS2-309200-03	20.60		20.90		20	1.45
1,1-Dichloroethane	LCS-309200-02	LCS2-309200-03	20.20		20.00		20	0.995
1,1-Dichloroethene	LCS-309200-02	LCS2-309200-03	19.90		19.80		20	0.504
1,1-Dichloropropene	LCS-309200-02	LCS2-309200-03	19.60		19.40		20	1.03
1,2,3-Trichlorobenzene	LCS-309200-02	LCS2-309200-03	19.40		19.60		20	1.03
1,2,3-Trichloropropene	LCS-309200-02	LCS2-309200-03	19.70		20.70		20	4.95
1,2,4-Trichlorobenzene	LCS-309200-02	LCS2-309200-03	18.70		18.80		20	0.533
1,2,4-Trimethylbenzene	LCS-309200-02	LCS2-309200-03	19.40		19.40		20	0.00
1,2-Dibromo-3-chloropropane	LCS-309200-02	LCS2-309200-03	19.80		20.10		20	1.50
1,2-Dibromoethane	LCS-309200-02	LCS2-309200-03	20.00		20.10		20	0.499
1,2-Dichlorobenzene	LCS-309200-02	LCS2-309200-03	19.30		19.60		20	1.54
1,2-Dichloroethane	LCS-309200-02	LCS2-309200-03	20.00		20.00		20	0.00
1,2-Dichloropropane	LCS-309200-02	LCS2-309200-03	20.20		20.40		20	0.985

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result	Duplicate Result	RPD Limit (%)	RPD (%)
1,3,5-Trimethylbenzene	LCS-309200-02	LCS2-309200-03	19.60	19.40	20	1.03
1,3-Dichlorobenzene	LCS-309200-02	LCS2-309200-03	19.30	19.30	20	0.00
1,3-Dichloropropane	LCS-309200-02	LCS2-309200-03	19.80	19.70	20	0.506
1,4-Dichlorobenzene	LCS-309200-02	LCS2-309200-03	18.70	18.70	20	0.00
1-Chlorohexane	LCS-309200-02	LCS2-309200-03	19.40	19.00	20	2.08
2,2-Dichloropropane	LCS-309200-02	LCS2-309200-03	19.70	19.20	20	2.57
2-Butanone(MEK)	LCS-309200-02	LCS2-309200-03	21.20	21.30	20	0.471
2-Chlorotoluene	LCS-309200-02	LCS2-309200-03	20.70	20.00	20	3.44
4-Chlorotoluene	LCS-309200-02	LCS2-309200-03	17.90	18.20	20	1.66
Acetone	LCS-309200-02	LCS2-309200-03	22.70	23.00	20	1.31
Benzene	LCS-309200-02	LCS2-309200-03	20.20	19.90	20	1.50
Bromobenzene	LCS-309200-02	LCS2-309200-03	19.80	19.90	20	0.504
Bromochloromethane	LCS-309200-02	LCS2-309200-03	22.00	21.80	20	0.913
Bromodichloromethane	LCS-309200-02	LCS2-309200-03	21.60	21.80	20	0.922
Bromoform	LCS-309200-02	LCS2-309200-03	19.50	20.00	20	2.53
Bromomethane	LCS-309200-02	LCS2-309200-03	22.30	22.10	20	0.901
Carbon tetrachloride	LCS-309200-02	LCS2-309200-03	20.60	20.50	20	0.487
Chlorobenzene	LCS-309200-02	LCS2-309200-03	19.80	19.60	20	1.02
Chloroethane	LCS-309200-02	LCS2-309200-03	21.30	21.30	20	0.00
Chloroform	LCS-309200-02	LCS2-309200-03	20.30	20.20	20	0.494
Chloromethane	LCS-309200-02	LCS2-309200-03	19.80	19.70	20	0.506
Dibromochloromethane	LCS-309200-02	LCS2-309200-03	20.60	20.80	20	0.966
Dibromomethane	LCS-309200-02	LCS2-309200-03	21.20	21.60	20	1.87
Dichlorodifluoromethane	LCS-309200-02	LCS2-309200-03	31.20	30.60	20	1.94
Ethylbenzene	LCS-309200-02	LCS2-309200-03	20.20	19.90	20	1.50
Hexachlorobutadiene	LCS-309200-02	LCS2-309200-03	18.50	18.40	20	0.542
Isopropylbenzene	LCS-309200-02	LCS2-309200-03	17.70	17.60	20	0.567
Methyl isobutyl ketone (MIBK)	LCS-309200-02	LCS2-309200-03	19.80	20.00	20	1.01
Methyl t-butyl ether	LCS-309200-02	LCS2-309200-03	22.00	22.10	20	0.454
Methylene chloride	LCS-309200-02	LCS2-309200-03	19.60	19.60	20	0.00
Naphthalene	LCS-309200-02	LCS2-309200-03	19.60	20.10	20	2.52
Styrene	LCS-309200-02	LCS2-309200-03	20.30	20.30	20	0.00
Tert-Butyl alcohol	LCS-309200-02	LCS2-309200-03	189	202	20	6.65
Tetrachloroethene	LCS-309200-02	LCS2-309200-03	19.50	18.90	20	3.13

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result	Duplicate Result	RPD Limit (%)	RPD (%)
Toluene	LCS-309200-02	LCS2-309200-03	19.70	19.40	20	1.53
Trichloroethene	LCS-309200-02	LCS2-309200-03	21.30	21.30	20	0.00
Trichlorofluoromethane	LCS-309200-02	LCS2-309200-03	19.50	19.40	20	0.514
Vinyl chloride	LCS-309200-02	LCS2-309200-03	21.30	20.80	20	2.38
cis-1,2-Dichloroethene	LCS-309200-02	LCS2-309200-03	20.70	20.50	20	0.971
cis-1,3-Dichloropropene	LCS-309200-02	LCS2-309200-03	21.00	20.80	20	0.957
m&p-Xylene	LCS-309200-02	LCS2-309200-03	39.90	39.30	20	1.52
n-Butylbenzene	LCS-309200-02	LCS2-309200-03	19.00	18.90	20	0.528
n-Propylbenzene	LCS-309200-02	LCS2-309200-03	19.70	19.40	20	1.53
o-Xylene	LCS-309200-02	LCS2-309200-03	20.10	20.00	20	0.499
p-Isopropyltoluene	LCS-309200-02	LCS2-309200-03	19.20	18.90	20	1.57
sec-Butylbenzene	LCS-309200-02	LCS2-309200-03	19.50	19.40	20	0.514
tert-Butylbenzene	LCS-309200-02	LCS2-309200-03	19.90	19.60	20	1.52
trans-1,2-Dichloroethene	LCS-309200-02	LCS2-309200-03	21.80	21.40	20	1.85
trans-1,3-Dichloropropene	LCS-309200-02	LCS2-309200-03	17.50	17.50	20	0.00
Method: SW8260B - Volatile Organic Compounds						
Type of Duplicate : Matrix Spike Duplicate						
1,1,1,2-Tetrachloroethane	WG-B760-MW08R-063	WG-B760-MW08R-063	19.30	19.20	20	0.519
1,1,1-Trichloroethane	WG-B760-MW08R-063	WG-B760-MW08R-063	19.00	19.40	20	2.08
1,1,2,2-Tetrachloroethane	WG-B760-MW08R-063	WG-B760-MW08R-063	18.00	18.60	20	3.28
1,1,2-Trichloroethane	WG-B760-MW08R-063	WG-B760-MW08R-063	19.90	20.30	20	1.99
1,1-Dichloroethane	WG-B760-MW08R-063	WG-B760-MW08R-063	18.50	18.70	20	1.08
1,1-Dichloroethene	WG-B760-MW08R-063	WG-B760-MW08R-063	17.70	18.30	20	3.33
1,1-Dichloropropene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.00	19.20	20	1.05
1,2,3-Trichlorobenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	21.60	21.60	20	0.00
1,2,3-Trichloropropene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.50	21.40	20	9.29
1,2,4-Trichlorobenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	20.40	19.70	20	3.49
1,2,4-Trimethylbenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.30	18.70	20	3.16
1,2-Dibromo-3-chloropropane	WG-B760-MW08R-063	WG-B760-MW08R-063	17.90	19.30	20	7.53
1,2-Dibromoethane	WG-B760-MW08R-063	WG-B760-MW08R-063	19.50	19.90	20	2.03
1,2-Dichlorobenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.50	19.40	20	0.514
1,2-Dichloroethane	WG-B760-MW08R-063	WG-B760-MW08R-063	26.70	27.00	20	1.12

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result	Duplicate Result	RPD Limit (%)	RPD (%)
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1,2-Dichloropropane	WG-B760-MW08R-063	WG-B760-MW08R-063	19.70	20.00	20	1.51
1,3,5-Trimethylbenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.40	19.10	20	1.56
1,3-Dichlorobenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.20	19.00	20	1.05
1,3-Dichloropropane	WG-B760-MW08R-063	WG-B760-MW08R-063	19.90	19.90	20	0.00
1,4-Dichlorobenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.40	19.10	20	1.56
1-Chlorohexane	WG-B760-MW08R-063	WG-B760-MW08R-063	18.70	18.90	20	1.06
2,2-Dichloropropane	WG-B760-MW08R-063	WG-B760-MW08R-063	18.30	18.30	20	0.00
2-Butanone(MEK)	WG-B760-MW08R-063	WG-B760-MW08R-063	20.00	22.30	20	10.87
2-Chlorotoluene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.70	19.00	20	3.62
4-Chlorotoluene	WG-B760-MW08R-063	WG-B760-MW08R-063	18.70	19.10	20	2.12
Acetone	WG-B760-MW08R-063	WG-B760-MW08R-063	17.70	22.50	20	23.88
Benzene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.20	19.30	20	0.519
Bromobenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	20.10	20.20	20	0.496
Bromochloromethane	WG-B760-MW08R-063	WG-B760-MW08R-063	20.00	20.10	20	0.499
Bromodichloromethane	WG-B760-MW08R-063	WG-B760-MW08R-063	20.30	20.20	20	0.494
Bromoform	WG-B760-MW08R-063	WG-B760-MW08R-063	19.60	20.00	20	2.02
Bromomethane	WG-B760-MW08R-063	WG-B760-MW08R-063	22.40	24.00	20	6.90
Carbon tetrachloride	WG-B760-MW08R-063	WG-B760-MW08R-063	20.00	19.60	20	2.02
Chlorobenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.10	19.00	20	0.525
Chloroethane	WG-B760-MW08R-063	WG-B760-MW08R-063	19.90	19.80	20	0.504
Chloroform	WG-B760-MW08R-063	WG-B760-MW08R-063	19.80	19.00	20	4.12
Chloromethane	WG-B760-MW08R-063	WG-B760-MW08R-063	20.70	20.90	20	0.962
Dibromochloromethane	WG-B760-MW08R-063	WG-B760-MW08R-063	20.70	20.80	20	0.482
Dibromomethane	WG-B760-MW08R-063	WG-B760-MW08R-063	20.10	20.20	20	0.496
Dichlorodifluoromethane	WG-B760-MW08R-063	WG-B760-MW08R-063	23.40	25.40	20	8.20
Ethylbenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.30	18.80	20	2.62
Hexachlorobutadiene	WG-B760-MW08R-063	WG-B760-MW08R-063	21.00	20.70	20	1.44
Isopropylbenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	17.80	17.40	20	2.27
Methyl isobutyl ketone (MIBK)	WG-B760-MW08R-063	WG-B760-MW08R-063	18.40	19.10	20	3.73
Methyl t-butyl ether	WG-B760-MW08R-063	WG-B760-MW08R-063	23.00	24.00	20	4.26
Methylene chloride	WG-B760-MW08R-063	WG-B760-MW08R-063	17.90	18.70	20	4.37
Naphthalene	WG-B760-MW08R-063	WG-B760-MW08R-063	21.80	22.10	20	1.37
Styrene	WG-B760-MW08R-063	WG-B760-MW08R-063	20.10	19.80	20	1.50
Tert-Butyl alcohol	WG-B760-MW08R-063	WG-B760-MW08R-063	262	287	20	9.11

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Aug 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result	Duplicate Result	RPD Limit (%)	RPD (%)
-----	-----	-----	-----	-----	-----	-----
Tetrachloroethene	WG-B760-MW08R-063	WG-B760-MW08R-063	20.40	20.00	20	1.98
Toluene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.80	19.50	20	1.53
Trichloroethene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.90	19.80	20	0.504
Trichlorofluoromethane	WG-B760-MW08R-063	WG-B760-MW08R-063	17.50	18.10	20	3.37
Vinyl chloride	WG-B760-MW08R-063	WG-B760-MW08R-063	22.40	22.90	20	2.21
cis-1,2-Dichloroethene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.40	19.80	20	2.04
cis-1,3-Dichloropropene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.40	19.30	20	0.517
m&p-Xylene	WG-B760-MW08R-063	WG-B760-MW08R-063	39.80	39.10	20	1.77
n-Butylbenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	17.70	16.80	20	5.22
n-Propylbenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.40	19.50	20	0.514
o-Xylene	WG-B760-MW08R-063	WG-B760-MW08R-063	20.50	20.00	20	2.47
p-Isopropyltoluene	WG-B760-MW08R-063	WG-B760-MW08R-063	16.90	16.40	20	3.00
sec-Butylbenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	19.70	19.60	20	0.509
tert-Butylbenzene	WG-B760-MW08R-063	WG-B760-MW08R-063	18.80	18.70	20	0.533
trans-1,2-Dichloroethene	WG-B760-MW08R-063	WG-B760-MW08R-063	20.80	20.50	20	1.45
trans-1,3-Dichloropropene	WG-B760-MW08R-063	WG-B760-MW08R-063	16.00	16.70	20	4.28

Attachment E
Chain-of-Custody Forms



CHAIN-OF-CUSTODY RECORD

Company Name: **WRS Corp**

Project Contact: **Deb Bisson**

Turn Around Requirements: **14-day**

Project ID: **Williams AFB - Task 58-Round 2**

Sampler (print): **Derrick Maurer**

Contact Phone #: **512-419-5417**

Location: **Austin, TX**

Signature: *Derrick Maurer*

- Program
- CWA
 - RCRA
 - DOD
 - AFCEE
 - Other _____

ADDITIONAL REQUIREMENTS

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS		
						Hold	SW8260B - ST035 Lst	SW8011 - EDB
WG-8760-MW11-060		X	8/4/09	0815	GW	6	3	3
WG-8760-MW11-061		X	8/4/09	0815	GW	6	3	3
WG-8760-MW09-060		X	8/4/09	1200	GW	6	3	3
WG-8760-MW13-060		X	8/4/09	1808	GW	6	3	3
WG-ST035-Aug0901		X	8/4/09	1530	WG	4	2	2
WG-8760-MW06R-060		X	8/5/09	0821	GW	6	3	3
WG-8760-MW08R-063		X	8/5/09	1009	GW	10	5	5
WG-8760-MW07R-060		X	8/5/09	1420	GW	6	3	3
WG-8760-MW07R-065		X	8/5/09	1450	WG	4	2	2

TOTAL # (LAB USE)

MS/MSD

Derrick Maurer

Relinquished by: *Derrick Maurer* Date: **8/5/09** Time: **1516**

Received by: *Robin L. Klinger* Date: **08/06/2009** Time: **10:39**

By: **ROBIN KLINGER**

Remarks: **Temp Blank in Cooler**



Microbac OVD

221000000941



CHAIN-OF-CUSTODY RECORD

Company Name: URS Corp

Project Contact: Deb Bissan Contact Phone #: 512-419-5417

Turn Around/Requirements: 14-day Location: Austin, TX

Project ID: Williams AFB - Task 58 - Round 2

Sampler (print): Derrick Maurer Signature: [Signature]

- Program
- CWA
 - RCRA
 - DOD
 - AFCEE
 - Other _____

ADDITIONAL REQUIREMENTS

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold													TOTAL # (LAB USE)
WG-8760-MW12-060		X	8/6/09	0910	GW	6		3	3											
WG-8760-MW10-060		X	8/6/09	1120	GW	6		3	3											
WG-51035-Aug 0902		X	8/6/09	1615	WG	4		2	2											
WG-55017-MW01-046		X	8/6/09	1400	GW	2														
WG-55017-MW01-045		X	8/6/09	1430	GW	2														
WG-55017-MW02-040		X	8/6/09		GW															

Relinquished by: [Signature] Date: 8/6/09 Time: 715 Received (Signature): [Signature] Microbac OVD
Received: 08/07/2009 10:41
By: ERIN PORTER

Relinquished by: (Signature) Date Time Received (Signature)

[Signature]

Date Time Received by: (Signature)

Remarks: Temp Blank in Cooler

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

November/December 2009 Event

Final

Site ST035

**Former Building 760
Data Summary, November 2009 Event**

FORMER WILLIAMS AIR FORCE BASE
MESA, ARIZONA

April 2010

Prepared for:
Air Force Real Property Agency and
Air Force Center for Engineering and the Environment
Base Conversion Directorate

Contract Number: FA8903-08-D-8783
Project Number: YZJU20097104
Task Order: 0058

Prepared by:
URS Corporation
9400 Amberglen Boulevard
Austin, Texas 78729

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- Attachment C - Summary of the QC Results
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1.0 INTRODUCTION

URS Corporation (URS) has prepared this Data Summary Report for former Williams Air Force Base (AFB) under Delivery Order (DO) 0058, Contract No. FA8903-08-D-8783. This Data Summary Report covers the November 2009 Groundwater Monitoring Event at ST035, Building 760.

This document is divided into four sections. Section 1.0 presents the introduction. Section 2.0 presents the analytical results. Section 3.0 presents a summary of the quality assurance (QA)/quality control (QC) results. Section 4.0 presents the references.

Five attachments are included in this document. Attachment A presents the analytical results. Attachment B presents the cross-reference table and the holding time table. Attachment C presents a summary of the QC results. Attachment D presents the detailed QC results. Attachment E presents copies of the chain-of-custody forms (COC).

During the investigation at former Williams AFB, eight groundwater samples, one field duplicate, one equipment blank (EB), and two trip blanks (TBs) were sampled by URS and analyzed for 1,2-dibromoethane and volatile organic compounds (VOCs). Sample distribution is presented in Table 1-1.

The QC data presented in this report have been evaluated according to the QA objectives in the *Final Basewide Sampling and Analysis Plan (BSAP), Former Williams Air Force Base, Mesa, Arizona* (URS, June 2009). These objectives represent accuracy and precision performance goals for 1,2-dibromoethane and VOC analyses. The results indicate that the data are acceptable and usable for characterizing 1,2-dibromoethane and VOC concentrations in the groundwater at ST035.

The results reported for field parameters were not evaluated. These results are to be used for screening purposes only and are not discussed in this report. However, the results for field parameters are provided in Attachment A.

Table 1-1. Sample Distribution Table

Sample ID	Laboratory ID	Date Sampled	1,2-Dibromoethane SW8011	VOCs SW8260B
WG-B760-MW06R-070	09120076-03	12/2/2009	X	X
WG-B760-MW07R-070	09120076-05	12/2/2009	X	X
WG-B760-MW08R-070	09120033-01	12/1/2009	X	X
WG-B760-MW09-070	09120076-04	12/2/2009	X	X
WG-B760-MW10-073	09120076-07	12/2/2009	X	X
WG-B760-MW11-070	09120033-02	12/1/2009	X	X
WG-B760-MW12-070	09120076-06	12/2/2009	X	X
WG-B760-MW13-070	09120076-01	12/2/2009	X	X
Field Duplicate				
WG-B760-MW13-071	09120076-02	12/2/2009	X	X
Equipment Blank				
WG-B760-MW11-075	09120033-03	12/1/2009	X	X
Trip Blanks				
WQ-ST035-NOV0901	09120033-04	12/1/2009	X	X
WQ-ST035-NOV0902	09120076-10	12/2/2009	X	X

ID - Identification.

VOC - Volatile organic compound.

X - Analyzed by Microbac Laboratories Inc., Marietta, Ohio.

2.0 ANALYTICAL RESULTS

Eight groundwater monitoring wells at ST035 were sampled and analyzed for 1,2-dibromoethane using U.S. Environmental Protection Agency (EPA) Method SW8011 and VOCs using EPA Method SW8260B by Microbac Laboratories Inc. in Marietta, Ohio.

The samples were prepared and analyzed in accordance with the procedures published in SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (EPA, Office of Solid Waste and Emergency Response, December 1996, Revision 3 and subsequent revisions). Sample results are presented in Attachment A.

3.0 SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL ACTIVITIES

The QC data associated with the analysis of samples collected for the ST035, Building 760 November 2009 Groundwater Monitoring Event were reviewed and analyzed to determine if measurements were made according to the specifications of the *BSAP*. Results of calibration samples, blank samples, and sample spikes were compared to the acceptance criteria specified in the *BSAP*. The conclusion of this evaluation is that the results are valid measurements within the acceptance criteria specified in the *BSAP* with the limitations specified in this Data Summary Report, and may be used to characterize 1,2-dibromoethane and VOCs in groundwater.

3.1 Quality Assurance/Quality Control Approach

QC data provide information for identifying and defining qualitative and quantitative limitations associated with measurement data. The following key types of QC samples provide the primary basis for quantitatively evaluating data quality:

- Blanks;
- Standards;
- Spikes; and
- Duplicate samples.

Additionally, samples are evaluated for compliance with established holding times and with prescribed sensitivity requirements (detection limits).

3.1.1 Blank Samples

Blanks are QC samples designed to detect the introduction of contamination or other artifacts into the sampling and analytical processes. This is an especially important role in measurement programs involving trace-level analyses.

Method Blanks – Method blanks (MBs) are aliquots of an analyte-free water or solid matrix that are processed through the entire preparation and analytical measurement techniques, in the same manner as investigative field samples, and provide an indication of systematic contamination, which may have been introduced by the preparation of measurement systems. When evidence of contamination is indicated by blank values above pre-established levels, corrective action is initiated to identify and eliminate the source of contamination.

Initial Calibration Blanks/Continuing Calibration Blanks – Initial calibration blanks (ICBs) and continuing calibration blanks (CCBs) are analyte-free water that are analyzed at the beginning of an analytical run and every ten samples. When evidence of contamination is indicated by blank values above pre-established levels, corrective action is initiated to identify and eliminate the source of contamination.

Equipment Blanks – EB samples are collected by pouring reagent-grade water over decontaminated field equipment. EBs provide information regarding both field and laboratory

contamination, but are not used to "control" either the sampling or the analytical processes. Results from EBs are compared to field concentrations to identify possible cross-contamination.

Trip Blanks – TB samples are collected by filling volatile organic analysis (VOA) vials in the laboratory with organic-free water and shipping them to the field. They accompany the VOC samples from the time of collection through analyses in the laboratory. TBs are used to assess the potential introduction of contaminants from sample containers or during transportation and storage. TBs will be collected at a frequency of one per shipping container of VOC and 1,2-dibromoethane samples.

The blank data for this project were evaluated using the five-times rule or ten-times for common laboratory analytes, which requires that the concentration detected in the blank sample be multiplied by a factor of five or ten. If five or ten times the concentration detected in the blank exceeds the concentration in the sample, then the result is flagged with a "B" and considered to be similar to blank concentration.

3.1.2 Standards

Three types of standards were included in this program. These were initial calibrations (ICALs), second-source calibration verification (SSCV) standards, and calibration verification standards.

Initial Calibration – ICALs are performed as required for each analytical method, using a range of calibration standards containing all analytes with the lowest standard used to define the reporting limit (RL) for each analyte. These standards are used to determine the calibration range of the instrument.

Second-Source Calibration Verification Standard – A SSCV standard containing all of the analytes is analyzed immediately following an ICAL. This standard is from a different source than the standard used in the ICAL. The SSCV verifies that the ICAL is valid.

Initial Calibration Verification Standards/Continuing Calibration Standards – Initial calibration verification (ICV) and continuing calibration verification (CCV) standards containing all of the analytes are analyzed daily to demonstrate acceptable performance of the analytical system. If the ICVs or CCVs do not meet the acceptance criteria, corrective action is required before samples are analyzed.

3.1.3 Spike Samples

Four types of spiked sample analyses were included in this program. These were surrogates, internal standards (ISs), laboratory control samples (LCSs), and matrix spikes (MSs). Results of spike analyses were used to estimate measurement accuracy.

Surrogate Spikes – All samples are spiked with one or more surrogate compounds, which are chemically similar to the analytes of interest, but are not expected to be present in the actual field samples. Recovery of these surrogate compounds gives an estimate of the effectiveness of the extraction and analysis for that single sample.

Internal Standards – ISs are measured amounts of certain compounds added after preparation or extraction of sample. They are used in an IS calibration method to correct sample results affected by column injection losses, purging losses, or viscosity effects. ISs shall be added to environmental samples, controls, and blanks, in accordance with the method requirements.

Laboratory Control Samples – LCSs are used to assess analytical performance under a given set of standard conditions. These are samples prepared in an analyte-free water or solid matrix containing all of the analytes of interest spiked at known concentrations from standards that are different than the ones used for ICALs. Typically analyzed with each analytical batch, LCSs may be used to estimate analytical bias and accuracy by comparing measured results to theoretical concentrations. Although matrix effects are not addressed as with MSs and surrogates, LCSs allow batch-to-batch variability to be considered and are useful in identifying trends.

Matrix Spikes – MSs are field samples to which known concentrations of the analytes of interest have been added. Usually expressed as a percentage of the spiked amount, spike recovery can be considered an indication of measurement accuracy and extraction efficiency in the actual sample matrix.

3.1.4 Duplicate Samples

Duplicate samples are designed to provide estimates of precision. Precision is a measure of agreement between two measurements made under similar conditions. Results are presented in the following sections for the analysis of duplicate field samples, laboratory control sample duplicates (LCSDs), and matrix spike duplicates (MSDs).

Duplicate Field Samples – Duplicate field samples are used as indicators of measurement data precision. The analysis of duplicate samples involves replicating sample collection (and the associated sample handling activities), as well as the sample preparation and analysis. Precision estimates based on duplicate sample results incorporate both sampling and analytical variability, and may be affected by sample heterogeneity (for very turbid samples).

Duplicate Laboratory Spike Samples – LCSD samples are used as indicators of overall measurement data precision. The analysis of LCSD samples involves spiking a known amount of concentrations into two fractions of a clean matrix, preparing, and analyzing with the field samples. Precision estimates based on LCSD sample results incorporate preparation and analytical variability.

Duplicate Matrix Spike Samples – MSD samples are used as indicators of overall measurement data precision. The collection and analysis of MSD samples involves collecting three fractions of the same sample, spiking two of the three fractions, preparing, and analyzing the samples. Precision estimates based on MSD sample results incorporate both sampling and analytical variability, and may be affected by sample heterogeneity (for very turbid samples).

3.1.5 Holding Times and Sample Preservation

Maximum holding times and sample preservation techniques have been established by the EPA for each method to prevent possible change in concentration of analytes of interest over time.

For example, analytes of interest may be lost because of biological degradation. Adherence to holding time and preservation requirements is reviewed while analytical measurement data are qualitatively evaluated.

3.1.6 Dual Column Confirmation

The confirmation columns confirm the identity and concentration of the compound of interest. If the compound is found on both columns the identity is considered confirmed; however, if the concentration differs by more than a relative percent difference (RPD) of 40% then the concentration is considered estimated and the result is qualified with a “J”.

3.1.7 Data Flagging

The data were reviewed in accordance with the *BSAP* and data flags were assigned in accordance with the *BSAP*.

Concentrations that were below the method detection limits (MDLs) and RLs were qualified with “F” as estimated and are not discussed in this report.

3.2 1, 2-Dibromoethane by SW8011

Eight groundwater samples, one field duplicate, one EB, and two TBs were collected and analyzed for 1,2-dibromoethane by EPA Method SW8011. Holding times, sample preservation, dual column confirmation, calibrations, blanks, spikes, and duplicates were evaluated. All QC tests except spikes were acceptable. Spikes are discussed below.

Spikes

Three types of spikes were analyzed: LCSs, surrogates, and MSs.

Two LCSs were analyzed for 1,2-dibromoethane with the samples. One surrogate was spiked into every field and QC sample. All LCS and surrogate recoveries were within acceptance criteria.

One MS/MSD pair was analyzed in association with the samples. The MS recovery was below acceptance criteria for 1,2-dibromoethane. All results for 1,2-dibromoethane were qualified with “ML” for the detects as estimated/biased low and “UML” for the non-detects as not detected/estimated/biased low due to MS recoveries.

Sample results qualified due to MS recoveries are presented in Table 3.2-1.

Completeness

All of the 1,2-dibromoethane data are usable; therefore, the 95% completeness objective for groundwater samples was met.

Table 3.2-1. 1,2-Dibromoethane Sample Results Qualified Due to Matrix Spike Recoveries

Sample ID	Compound	Result (µg/L)	Qualifier	Reason
WG-B760-MW06R-070	1,2-Dibromoethane	ND	UML	MS < LCL
WG-B760-MW07R-070				
WG-B760-MW08R-070				
WG-B760-MW09-070		0.324	ML	
WG-B760-MW10-073		0.0762		
WG-B760-MW11-070		ND	UML	
WG-B760-MW12-070				
WG-B760-MW13-070				
WG-B760-MW13-071				

µg/L - Micrograms per liter.
 ID - Identification.
 L - Biased low.
 LCL - Lower control limit.

M - Estimated due to matrix spike (MS).
 ND - Not detected.
 UM - Not detected/estimates due to MS.

3.3 Volatile Organic Compounds by SW8260B

Eight groundwater samples, one field duplicate, one EB, and two TBs were collected and analyzed for VOCs by EPA Method SW8260B. Holding times, sample preservation, calibrations, blanks, spikes, and duplicates were evaluated. All QC tests except calibrations, blanks, and spikes were acceptable. Calibrations, blanks, and spikes are discussed below.

Calibrations

All ICALs, SSCVs, and ICVs were acceptable.

CCV recoveries were within acceptance criteria for all compounds except bromomethane. Bromomethane was recovered high in the CCV analyzed on 4 December 2009. Bromomethane was not detected in the associated samples; therefore, no qualifications were made.

Blanks

Three types of blanks were analyzed: MBs, EB, and TBs.

Four MBs and one EB were analyzed for VOCs with the samples. VOCs were not detected in the MBs or the EB.

Two TBs were analyzed for VOCs with the samples. Methylene chloride was detected in both TBs above the MDL but below the RL. Methylene chloride was not detected in the associated samples; therefore, no qualifications were made. Acetone and chloromethane were detected in one TB above the MDLs but below the RLs. Acetone and chloromethane were not detected in the associated samples; therefore, no qualifications were made.

Spikes

Four types of spikes were analyzed: ISs, surrogates, LCSs, and MSs.

Three ISs and four surrogates were spiked into every field and QC sample. All recoveries were within acceptance criteria.

Four LCSs were analyzed for VOCs with the samples. Dichlorodifluoromethane and trichlorofluoromethane were recovered above the acceptance criteria in one LCS. These compounds were not detected in the associated samples; therefore, no qualifications were made.

One MS/MSD pair was analyzed in association with the samples. The MS/MSD recoveries were above acceptance criteria for acetone. Acetone was not detected in the associated samples; therefore, no qualifications were made.

Completeness

All of the VOC data are usable; therefore, the 95% completeness objective for groundwater samples was met.

4.0 REFERENCES

U.S. Environmental Protection Agency (EPA), December 1996. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*. Office of Solid Waste and Emergency Response, December 1996, Revision 3 and subsequent revisions.

URS Corporation (URS), June 2009. *Final Basewide Sampling and Analysis Plan, Former Williams Air Force Base, Mesa, Arizona*. Austin, TX.

Attachment A
Analytical Results

Attachment A Table of Contents

Table A-1	Results of Organic Analyses for Water Samples, Williams AFB Groundwater Monitoring - ST035 - November 2009
Table A-2	Results of Field Analyses for Water Samples, Williams AFB Groundwater Monitoring - ST035 - November 2009

PARAMETER	SITE ID									
	B760 B760-MW06R WG-B760-MW06R-070 02-DEC-09		B760 B760-MW07R WG-B760-MW07R-070 02-DEC-09		B760 B760-MW08R WG-B760-MW08R-070 01-DEC-09		B760 B760-MW09 WG-B760-MW09-070 02-DEC-09			
SW8011 - Ethylene Dibromide (ug/L)										
1,2-Dibromoethane	ND	UML (0.00698) [1]	ND	UML (0.00700) [1]	ND	UML (0.00693) [1]	0.324	ML (0.00692) [1]		
SW8260B - Volatile Organic Compounds (ug/L)										
1,1,1,2-Tetrachloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]		
1,1,1-Trichloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]		
1,1,2,2-Tetrachloroethane	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]		
1,1,2-Trichloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]		
1,1-Dichloroethane	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]		
1,1-Dichloroethene	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]		
1,1-Dichloropropene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]		
1,2,3-Trichlorobenzene	ND	U (0.150) [1]	ND	U (0.150) [1]	ND	U (0.150) [1]	ND	U (0.150) [1]		
1,2,3-Trichloropropane	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]		
1,2,4-Trichlorobenzene	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]		
1,2,4-Trimethylbenzene	2.00	(0.250) [1]	0.899	F (0.250) [1]	1.64	(0.250) [1]	22.8	(0.250) [1]		
1,2-Dibromo-3-chloropropane	ND	U (1.00) [1]	ND	U (1.00) [1]	ND	U (1.00) [1]	ND	U (1.00) [1]		
1,2-Dibromoethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	0.287	F (0.250) [1]		
1,2-Dichlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]		
1,2-Dichloroethane	3.23	(0.250) [1]	30.5	(0.250) [1]	4.45	(0.250) [1]	28.4	(0.250) [1]		
1,2-Dichloropropane	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]		
1,3,5-Trimethylbenzene	0.862	F (0.250) [1]	0.404	F (0.250) [1]	0.402	F (0.250) [1]	7.54	(0.250) [1]		
1,3-Dichlorobenzene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]		
1,3-Dichloropropane	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]		
1,4-Dichlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]		
1-Chlorohexane	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]		

PARAMETER	SITE ID					
	LOCATION ID		SAMPLE ID		DATE SAMPLED	
	B760	B760	B760	B760		
	B760-MW06R	B760-MW07R	B760-MW08R	B760-MW09		
	WG-B760-MW06R-070	WG-B760-MW07R-070	WG-B760-MW08R-070	WG-B760-MW09-070		
	02-DEC-09	02-DEC-09	01-DEC-09	02-DEC-09		
SW8260B - Volatile Organic Compounds, cont. (ug/L)						
2,2-Dichloropropane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
2-Butanone(MEK)	ND	U (2.50) [1]	ND	U (2.50) [1]	ND	U (2.50) [1]
2-Chlorotoluene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]
4-Chlorotoluene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Acetone	ND	U (2.50) [1]	ND	U (2.50) [1]	ND	U (2.50) [1]
Benzene	25.7	(0.125) [1]	0.402	(0.125) [1]	2.08	(0.125) [1]
Bromobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]
Bromochloromethane	ND	U (0.200) [1]	ND	U (0.200) [1]	ND	U (0.200) [1]
Bromodichloromethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Bromoform	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]
Bromomethane	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]
Carbon tetrachloride	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Chlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]
Chloroethane	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]
Chloroform	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]
Chloromethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Dibromochloromethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Dibromomethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Dichlorodifluoromethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Ethylbenzene	2.17	(0.250) [1]	ND	U (0.250) [1]	2.65	(0.250) [1]
Hexachlorobutadiene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Isopropylbenzene	0.694	F (0.250) [1]	0.543	F (0.250) [1]	0.447	F (0.250) [1]
Methyl isobutyl ketone (MIBK)	ND	U (2.50) [1]	ND	U (2.50) [1]	ND	U (2.50) [1]
Methyl t-butyl ether	ND	U (0.500) [1]	41.9	(0.500) [1]	1.58	F (0.500) [1]

PARAMETER	SITE ID							
	B760 B760-MW06R WG-B760-MW06R-070 02-DEC-09		B760 B760-MW07R WG-B760-MW07R-070 02-DEC-09		B760 B760-MW08R WG-B760-MW08R-070 01-DEC-09		B760 B760-MW09 WG-B760-MW09-070 02-DEC-09	
SW8260B - Volatile Organic Compounds, cont. (ug/L)								
Methylene chloride	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Naphthalene	0.457	F (0.200) [1]	ND	U (0.200) [1]	0.494	F (0.200) [1]	1.65	(0.200) [1]
Styrene	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]	ND	U (0.125) [1]
Tert-Butyl alcohol	ND	U (50.0) [1]	145	(50.0) [1]	143	(50.0) [1]	ND	U (50.0) [1]
Tetrachloroethene	ND	U (0.250) [1]	1.85	(0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Toluene	1.00	(0.250) [1]	ND	U (0.250) [1]	0.808	F (0.250) [1]	24.8	(0.250) [1]
Trichloroethene	ND	U (0.250) [1]	0.973	F (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Trichlorofluoromethane	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
Vinyl chloride	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
cis-1,2-Dichloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
cis-1,3-Dichloropropene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
m&p-Xylene	6.21	(0.500) [1]	ND	U (0.500) [1]	2.96	(0.500) [1]	51.2	(0.500) [1]
n-Butylbenzene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	0.414	F (0.250) [1]
n-Propylbenzene	0.451	F (0.125) [1]	ND	U (0.125) [1]	0.437	F (0.125) [1]	0.330	F (0.125) [1]
o-Xylene	1.03	(0.250) [1]	ND	U (0.250) [1]	0.769	F (0.250) [1]	33.6	(0.250) [1]
p-Isopropyltoluene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
sec-Butylbenzene	ND	U (0.250) [1]	ND	U (0.250) [1]	0.406	F (0.250) [1]	ND	U (0.250) [1]
tert-Butylbenzene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
trans-1,2-Dichloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]	ND	U (0.250) [1]
trans-1,3-Dichloropropene	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]	ND	U (0.500) [1]

PARAMETER	SITE ID			
	LOCATION ID		SAMPLE ID	
	DATE SAMPLED		DATE SAMPLED	
	B760	B760	B760	B760
	B760-MW10	B760-MW11	B760-MW12	B760-MW13
	WG-B760-MW10-073	WG-B760-MW11-070	WG-B760-MW12-070	WG-B760-MW13-070
	02-DEC-09	01-DEC-09	02-DEC-09	02-DEC-09
SW8011 - Ethylene Dibromide (ug/L)				
1,2-Dibromoethane	0.0762	ML (0.00696) [1]	ND	UML (0.00683) [1]
				ND
				UML (0.00711) [1]
				ND
				UML (0.00697) [1]
SW8260B - Volatile Organic Compounds (ug/L)				
1,1,1,2-Tetrachloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]
1,1,1-Trichloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]
1,1,2,2-Tetrachloroethane	ND	U (0.125) [1]	ND	U (0.125) [1]
1,1,2-Trichloroethane	ND	U (0.250) [1]	ND	U (0.250) [1]
1,1-Dichloroethane	ND	U (0.125) [1]	ND	U (0.125) [1]
1,1-Dichloroethene	ND	U (0.500) [1]	ND	U (0.500) [1]
1,1-Dichloropropene	ND	U (0.250) [1]	ND	U (0.250) [1]
1,2,3-Trichlorobenzene	ND	U (0.150) [1]	ND	U (0.150) [1]
1,2,3-Trichloropropane	ND	U (0.500) [1]	ND	U (0.500) [1]
1,2,4-Trichlorobenzene	ND	U (0.200) [1]	ND	U (0.200) [1]
1,2,4-Trimethylbenzene	4.16	(0.250) [1]	1.60	(0.250) [1]
1,2-Dibromo-3-chloropropane	ND	U (1.00) [1]	ND	U (1.00) [1]
1,2-Dibromoethane	ND	U (0.250) [1]	ND	U (0.250) [1]
1,2-Dichlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]
1,2-Dichloroethane	9.87	(0.250) [1]	ND	U (0.250) [1]
1,2-Dichloropropane	ND	U (0.200) [1]	ND	U (0.200) [1]
1,3,5-Trimethylbenzene	2.39	(0.250) [1]	0.576	F (0.250) [1]
1,3-Dichlorobenzene	ND	U (0.250) [1]	ND	U (0.250) [1]
1,3-Dichloropropane	ND	U (0.200) [1]	ND	U (0.200) [1]
1,4-Dichlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]
1-Chlorohexane	ND	U (0.125) [1]	ND	U (0.125) [1]

PARAMETER	SITE ID			
	LOCATION ID		SAMPLE ID	
	DATE SAMPLED		DATE SAMPLED	
	B760	B760	B760	B760
	B760-MW10	B760-MW11	B760-MW12	B760-MW13
	WG-B760-MW10-073	WG-B760-MW11-070	WG-B760-MW12-070	WG-B760-MW13-070
	02-DEC-09	01-DEC-09	02-DEC-09	02-DEC-09
SW8260B - Volatile Organic Compounds, cont. (ug/L)				
2,2-Dichloropropane	ND	U (0.250) [1]	ND	U (0.250) [1]
2-Butanone(MEK)	ND	U (2.50) [1]	ND	U (2.50) [1]
2-Chlorotoluene	ND	U (0.125) [1]	ND	U (0.125) [1]
4-Chlorotoluene	ND	U (0.250) [1]	ND	U (0.250) [1]
Acetone	ND	U (2.50) [1]	ND	U (2.50) [1]
Benzene	14.2	(0.125) [1]	11.4	(0.125) [1]
Bromobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]
Bromochloromethane	ND	U (0.200) [1]	ND	U (0.200) [1]
Bromodichloromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Bromoform	ND	U (0.500) [1]	1.41	(0.500) [1]
Bromomethane	ND	U (0.500) [1]	ND	U (0.500) [1]
Carbon tetrachloride	ND	U (0.250) [1]	ND	U (0.250) [1]
Chlorobenzene	ND	U (0.125) [1]	ND	U (0.125) [1]
Chloroethane	ND	U (0.500) [1]	ND	U (0.500) [1]
Chloroform	ND	U (0.125) [1]	ND	U (0.125) [1]
Chloromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Dibromochloromethane	ND	U (0.250) [1]	1.15	(0.250) [1]
Dibromomethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Dichlorodifluoromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Ethylbenzene	1.17	(0.250) [1]	2.87	(0.250) [1]
Hexachlorobutadiene	ND	U (0.250) [1]	ND	U (0.250) [1]
Isopropylbenzene	3.01	(0.250) [1]	0.641	F (0.250) [1]
Methyl isobutyl ketone (MIBK)	ND	U (2.50) [1]	ND	U (2.50) [1]
Methyl t-butyl ether	10.9	(0.500) [1]	ND	U (0.500) [1]

PARAMETER	SITE ID			
	LOCATION ID		SAMPLE ID	
	DATE SAMPLED		DATE SAMPLED	
	B760	B760	B760	B760
	B760-MW10	B760-MW11	B760-MW12	B760-MW13
	WG-B760-MW10-073	WG-B760-MW11-070	WG-B760-MW12-070	WG-B760-MW13-070
	02-DEC-09	01-DEC-09	02-DEC-09	02-DEC-09
SW8260B - Volatile Organic Compounds, cont. (ug/L)				
Methylene chloride	ND	U (0.250) [1]	ND	U (0.250) [1]
Naphthalene	0.454	F (0.200) [1]	0.563	F (0.200) [1]
Styrene	ND	U (0.125) [1]	ND	U (0.125) [1]
Tert-Butyl alcohol	ND	U (50.0) [1]	ND	U (50.0) [1]
Tetrachloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]
Toluene	1.41	(0.250) [1]	1.85	(0.250) [1]
Trichloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]
Trichlorofluoromethane	ND	U (0.250) [1]	ND	U (0.250) [1]
Vinyl chloride	ND	U (0.250) [1]	ND	U (0.250) [1]
cis-1,2-Dichloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]
cis-1,3-Dichloropropene	ND	U (0.250) [1]	ND	U (0.250) [1]
m&p-Xylene	5.94	(0.500) [1]	3.76	(0.500) [1]
n-Butylbenzene	0.721	F (0.250) [1]	ND	U (0.250) [1]
n-Propylbenzene	0.299	F (0.125) [1]	0.617	F (0.125) [1]
o-Xylene	2.02	(0.250) [1]	1.16	(0.250) [1]
p-Isopropyltoluene	ND	U (0.250) [1]	ND	U (0.250) [1]
sec-Butylbenzene	0.390	F (0.250) [1]	ND	U (0.250) [1]
tert-Butylbenzene	ND	U (0.250) [1]	ND	U (0.250) [1]
trans-1,2-Dichloroethene	ND	U (0.250) [1]	ND	U (0.250) [1]
trans-1,3-Dichloropropene	ND	U (0.500) [1]	ND	U (0.500) [1]

SITE ID
LOCATION ID
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DATE SAMPLED

B760
B760-MW13
WG-B760-MW13-071 Dup of
WG-B760-MW13-070
02-DEC-09

PARAMETER

SW8011 - Ethylene Dibromide (ug/L)

1,2-Dibromoethane ND UML(0.00697) [1]

SW8260B - Volatile Organic Compounds (ug/L)

1,1,1,2-Tetrachloroethane ND U (0.250) [1]
1,1,1-Trichloroethane ND U (0.250) [1]
1,1,2,2-Tetrachloroethane ND U (0.125) [1]
1,1,2-Trichloroethane ND U (0.250) [1]
1,1-Dichloroethane ND U (0.125) [1]
1,1-Dichloroethene ND U (0.500) [1]
1,1-Dichloropropene ND U (0.250) [1]
1,2,3-Trichlorobenzene ND U (0.150) [1]
1,2,3-Trichloropropane ND U (0.500) [1]
1,2,4-Trichlorobenzene ND U (0.200) [1]
1,2,4-Trimethylbenzene 0.711 F (0.250) [1]
1,2-Dibromo-3-chloropropane ND U (1.00) [1]
1,2-Dibromoethane ND U (0.250) [1]
1,2-Dichlorobenzene ND U (0.125) [1]
1,2-Dichloroethane ND U (0.250) [1]
1,2-Dichloropropane ND U (0.200) [1]
1,3,5-Trimethylbenzene 0.449 F (0.250) [1]
1,3-Dichlorobenzene ND U (0.250) [1]
1,3-Dichloropropane ND U (0.200) [1]
1,4-Dichlorobenzene ND U (0.125) [1]
1-Chlorohexane ND U (0.125) [1]

SITE ID
LOCATION ID
SAMPLE ID
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B760
B760-MW13
WG-B760-MW13-071 Dup of
WG-B760-MW13-070
02-DEC-09

PARAMETER

PARAMETER	CONCENTRATION	UNIT	DETECTION LIMIT	DILUTION FACTOR
SW8260B - Volatile Organic Compounds, cont. (ug/L)				
2,2-Dichloropropane	ND	U	(0.250	)[1]
2-Butanone(MEK)	2.60	F	(2.50	)[1]
2-Chlorotoluene	ND	U	(0.125	)[1]
4-Chlorotoluene	ND	U	(0.250	)[1]
Acetone	ND	U	(2.50	)[1]
Benzene	8.60		(0.125	)[1]
Bromobenzene	ND	U	(0.125	)[1]
Bromochloromethane	ND	U	(0.200	)[1]
Bromodichloromethane	ND	U	(0.250	)[1]
Bromoform	ND	U	(0.500	)[1]
Bromomethane	ND	U	(0.500	)[1]
Carbon tetrachloride	ND	U	(0.250	)[1]
Chlorobenzene	ND	U	(0.125	)[1]
Chloroethane	ND	U	(0.500	)[1]
Chloroform	ND	U	(0.125	)[1]
Chloromethane	ND	U	(0.250	)[1]
Dibromochloromethane	ND	U	(0.250	)[1]
Dibromomethane	ND	U	(0.250	)[1]
Dichlorodifluoromethane	ND	U	(0.250	)[1]
Ethylbenzene	ND	U	(0.250	)[1]
Hexachlorobutadiene	ND	U	(0.250	)[1]
Isopropylbenzene	2.11		(0.250	)[1]
Methyl isobutyl ketone (MIBK)	ND	U	(2.50)[1]
Methyl t-butyl ether	ND	U	(0.500)[1]

SITE ID
LOCATION ID
SAMPLE ID
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B760
B760-MW13
WG-B760-MW13-071 Dup of
WG-B760-MW13-070
02-DEC-09

PARAMETER

PARAMETER			
SW8260B - Volatile Organic Compounds, cont. (ug/L)			
Methylene chloride	ND	U (0.250)	[1]
Naphthalene	ND	U (0.200)	[1]
Styrene	ND	U (0.125)	[1]
Tert-Butyl alcohol	ND	U (50.0)	[1]
Tetrachloroethene	2.23	(0.250)	[1]
Toluene	ND	U (0.250)	[1]
Trichloroethene	1.14	(0.250)	[1]
Trichlorofluoromethane	ND	U (0.250)	[1]
Vinyl chloride	ND	U (0.250)	[1]
cis-1,2-Dichloroethene	ND	U (0.250)	[1]
cis-1,3-Dichloropropene	ND	U (0.250)	[1]
m&p-Xylene	ND	U (0.500)	[1]
n-Butylbenzene	0.260	F (0.250)	[1]
n-Propylbenzene	0.157	F (0.125)	[1]
o-Xylene	ND	U (0.250)	[1]
p-Isopropyltoluene	ND	U (0.250)	[1]
sec-Butylbenzene	0.323	F (0.250)	[1]
tert-Butylbenzene	ND	U (0.250)	[1]
trans-1,2-Dichloroethene	ND	U (0.250)	[1]
trans-1,3-Dichloropropene	ND	U (0.500)	[1]

PARAMETER	B760				B760				B760				B760			
	B760-MW06R WG-B760-MW06R-070 02-DEC-09				B760-MW07R WG-B760-MW07R-070 02-DEC-09				B760-MW08R WG-B760-MW08R-070 01-DEC-09				B760-MW09 WG-B760-MW09-070 02-DEC-09			
D1498 - Oxidation-Reduction Potential (mv)																
REDOX	181	S ()	[1]	-5.00	S ()	[1]	-81.0	S ()	[1]	64.0	S ()	[1]				
E170.1 - Temperature (degC)																
Temperature	20.5	S ()	[1]	21.5	S ()	[1]	23.3	S ()	[1]	20.5	S ()	[1]				
E180.1 - Turbidity (ntu)																
Turbidity	0.530	S ()	[1]	0.110	S ()	[1]	6.80	S ()	[1]	14.8	S ()	[1]				
E360.1 - Oxygen, Dissolved (mg/L)																
Dissolved Oxygen	6.34	S ()	[1]	1.02	S ()	[1]	1.02	S ()	[1]	0.410	S ()	[1]				
SW9040 - pH Electrometric Measurement (pH UNITS)																
pH	6.66	S ()	[1]	6.50	S ()	[1]	6.56	S ()	[1]	6.64	S ()	[1]				
SW9050 - Specific Conductance (ms/cm)																
Specific Conductivity	4.39	S ()	[1]	7.63	S ()	[1]	5.45	S ()	[1]	4.47	S ()	[1]				

PARAMETER	B760				B760				B760				B760			
	B760-MW10				B760-MW11				B760-MW12				B760-MW13			
	WG-B760-MW10-073				WG-B760-MW11-070				WG-B760-MW12-070				WG-B760-MW13-070			
	02-DEC-09				01-DEC-09				02-DEC-09				02-DEC-09			
	[1]				[1]				[1]				[1]			
D1498 - Oxidation-Reduction Potential (mv)																
REDOX	119	S	()	[1]	129	S	()	[1]	-83.0	S	()	[1]	108	S	()	[1]
E170.1 - Temperature (degC)																
Temperature	21.7	S	()	[1]	23.9	S	()	[1]	21.9	S	()	[1]	20.3	S	()	[1]
E180.1 - Turbidity (ntu)																
Turbidity	3.40	S	()	[1]	0.809	S	()	[1]	2.27	S	()	[1]	0.00	S	()	[1]
E360.1 - Oxygen, Dissolved (mg/L)																
Dissolved Oxygen	0.790	S	()	[1]	1.35	S	()	[1]	0.810	S	()	[1]	1.30	S	()	[1]
SW9040 - pH Electrometric Measurement (pH UNITS)																
pH	6.60	S	()	[1]	6.63	S	()	[1]	6.65	S	()	[1]	6.74	S	()	[1]
SW9050 - Specific Conductance (ms/cm)																
Specific Conductivity	4.09	S	()	[1]	4.45	S	()	[1]	4.71	S	()	[1]	3.33	S	()	[1]

Attachment B

Cross-Reference Table and the Holding Time Table

Attachment B Table of Contents

Table B-1	Holding Time Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - November 2009
Table B-2	Date and Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - November 2009

Table B-1. Holding Time Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

SAMPLE ID ANALYTICAL METHOD -----	SAMP TYPE ----	DATE COLLECTED -----	DATE PREPARED -----	ELAPSED TIME -----	PREPARATION HT -----	DATE ANALYZED -----	ELAPSED TIME -----	ANALYTICAL HT -----
WG-B760-MW06R-070		N						
D1498 - Oxidation-Reduction Potential		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
E170.1 - Temperature		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
E180.1 - Turbidity		02-DEC-09	NA	NA	48 Hours	02-DEC-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		02-DEC-09	09-DEC-09	7 Days	14 Days	09-DEC-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		02-DEC-09	09-DEC-09	7 Days	14 Days	09-DEC-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
SW9050 - Specific Conductance		02-DEC-09	NA	NA	28 Days	02-DEC-09	0 Days	28 Days
WG-B760-MW07R-070		N						
D1498 - Oxidation-Reduction Potential		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
E170.1 - Temperature		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
E180.1 - Turbidity		02-DEC-09	NA	NA	48 Hours	02-DEC-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		02-DEC-09	09-DEC-09	7 Days	14 Days	09-DEC-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		02-DEC-09	08-DEC-09	6 Days	14 Days	08-DEC-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
SW9050 - Specific Conductance		02-DEC-09	NA	NA	28 Days	02-DEC-09	0 Days	28 Days
WG-B760-MW08R-070		N						
D1498 - Oxidation-Reduction Potential		01-DEC-09	NA	NA	24 Hours	01-DEC-09	0 Days	24 Hours
E170.1 - Temperature		01-DEC-09	NA	NA	24 Hours	01-DEC-09	0 Days	24 Hours
E180.1 - Turbidity		01-DEC-09	NA	NA	48 Hours	01-DEC-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		01-DEC-09	NA	NA	24 Hours	01-DEC-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		01-DEC-09	09-DEC-09	8 Days	14 Days	09-DEC-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		01-DEC-09	04-DEC-09	3 Days	14 Days	04-DEC-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		01-DEC-09	NA	NA	24 Hours	01-DEC-09	0 Days	24 Hours
SW9050 - Specific Conductance		01-DEC-09	NA	NA	28 Days	01-DEC-09	0 Days	28 Days
WG-B760-MW09-070		N						

Compiled: 01/07/10

N = Normal Sample MS = Matrix Spike MSD = Matrix Spike Duplicate

B-1-1

FD = Field Duplicate EB = Equipment Blank TB = Trip Blank * Sample extraction or analysis exceeded hold time.

Table B-1. Holding Time Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

SAMPLE ID ANALYTICAL METHOD -----	SAMP TYPE ----	DATE COLLECTED -----	DATE PREPARED -----	ELAPSED TIME -----	PREPARATION HT -----	DATE ANALYZED -----	ELAPSED TIME -----	ANALYTICAL HT -----
D1498 - Oxidation-Reduction Potential		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
E170.1 - Temperature		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
E18D.1 - Turbidity		02-DEC-09	NA	NA	48 Hours	02-DEC-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		02-DEC-09	09-DEC-09	7 Days	14 Days	09-DEC-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		02-DEC-09	07-DEC-09	5 Days	14 Days	07-DEC-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
SW9050 - Specific Conductance		02-DEC-09	NA	NA	28 Days	02-DEC-09	0 Days	28 Days

WG-B760-MW10-073	MSD							
SW8011 - Ethylene Dibromide		02-DEC-09	09-DEC-09	7 Days	14 Days	09-DEC-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		02-DEC-09	07-DEC-09	5 Days	14 Days	07-DEC-09	0 Days	14 Days

WG-B760-MW10-073	MS							
SW8011 - Ethylene Dibromide		02-DEC-09	09-DEC-09	7 Days	14 Days	09-DEC-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		02-DEC-09	07-DEC-09	5 Days	14 Days	07-DEC-09	0 Days	14 Days

WG-B760-MW10-073	N							
D1498 - Oxidation-Reduction Potential		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
E170.1 - Temperature		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
E180.1 - Turbidity		02-DEC-09	NA	NA	48 Hours	02-DEC-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		02-DEC-09	09-DEC-09	7 Days	14 Days	09-DEC-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		02-DEC-09	07-DEC-09	5 Days	14 Days	07-DEC-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
SW9050 - Specific Conductance		02-DEC-09	NA	NA	28 Days	02-DEC-09	0 Days	28 Days

WG-B760-MW11-070	N							
D1498 - Oxidation-Reduction Potential		01-DEC-09	NA	NA	24 Hours	01-DEC-09	0 Days	24 Hours

Compiled: 01/07/10

N = Normal Sample MS = Matrix Spike MSD = Matrix Spike Duplicate
 FD = Field Duplicate EB = Equipment Blank TB = Trip Blank * Sample extraction or analysis exceeded hold time.

B-1-2

Table B-1. Holding Time Summary, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

SAMPLE ID ANALYTICAL METHOD	SAMP TYPE	DATE COLLECTED	DATE PREPARED	ELAPSED TIME	PREPARATION HT	DATE ANALYZED	ELAPSED TIME	ANALYTICAL HT
E170.1 - Temperature		01-DEC-09	NA	NA	24 Hours	01-DEC-09	0 Days	24 Hours
E180.1 - Turbidity		01-DEC-09	NA	NA	48 Hours	01-DEC-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		01-DEC-09	NA	NA	24 Hours	01-DEC-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		01-DEC-09	09-DEC-09	8 Days	14 Days	09-DEC-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		01-DEC-09	04-DEC-09	3 Days	14 Days	04-DEC-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		01-DEC-09	NA	NA	24 Hours	01-DEC-09	0 Days	24 Hours
SW9050 - Specific Conductance		01-DEC-09	NA	NA	28 Days	01-DEC-09	0 Days	28 Days

WG-B760-MW12-070	N							
D1498 - Oxidation-Reduction Potential		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
E170.1 - Temperature		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
E180.1 - Turbidity		02-DEC-09	NA	NA	48 Hours	02-DEC-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		02-DEC-09	09-DEC-09	7 Days	14 Days	09-DEC-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		02-DEC-09	07-DEC-09	5 Days	14 Days	07-DEC-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
SW9050 - Specific Conductance		02-DEC-09	NA	NA	28 Days	02-DEC-09	0 Days	28 Days

WG-B760-MW13-070	N							
D1498 - Oxidation-Reduction Potential		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
E170.1 - Temperature		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
E180.1 - Turbidity		02-DEC-09	NA	NA	48 Hours	02-DEC-09	0 Days	48 Hours
E360.1 - Oxygen, Dissolved		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
SW8011 - Ethylene Dibromide		02-DEC-09	09-DEC-09	7 Days	14 Days	09-DEC-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		02-DEC-09	07-DEC-09	5 Days	14 Days	07-DEC-09	0 Days	14 Days
SW9040 - pH Electrometric Measurement		02-DEC-09	NA	NA	24 Hours	02-DEC-09	0 Days	24 Hours
SW9050 - Specific Conductance		02-DEC-09	NA	NA	28 Days	02-DEC-09	0 Days	28 Days

WG-B760-MW13-071	FD							
SW8011 - Ethylene Dibromide		02-DEC-09	09-DEC-09	7 Days	14 Days	09-DEC-09	0 Days	14 Days
SW8260B - Volatile Organic Compounds		02-DEC-09	07-DEC-09	5 Days	14 Days	07-DEC-09	0 Days	14 Days

Compiled: 01/07/10

N = Normal Sample MS = Matrix Spike MSD = Matrix Spike Duplicate

B-1-3

FD = Field Duplicate EB = Equipment Blank TB = Trip Blank * Sample extraction or analysis exceeded hold time.

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
WG-B760-MW06R-070	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FldNov09	02-DEC-09			02-DEC-09
SDG :								
E170.1 - Temperature				FldNov09	02-DEC-09			02-DEC-09
SDG :								
E180.1 - Turbidity				FldNov09	02-DEC-09			02-DEC-09
SDG :								
E360.1 - Oxygen, Dissolved				FldNov09	02-DEC-09			02-DEC-09
SDG : 09120076-03								
SW8011 - Ethylene Dibromide			WG319319	WG319319	02-DEC-09		09-DEC-09	09-DEC-09
SDG : 09120076-03								
SW8260B - Volatile Organic Compounds			WG319310	WG319310	02-DEC-09		09-DEC-09	09-DEC-09
SDG :								
SW9040 - pH Electrometric Measurement				FldNov09	02-DEC-09			02-DEC-09
SDG :								
SW9050 - Specific Conductance				FldNov09	02-DEC-09			02-DEC-09

WG-B760-MW07R-070	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FldNov09	02-DEC-09			02-DEC-09
SDG :								

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
E170.1 - Temperature				FlldNov09	02-DEC-09			02-DEC-09
SDG :								
E180.1 - Turbidity				FlldNov09	02-DEC-09			02-DEC-09
SDG :								
E360.1 - Oxygen, Dissolved				FlldNov09	02-DEC-09			02-DEC-09
SDG : 09120076-05								
SW8011 - Ethylene Dibromide			WG319319	WG319319	02-DEC-09		09-DEC-09	09-DEC-09
SDG : 09120076-05								
SW8260B - Volatile Organic Compounds			WG319206	WG319206	02-DEC-09		08-DEC-09	08-DEC-09
SDG :								
SW9040 - pH Electrometric Measurement				FlldNov09	02-DEC-09			02-DEC-09
SDG :								
SW9050 - Specific Conductance				FlldNov09	02-DEC-09			02-DEC-09

WG-B760-MW08R-070	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FlldNov09	01-DEC-09			01-DEC-09
SDG :								
E170.1 - Temperature				FlldNov09	01-DEC-09			01-DEC-09
SDG :								
E180.1 - Turbidity				FlldNov09	01-DEC-09			01-DEC-09
SDG :								
E360.1 - Oxygen, Dissolved				FlldNov09	01-DEC-09			01-DEC-09

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
SDG : 09120033-01 SW8011 - Ethylene Dibromide			WG319319	WG319319	01-DEC-09		09-DEC-09	09-DEC-09
SDG : 09120033-01 SW8260B - Volatile Organic Compounds			WG319017	WG319017	01-DEC-09		04-DEC-09	04-DEC-09
SDG : SW9040 - pH Electrometric Measurement				FLdNov09	01-DEC-09			01-DEC-09
SDG : SW9050 - Specific Conductance				FLdNov09	01-DEC-09			01-DEC-09

WG-B760-MW09-070	N							
SDG : D1498 - Oxidation-Reduction Potential				FLdNov09	02-DEC-09			02-DEC-09
SDG : E170.1 - Temperature				FLdNov09	02-DEC-09			02-DEC-09
SDG : E180.1 - Turbidity				FLdNov09	02-DEC-09			02-DEC-09
SDG : E360.1 - Oxygen, Dissolved				FLdNov09	02-DEC-09			02-DEC-09
SDG : 09120076-04 SW8011 - Ethylene Dibromide			WG319319	WG319319	02-DEC-09		09-DEC-09	09-DEC-09
SDG : 09120076-04 SW8260B - Volatile Organic Compounds			WG319126	WG319126	02-DEC-09		07-DEC-09	07-DEC-09
SDG :								

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
SW9040 - pH Electrometric Measurement				FlNov09	02-DEC-09			02-DEC-09
SDG :								
SW9050 - Specific Conductance				FlNov09	02-DEC-09			02-DEC-09

WG-B760-MW10-073	MSD							
SDG : 09120076-09								
SW8011 - Ethylene Dibromide			WG319319	WG319319	02-DEC-09		09-DEC-09	09-DEC-09
SDG : 09120076-09								
SW8260B - Volatile Organic Compounds			WG319126	WG319126	02-DEC-09		07-DEC-09	07-DEC-09

WG-B760-MW10-073	MS							
SDG : 09120076-08								
SW8011 - Ethylene Dibromide			WG319319	WG319319	02-DEC-09		09-DEC-09	09-DEC-09
SDG : 09120076-08								
SW8260B - Volatile Organic Compounds			WG319126	WG319126	02-DEC-09		07-DEC-09	07-DEC-09

WG-B760-MW10-073	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FlNov09	02-DEC-09			02-DEC-09
SDG :								
E170.1 - Temperature				FlNov09	02-DEC-09			02-DEC-09
SDG :								
E180.1 - Turbidity				FlNov09	02-DEC-09			02-DEC-09

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

SAMPLE ID ANALYTICAL METHOD -----	SAMP TYPE ----	LEACHATE BATCH ID -----	PREPARATION BATCH ID -----	ANALYTICAL BATCH ID -----	DATE COLLECTED -----	DATE LEACHED -----	DATE PREPARED -----	DATE ANALYZED -----
SDG : E360.1 - Oxygen, Dissolved				FldNov09	02-DEC-09			02-DEC-09
SDG : 09120076-07 SW8011 - Ethylene Dibromide			WG319319	WG319319	02-DEC-09		09-DEC-09	09-DEC-09
SDG : 09120076-07 SW8260B - Volatile Organic Compounds			WG319126	WG319126	02-DEC-09		07-DEC-09	07-DEC-09
SDG : SW9040 - pH Electrometric Measurement				FldNov09	02-DEC-09			02-DEC-09
SDG : SW9050 - Specific Conductance				FldNov09	02-DEC-09			02-DEC-09

WG-B760-MW11-070	N							
SDG : D1498 - Oxidation-Reduction Potential				FldNov09	01-DEC-09			01-DEC-09
SDG : E170.1 - Temperature				FldNov09	01-DEC-09			01-DEC-09
SDG : E180.1 - Turbidity				FldNov09	01-DEC-09			01-DEC-09
SDG : E360.1 - Oxygen, Dissolved				FldNov09	01-DEC-09			01-DEC-09
SDG : 09120033-02 SW8011 - Ethylene Dibromide			WG319319	WG319319	01-DEC-09		09-DEC-09	09-DEC-09
SDG : 09120033-02								

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
SW8260B - Volatile Organic Compounds			WG319017	WG319017	01-DEC-09		04-DEC-09	04-DEC-09
SDG :								
SW9040 - pH Electrometric Measurement				FlcNov09	01-DEC-09			01-DEC-09
SDG :								
SW9050 - Specific Conductance				FlcNov09	01-DEC-09			01-DEC-09

WG-B760-MW12-070	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FlcNov09	02-DEC-09			02-DEC-09
SDG :								
E170.1 - Temperature				FlcNov09	02-DEC-09			02-DEC-09
SDG :								
E180.1 - Turbidity				FlcNov09	02-DEC-09			02-DEC-09
SDG :								
E360.1 - Oxygen, Dissolved				FlcNov09	02-DEC-09			02-DEC-09
SDG : 09120076-06								
SW8011 - Ethylene Dibromide			WG319319	WG319319	02-DEC-09		09-DEC-09	09-DEC-09
SDG : 09120076-06								
SW8260B - Volatile Organic Compounds			WG319126	WG319126	02-DEC-09		07-DEC-09	07-DEC-09
SDG :								
SW9040 - pH Electrometric Measurement				FlcNov09	02-DEC-09			02-DEC-09
SDG :								
SW9050 - Specific Conductance				FlcNov09	02-DEC-09			02-DEC-09

Table B-2. Date And Batch Cross-Reference, Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

SAMPLE ID	SAMP	LEACHATE	PREPARATION	ANALYTICAL	DATE	DATE	DATE	DATE
ANALYTICAL METHOD	TYPE	BATCH ID	BATCH ID	BATCH ID	COLLECTED	LEACHED	PREPARED	ANALYZED
-----	----	-----	-----	-----	-----	-----	-----	-----
WG-B760-MW13-070	N							
SDG :								
D1498 - Oxidation-Reduction Potential				FldNov09	02-DEC-09			02-DEC-09
SDG :								
E170.1 - Temperature				FldNov09	02-DEC-09			02-DEC-09
SDG :								
E180.1 - Turbidity				FldNov09	02-DEC-09			02-DEC-09
SDG :								
E360.1 - Oxygen, Dissolved				FldNov09	02-DEC-09			02-DEC-09
SDG : 09120076-01								
SW8011 - Ethylene Dibromide			WG319319	WG319319	02-DEC-09		09-DEC-09	09-DEC-09
SDG : 09120076-01								
SW8260B - Volatile Organic Compounds			WG319126	WG319126	02-DEC-09		07-DEC-09	07-DEC-09
SDG :								
SW9040 - pH Electrometric Measurement				FldNov09	02-DEC-09			02-DEC-09
SDG :								
SW9050 - Specific Conductance				FldNov09	02-DEC-09			02-DEC-09

WG-B760-MW13-071	FD							
SDG : 09120076-02								
SW8011 - Ethylene Dibromide			WG319319	WG319319	02-DEC-09		09-DEC-09	09-DEC-09
SDG : 09120076-02								
SW8260B - Volatile Organic Compounds			WG319126	WG319126	02-DEC-09		07-DEC-09	07-DEC-09

Attachment C

Summary of the QC Results

Attachment C Table of Contents

Table C-1	Summary of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - November 2009
Table C-2	Summary Listing of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - November 2009
Table C-3	Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - November 2009

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Analyte -----	Number of Blanks -----	Number Above Sample RL -----	Number Above SDL -----	Concentration Range -----
SW8011 - Ethylene Dibromide, (ug/L)				
Type of Blank : Equipment Blank				
1,2-Dibromoethane	1	0	0	NC
Type of Blank : Method Blank				
1,2-Dibromoethane	1	0	0	NC
Type of Blank : Trip Blank				
1,2-Dibromoethane	2	0	0	NC
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Equipment Blank				
1,1,1,2-Tetrachloroethane	1	0	0	NC
1,1,1-Trichloroethane	1	0	0	NC
1,1,2,2-Tetrachloroethane	1	0	0	NC
1,1,2-Trichloroethane	1	0	0	NC
1,1-Dichloroethane	1	0	0	NC
1,1-Dichloroethene	1	0	0	NC
1,1-Dichloropropene	1	0	0	NC
1,2,3-Trichlorobenzene	1	0	0	NC
1,2,3-Trichloropropane	1	0	0	NC
1,2,4-Trichlorobenzene	1	0	0	NC
1,2,4-Trimethylbenzene	1	0	0	NC
1,2-Dibromo-3-chloropropane	1	0	0	NC
1,2-Dibromoethane	1	0	0	NC
1,2-Dichlorobenzene	1	0	0	NC
1,2-Dichloroethane	1	0	0	NC
1,2-Dichloropropane	1	0	0	NC
1,3,5-Trimethylbenzene	1	0	0	NC
1,3-Dichlorobenzene	1	0	0	NC
1,3-Dichloropropane	1	0	0	NC
1,4-Dichlorobenzene	1	0	0	NC
1-Chlorohexane	1	0	0	NC
2,2-Dichloropropane	1	0	0	NC
2-Butanone(MEK)	1	0	0	NC
2-Chlorotoluene	1	0	0	NC
4-Chlorotoluene	1	0	0	NC
Acetone	1	0	0	NC
Benzene	1	0	0	NC
Bromobenzene	1	0	0	NC
Bromochloromethane	1	0	0	NC
Bromodichloromethane	1	0	0	NC
Bromoform	1	0	0	NC
Bromomethane	1	0	0	NC
Carbon tetrachloride	1	0	0	NC
Chlorobenzene	1	0	0	NC
Chloroethane	1	0	0	NC
Chloroform	1	0	0	NC
Chloromethane	1	0	0	NC
Dibromochloromethane	1	0	0	NC
Dibromomethane	1	0	0	NC
Dichlorodifluoromethane	1	0	0	NC
Ethylbenzene	1	0	0	NC

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Analyte	Number of Blanks	Number Above Sample RL	Number Above SDL	Concentration Range
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Equipment Blank, cont.				
Hexachlorobutadiene	1	0	0	NC
Isopropylbenzene	1	0	0	NC
Methyl isobutyl ketone (MIBK)	1	0	0	NC
Methyl t-butyl ether	1	0	0	NC
Methylene chloride	1	0	0	NC
Naphthalene	1	0	0	NC
Styrene	1	0	0	NC
Tert-Butyl alcohol	1	0	0	NC
Tetrachloroethene	1	0	0	NC
Toluene	1	0	0	NC
Trichloroethene	1	0	0	NC
Trichlorofluoromethane	1	0	0	NC
Vinyl chloride	1	0	0	NC
cis-1,2-Dichloroethene	1	0	0	NC
cis-1,3-Dichloropropene	1	0	0	NC
m&p-Xylene	1	0	0	NC
n-Butylbenzene	1	0	0	NC
n-Propylbenzene	1	0	0	NC
o-Xylene	1	0	0	NC
p-Isopropyltoluene	1	0	0	NC
sec-Butylbenzene	1	0	0	NC
tert-Butylbenzene	1	0	0	NC
trans-1,2-Dichloroethene	1	0	0	NC
trans-1,3-Dichloropropene	1	0	0	NC
Type of Blank : Method Blank				
1,1,1,2-Tetrachloroethane	4	0	0	NC
1,1,1-Trichloroethane	4	0	0	NC
1,1,2,2-Tetrachloroethane	4	0	0	NC
1,1,2-Trichloroethane	4	0	0	NC
1,1-Dichloroethane	4	0	0	NC
1,1-Dichloroethene	4	0	0	NC
1,1-Dichloropropene	4	0	0	NC
1,2,3-Trichlorobenzene	4	0	0	NC
1,2,3-Trichloropropane	4	0	0	NC
1,2,4-Trichlorobenzene	4	0	0	NC
1,2,4-Trimethylbenzene	4	0	0	NC
1,2-Dibromo-3-chloropropane	4	0	0	NC
1,2-Dibromoethane	4	0	0	NC
1,2-Dichlorobenzene	4	0	0	NC
1,2-Dichloroethane	4	0	0	NC
1,2-Dichloropropane	4	0	0	NC
1,3,5-Trimethylbenzene	4	0	0	NC
1,3-Dichlorobenzene	4	0	0	NC
1,3-Dichloropropane	4	0	0	NC
1,4-Dichlorobenzene	4	0	0	NC
1-Chlorohexane	4	0	0	NC
2,2-Dichloropropane	4	0	0	NC
2-Butanone(MEK)	4	0	0	NC
2-Chlorotoluene	4	0	0	NC

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Analyte	Number of Blanks	Number Above Sample RL	Number Above SDL	Concentration Range
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Method Blank, cont.				
4-Chlorotoluene	4	0	0	NC
Acetone	4	0	0	NC
Benzene	4	0	0	NC
Bromobenzene	4	0	0	NC
Bromochloromethane	4	0	0	NC
Bromodichloromethane	4	0	0	NC
Bromoform	4	0	0	NC
Bromomethane	4	0	0	NC
Carbon tetrachloride	4	0	0	NC
Chlorobenzene	4	0	0	NC
Chloroethane	4	0	0	NC
Chloroform	4	0	0	NC
Chloromethane	4	0	0	NC
Dibromochloromethane	4	0	0	NC
Dibromomethane	4	0	0	NC
Dichlorodifluoromethane	4	0	0	NC
Ethylbenzene	4	0	0	NC
Hexachlorobutadiene	4	0	0	NC
Isopropylbenzene	4	0	0	NC
Methyl isobutyl ketone (MIBK)	4	0	0	NC
Methyl t-butyl ether	4	0	0	NC
Methylene chloride	4	0	0	NC
Naphthalene	4	0	0	NC
Styrene	4	0	0	NC
Tert-Butyl alcohol	4	0	0	NC
Tetrachloroethene	4	0	0	NC
Toluene	4	0	0	NC
Trichloroethene	4	0	0	NC
Trichlorofluoromethane	4	0	0	NC
Vinyl chloride	4	0	0	NC
cis-1,2-Dichloroethene	4	0	0	NC
cis-1,3-Dichloropropene	4	0	0	NC
m&p-Xylene	4	0	0	NC
n-Butylbenzene	4	0	0	NC
n-Propylbenzene	4	0	0	NC
o-Xylene	4	0	0	NC
p-Isopropyltoluene	4	0	0	NC
sec-Butylbenzene	4	0	0	NC
tert-Butylbenzene	4	0	0	NC
trans-1,2-Dichloroethene	4	0	0	NC
trans-1,3-Dichloropropene	4	0	0	NC
Type of Blank : Trip Blank				
1,1,1,2-Tetrachloroethane	2	0	0	NC
1,1,1-Trichloroethane	2	0	0	NC
1,1,2,2-Tetrachloroethane	2	0	0	NC
1,1,2-Trichloroethane	2	0	0	NC
1,1-Dichloroethane	2	0	0	NC
1,1-Dichloroethene	2	0	0	NC
1,1-Dichloropropene	2	0	0	NC

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Analyte	Number of Blanks	Number Above Sample RL	Number Above SDL	Concentration Range
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Trip Blank, cont.				
1,2,3-Trichlorobenzene	2	0	0	NC
1,2,3-Trichloropropane	2	0	0	NC
1,2,4-Trichlorobenzene	2	0	0	NC
1,2,4-Trimethylbenzene	2	0	0	NC
1,2-Dibromo-3-chloropropane	2	0	0	NC
1,2-Dibromoethane	2	0	0	NC
1,2-Dichlorobenzene	2	0	0	NC
1,2-Dichloroethane	2	0	0	NC
1,2-Dichloropropane	2	0	0	NC
1,3,5-Trimethylbenzene	2	0	0	NC
1,3-Dichlorobenzene	2	0	0	NC
1,3-Dichloropropane	2	0	0	NC
1,4-Dichlorobenzene	2	0	0	NC
1-Chlorohexane	2	0	0	NC
2,2-Dichloropropane	2	0	0	NC
2-Butanone(MEK)	2	0	0	NC
2-Chlorotoluene	2	0	0	NC
4-Chlorotoluene	2	0	0	NC
Acetone	2	0	1	3.65 - 3.65
Benzene	2	0	0	NC
Bromobenzene	2	0	0	NC
Bromochloromethane	2	0	0	NC
Bromodichloromethane	2	0	0	NC
Bromoform	2	0	0	NC
Bromomethane	2	0	0	NC
Carbon tetrachloride	2	0	0	NC
Chlorobenzene	2	0	0	NC
Chloroethane	2	0	0	NC
Chloroform	2	0	0	NC
Chloromethane	2	0	1	0.251 - 0.251
Dibromochloromethane	2	0	0	NC
Dibromomethane	2	0	0	NC
Dichlorodifluoromethane	2	0	0	NC
Ethylbenzene	2	0	0	NC
Hexachlorobutadiene	2	0	0	NC
Isopropylbenzene	2	0	0	NC
Methyl isobutyl ketone (MIBK)	2	0	0	NC
Methyl t-butyl ether	2	0	0	NC
Methylene chloride	2	0	2	0.334 - 0.794
Naphthalene	2	0	0	NC
Styrene	2	0	0	NC
Tert-Butyl alcohol	2	0	0	NC
Tetrachloroethene	2	0	0	NC
Toluene	2	0	0	NC
Trichloroethene	2	0	0	NC
Trichlorofluoromethane	2	0	0	NC
Vinyl chloride	2	0	0	NC
cis-1,2-Dichloroethene	2	0	0	NC
cis-1,3-Dichloropropene	2	0	0	NC

Table C-1 Summary Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Analyte	Number of Blanks	Number Above Sample RL	Number Above SDL	Concentration Range
SW8260B - Volatile Organic Compounds, (ug/L)				
Type of Blank : Trip Blank, cont.				
m&p-Xylene	2	0	0	NC
n-Butylbenzene	2	0	0	NC
n-Propylbenzene	2	0	0	NC
o-Xylene	2	0	0	NC
p-Isopropyltoluene	2	0	0	NC
sec-Butylbenzene	2	0	0	NC
tert-Butylbenzene	2	0	0	NC
trans-1,2-Dichloroethene	2	0	0	NC
trans-1,3-Dichloropropene	2	0	0	NC

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Method : SW8011 - Ethylene Dibromide							
Type of Spike : Laboratory Control 1,2-Dibromoethane	1	1	109-109	109	0	0	80-120
Type of Spike : Matrix Spike 1,2-Dibromoethane	2	2	79-89	84	1	0	80-120
Type of Spike : Surrogate - Equipment Blank 1,2-Dibromopropane	1	1	94-94	94	0	0	70-120
Type of Spike : Surrogate - Field Duplicate 1,2-Dibromopropane	1	1	118-118	118	0	0	70-120
Type of Spike : Surrogate - Laboratory Control 1,2-Dibromopropane	1	1	97-97	97	0	0	70-120
Type of Spike : Surrogate - Matrix Spike 1,2-Dibromopropane	2	2	101-104	103	0	0	70-120
Type of Spike : Surrogate - Method Blank 1,2-Dibromopropane	1	1	114-114	114	0	0	70-120
Type of Spike : Surrogate - Normal Sample 1,2-Dibromopropane	8	8	97-112	104	0	0	70-120
Type of Spike : Surrogate - Trip Blank 1,2-Dibromopropane	2	2	101-108	105	0	0	70-120
Method : SW8260B - Volatile Organic Compounds							
Type of Spike : Laboratory Control 1,1,1,2-Tetrachloroethane	4	4	88-107	99	0	0	81-129
1,1,1-Trichloroethane	4	4	96-114	103	0	0	67-132
1,1,2,2-Tetrachloroethane	4	4	86-98	90	0	0	63-128
1,1,2-Trichloroethane	4	4	92-101	96	0	0	75-125
1,1-Dichloroethane	4	4	97-113	103	0	0	69-133
1,1-Dichloroethene	4	4	98-122	105	0	0	68-130
1,1-Dichloropropene	4	4	102-116	107	0	0	73-132
1,2,3-Trichlorobenzene	4	4	91-102	97	0	0	67-137
1,2,3-Trichloropropane	4	4	92-103	97	0	0	73-124
1,2,4-Trichlorobenzene	4	4	91-100	96	0	0	66-134
1,2,4-Trimethylbenzene	4	4	97-101	99	0	0	74-132
1,2-Dibromo-3-chloropropane	4	4	87-102	94	0	0	50-132
1,2-Dibromoethane	4	4	95-104	99	0	0	80-121
1,2-Dichlorobenzene	4	4	93-98	95	0	0	71-122
1,2-Dichloroethane	4	4	93-118	102	0	0	69-132
1,2-Dichloropropane	4	4	97-107	104	0	0	75-125

Date Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NS = Not Specified

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Method : SW8260B - Volatile Organic Compounds							
Type of Spike : Laboratory Control, cont.							
1,3,5-Trimethylbenzene	4	4	100-104	101	0	0	74-131
1,3-Dichlorobenzene	4	4	96-99	97	0	0	75-124
1,3-Dichloropropane	4	4	91-98	94	0	0	73-126
1,4-Dichlorobenzene	4	4	94-99	96	0	0	74-123
1-Chlorohexane	4	4	99-104	102	0	0	70-125
2,2-Dichloropropane	4	4	93-123	104	0	0	69-137
2-Butanone(MEK)	4	4	84-111	96	0	0	49-136
2-Chlorotoluene	4	4	92-102	99	0	0	73-126
4-Chlorotoluene	4	4	92-99	96	0	0	74-128
Acetone	4	4	85-112	96	0	0	40-135
Benzene	4	4	99-106	103	0	0	81-122
Bromobenzene	4	4	96-100	98	0	0	76-124
Bromochloromethane	4	4	98-119	108	0	0	65-129
Bromodichloromethane	4	4	98-119	105	0	0	76-121
Bromoform	4	4	90-100	95	0	0	69-128
Bromomethane	4	4	90-133	108	0	0	30-141
Carbon tetrachloride	4	4	96-113	103	0	0	66-138
Chlorobenzene	4	4	96-100	98	0	0	81-122
Chloroethane	4	4	104-121	114	0	0	58-133
Chloroform	4	4	97-114	104	0	0	69-128
Chloromethane	4	4	96-116	105	0	0	56-131
Dibromochloromethane	4	4	88-106	99	0	0	66-133
Dibromomethane	4	4	94-110	101	0	0	76-125
Dichlorodifluoromethane	4	4	96-164	129	0	1	30-153
Ethylbenzene	4	4	98-101	100	0	0	73-127
Hexachlorobutadiene	4	4	96-115	103	0	0	67-131
Isopropylbenzene	4	4	88-90	89	0	0	75-127
Methyl isobutyl ketone (MIBK)	4	4	86-108	96	0	0	58-134
Methyl t-butyl ether	4	4	90-118	101	0	0	65-123
Methylene chloride	4	4	92-100	97	0	0	63-137
Naphthalene	4	4	90-103	96	0	0	54-138
Styrene	4	4	99-103	100	0	0	65-134
Tert-Butyl alcohol	4	4	75-102	88	0	0	50-150
Tetrachloroethene	4	4	99-103	101	0	0	66-128
Toluene	4	4	97-101	98	0	0	77-122
Trichloroethene	4	4	101-112	106	0	0	70-127
Trichlorofluoromethane	4	4	103-133	112	0	1	57-129
Vinyl chloride	4	4	95-124	111	0	0	50-134
cis-1,2-Dichloroethene	4	4	95-109	102	0	0	72-126
cis-1,3-Dichloropropene	4	4	101-109	106	0	0	69-131
m&p-Xylene	4	4	99-102	100	0	0	76-128
n-Butylbenzene	4	4	99-104	101	0	0	69-137
n-Propylbenzene	4	4	98-99	98	0	0	72-129
o-Xylene	4	4	99-103	100	0	0	80-121
p-Isopropyltoluene	4	4	97-99	98	0	0	73-130
sec-Butylbenzene	4	4	100-104	102	0	0	72-127

Date Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NS = Not Specified

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

C-2-2

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Method : SW8260B - Volatile Organic Compounds							
Type of Spike : Laboratory Control, cont.							
tert-Butylbenzene	4	4	97-102	100	0	0	70-129
trans-1,2-Dichloroethene	4	4	101-116	108	0	0	63-137
trans-1,3-Dichloropropene	4	4	83-95	89	0	0	59-135
Type of Spike : Matrix Spike							
1,1,1,2-Tetrachloroethane	2	2	96-101	99	0	0	81-129
1,1,1-Trichloroethane	2	2	93-97	95	0	0	67-132
1,1,2,2-Tetrachloroethane	2	2	94-99	96	0	0	63-128
1,1,2-Trichloroethane	2	2	98-102	100	0	0	75-125
1,1-Dichloroethane	2	2	93-100	96	0	0	69-133
1,1-Dichloroethene	2	2	91-94	93	0	0	68-130
1,1-Dichloropropene	2	2	96-100	98	0	0	73-132
1,2,3-Trichlorobenzene	2	2	92-97	95	0	0	67-137
1,2,3-Trichloropropene	2	2	95-100	97	0	0	73-124
1,2,4-Trichlorobenzene	2	2	88-94	91	0	0	66-134
1,2,4-Trimethylbenzene	2	2	89-97	93	0	0	74-132
1,2-Dibromo-3-chloropropene	2	2	91-98	95	0	0	50-132
1,2-Dibromoethane	2	2	100-104	102	0	0	80-121
1,2-Dichlorobenzene	2	2	92-98	95	0	0	71-122
1,2-Dichloroethane	2	2	89-95	92	0	0	69-132
1,2-Dichloropropene	2	2	97-102	99	0	0	75-125
1,3,5-Trimethylbenzene	2	2	93-99	96	0	0	74-131
1,3-Dichlorobenzene	2	2	91-98	95	0	0	75-124
1,3-Dichloropropene	2	2	94-99	97	0	0	73-126
1,4-Dichlorobenzene	2	2	91-98	94	0	0	74-123
1-Chlorohexane	2	2	94-98	96	0	0	70-125
2,2-Dichloropropene	2	2	89-93	91	0	0	69-137
2-Butanone(MEK)	2	2	97-101	99	0	0	49-136
2-Chlorotoluene	2	2	87-103	95	0	0	73-126
4-Chlorotoluene	2	2	93-95	94	0	0	74-128
Acetone	2	2	146-149	148	0	2	40-135
Benzene	2	2	82-88	85	0	0	81-122
Bromobenzene	2	2	94-101	97	0	0	76-124
Bromochloromethane	2	2	97-104	100	0	0	65-129
Bromodichloromethane	2	2	95-100	97	0	0	76-121
Bromoform	2	2	95-100	98	0	0	69-128
Bromomethane	2	2	111-117	114	0	0	30-141
Carbon tetrachloride	2	2	94-97	95	0	0	66-138
Chlorobenzene	2	2	93-100	96	0	0	81-122
Chloroethane	2	2	93-97	95	0	0	58-133
Chloroform	2	2	98-103	100	0	0	69-128
Chloromethane	2	2	89-97	93	0	0	56-131
Dibromochloromethane	2	2	99-103	101	0	0	66-133
Dibromomethane	2	2	93-98	95	0	0	76-125
Dichlorodifluoromethane	2	2	82-86	84	0	0	30-153
Ethylbenzene	2	2	94-100	97	0	0	73-127

Date Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NS = Not Specified

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Method : SW8260B - Volatile Organic Compounds							
Type of Spike : Matrix Spike, cont.							
Hexachlorobutadiene	2	2	87-92	89	0	0	67-131
Isopropylbenzene	2	2	80-85	82	0	0	75-127
Methyl isobutyl ketone (MIBK)	2	2	88-91	90	0	0	58-134
Methyl t-butyl ether	2	2	95-97	96	0	0	65-123
Methylene chloride	2	2	127-129	128	0	0	63-137
Naphthalene	2	2	95-100	98	0	0	54-138
Styrene	2	2	96-102	99	0	0	65-134
Tert-Butyl alcohol	2	2	95-100	98	0	0	50-150
Tetrachloroethene	2	2	94-97	96	0	0	66-128
Toluene	2	2	94-99	96	0	0	77-122
Trichloroethene	2	2	96-101	99	0	0	70-127
Trichlorofluoromethane	2	2	94-97	95	0	0	57-129
Vinyl chloride	2	2	87-92	90	0	0	50-134
cis-1,2-Dichloroethene	2	2	95-100	97	0	0	72-126
cis-1,3-Dichloropropene	2	2	98-103	100	0	0	69-131
m&p-Xylene	2	2	92-99	95	0	0	76-128
n-Butylbenzene	2	2	91-97	94	0	0	69-137
n-Propylbenzene	2	2	92-98	95	0	0	72-129
o-Xylene	2	2	94-100	97	0	0	80-121
p-Isopropyltoluene	2	2	90-96	93	0	0	73-130
sec-Butylbenzene	2	2	93-99	96	0	0	72-127
tert-Butylbenzene	2	2	93-99	96	0	0	70-129
trans-1,2-Dichloroethene	2	2	97-102	100	0	0	63-137
trans-1,3-Dichloropropene	2	2	91-96	93	0	0	59-135
Type of Spike : Surrogate - Equipment Blank							
1,2-Dichloroethane-d4	1	1	85-85	85	0	0	72-119
4-Bromofluorobenzene	1	1	97-97	97	0	0	76-119
Dibromofluoromethane	1	1	98-98	98	0	0	85-115
Toluene-d8	1	1	100-100	100	0	0	81-120
Type of Spike : Surrogate - Field Duplicate							
1,2-Dichloroethane-d4	1	1	96-96	96	0	0	72-119
4-Bromofluorobenzene	1	1	99-99	99	0	0	76-119
Dibromofluoromethane	1	1	102-102	102	0	0	85-115
Toluene-d8	1	1	102-102	102	0	0	81-120
Type of Spike : Surrogate - Laboratory Control							
1,2-Dichloroethane-d4	4	4	83-100	91	0	0	72-119
4-Bromofluorobenzene	4	4	91-98	95	0	0	76-119
Dibromofluoromethane	4	4	93-104	98	0	0	85-115
Toluene-d8	4	4	91-99	96	0	0	81-120

Table C-2 Summary Listing of Liquid Spike Results For Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Analyte	No. of Spikes	No. of Spikes Assessed #	Range of Recoveries (%)	Mean Recovery (%)	Below Accept	Above Accept	Acceptance Criteria (%)
Type of Spike : Surrogate - Matrix Spike							
1,2-Dichloroethane-d4	2	2	96-98	97	0	0	72-119
4-Bromofluorobenzene	2	2	100-100	100	0	0	76-119
Dibromofluoromethane	2	2	99-101	100	0	0	85-115
Toluene-d8	2	2	101-103	102	0	0	81-120
Type of Spike : Surrogate - Method Blank							
1,2-Dichloroethane-d4	4	4	82-96	92	0	0	72-119
4-Bromofluorobenzene	4	4	96-101	99	0	0	76-119
Dibromofluoromethane	4	4	97-103	100	0	0	85-115
Toluene-d8	4	4	94-104	100	0	0	81-120
Type of Spike : Surrogate - Normal Sample							
1,2-Dichloroethane-d4	8	8	85-99	95	0	0	72-119
4-Bromofluorobenzene	8	8	93-100	99	0	0	76-119
Dibromofluoromethane	8	8	96-102	100	0	0	85-115
Toluene-d8	8	8	94-104	101	0	0	81-120
Type of Spike : Surrogate - Trip Blank							
1,2-Dichloroethane-d4	2	2	84-93	88	0	0	72-119
4-Bromofluorobenzene	2	2	96-99	97	0	0	76-119
Dibromofluoromethane	2	2	96-99	97	0	0	85-115
Toluene-d8	2	2	97-102	99	0	0	81-120

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Parameter	Number of Pairs	No. of Pairs Assessed*	Range of RPDs (%)	Above Accept	Acceptance RPD (%)
Method: SW8011 - Ethylene Dibromide					
Type of Duplicate : Field Duplicate					
1,2-Dibromoethane	1	0	NC - NC	0	20
Method: SW8011 - Ethylene Dibromide					
Type of Duplicate : Matrix Spike Duplicate					
1,2-Dibromoethane	1	1	NC - 8.65	0	20
Method: SW8260B - Volatile Organic Compounds					
Type of Duplicate : Field Duplicate					
1,1,1,2-Tetrachloroethane	1	0	NC - NC	0	20
1,1,1-Trichloroethane	1	0	NC - NC	0	20
1,1,2,2-Tetrachloroethane	1	0	NC - NC	0	20
1,1,2-Trichloroethane	1	0	NC - NC	0	20
1,1-Dichloroethane	1	0	NC - NC	0	20
1,1-Dichloroethene	1	0	NC - NC	0	20
1,1-Dichloropropene	1	0	NC - NC	0	20
1,2,3-Trichlorobenzene	1	0	NC - NC	0	20
1,2,3-Trichloropropane	1	0	NC - NC	0	20
1,2,4-Trichlorobenzene	1	0	NC - NC	0	20
1,2,4-Trimethylbenzene	1	0	NC - NC	0	20
1,2-Dibromo-3-chloropropane	1	0	NC - NC	0	20
1,2-Dibromoethane	1	0	NC - NC	0	20
1,2-Dichlorobenzene	1	0	NC - NC	0	20
1,2-Dichloroethane	1	0	NC - NC	0	20
1,2-Dichloropropane	1	0	NC - NC	0	20
1,3,5-Trimethylbenzene	1	0	NC - NC	0	20
1,3-Dichlorobenzene	1	0	NC - NC	0	20
1,3-Dichloropropane	1	0	NC - NC	0	20
1,4-Dichlorobenzene	1	0	NC - NC	0	20
1-Chlorohexane	1	0	NC - NC	0	20
2,2-Dichloropropane	1	0	NC - NC	0	20
2-Butanone(MEK)	1	0	NC - NC	0	20
2-Chlorotoluene	1	0	NC - NC	0	20
4-Chlorotoluene	1	0	NC - NC	0	20
Acetone	1	0	NC - NC	0	20
Benzene	1	1	NC - 1.73	0	20
Bromobenzene	1	0	NC - NC	0	20
Bromochloromethane	1	0	NC - NC	0	20
Bromodichloromethane	1	0	NC - NC	0	20
Bromoform	1	0	NC - NC	0	20
Bromomethane	1	0	NC - NC	0	20
Carbon tetrachloride	1	0	NC - NC	0	20
Chlorobenzene	1	0	NC - NC	0	20
Chloroethane	1	0	NC - NC	0	20
Chloroform	1	0	NC - NC	0	20

Compiled: 01/07/10

NC = Not Calculable ND = Not Detected NS = Not Specified

C-3-1

Statistics include only detected concentrations.

* Pairs for which one or both of the results were below the RL or not detected are excluded from evaluation.

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Parameter	Number of Pairs	No. of Pairs Assessed*	Range of RPDs (%)	Above Accept	Acceptance RPD (%)
Chloromethane	1	0	NC - NC	0	20
Dibromochloromethane	1	0	NC - NC	0	20
Dibromomethane	1	0	NC - NC	0	20
Dichlorodifluoromethane	1	0	NC - NC	0	20
Ethylbenzene	1	0	NC - NC	0	20
Hexachlorobutadiene	1	0	NC - NC	0	20
Isopropylbenzene	1	1	NC - 0.952	0	20
Methyl isobutyl ketone (MIBK)	1	0	NC - NC	0	20
Methyl t-butyl ether	1	0	NC - NC	0	20
Methylene chloride	1	0	NC - NC	0	20
Naphthalene	1	0	NC - NC	0	20
Styrene	1	0	NC - NC	0	20
Tert-Butyl alcohol	1	0	NC - NC	0	20
Tetrachloroethene	1	1	NC - 3.52	0	20
Toluene	1	0	NC - NC	0	20
Trichloroethene	1	1	NC - 0.881	0	20
Trichlorofluoromethane	1	0	NC - NC	0	20
Vinyl chloride	1	0	NC - NC	0	20
cis-1,2-Dichloroethene	1	0	NC - NC	0	20
cis-1,3-Dichloropropene	1	0	NC - NC	0	20
m&p-Xylene	1	0	NC - NC	0	20
n-Butylbenzene	1	0	NC - NC	0	20
n-Propylbenzene	1	0	NC - NC	0	20
o-Xylene	1	0	NC - NC	0	20
p-Isopropyltoluene	1	0	NC - NC	0	20
sec-Butylbenzene	1	0	NC - NC	0	20
tert-Butylbenzene	1	0	NC - NC	0	20
trans-1,2-Dichloroethene	1	0	NC - NC	0	20
trans-1,3-Dichloropropene	1	0	NC - NC	0	20

Method: SW8260B - Volatile Organic Compounds

Type of Duplicate : Matrix Spike Duplicate

1,1,1,2-Tetrachloroethane	1	1	NC - 5.08	0	20
1,1,1-Trichloroethane	1	1	NC - 4.21	0	20
1,1,2,2-Tetrachloroethane	1	1	NC - 5.18	0	20
1,1,2-Trichloroethane	1	1	NC - 4.51	0	20
1,1-Dichloroethane	1	1	NC - 6.22	0	20
1,1-Dichloroethene	1	1	NC - 2.70	0	20
1,1-Dichloropropene	1	1	NC - 3.56	0	20
1,2,3-Trichlorobenzene	1	1	NC - 5.80	0	20
1,2,3-Trichloropropane	1	1	NC - 6.15	0	20
1,2,4-Trichlorobenzene	1	1	NC - 6.06	0	20
1,2,4-Trimethylbenzene	1	1	NC - 6.59	0	20
1,2-Dibromo-3-chloropropane	1	1	NC - 6.86	0	20
1,2-Dibromoethane	1	1	NC - 3.42	0	20
1,2-Dichlorobenzene	1	1	NC - 6.32	0	20
1,2-Dichloroethane	1	1	NC - 4.60	0	20

Compiled: 01/07/10

NC = Not Calculable ND = Not Detected NS = Not Specified

C-3-2

Statistics include only detected concentrations.

* Pairs for which one or both of the results were below the RL or not detected are excluded from evaluation.

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Parameter	Number of Pairs	No. of Pairs Assessed*	Range of RPDs (%)	Above Accept	Acceptance RPD (%)
1,2-Dichloropropane	1	1	NC - 5.05	0	20
1,3,5-Trimethylbenzene	1	1	NC - 5.10	0	20
1,3-Dichlorobenzene	1	1	NC - 7.92	0	20
1,3-Dichloropropane	1	1	NC - 5.15	0	20
1,4-Dichlorobenzene	1	1	NC - 7.96	0	20
1-Chlorohexane	1	1	NC - 4.19	0	20
2,2-Dichloropropane	1	1	NC - 4.42	0	20
2-Butanone(MEK)	1	1	NC - 4.04	0	20
2-Chlorotoluene	1	1	NC - 16.84	0	20
4-Chlorotoluene	1	1	NC - 2.65	0	20
Acetone	1	1	NC - 2.03	0	20
Benzene	1	1	NC - 3.85	0	20
Bromobenzene	1	1	NC - 7.18	0	20
Bromochloromethane	1	1	NC - 6.97	0	20
Bromodichloromethane	1	1	NC - 6.15	0	20
Bromoform	1	1	NC - 5.13	0	20
Bromomethane	1	1	NC - 5.61	0	20
Carbon tetrachloride	1	1	NC - 3.67	0	20
Chlorobenzene	1	1	NC - 6.75	0	20
Chloroethane	1	1	NC - 4.63	0	20
Chloroform	1	1	NC - 5.97	0	20
Chloromethane	1	1	NC - 8.17	0	20
Dibromochloromethane	1	1	NC - 3.96	0	20
Dibromomethane	1	1	NC - 4.72	0	20
Dichlorodifluoromethane	1	1	NC - 4.28	0	20
Ethylbenzene	1	1	NC - 5.35	0	20
Hexachlorobutadiene	1	1	NC - 6.16	0	20
Isopropylbenzene	1	1	NC - 5.13	0	20
Methyl isobutyl ketone (MIBK)	1	1	NC - 3.35	0	20
Methyl t-butyl ether	1	1	NC - 1.66	0	20
Methylene chloride	1	1	NC - 1.56	0	20
Naphthalene	1	1	NC - 5.00	0	20
Styrene	1	1	NC - 6.58	0	20
Tert-Butyl alcohol	1	1	NC - 4.10	0	20
Tetrachloroethene	1	1	NC - 3.66	0	20
Toluene	1	1	NC - 5.33	0	20
Trichloroethene	1	1	NC - 4.58	0	20
Trichlorofluoromethane	1	1	NC - 2.94	0	20
Vinyl chloride	1	1	NC - 5.82	0	20
cis-1,2-Dichloroethene	1	1	NC - 5.13	0	20
cis-1,3-Dichloropropene	1	1	NC - 5.49	0	20
m&p-Xylene	1	1	NC - 5.68	0	20
n-Butylbenzene	1	1	NC - 6.15	0	20
n-Propylbenzene	1	1	NC - 5.71	0	20
o-Xylene	1	1	NC - 5.15	0	20
p-Isopropyltoluene	1	1	NC - 6.97	0	20
sec-Butylbenzene	1	1	NC - 5.60	0	20
tert-Butylbenzene	1	1	NC - 6.25	0	20

Compiled: 01/07/10

NC = Not Calculable ND = Not Detected NS = Not Specified

C-3-3

Statistics include only detected concentrations.

* Pairs for which one or both of the results were below the RL or not detected are excluded from evaluation.

Table C-3 Summary of Liquid Duplicates for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Parameter	Number of Pairs	No. of Pairs Assessed*	Range of RPDs (%)	Above Accept	Acceptance RPD (%)
trans-1,2-Dichloroethene	1	1	NC - 5.03	0	20
trans-1,3-Dichloropropene	1	1	NC - 5.35	0	20

Attachment D

Detailed QC Results

Attachment D Table of Contents

Table D-1	Detailed Listing of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - November 2009
Table D-2	Detailed Listing of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - November 2009
Table D-3	Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - November 2009

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8011 - Ethylene Dibromide Analyte : 1,2-Dibromoethane Type of Blank : Equipment Blank								
09-DEC-09	WG-B760-MW11-075	WG319319	WG319319	ND	0.00714	0.0204	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Method : SW8011 - Ethylene Dibromide Analyte : 1,2-Dibromoethane Type of Blank : Method Blank								
09-DEC-09	BLANK-319319-01	WG319319	WG319319	ND	0.00700	0.0200	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Method : SW8011 - Ethylene Dibromide Analyte : 1,2-Dibromoethane Type of Blank : Trip Blank								
09-DEC-09	WQ-ST035-NOV0901	WG319319	WG319319	ND	0.00705	0.0201	ug/L	1
09-DEC-09	WQ-ST035-NOV0902	WG319319	WG319319	ND	0.00708	0.0202	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1,2-Tetrachloroethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

D-1-1

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1,2-Tetrachloroethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	0.500	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	0.500	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	0.500	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	0.500	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1,2-Tetrachloroethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	0.500	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1-Trichloroethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1-Trichloroethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1-Trichloroethane Type of Blank : Method Blank								
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,1-Trichloroethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2,2-Tetrachloroethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.125	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2,2-Tetrachloroethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.125	0.500	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.125	0.500	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.125	0.500	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.125	0.500	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Compiled: 01/07/10								
ND = Not Detected			NC = Not Calculable			NA = Not Applicable		
SDL = Sample Detection Limit			RL = Reporting Limit			ID = Identification		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2,2-Tetrachloroethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.125	0.500	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.125	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2-Trichloroethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2-Trichloroethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1,2-Trichloroethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

D-1-4

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.125	1.00	ug/L	1
				Number of Blanks = 1	Concentration Range:		NC	
				Number above Sample DL = 0	Number above Sample RL = 0			

Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.125	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.125	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.125	1.00	ug/L	1
				Number of Blanks = 4	Concentration Range:		NC	
				Number above Sample DL = 0	Number above Sample RL = 0			

Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.125	1.00	ug/L	1
				Number of Blanks = 2	Concentration Range:		NC	
				Number above Sample DL = 0	Number above Sample RL = 0			

Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.500	1.00	ug/L	1
				Number of Blanks = 1	Concentration Range:		NC	
				Number above Sample DL = 0	Number above Sample RL = 0			

Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NA = Not Applicable SDL = Sample Detection Limit RL = Reporting Limit ID = Identification D-1-5								

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.500	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.500	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.500	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.500	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloroethene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.500	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloropropene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloropropene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

D-1-6

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloropropene Type of Blank : Method Blank								
Method : SW8260B - Volatile Organic Compounds Analyte : 1,1-Dichloropropene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichlorobenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.150	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichlorobenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.150	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.150	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.150	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.150	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Compiled: 01/07/10								
ND = Not Detected			NC = Not Calculable			NA = Not Applicable		
SDL = Sample Detection Limit			RL = Reporting Limit			ID = Identification		
								D-1-7

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichlorobenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.150	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.150	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichloropropane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichloropropane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.500	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.500	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.500	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.500	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,3-Trichloropropane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.500	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trichlorobenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.200	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trichlorobenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.200	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.200	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.200	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.200	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trichlorobenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.200	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.200	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trimethylbenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trimethylbenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2,4-Trimethylbenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromo-3-chloropropane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	1.00	2.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromo-3-chloropropane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	1.00	2.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	1.00	2.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	1.00	2.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	1.00	2.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

D-1-10

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromo-3-chloropropane Type of Blank : Method Blank								
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromo-3-chloropropane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	1.00	2.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	1.00	2.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromoethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromoethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Compiled: 01/07/10								
ND = Not Detected			NC = Not Calculable			NA = Not Applicable		
SDL = Sample Detection Limit			RL = Reporting Limit			ID = Identification		
								D-1-11

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dibromoethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichlorobenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichlorobenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.125	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.125	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.125	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichlorobenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloroethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloroethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	0.500	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	0.500	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	0.500	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	0.500	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloroethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	0.500	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloropropane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.200	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

D-1-13

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloropropane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.200	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.200	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.200	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.200	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,2-Dichloropropane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-N0V0901	WG319017	WG319017	ND	0.200	1.00	ug/L	1
07-DEC-09	WQ-ST035-N0V0902	WG319126	WG319126	ND	0.200	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3,5-Trimethylbenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3,5-Trimethylbenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

D-1-14

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3,5-Trimethylbenzene Type of Blank : Method Blank								
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3,5-Trimethylbenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichlorobenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichlorobenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Compiled: 01/07/10								
ND = Not Detected			NC = Not Calculable			NA = Not Applicable		
SDL = Sample Detection Limit			RL = Reporting Limit			ID = Identification		
								D-1-15

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichlorobenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichloropropane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.200	0.400	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichloropropane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.200	0.400	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.200	0.400	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.200	0.400	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.200	0.400	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,3-Dichloropropane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.200	0.400	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.200	0.400	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1,4-Dichlorobenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.125	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,4-Dichlorobenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.125	0.500	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.125	0.500	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.125	0.500	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.125	0.500	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1,4-Dichlorobenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.125	0.500	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.125	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 1-Chlorohexane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 1-Chlorohexane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.125	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.125	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.125	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 1-Chlorohexane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 2,2-Dichloropropane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 2,2-Dichloropropane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
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Method : SW8260B - Volatile Organic Compounds
 Analyte : 2,2-Dichloropropane
 Type of Blank : Method Blank

Method : SW8260B - Volatile Organic Compounds
 Analyte : 2,2-Dichloropropane
 Type of Blank : Trip Blank

04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1

Number of Blanks = 2
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : 2-Butanone(MEK)
 Type of Blank : Equipment Blank

04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	2.50	10	ug/L	1
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Number of Blanks = 1
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : 2-Butanone(MEK)
 Type of Blank : Method Blank

04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	2.50	10	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	2.50	10	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	2.50	10	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	2.50	10	ug/L	1

Number of Blanks = 4
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 2-Butanone(MEK) Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	2.50	10	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	2.50	10	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 2-Chlorotoluene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 2-Chlorotoluene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.125	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.125	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.125	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : 2-Chlorotoluene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : 4-Chlorotoluene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 4-Chlorotoluene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : 4-Chlorotoluene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Acetone Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	2.50	10	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds								
Analyte : Acetone								
Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	2.50	10	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	2.50	10	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	2.50	10	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	2.50	10	ug/L	1
Number of Blanks = 4					Concentration Range:		NC	
Number above Sample DL = 0					Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds								
Analyte : Acetone								
Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	3.65	2.50	10	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	2.50	10	ug/L	1
Number of Blanks = 2					Concentration Range:		3.65 - 3.65	
Number above Sample DL = 1					Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds								
Analyte : Benzene								
Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.125	0.400	ug/L	1
Number of Blanks = 1					Concentration Range:		- NC	
Number above Sample DL = 0					Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds								
Analyte : Benzene								
Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.125	0.400	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.125	0.400	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.125	0.400	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.125	0.400	ug/L	1
Number of Blanks = 4					Concentration Range:		NC	
Number above Sample DL = 0					Number above Sample RL = 0			

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Benzene Type of Blank : Method Blank								
Method : SW8260B - Volatile Organic Compounds Analyte : Benzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.125	0.400	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.125	0.400	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Bromobenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Bromobenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.125	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.125	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.125	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Compiled: 01/07/10			ND = Not Detected NC = Not Calculable		NA = Not Applicable		ID = Identification	
			SDL = Sample Detection Limit		RL = Reporting Limit		D-1-23	

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Bromobenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Bromochloromethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.200	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Bromochloromethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.200	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.200	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.200	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.200	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Bromochloromethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.200	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.200	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Bromodichloromethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Bromodichloromethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	0.500	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	0.500	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	0.500	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	0.500	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Bromodichloromethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	0.500	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Bromoform Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Bromoform Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.500	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.500	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.500	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.500	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Bromoform Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.500	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Bromomethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.500	3.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Bromomethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.500	3.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.500	3.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.500	3.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.500	3.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Bromomethane Type of Blank : Method Blank								
Method : SW8260B - Volatile Organic Compounds Analyte : Bromomethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.500	3.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.500	3.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Carbon tetrachloride Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Carbon tetrachloride Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Compiled: 01/07/10								
ND = Not Detected			NC = Not Calculable			NA = Not Applicable		
SDL = Sample Detection Limit			RL = Reporting Limit			ID = Identification		
								D-1-27

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Carbon tetrachloride Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Chlorobenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.125	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Chlorobenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.125	0.500	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.125	0.500	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.125	0.500	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.125	0.500	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Chlorobenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.125	0.500	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.125	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.500	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.500	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.500	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.500	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.500	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroform Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.125	0.300	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 01/07/10

ND = Not Detected NC = Not Calculable NA = Not Applicable
 SDL = Sample Detection Limit RL = Reporting Limit ID = Identification

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroform Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.125	0.300	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.125	0.300	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.125	0.300	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.125	0.300	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Chloroform Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.125	0.300	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.125	0.300	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Chloromethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Chloromethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Compiled: 01/07/10

ND = Not Detected NC = Not Calculable NA = Not Applicable
 SDL = Sample Detection Limit RL = Reporting Limit ID = Identification

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Chloromethane Type of Blank : Method Blank								
Method : SW8260B - Volatile Organic Compounds Analyte : Chloromethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	0.251	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 1				Concentration Range: 0.251 - 0.251 Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromochloromethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromochloromethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	0.500	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	0.500	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	0.500	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	0.500	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Compiled: 01/07/10								
ND = Not Detected			NC = Not Calculable			NA = Not Applicable		
SDL = Sample Detection Limit			RL = Reporting Limit			ID = Identification		
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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromochloromethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	0.500	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromomethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromomethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Dibromomethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Willfams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Dichlorodifluoromethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
				Number of Blanks = 1 Number above Sample DL = 0		Concentration Range: NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Dichlorodifluoromethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
				Number of Blanks = 4 Number above Sample DL = 0		Concentration Range: NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Dichlorodifluoromethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
				Number of Blanks = 2 Number above Sample DL = 0		Concentration Range: NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Ethylbenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
				Number of Blanks = 1 Number above Sample DL = 0		Concentration Range: NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Ethylbenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Ethylbenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Hexachlorobutadiene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	0.600	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Hexachlorobutadiene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	0.600	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	0.600	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	0.600	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	0.600	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
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Method : SW8260B - Volatile Organic Compounds
 Analyte : Hexachlorobutadiene
 Type of Blank : Method Blank

Method : SW8260B - Volatile Organic Compounds
 Analyte : Hexachlorobutadiene
 Type of Blank : Trip Blank

04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	0.600	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	0.600	ug/L	1

Number of Blanks = 2
 Number above Sample DL = 0

Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : Isopropylbenzene
 Type of Blank : Equipment Blank

04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
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Number of Blanks = 1
 Number above Sample DL = 0

Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : Isopropylbenzene
 Type of Blank : Method Blank

04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1

Number of Blanks = 4
 Number above Sample DL = 0

Concentration Range: NC
 Number above Sample RL = 0

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Isopropylbenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl isobutyl ketone (MIBK) Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	2.50	10	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl isobutyl ketone (MIBK) Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	2.50	10	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	2.50	10	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	2.50	10	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	2.50	10	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl isobutyl ketone (MIBK) Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	2.50	10	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	2.50	10	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl t-butyl ether Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.500	5.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl t-butyl ether Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.500	5.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.500	5.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.500	5.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.500	5.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Methyl t-butyl ether Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.500	5.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.500	5.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Methylene chloride Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Methylene chloride Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Methylene chloride Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	0.334	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	0.794	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 2					Concentration Range: 0.334 - 0.794 Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Naphthalene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.200	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Naphthalene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.200	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.200	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.200	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.200	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Naphthalene Type of Blank : Method Blank								
Method : SW8260B - Volatile Organic Compounds Analyte : Naphthalene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.200	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.200	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Styrene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Styrene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.125	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.125	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.125	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Styrene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Tert-Butyl alcohol Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	50	100	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Tert-Butyl alcohol Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	50	100	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	50	100	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	50	100	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	50	100	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : Tert-Butyl alcohol Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	50	100	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	50	100	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Tetrachloroethene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Tetrachloroethene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Tetrachloroethene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Toluene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Toluene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Toluene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Trichloroethene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : Trichloroethene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Compiled: 01/07/10

ND = Not Detected NC = Not Calculable NA = Not Applicable
 SDL = Sample Detection Limit RL = Reporting Limit ID = Identification

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Trichloroethene Type of Blank : Method Blank								
Method : SW8260B - Volatile Organic Compounds Analyte : Trichloroethene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Trichlorofluoromethane Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : Trichlorofluoromethane Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : Trichlorofluoromethane Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Vinyl chloride Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Vinyl chloride Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : Vinyl chloride Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,2-Dichloroethene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,2-Dichloroethene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,2-Dichloroethene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,3-Dichloropropene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	0.500	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

D-1-45

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,3-Dichloropropene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	0.500	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	0.500	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	0.500	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	0.500	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : cis-1,3-Dichloropropene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	0.500	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	0.500	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : m&p-Xylene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.500	2.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			
Method : SW8260B - Volatile Organic Compounds Analyte : m&p-Xylene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.500	2.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.500	2.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.500	2.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.500	2.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0					Concentration Range: NC Number above Sample RL = 0			

Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NA = Not Applicable

SDL = Sample Detection Limit

RL = Reporting Limit

ID = Identification

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Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
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Method : SW8260B - Volatile Organic Compounds
 Analyte : m&p-Xylene
 Type of Blank : Method Blank

Method : SW8260B - Volatile Organic Compounds
 Analyte : m&p-Xylene
 Type of Blank : Trip Blank

04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.500	2.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.500	2.00	ug/L	1

Number of Blanks = 2
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : n-Butylbenzene
 Type of Blank : Equipment Blank

04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
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Number of Blanks = 1
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Method : SW8260B - Volatile Organic Compounds
 Analyte : n-Butylbenzene
 Type of Blank : Method Blank

04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1

Number of Blanks = 4
 Number above Sample DL = 0
 Concentration Range: NC
 Number above Sample RL = 0

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : n-Butylbenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : n-Propylbenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.125	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : n-Propylbenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.125	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.125	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.125	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Method : SW8260B - Volatile Organic Compounds Analyte : n-Propylbenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.125	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.125	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : o-Xylene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : o-Xylene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : o-Xylene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : p-Isopropyltoluene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : p-Isopropyltoluene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : p-Isopropyltoluene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : sec-Butylbenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : sec-Butylbenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : sec-Butylbenzene Type of Blank : Method Blank								
Method : SW8260B - Volatile Organic Compounds Analyte : sec-Butylbenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : tert-Butylbenzene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : tert-Butylbenzene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : tert-Butylbenzene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,2-Dichloroethene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.250	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,2-Dichloroethene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.250	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.250	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.250	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,2-Dichloroethene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.250	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.250	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range:		NC Number above Sample RL = 0		

Table D-1 Detailed Listing Of Liquid Blanks Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	RESULT	SDL	SAMPLE RL	UNITS	DILUTION FACTOR
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,3-Dichloropropene Type of Blank : Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	ND	0.500	1.00	ug/L	1
Number of Blanks = 1 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,3-Dichloropropene Type of Blank : Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	ND	0.500	1.00	ug/L	1
07-DEC-09	BLANK-319126-01	WG319126	WG319126	ND	0.500	1.00	ug/L	1
08-DEC-09	BLANK-319206-01	WG319206	WG319206	ND	0.500	1.00	ug/L	1
09-DEC-09	BLANK-319310-01	WG319310	WG319310	ND	0.500	1.00	ug/L	1
Number of Blanks = 4 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Method : SW8260B - Volatile Organic Compounds Analyte : trans-1,3-Dichloropropene Type of Blank : Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	ND	0.500	1.00	ug/L	1
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	ND	0.500	1.00	ug/L	1
Number of Blanks = 2 Number above Sample DL = 0				Concentration Range: NC Number above Sample RL = 0				
Compiled: 01/07/10								
ND = Not Detected			NC = Not Calculable			NA = Not Applicable		
SDL = Sample Detection Limit			RL = Reporting Limit			ID = Identification		
								D-1-53

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromoethane
 Type of Spike : Laboratory Control

09-DEC-09	LCS-319319-02	WG319319	WG319319	NA	0.114	0.125	ug/L	109
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 80-120

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromoethane
 Type of Spike : Matrix Spike

09-DEC-09	WG-B760-MW10-073	WG319319	WG319319	0.0762	0.113	0.166	ug/L	79
09-DEC-09	WG-B760-MW10-073	WG319319	WG319319	0.0762	0.118	0.181	ug/L	89

Number of Spikes = 2
 Number Below acceptance = 1
 Number Above acceptance = 0
 Acceptance Criteria = 80-120

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Equipment Blank

09-DEC-09	WG-B760-MW11-075	WG319319	WG319319	NA	2.50	2.35	ug/L	94
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-120

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Field Duplicate

09-DEC-09	WG-B760-MW13-071	WG319319	WG319319	NA	2.50	2.96	ug/L	118
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-120

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8011 - Ethylene Dibromide Spiked Analyte : 1,2-Dibromopropane Type of Spike : Surrogate - Laboratory Control								
09-DEC-09	LCS-319319-02	WG319319	WG319319	NA	2.50	2.42	ug/L	97
Number of Spikes		= 1		Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		70-120		

Method : SW8011 - Ethylene Dibromide Spiked Analyte : 1,2-Dibromopropane Type of Spike : Surrogate - Matrix Spike								
09-DEC-09	WG-B760-MW10-073	WG319319	WG319319	NA	2.50	2.53	ug/L	101
09-DEC-09	WG-B760-MW10-073	WG319319	WG319319	NA	2.50	2.60	ug/L	104
Number of Spikes		= 2		Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		70-120		

Method : SW8011 - Ethylene Dibromide Spiked Analyte : 1,2-Dibromopropane Type of Spike : Surrogate - Method Blank								
09-DEC-09	BLANK-319319-01	WG319319	WG319319	NA	2.50	2.84	ug/L	114
Number of Spikes		= 1		Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		70-120		

Method : SW8011 - Ethylene Dibromide Spiked Analyte : 1,2-Dibromopropane Type of Spike : Surrogate - Normal Sample								
09-DEC-09	WG-B760-MW06R-070	WG319319	WG319319	NA	2.50	2.67	ug/L	107
09-DEC-09	WG-B760-MW07R-070	WG319319	WG319319	NA	2.50	2.57	ug/L	103
09-DEC-09	WG-B760-MW08R-070	WG319319	WG319319	NA	2.50	2.60	ug/L	104
09-DEC-09	WG-B760-MW09-070	WG319319	WG319319	NA	2.50	2.76	ug/L	110
09-DEC-09	WG-B760-MW10-073	WG319319	WG319319	NA	2.50	2.51	ug/L	100
09-DEC-09	WG-B760-MW11-070	WG319319	WG319319	NA	2.50	2.51	ug/L	100
09-DEC-09	WG-B760-MW12-070	WG319319	WG319319	NA	2.50	2.43	ug/L	97

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Normal Sample, cont.

09-DEC-09	WG-B760-MW13-070	WG319319	WG319319	NA	2.50	2.79	ug/L	112
Number of Spikes		=	8	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		70-120		

Method : SW8011 - Ethylene Dibromide
 Spiked Analyte : 1,2-Dibromopropane
 Type of Spike : Surrogate - Trip Blank

09-DEC-09	WQ-ST035-N0V0901	WG319319	WG319319	NA	2.50	2.71	ug/L	108
09-DEC-09	WQ-ST035-N0V0902	WG319319	WG319319	NA	2.50	2.53	ug/L	101
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		70-120		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,1,2-Tetrachloroethane
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	18	ug/L	88
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	100
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	21	ug/L	107
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	102
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		81-129		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,1,2-Tetrachloroethane
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	101
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	96
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,1,2-Tetrachloroethane
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 81-129

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,1-Trichloroethane
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	101
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	96
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	23	ug/L	114
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	103

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 67-132

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,1-Trichloroethane
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	97
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	93

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 67-132

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1,2,2-Tetrachloroethane
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	17	ug/L	86
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	18	ug/L	89
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	18	ug/L	88
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	98

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1,2,2-Tetrachloroethane

Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 63-128

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1,2,2-Tetrachloroethane

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	99
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	94

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 63-128

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1,2-Trichloroethane

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	18	ug/L	92
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	95
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	19	ug/L	96
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	101

Number of Spikes = 4

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 75-125

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,1,2-Trichloroethane

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	102
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	98

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 75-125

Date Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1-Dichloroethane
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	97
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	97
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	23	ug/L	113
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	103

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-133

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1-Dichloroethane
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	100
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	93

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-133

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,1-Dichloroethene
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	98
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	98
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	25	ug/L	122
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	104

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 68-130

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,1-Dichloroethene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	94
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	91
Number of Spikes = 2				Number Below acceptance = 0		Number Above acceptance = 0		Acceptance Criteria = 68-130

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,1-Dichloropropene								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	21	ug/L	102
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	21	ug/L	102
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	23	ug/L	116
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	107
Number of Spikes = 4				Number Below acceptance = 0		Number Above acceptance = 0		Acceptance Criteria = 73-132

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,1-Dichloropropene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	100
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	96
Number of Spikes = 2				Number Below acceptance = 0		Number Above acceptance = 0		Acceptance Criteria = 73-132

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2,3-Trichlorobenzene								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	96
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	18	ug/L	91
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	102

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2,3-Trichlorobenzene								
Type of Spike : Laboratory Control, cont.								
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	98
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		67-137		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2,3-Trichlorobenzene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	97
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	92
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		67-137		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2,3-Trichloropropane								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	18	ug/L	92
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	93
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	21	ug/L	103
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	99
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		73-124		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2,3-Trichloropropane								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	100
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	95
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,3-Trichloropropane
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 73-124

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,4-Trichlorobenzene
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	97
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	18	ug/L	91
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	100
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	19	ug/L	96

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-134

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,4-Trichlorobenzene
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	94
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	88

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-134

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2,4-Trimethylbenzene
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	97
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	98
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	101
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	101

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2,4-Trimethylbenzene

Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 74-132

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2,4-Trimethylbenzene

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	4.16	20	24	ug/L	97
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	4.16	20	22	ug/L	89

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 74-132

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dibromo-3-chloropropane

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	18	ug/L	92
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	17	ug/L	87
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	102
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	19	ug/L	96

Number of Spikes = 4

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 50-132

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dibromo-3-chloropropane

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	98
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	91

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 50-132

Date Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

D-2-10

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dibromoethane
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	95
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	97
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	102
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	104

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 80-121

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dibromoethane
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	21	ug/L	104
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	100

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 80-121

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 1,2-Dichlorobenzene
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	93
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	94
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	19	ug/L	96
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	98

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 71-122

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichlorobenzene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	98
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	92
Number of Spikes = 2				Number Below acceptance = 0		Number Above acceptance = 0		Acceptance Criteria = 71-122

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichloroethane								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	93
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	93
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	24	ug/L	118
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	103
Number of Spikes = 4				Number Below acceptance = 0		Number Above acceptance = 0		Acceptance Criteria = 69-132

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichloroethane								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	9.87	20	29	ug/L	95
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	9.87	20	28	ug/L	89
Number of Spikes = 2				Number Below acceptance = 0		Number Above acceptance = 0		Acceptance Criteria = 69-132

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichloropropane								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	21	ug/L	104
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	97
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	21	ug/L	107

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichloropropane								
Type of Spike : Laboratory Control, cont.								
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	106
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		75-125		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichloropropane								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	102
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	97
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		75-125		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,3,5-Trimethylbenzene								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	100
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	100
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	21	ug/L	104
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	101
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		74-131		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,3,5-Trimethylbenzene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	2.39	20	22	ug/L	99
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	2.39	20	21	ug/L	93
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3,5-Trimethylbenzene

Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 74-131

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3-Dichlorobenzene

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	97
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	96
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	19	ug/L	96
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	99

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 75-124

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3-Dichlorobenzene

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	98
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	91

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 75-124

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3-Dichloropropane

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	18	ug/L	91
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	92
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	19	ug/L	97
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	98

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3-Dichloropropane

Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 73-126

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,3-Dichloropropane

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	99
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	94

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 73-126

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,4-Dichlorobenzene

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	99
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	94
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	19	ug/L	94
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	98

Number of Spikes = 4

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 74-123

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,4-Dichlorobenzene

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	98
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	91

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 74-123

Date Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1-Chlorohexane

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	102
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	21	ug/L	104
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	99
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	103

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-125

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1-Chlorohexane

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	94
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	98

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-125

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 2,2-Dichloropropane

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	93
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	96
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	25	ug/L	123
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	104

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-137

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 2,2-Dichloropropane

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	93
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	89

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-137

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 2-Butanone(MEK)

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	93
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	17	ug/L	84
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	22	ug/L	111
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	19	ug/L	94

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 49-136

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 2-Butanone(MEK)

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	97
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	101

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 49-136

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 2-Chlorotoluene

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	18	ug/L	92
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	102
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	101

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 2-Chlorotoluene								
Type of Spike : Laboratory Control, cont.								
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	100
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		73-126		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 2-Chlorotoluene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	21	ug/L	103
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	17	ug/L	87
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		73-126		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 4-Chlorotoluene								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	99
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	18	ug/L	92
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	98
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	98
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		74-128		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 4-Chlorotoluene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	93
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	95
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 4-Chlorotoluene

Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 74-128

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Acetone

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	18	ug/L	92
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	17	ug/L	85
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	22	ug/L	112
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	19	ug/L	95

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 40-135

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Acetone

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	30	ug/L	149
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	29	ug/L	146

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 2
 Acceptance Criteria = 40-135

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Benzene

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	21	ug/L	102
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	99
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	21	ug/L	106
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	106

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Benzene
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 81-122

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Benzene
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	14	20	32	ug/L	88
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	14	20	31	ug/L	82

Number of Spikes	=	2	Number Below acceptance	=	0
			Number Above acceptance	=	0
			Acceptance Criteria	=	81-122

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Bromobenzene
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	96
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	98
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	100
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	100

Number of Spikes	=	4	Number Below acceptance	=	0
			Number Above acceptance	=	0
			Acceptance Criteria	=	76-124

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Bromobenzene
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	101
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	94

Number of Spikes	=	2	Number Below acceptance	=	0
			Number Above acceptance	=	0
			Acceptance Criteria	=	76-124

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromochloromethane								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	21	ug/L	106
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	98
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	24	ug/L	119
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	22	ug/L	108
Number of Spikes = 4				Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		65-129		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromochloromethane								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	21	ug/L	104
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	97
Number of Spikes = 2				Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		65-129		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromodichloromethane								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	101
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	98
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	24	ug/L	119
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	103
Number of Spikes = 4				Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		76-121		

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromodichloromethane								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	100
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	95
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 76-121				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromoform								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	18	ug/L	90
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	94
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	98
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	100
Number of Spikes = 4				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 69-128				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromoform								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	100
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	95
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 69-128				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromomethane								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	25	33	ug/L	133
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	25	25	ug/L	101
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	22	ug/L	108

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation. D-2-22

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromomethane								
Type of Spike : Laboratory Control, cont.								
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	18	ug/L	90
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		30-141		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Bromomethane								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	25	29	ug/L	117
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	25	28	ug/L	111
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		30-141		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Carbon tetrachloride								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	96
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	99
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	23	ug/L	113
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	105
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		66-138		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Carbon tetrachloride								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	97
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	94
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Carbon tetrachloride

Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 66-138

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Chlorobenzene

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	96
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	98
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	98
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	100

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-122

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Chlorobenzene

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	100
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	93

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-122

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Chloroethane

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	25	30	ug/L	121
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	25	26	ug/L	104
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	23	ug/L	116
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	23	ug/L	114

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Chloroethane
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 58-133

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Chloroethane
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	25	24	ug/L	97
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	25	23	ug/L	93

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 58-133

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Chloroform
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	97
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	98
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	23	ug/L	114
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	105

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-128

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Chloroform
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	21	ug/L	103
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	98

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-128

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Chloromethane

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	25	29	ug/L	116
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	25	24	ug/L	96
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	100
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	107

Number of Spikes = 4

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 56-131

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Chloromethane

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	25	24	ug/L	97
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	25	22	ug/L	89

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 56-131

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Dibromochloromethane

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	18	ug/L	88
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	99
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	21	ug/L	106
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	104

Number of Spikes = 4

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 66-133

Date Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Dibromochloromethane

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	21	ug/L	103
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	99

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-133

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Dibromomethane

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	96
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	94
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	22	ug/L	110
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	104

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-125

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Dibromomethane

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	98
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	93

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-125

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Dichlorodifluoromethane

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	25	32	ug/L	128
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	25	24	ug/L	96
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	33	ug/L	164

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds Spiked Analyte : Dichlorodifluoromethane Type of Spike : Laboratory Control, cont.								
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	26	ug/L	129
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		1		
				Acceptance Criteria =		30-153		

Method : SW8260B - Volatile Organic Compounds Spiked Analyte : Dichlorodifluoromethane Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	25	21	ug/L	82
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	25	22	ug/L	86
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		30-153		

Method : SW8260B - Volatile Organic Compounds Spiked Analyte : Ethylbenzene Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	98
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	100
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	100
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	101
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		73-127		

Method : SW8260B - Volatile Organic Compounds Spiked Analyte : Ethylbenzene Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	1.17	20	21	ug/L	100
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	1.17	20	20	ug/L	94
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Ethylbenzene
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 73-127

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Hexachlorobutadiene
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	23	ug/L	115
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	96
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	21	ug/L	105
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	19	ug/L	96

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 67-131

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Hexachlorobutadiene
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	92
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	17	ug/L	87

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 67-131

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Isopropylbenzene
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	18	ug/L	88
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	18	ug/L	88
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	18	ug/L	90
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	18	ug/L	89

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Isopropylbenzene
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 75-127

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Isopropylbenzene
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	3.01	20	20	ug/L	85
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	3.01	20	19	ug/L	80

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 75-127

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methyl isobutyl ketone (MIBK)
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	95
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	17	ug/L	86
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	22	ug/L	108
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	19	ug/L	93

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 58-134

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Methyl isobutyl ketone (MIBK)
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	88
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	91

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 58-134

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Methyl t-butyl ether

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	93
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	18	ug/L	90
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	24	ug/L	118
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	103

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 65-123

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Methyl t-butyl ether

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	11	20	30	ug/L	95
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	11	20	30	ug/L	97

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 65-123

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Methylene chloride

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	100
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	18	ug/L	92
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	19	ug/L	96
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	100

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 63-137

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Methylene chloride								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	25	ug/L	127
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	26	ug/L	129
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 63-137				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Naphthalene								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	92
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	18	ug/L	90
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	21	ug/L	103
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	98
Number of Spikes = 4				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 54-138				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Naphthalene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	0.454	20	21	ug/L	100
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	0.454	20	20	ug/L	95
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 54-138				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Styrene								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	100
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	99
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	100

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Styrene								
Type of Spike : Laboratory Control, cont.								
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	103
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		65-134		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Styrene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	102
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	96
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		65-134		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Tert-Butyl alcohol								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	200	166	ug/L	83
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	200	149	ug/L	75
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	200	205	ug/L	102
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	200	184	ug/L	92
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		50-150		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Tert-Butyl alcohol								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	200	191	ug/L	95
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	200	199	ug/L	100
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Tert-Butyl alcohol
 Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 50-150

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Tetrachloroethene
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	102
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	99
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	21	ug/L	103
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	100

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-128

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Tetrachloroethene
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	97
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	94

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 66-128

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	98
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	97
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	98
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	101

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene
 Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 77-122

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	1.41	20	21	ug/L	99
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	1.41	20	20	ug/L	94

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 77-122

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Trichloroethene
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	21	ug/L	104
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	101
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	22	ug/L	112
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	107

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-127

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Trichloroethene
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	101
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	96

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 70-127

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Trichlorofluoromethane
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	25	27	ug/L	106
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	25	26	ug/L	103
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	27	ug/L	133
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	107

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 1
 Acceptance Criteria = 57-129

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Trichlorofluoromethane
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	25	24	ug/L	94
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	25	24	ug/L	97

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 57-129

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Vinyl chloride
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	25	30	ug/L	119
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	25	24	ug/L	95
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	25	ug/L	124
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	105

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 50-134

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : Vinyl chloride

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	25	23	ug/L	92
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	25	22	ug/L	87

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 50-134

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : cis-1,2-Dichloroethene

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	19	ug/L	95
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	97
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	22	ug/L	109
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	105

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-126

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : cis-1,2-Dichloroethene

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	100
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	95

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-126

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : cis-1,3-Dichloropropene

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	21	ug/L	106
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	101
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	22	ug/L	109

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : cis-1,3-Dichloropropene								
Type of Spike : Laboratory Control, cont.								
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	22	ug/L	108
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		69-131		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : cis-1,3-Dichloropropene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	21	ug/L	103
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	98
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		69-131		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : m&p-Xylene								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	40	40	ug/L	99
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	40	40	ug/L	101
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	40	40	ug/L	99
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	40	41	ug/L	102
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		76-128		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : m&p-Xylene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	5.94	40	45	ug/L	99
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	5.94	40	43	ug/L	92
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : m&p-Xylene

Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 76-128

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : n-Butylbenzene

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	21	ug/L	104
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	99
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	99
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	100

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-137

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : n-Butylbenzene

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	0.721	20	20	ug/L	97
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	0.721	20	19	ug/L	91

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 69-137

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : n-Propylbenzene

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	98
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	98
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	99
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	99

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : n-Propylbenzene

Type of Spike : Laboratory Control, cont.

Acceptance Criteria = 72-129

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : n-Propylbenzene

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	0.299	20	20	ug/L	98
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	0.299	20	19	ug/L	92

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 72-129

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : o-Xylene

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	99
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	101
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	99
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	21	ug/L	103

Number of Spikes = 4

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 80-121

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : o-Xylene

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	2.02	20	22	ug/L	100
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	2.02	20	21	ug/L	94

Number of Spikes = 2

Number Below acceptance = 0

Number Above acceptance = 0

Acceptance Criteria = 80-121

Date Compiled: 01/07/10

ND = Not Detected

NC = Not Calculable

NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

D-2-40

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : p-Isopropyltoluene

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	20	ug/L	99
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	19	ug/L	97
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	98
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	98

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-130

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : p-Isopropyltoluene

Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	96
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	90

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 73-130

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : sec-Butylbenzene

Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	21	ug/L	104
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	100
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	20	ug/L	101
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	102

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 72-127

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : sec-Butylbenzene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	0.390	20	20	ug/L	99
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	0.390	20	19	ug/L	93
Number of Spikes = 2				Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		72-127		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : tert-Butylbenzene								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	21	ug/L	102
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	100
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	19	ug/L	97
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	20	ug/L	101
Number of Spikes = 4				Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		70-129		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : tert-Butylbenzene								
Type of Spike : Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	99
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	93
Number of Spikes = 2				Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		70-129		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : trans-1,2-Dichloroethene								
Type of Spike : Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	21	ug/L	104
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	20	ug/L	101
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	23	ug/L	116

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : trans-1,2-Dichloroethene
 Type of Spike : Laboratory Control, cont.

09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	22	ug/L	110
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		63-137		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : trans-1,2-Dichloroethene
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	20	ug/L	102
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	97
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		63-137		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : trans-1,3-Dichloropropene
 Type of Spike : Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	20	17	ug/L	83
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	20	18	ug/L	90
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	20	18	ug/L	89
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	20	19	ug/L	95
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		59-135		

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : trans-1,3-Dichloropropene
 Type of Spike : Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	19	ug/L	96
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	ND	20	18	ug/L	91
Number of Spikes		=	2	Number Below acceptance =		0		

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : trans-1,3-Dichloropropene

Type of Spike : Matrix Spike, cont.

Number Above acceptance = 0
 Acceptance Criteria = 59-135

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dichloroethane-d4

Type of Spike : Surrogate - Equipment Blank

04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	NA	25	21	ug/L	85
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Number of Spikes	=	1	Number Below acceptance	=	0
			Number Above acceptance	=	0
			Acceptance Criteria	=	72-119

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dichloroethane-d4

Type of Spike : Surrogate - Field Duplicate

07-DEC-09	WG-B760-MW13-071	WG319126	WG319126	NA	25	24	ug/L	96
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Number of Spikes	=	1	Number Below acceptance	=	0
			Number Above acceptance	=	0
			Acceptance Criteria	=	72-119

Method : SW8260B - Volatile Organic Compounds

Spiked Analyte : 1,2-Dichloroethane-d4

Type of Spike : Surrogate - Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	25	21	ug/L	83
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	25	22	ug/L	88
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	25	25	ug/L	100
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	25	24	ug/L	94

Number of Spikes	=	4	Number Below acceptance	=	0
			Number Above acceptance	=	0
			Acceptance Criteria	=	72-119

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichloroethane-d4								
Type of Spike : Surrogate - Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	NA	25	24	ug/L	96
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	NA	25	25	ug/L	98
Number of Spikes = 2				Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		72-119		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichloroethane-d4								
Type of Spike : Surrogate - Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	NA	25	21	ug/L	82
07-DEC-09	BLANK-319126-01	WG319126	WG319126	NA	25	23	ug/L	94
08-DEC-09	BLANK-319206-01	WG319206	WG319206	NA	25	24	ug/L	95
09-DEC-09	BLANK-319310-01	WG319310	WG319310	NA	25	24	ug/L	96
Number of Spikes = 4				Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		72-119		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichloroethane-d4								
Type of Spike : Surrogate - Normal Sample								
04-DEC-09	WG-B760-MW08R-070	WG319017	WG319017	NA	25	21	ug/L	85
04-DEC-09	WG-B760-MW11-070	WG319017	WG319017	NA	25	23	ug/L	91
07-DEC-09	WG-B760-MW09-070	WG319126	WG319126	NA	25	24	ug/L	97
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	NA	25	24	ug/L	95
07-DEC-09	WG-B760-MW12-070	WG319126	WG319126	NA	25	25	ug/L	99
07-DEC-09	WG-B760-MW13-070	WG319126	WG319126	NA	25	24	ug/L	95
08-DEC-09	WG-B760-MW07R-070	WG319206	WG319206	NA	25	24	ug/L	98
09-DEC-09	WG-B760-MW06R-070	WG319310	WG319310	NA	25	24	ug/L	97
Number of Spikes = 8				Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		72-119		

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 1,2-Dichloroethane-d4								
Type of Spike : Surrogate - Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	NA	25	21	ug/L	84
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	NA	25	23	ug/L	93
Number of Spikes		=	2	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		72-119		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 4-Bromofluorobenzene								
Type of Spike : Surrogate - Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	NA	25	24	ug/L	97
Number of Spikes		=	1	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		76-119		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 4-Bromofluorobenzene								
Type of Spike : Surrogate - Field Duplicate								
07-DEC-09	WG-B760-MW13-071	WG319126	WG319126	NA	25	25	ug/L	99
Number of Spikes		=	1	Number Below acceptance =		0		
				Number Above acceptance =		0		
				Acceptance Criteria =		76-119		

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : 4-Bromofluorobenzene								
Type of Spike : Surrogate - Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	25	24	ug/L	95
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	25	24	ug/L	98
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	25	23	ug/L	91
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	25	24	ug/L	95
Number of Spikes		=	4	Number Below acceptance =		0		
				Number Above acceptance =		0		

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Laboratory Control, cont.

Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	NA	25	25	ug/L	100
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	NA	25	25	ug/L	100

Number of Spikes = 2

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Method Blank

04-DEC-09	BLANK-319017-01	WG319017	WG319017	NA	25	25	ug/L	101
07-DEC-09	BLANK-319126-01	WG319126	WG319126	NA	25	25	ug/L	99
08-DEC-09	BLANK-319206-01	WG319206	WG319206	NA	25	24	ug/L	96
09-DEC-09	BLANK-319310-01	WG319310	WG319310	NA	25	25	ug/L	101

Number of Spikes = 4

Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Normal Sample

04-DEC-09	WG-B760-MW08R-070	WG319017	WG319017	NA	25	25	ug/L	98
04-DEC-09	WG-B760-MW11-070	WG319017	WG319017	NA	25	25	ug/L	99
07-DEC-09	WG-B760-MW09-070	WG319126	WG319126	NA	25	25	ug/L	100
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	NA	25	25	ug/L	99
07-DEC-09	WG-B760-MW12-070	WG319126	WG319126	NA	25	25	ug/L	100
07-DEC-09	WG-B760-MW13-070	WG319126	WG319126	NA	25	25	ug/L	100
08-DEC-09	WG-B760-MW07R-070	WG319206	WG319206	NA	25	23	ug/L	93
09-DEC-09	WG-B760-MW06R-070	WG319310	WG319310	NA	25	25	ug/L	100

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified

NR = Not Reported DO = Diluted Out NA = Not Applicable

Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Normal Sample, cont.

Number of Spikes = 8
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : 4-Bromofluorobenzene
 Type of Spike : Surrogate - Trip Blank

04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	NA	25	24	ug/L	96
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	NA	25	25	ug/L	99

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 76-119

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromofluoromethane
 Type of Spike : Surrogate - Equipment Blank

04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	NA	25	24	ug/L	98
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 85-115

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Dibromofluoromethane
 Type of Spike : Surrogate - Field Duplicate

07-DEC-09	WG-B760-MW13-071	WG319126	WG319126	NA	25	25	ug/L	102
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 85-115

Date Compiled: 01/07/10 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dibromofluoromethane								
Type of Spike : Surrogate - Laboratory Control								
04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	25	23	ug/L	93
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	25	24	ug/L	97
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	25	26	ug/L	104
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	25	25	ug/L	99
Number of Spikes = 4				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 85-115				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dibromofluoromethane								
Type of Spike : Surrogate - Matrix Spike								
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	NA	25	25	ug/L	99
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	NA	25	25	ug/L	101
Number of Spikes = 2				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 85-115				

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dibromofluoromethane								
Type of Spike : Surrogate - Method Blank								
04-DEC-09	BLANK-319017-01	WG319017	WG319017	NA	25	24	ug/L	97
07-DEC-09	BLANK-319126-01	WG319126	WG319126	NA	25	25	ug/L	101
08-DEC-09	BLANK-319206-01	WG319206	WG319206	NA	25	25	ug/L	100
09-DEC-09	BLANK-319310-01	WG319310	WG319310	NA	25	26	ug/L	103
Number of Spikes = 4				Number Below acceptance = 0				
				Number Above acceptance = 0				
				Acceptance Criteria = 85-115				

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dibromofluoromethane								
Type of Spike : Surrogate - Normal Sample								
04-DEC-09	WG-B760-MW08R-070	WG319017	WG319017	NA	25	24	ug/L	96
04-DEC-09	WG-B760-MW11-070	WG319017	WG319017	NA	25	25	ug/L	100
07-DEC-09	WG-B760-MW09-070	WG319126	WG319126	NA	25	26	ug/L	102
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	NA	25	25	ug/L	100
07-DEC-09	WG-B760-MW12-070	WG319126	WG319126	NA	25	25	ug/L	101
07-DEC-09	WG-B760-MW13-070	WG319126	WG319126	NA	25	25	ug/L	101
08-DEC-09	WG-B760-MW07R-070	WG319206	WG319206	NA	25	25	ug/L	100
09-DEC-09	WG-B760-MW06R-070	WG319310	WG319310	NA	25	25	ug/L	100
Number of Spikes = 8				Number Below acceptance = 0		Number Above acceptance = 0		Acceptance Criteria = 85-115

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Dibromofluoromethane								
Type of Spike : Surrogate - Trip Blank								
04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	NA	25	24	ug/L	96
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	NA	25	25	ug/L	99
Number of Spikes = 2				Number Below acceptance = 0		Number Above acceptance = 0		Acceptance Criteria = 85-115

Method : SW8260B - Volatile Organic Compounds								
Spiked Analyte : Toluene-d8								
Type of Spike : Surrogate - Equipment Blank								
04-DEC-09	WG-B760-MW11-075	WG319017	WG319017	NA	25	25	ug/L	100
Number of Spikes = 1				Number Below acceptance = 0		Number Above acceptance = 0		Acceptance Criteria = 81-120

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Field Duplicate

07-DEC-09	WG-B760-MW13-071	WG319126	WG319126	NA	25	26	ug/L	102
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Number of Spikes = 1
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-120

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Laboratory Control

04-DEC-09	LCS-319017-02	WG319017	WG319017	NA	25	24	ug/L	98
07-DEC-09	LCS-319126-02	WG319126	WG319126	NA	25	25	ug/L	99
08-DEC-09	LCS-319206-02	WG319206	WG319206	NA	25	23	ug/L	91
09-DEC-09	LCS-319310-02	WG319310	WG319310	NA	25	25	ug/L	98

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-120

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Matrix Spike

07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	NA	25	25	ug/L	101
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	NA	25	26	ug/L	103

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-120

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Method Blank

04-DEC-09	BLANK-319017-01	WG319017	WG319017	NA	25	25	ug/L	101
07-DEC-09	BLANK-319126-01	WG319126	WG319126	NA	25	26	ug/L	102
08-DEC-09	BLANK-319206-01	WG319206	WG319206	NA	25	23	ug/L	94
09-DEC-09	BLANK-319310-01	WG319310	WG319310	NA	25	26	ug/L	104

Date Compiled: 01/07/10
 ND = Not Detected NC = Not Calculable NS = Not Specified
 NR = Not Reported DO = Diluted Out NA = Not Applicable
 # Spikes for which sample concentration is >4X spike concentration are excluded from evaluation.

Table D-2 Detailed Listing Of Liquid Spike Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

DATE ANALYZED	SAMPLE ID	PREP BATCH	ANALYTICAL BATCH	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
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Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Method Blank, cont.

Number of Spikes = 4
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-120

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Normal Sample

04-DEC-09	WG-B760-MW08R-070	WG319017	WG319017	NA	25	25	ug/L	98
04-DEC-09	WG-B760-MW11-070	WG319017	WG319017	NA	25	25	ug/L	99
07-DEC-09	WG-B760-MW09-070	WG319126	WG319126	NA	25	26	ug/L	104
07-DEC-09	WG-B760-MW10-073	WG319126	WG319126	NA	25	26	ug/L	102
07-DEC-09	WG-B760-MW12-070	WG319126	WG319126	NA	25	26	ug/L	103
07-DEC-09	WG-B760-MW13-070	WG319126	WG319126	NA	25	26	ug/L	103
08-DEC-09	WG-B760-MW07R-070	WG319206	WG319206	NA	25	23	ug/L	94
09-DEC-09	WG-B760-MW06R-070	WG319310	WG319310	NA	25	26	ug/L	102

Number of Spikes = 8
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-120

Method : SW8260B - Volatile Organic Compounds
 Spiked Analyte : Toluene-d8
 Type of Spike : Surrogate - Trip Blank

04-DEC-09	WQ-ST035-NOV0901	WG319017	WG319017	NA	25	24	ug/L	97
07-DEC-09	WQ-ST035-NOV0902	WG319126	WG319126	NA	25	26	ug/L	102

Number of Spikes = 2
 Number Below acceptance = 0
 Number Above acceptance = 0
 Acceptance Criteria = 81-120

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result	Duplicate Result	RPD Limit (%)	RPD (%)
Method: SW8011 - Ethylene Dibromide						
Type of Duplicate : Field Duplicate						
1,2-Dibromoethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.00697 (UML)	< 0.00697 (UML)	20	NC
Method: SW8011 - Ethylene Dibromide						
Type of Duplicate : Matrix Spike Duplicate						
1,2-Dibromoethane	WG-B760-MW10-073	WG-B760-MW10-073	0.166	0.181	20	8.65
Method: SW8260B - Volatile Organic Compounds						
Type of Duplicate : Field Duplicate						
1,1,1,2-Tetrachloroethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250 (U)	< 0.250 (U)	20	NC
1,1,1-Trichloroethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250 (U)	< 0.250 (U)	20	NC
1,1,2,2-Tetrachloroethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.125 (U)	< 0.125 (U)	20	NC
1,1,2-Trichloroethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250 (U)	< 0.250 (U)	20	NC
1,1-Dichloroethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.125 (U)	< 0.125 (U)	20	NC
1,1-Dichloroethene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.500 (U)	< 0.500 (U)	20	NC
1,1-Dichloropropene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250 (U)	< 0.250 (U)	20	NC
1,2,3-Trichlorobenzene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.150 (U)	< 0.150 (U)	20	NC
1,2,3-Trichloropropane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.500 (U)	< 0.500 (U)	20	NC
1,2,4-Trichlorobenzene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.200 (U)	< 0.200 (U)	20	NC
1,2,4-Trimethylbenzene	WG-B760-MW13-070	WG-B760-MW13-071	0.709 (F)	0.711 (F)	20	0.282 *
1,2-Dibromo-3-chloropropane	WG-B760-MW13-070	WG-B760-MW13-071	< 1.00 (U)	< 1.00 (U)	20	NC
1,2-Dibromoethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250 (U)	< 0.250 (U)	20	NC
1,2-Dichlorobenzene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.125 (U)	< 0.125 (U)	20	NC
1,2-Dichloroethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250 (U)	< 0.250 (U)	20	NC
1,2-Dichloropropane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.200 (U)	< 0.200 (U)	20	NC
1,3,5-Trimethylbenzene	WG-B760-MW13-070	WG-B760-MW13-071	0.438 (F)	0.449 (F)	20	2.48 *
1,3-Dichlorobenzene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250 (U)	< 0.250 (U)	20	NC
1,3-Dichloropropane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.200 (U)	< 0.200 (U)	20	NC
1,4-Dichlorobenzene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.125 (U)	< 0.125 (U)	20	NC
1-Chlorohexane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.125 (U)	< 0.125 (U)	20	NC
2,2-Dichloropropane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250 (U)	< 0.250 (U)	20	NC

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result		Duplicate Result	RPD Limit (%)	RPD (%)	
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2-Butanone(MEK)	WG-B760-MW13-070	WG-B760-MW13-071	2.80	(F)	2.60	(F)	20	7.41 *
2-Chlorotoluene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.125	(U)	< 0.125	(U)	20	NC
4-Chlorotoluene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
Acetone	WG-B760-MW13-070	WG-B760-MW13-071	< 2.50	(U)	< 2.50	(U)	20	NC
Benzene	WG-B760-MW13-070	WG-B760-MW13-071	8.75		8.60		20	1.73
Bromobenzene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.125	(U)	< 0.125	(U)	20	NC
Bromochloromethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.200	(U)	< 0.200	(U)	20	NC
Bromodichloromethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
Bromoform	WG-B760-MW13-070	WG-B760-MW13-071	< 0.500	(U)	< 0.500	(U)	20	NC
Bromomethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.500	(U)	< 0.500	(U)	20	NC
Carbon tetrachloride	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
Chlorobenzene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.125	(U)	< 0.125	(U)	20	NC
Chloroethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.500	(U)	< 0.500	(U)	20	NC
Chloroform	WG-B760-MW13-070	WG-B760-MW13-071	< 0.125	(U)	< 0.125	(U)	20	NC
Chloromethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
Dibromochloromethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
Dibromomethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
Dichlorodifluoromethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
Ethylbenzene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
Hexachlorobutadiene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
Isopropylbenzene	WG-B760-MW13-070	WG-B760-MW13-071	2.09		2.11		20	0.952
Methyl isobutyl ketone (MIBK)	WG-B760-MW13-070	WG-B760-MW13-071	< 2.50	(U)	< 2.50	(U)	20	NC
Methyl t-butyl ether	WG-B760-MW13-070	WG-B760-MW13-071	< 0.500	(U)	< 0.500	(U)	20	NC
Methylene chloride	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
Naphthalene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.200	(U)	< 0.200	(U)	20	NC
Styrene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.125	(U)	< 0.125	(U)	20	NC
Tert-Butyl alcohol	WG-B760-MW13-070	WG-B760-MW13-071	< 50.00	(U)	< 50.00	(U)	20	NC
Tetrachloroethene	WG-B760-MW13-070	WG-B760-MW13-071	2.31		2.23		20	3.52
Toluene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
Trichloroethene	WG-B760-MW13-070	WG-B760-MW13-071	1.13		1.14		20	0.881
Trichlorofluoromethane	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
Vinyl chloride	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
cis-1,2-Dichloroethene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
cis-1,3-Dichloropropene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result		Duplicate Result		RPD Limit (%)	RPD (%)
m&p-Xylene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.500	(U)	< 0.500	(U)	20	NC
n-Butylbenzene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	0.260	(F)	20	3.92 *
n-Propylbenzene	WG-B760-MW13-070	WG-B760-MW13-071	0.151	(F)	0.157	(F)	20	3.90 *
o-Xylene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
p-Isopropyltoluene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
sec-Butylbenzene	WG-B760-MW13-070	WG-B760-MW13-071	0.319	(F)	0.323	(F)	20	1.25 *
tert-Butylbenzene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
trans-1,2-Dichloroethene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.250	(U)	< 0.250	(U)	20	NC
trans-1,3-Dichloropropene	WG-B760-MW13-070	WG-B760-MW13-071	< 0.500	(U)	< 0.500	(U)	20	NC

Method: SW8260B - Volatile Organic Compounds

Type of Duplicate : Matrix Spike Duplicate

1,1,1,2-Tetrachloroethane	WG-B760-MW10-073	WG-B760-MW10-073	20.20		19.20		20	5.08
1,1,1-Trichloroethane	WG-B760-MW10-073	WG-B760-MW10-073	19.40		18.60		20	4.21
1,1,2,2-Tetrachloroethane	WG-B760-MW10-073	WG-B760-MW10-073	19.80		18.80		20	5.18
1,1,2-Trichloroethane	WG-B760-MW10-073	WG-B760-MW10-073	20.40		19.50		20	4.51
1,1-Dichloroethane	WG-B760-MW10-073	WG-B760-MW10-073	19.90		18.70		20	6.22
1,1-Dichloroethene	WG-B760-MW10-073	WG-B760-MW10-073	18.80		18.30		20	2.70
1,1-Dichloropropene	WG-B760-MW10-073	WG-B760-MW10-073	20.00		19.30		20	3.56
1,2,3-Trichlorobenzene	WG-B760-MW10-073	WG-B760-MW10-073	19.50		18.40		20	5.80
1,2,3-Trichloropropane	WG-B760-MW10-073	WG-B760-MW10-073	20.10		18.90		20	6.15
1,2,4-Trichlorobenzene	WG-B760-MW10-073	WG-B760-MW10-073	18.70		17.60		20	6.06
1,2,4-Trimethylbenzene	WG-B760-MW10-073	WG-B760-MW10-073	23.50		22.00		20	6.59
1,2-Dibromo-3-chloropropane	WG-B760-MW10-073	WG-B760-MW10-073	19.60		18.30		20	6.86
1,2-Dibromoethane	WG-B760-MW10-073	WG-B760-MW10-073	20.80		20.10		20	3.42
1,2-Dichlorobenzene	WG-B760-MW10-073	WG-B760-MW10-073	19.60		18.40		20	6.32
1,2-Dichloroethane	WG-B760-MW10-073	WG-B760-MW10-073	28.90		27.60		20	4.60
1,2-Dichloropropane	WG-B760-MW10-073	WG-B760-MW10-073	20.30		19.30		20	5.05
1,3,5-Trimethylbenzene	WG-B760-MW10-073	WG-B760-MW10-073	22.10		21.00		20	5.10
1,3-Dichlorobenzene	WG-B760-MW10-073	WG-B760-MW10-073	19.70		18.20		20	7.92
1,3-Dichloropropane	WG-B760-MW10-073	WG-B760-MW10-073	19.90		18.90		20	5.15
1,4-Dichlorobenzene	WG-B760-MW10-073	WG-B760-MW10-073	19.60		18.10		20	7.96
1-Chlorohexane	WG-B760-MW10-073	WG-B760-MW10-073	18.70		19.50		20	4.19

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Parameter	Sample ID	Duplicate Sample ID	Sample Result	Duplicate Result	RPD Limit (%)	RPD (%)
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2,2-Dichloropropane	WG-B760-MW10-073	WG-B760-MW10-073	18.50	17.70	20	4.42
2-Butanone(MEK)	WG-B760-MW10-073	WG-B760-MW10-073	19.40	20.20	20	4.04
2-Chlorotoluene	WG-B760-MW10-073	WG-B760-MW10-073	20.60	17.40	20	16.84
4-Chlorotoluene	WG-B760-MW10-073	WG-B760-MW10-073	18.60	19.10	20	2.65
Acetone	WG-B760-MW10-073	WG-B760-MW10-073	29.80	29.20	20	2.03
Benzene	WG-B760-MW10-073	WG-B760-MW10-073	31.80	30.60	20	3.85
Bromobenzene	WG-B760-MW10-073	WG-B760-MW10-073	20.20	18.80	20	7.18
Bromochloromethane	WG-B760-MW10-073	WG-B760-MW10-073	20.80	19.40	20	6.97
Bromodichloromethane	WG-B760-MW10-073	WG-B760-MW10-073	20.10	18.90	20	6.15
Bromoform	WG-B760-MW10-073	WG-B760-MW10-073	20.00	19.00	20	5.13
Bromomethane	WG-B760-MW10-073	WG-B760-MW10-073	29.30	27.70	20	5.61
Carbon tetrachloride	WG-B760-MW10-073	WG-B760-MW10-073	19.40	18.70	20	3.67
Chlorobenzene	WG-B760-MW10-073	WG-B760-MW10-073	19.90	18.60	20	6.75
Chloroethane	WG-B760-MW10-073	WG-B760-MW10-073	24.30	23.20	20	4.63
Chloroform	WG-B760-MW10-073	WG-B760-MW10-073	20.70	19.50	20	5.97
Chloromethane	WG-B760-MW10-073	WG-B760-MW10-073	24.20	22.30	20	8.17
Dibromochloromethane	WG-B760-MW10-073	WG-B760-MW10-073	20.60	19.80	20	3.96
Dibromomethane	WG-B760-MW10-073	WG-B760-MW10-073	19.50	18.60	20	4.72
Dichlorodifluoromethane	WG-B760-MW10-073	WG-B760-MW10-073	20.60	21.50	20	4.28
Ethylbenzene	WG-B760-MW10-073	WG-B760-MW10-073	21.10	20.00	20	5.35
Hexachlorobutadiene	WG-B760-MW10-073	WG-B760-MW10-073	18.40	17.30	20	6.16
Isopropylbenzene	WG-B760-MW10-073	WG-B760-MW10-073	20.00	19.00	20	5.13
Methyl isobutyl ketone (MIBK)	WG-B760-MW10-073	WG-B760-MW10-073	17.60	18.20	20	3.35
Methyl t-butyl ether	WG-B760-MW10-073	WG-B760-MW10-073	29.80	30.30	20	1.66
Methylene chloride	WG-B760-MW10-073	WG-B760-MW10-073	25.40	25.80	20	1.56
Naphthalene	WG-B760-MW10-073	WG-B760-MW10-073	20.50	19.50	20	5.00
Styrene	WG-B760-MW10-073	WG-B760-MW10-073	20.40	19.10	20	6.58
Tert-Butyl alcohol	WG-B760-MW10-073	WG-B760-MW10-073	191	199	20	4.10
Tetrachloroethene	WG-B760-MW10-073	WG-B760-MW10-073	19.50	18.80	20	3.66
Toluene	WG-B760-MW10-073	WG-B760-MW10-073	21.20	20.10	20	5.33
Trichloroethene	WG-B760-MW10-073	WG-B760-MW10-073	20.10	19.20	20	4.58
Trichlorofluoromethane	WG-B760-MW10-073	WG-B760-MW10-073	23.50	24.20	20	2.94
Vinyl chloride	WG-B760-MW10-073	WG-B760-MW10-073	23.00	21.70	20	5.82
cis-1,2-Dichloroethene	WG-B760-MW10-073	WG-B760-MW10-073	20.00	19.00	20	5.13

Compiled: 01/07/10

NC = Not Calculable () = Data Flag NS = Not Specified RPD = Relative Percent Difference

D-3-4

* One or both of the results were below the RL or not detected and, therefore, precision was not evaluated.

Table D-3 Detailed Listing of Liquid Duplicate Results for Water Samples, Williams AFB Groundwater Monitoring - ST035 - Nov 2009

Parameter -----	Sample ID -----	Duplicate Sample ID -----	Sample Result -----	Duplicate Result -----	RPD Limit (%) -----	RPD (%) -----
cis-1,3-Dichloropropene	WG-B760-MW10-073	WG-B760-MW10-073	20.60	19.50	20	5.49
m&p-Xylene	WG-B760-MW10-073	WG-B760-MW10-073	45.30	42.80	20	5.68
n-Butylbenzene	WG-B760-MW10-073	WG-B760-MW10-073	20.10	18.90	20	6.15
n-Propylbenzene	WG-B760-MW10-073	WG-B760-MW10-073	19.80	18.70	20	5.71
o-Xylene	WG-B760-MW10-073	WG-B760-MW10-073	21.90	20.80	20	5.15
p-Isopropyltoluene	WG-B760-MW10-073	WG-B760-MW10-073	19.30	18.00	20	6.97
sec-Butylbenzene	WG-B760-MW10-073	WG-B760-MW10-073	20.20	19.10	20	5.60
tert-Butylbenzene	WG-B760-MW10-073	WG-B760-MW10-073	19.80	18.60	20	6.25
trans-1,2-Dichloroethene	WG-B760-MW10-073	WG-B760-MW10-073	20.40	19.40	20	5.03
trans-1,3-Dichloropropene	WG-B760-MW10-073	WG-B760-MW10-073	19.20	18.20	20	5.35

Attachment E
Chain-of-Custody Forms

CHAIN-OF-CUSTODY RECORD

Company Name: **URS**

Project Contact: **Debra Bisson** Contact Phone #: **512-454-4797**

Turn Around Requirements: **14-day** Location: **Williams AFB, Mesa, AZ**

Project ID: **41009028.0201 - ST035**

Sampler (print): **Bret Waldron** Signature: *[Signature]*

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS		TOTAL (LAB USE)
						Hold		
WG-8760-MW28R-070	X		12/01/09	1030	W	6	3	3
WG-8760-MW11-070	X		12/01/09	1449	W	6	3	3
WG-8760-MW11-075	X		12/01/09	1555	W	4	2	2
WG-ST035-NW0901	X		12/01/09	1600	W	4	2	2
<i>[Diagonal lines across empty rows]</i>								

NUMBER OF CONTAINERS
 Hold
 SW8260B - ST035 List
 SW8011 - EDB

- Program
- CWA
 - RCRA
 - DOD
 - AFCEE
 - Other

ADDITIONAL REQUIREMENTS

Relinquished by: (Signature) *[Signature]* Date **12/01/09** Time **1645**

Relinquished by: (Signature) _____ Date _____ Time _____

Microbac OVD 221000003247

Received: 12/02/2009 11:04
By: BRENDA GREENWALT

Brenda Greenwalt

Date _____ Time _____ Received by: (Signature) _____

Remarks: _____

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

COC No. A 13469

Cooler ID: 3710

Microbac

Fed Ex: 8705-4295-0085

158 Starlite Drive

Phone: 740-373-4071

Marietta, OH 45750

CHAIN-OF-CUSTODY RECORD

Fax: 740-373-4835



Company Name: URS						NUMBER OF CONTAINERS	Hold	SW8260B - ST035 List	SW8011 - EDB	TOTAL # (LAB USE)	Program	
Project Contact: Debra Bisson			Contact Phone #: 512-454-4797								<input type="checkbox"/> CWA	<input type="checkbox"/> RCRA
Turn Around Requirements: 14-day			Location: Williams AFB, Mesa AZ								<input type="checkbox"/> DOD	<input checked="" type="checkbox"/> AFCEE
Project ID: 41009028.0201 - ST035			Sampler (print): Bret Waldron								Signature:		☐ Other
Sample I.D. No.	Comp.	Grab	Date	Time	Matrix*						ADDITIONAL REQUIREMENTS	
WG-8760-MW13-070		X	12/02/09	0950	W	6	3	3				
WG-8760-MW13-071		X	12/02/09	0950	W	6	3	3				
WG-8760-MW06R-070		X	12/02/09	1018	W	6	3	3				
WG-8760-MW09-070		X	12/02/09	1328	W	6	3	3				
WG-8760-MW07R-070		X	12/02/09	1338	W	6	3	3				
WG-8760-MW12-070		X	12/02/09	1619	W	6	3	3				
WG-8760-MW10-073		X	12/02/09	1640	W	10	5	5			MS/MSD	
WA-ST035-16v0902		X	12/02/09	1705	W	4	2	2				

Relinquished by: (Signature)	Date: 12/02/09	Time: 1720	Rec (Sig):	Microbac OVD 221000003279 Received: 12/03/2009 10:41 By: ROBIN KLINGER	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Rec (Sig)		Remarks:		

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)