

## **APPENDIX B**

### **Data Quality Evaluation Reports**

**B-1. Data Quality Evaluation Report – Groundwater, October – December 2012**

**B-2. Data Quality Evaluation Report – Soil, Second and Third Quarter 2011**

**B-3. Data Quality Evaluation Report – Soil Vapor, October – December 2012**

**B-4. Groundwater, Soil, and Soil Vapor Data Packages**

**THIS PAGE INTENTIONALLY LEFT BLANK**

## ACRONYMS AND ABBREVIATIONS

%	percent
%D	percent difference
AFB	Air Force Base
APH	air-phase petroleum hydrocarbons
ASTM	ASTM International
BFF	Bulk Fuels Facility
CCB	continuing calibration blank
CCV	continuing calibration verification
DoD	U.S. Department of Defense
EDB	1,2-dibromoethane/ethylene dibromide
EPA	U.S. Environmental Protection Agency
ICP	inductively coupled plasma
ICS	interference check sample
ICV	initial calibration verification
KAFB	Kirtland Air Force Base
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LIMS	laboratory information management system
LOQ	limit of quantitation
MA DEP	Massachusetts Department of Environmental Protection
mg/L	milligram per liter
MS	matrix spike
MSD	matrix spike duplicate
PAH	polynuclear aromatic hydrocarbon
QAPjP	Quality Assurance Project Plan
QC	quality control
QSM	Quality Systems Manual
RPD	relative percent difference
RRF	relative response factor
SDG	sample delivery group
SM	Standard Method
SVOC	semivolatile organic compound
TPH	total petroleum hydrocarbons

## ACRONYMS AND ABBREVIATIONS (concluded)

USACE	U.S. Army Corps of Engineers
VOC	volatile organic compound

## **APPENDIX B-1**

### **Data Quality Evaluation Report – Groundwater October – December 2012**

**THIS PAGE INTENTIONALLY LEFT BLANK**

## B-1. DATA QUALITY EVALUATION REPORT – GROUNDWATER OCTOBER – DECEMBER 2012

### 1. LABORATORY DATA QUALITY SUMMARY

This laboratory data quality summary describes the findings of the review of data for the Fourth Quarter 2012 groundwater monitoring event and is provided to document the quality of the analytical data used in the *Quarterly Pre-Remedy Monitoring and Site Investigation Report for October – December 2012, Bulk Fuels Facility, Solid Waste Management Units ST-106 and SS-111*. Sampling procedures and overall quality control (QC) and quality assurance protocols for the Fourth Quarter 2012 groundwater monitoring event are presented in the *Quality Assurance Project Plan, Bulk Fuels Facility (BFF) Spill, Solid Waste Management Units ST-106 and SS-111, Kirtland Air Force Base, Albuquerque, New Mexico* (U.S. Army Corps of Engineers [USACE], 2011).

During the period from October 3 through November 19, 2012, 120 groundwater samples, 12 field duplicates, 1 equipment rinse blank, 7 ambient blanks, and 16 trip blanks were collected and submitted to Empirical Laboratories LLC in Nashville, Tennessee, for analyses. The laboratory holds a current U.S. Department of Defense (DoD) Environmental Laboratory Accreditation Program certification to perform the listed analyses.

All groundwater samples were analyzed for the following list of parameters:

- Volatile organic compounds (VOCs) – U.S. Environmental Protection Agency (EPA) Method SW8260B
- 1,2-dibromoethane (EDB) – EPA Method SW8011
- Semivolatile organic compounds (SVOCs) – EPA Method SW8270D
- Polynuclear aromatic hydrocarbons (PAHs) – EPA Method SW8270D low-level (ST106-VA2 well only)
- Total petroleum hydrocarbons (TPH) as gasoline (C6-C10) – EPA Method SW8015B

- TPH as diesel (C10-C28) – EPA Method SW8015B
- Total and dissolved metals – EPA Method SW6010B
- Anions – EPA Method 300.0
- Ammonia as nitrogen – Standard Method (SM) 4500 NH3BG
- Sulfide – SM4500 S2CF
- Nitrate and nitrite as nitrogen – EPA Method 353.2
- Carbonate and bicarbonate alkalinity – SM2320B

All analytical results for the Fourth Quarter 2012 groundwater monitoring event were received in sample delivery groups (SDGs) Kirtland-064 through Kirtland-072. Appendix B1 – Table 1 (provided at the end of this report) summarizes each SDG, including sample numbers, sample locations, sample collection dates, and SDG numbers. An EPA Level III data review was performed for all analytical results for each of the nine SDGs. The review was performed in accordance with the guidelines and control criteria specified in the following documents:

- The Bulk Fuels Facility (BFF) Spill Quality Assurance Project Plan (QAPjP) (USACE, 2011)
- *DoD Quality Systems Manual for Environmental Laboratories, Version 4.2* (DoD, 2010)
- *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (2006), SW-846* (EPA, 1996 and updates)
- *Standard Methods for the Examination of Water and Wastewater (21st Edition)* (American Public Health Association et al., 2005)
- *Environmental Quality – Guidance for Evaluating Performance-Based Chemical Data*, EM 200-1-10 (USACE, 2005)
- *USEPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Data Review, Final* (EPA, 2008)
- *USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Superfund Data Review, Final* (EPA, 2010)

The following QC elements were included in the EPA Level III data review:

- Sample preservation and sample extraction and analysis holding times
- Laboratory method blanks
- Initial and continuing calibration blanks (metals, anions, ammonia as nitrogen, and nitrate and nitrite as nitrogen analyses only)
- Surrogate recoveries (organic analyses)
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries
- Relative percent differences (RPDs)
- Initial calibration and verifications
- Continuing calibration verifications (CCVs)
- Inductively coupled plasma (ICP) interference check samples (ICS) (metal analysis only)
- ICP serial dilutions (metal analysis only)
- Sample confirmation (EDB analysis only)
- Field blanks
- Field duplicates

Analytical data were reviewed in terms of precision, bias, representativeness, comparability, and completeness as follows:

- *Bias* is demonstrated by recovery of target analytes from fortified blank and sample matrices, LCS/LCSD, and MS/MSD, respectively. For organic methods, bias is also demonstrated through recovery of surrogates from each field and QC sample. The recovery of target analytes from fortified samples is compared with the acceptance criteria defined in the QAPjP (USACE, 2011) and DoD Quality Systems Manual (QSM) (DoD, 2010). When the acceptance criteria are not available in the QAPjP or DoD QSM, results are compared with the laboratory in-house control limits. When these criteria are not met, the data are qualified accordingly.
- *Precision* is expressed as the RPD between the results of replicate sample analyses: sample duplicates, LCSDs, and MSDs. When analyte RPDs exceed the acceptance criteria, the data are qualified accordingly.

- *Representativeness* of the samples submitted for analysis is ensured by adherence to standard sampling techniques and protocols.
- *Comparability* of sample results is ensured through the use of approved sampling and analysis methods.
- *Completeness* is expressed as a ratio of the number of usable data points to the total number of analytical data results.

The following sections present the EPA Level III data review findings. The discussion summarizes data quality exceedances and their potential impact on the quality and usability of analytical results.

Appendix B1 – Table 2 presents definitions of data qualification and reason codes applied to the analytical results. Appendix B1 – Table 3 summarizes the qualified data. For informational purposes, qualified field QC data are also presented in this table.

## 1.1 Reason Codes

### 1.1.1 Sample Preservation and Sample Extraction and Analysis Holding Times (Reason Code H)

The sample coolers and samples contained within were received intact at the laboratory and were held within the required 0 to 6 degrees Celsius, which is in compliance with EPA and SM preservation requirements.

Sample holding times were evaluated by comparing the sample collection dates to the sample extraction and analysis dates. Extraction and analysis holding times were reviewed for all samples to determine the validity of the sample results. Holding-time exceedances were observed in SM Method 4500S2CF and EPA Method SW8015B for sulfide and TPH as diesel analyses, respectively. The holding-time exceedances and non-compliant sample numbers are listed below:

Analytical Method	Holding-Time Outlier	Holding-Time Requirement	Non-Compliant Sample
SM4500 S2CF	8 days for analysis	7 days for analysis	GW0870
EPA SW8015B	11 days for extraction	7 days for extraction	GW0825

The holding-time exceedance for the sulfide analysis was due to a laboratory login error. When samples were received by the laboratory, sampling collection dates for all samples were entered into the laboratory information management system (LIMS). This information was then used by the laboratory to keep track of sample expiration date and to ensure that all samples were extracted and analyzed within the holding-time requirements. Because an incorrect sample collection date was entered into the LIMS for the sulfide sample (GW0870), the 7-day analysis holding time was miscalculated, which led to the missed holding time for the sulfide analysis.

Sample (GW0825) for TPH as diesel was originally extracted within the 7-day extraction holding-time requirement. Because the vial containing TPH as diesel extract was broken at the laboratory, the sample was re-extracted. The re-extraction, however, was performed 4 days after the 7-day extraction-holding time had expired. The sample was analyzed within the required 40-day analysis holding requirement.

As a result of holding-time exceedances for sulfide and TPH as diesel in the samples, the non-detected result for sulfide and the detected result for TPH as diesel were qualified as estimated (UJ) and (J-), respectively. The analyte sulfide has been consistently not detected at the site. The non-detected sulfide data from this quarter is consistent with the previously reported data. The concentration for TPH as diesel from this quarter was reported at 0.621 milligrams per liter (mg/L), which is within the historical range of 0.282 to 1.14 mg/L. In both cases, because the degree of holding-time exceedance is minor, it is unlikely that a false negative result for sulfide or low biased result for TPH as diesel have been reported from the laboratory.

Except where noted above, the extraction and analysis holding-time requirements were met for all other samples and methods.

### 1.1.2 Laboratory Method Blanks (Reason Code B1)

The field sample results were evaluated with respect to the laboratory method blank prepared and analyzed for each analytical batch and for each analytical method. Positive analyte detections in the laboratory method blanks were observed for SM Method 4500NH3BG and EPA Methods SW8015B and SW6010B. Specific contaminants, their detected levels, and the limits of quantitation (LOQs) are summarized as follows:

Analytical Method	Laboratory QC Batch #	Contaminant	Contaminant Level	LOQ
SM4500 NH3BG	2J31024	Ammonia as nitrogen	0.13 mg/L	0.3 mg/L
EPA SW8015B	2J30412	TPH as gasoline	0.0775 mg/L	0.15 mg/L
	2J20019	TPH as gasoline	0.0537 mg/L	0.15 mg/L
EPA SW6010B	2K14027	Iron	31.4 µg/L	100 µg/L

µg/L      microgram per liter

Based on the DoD QSM requirements (2010), laboratory method blank concentrations are considered acceptable when contaminant levels in the blank are less than one-half the LOQ for target analytes and less than the LOQ for common laboratory contaminants, such as acetone and methylene chloride. As indicated in the preceding table, all of the above laboratory method blank levels were less than one-half the LOQ and thus, met the blank acceptance criteria. The analytes ammonia as nitrogen and TPH as gasoline were not detected in any groundwater sample processed with the laboratory method blanks, and thus, the sample results were not affected by the laboratory method blank detections, and no data qualification was warranted.

As a result of the method blank detection for iron, the detected results for the analyte were qualified as non-detected (U) at the LOQ when concentrations of iron in samples were less than five times the level observed in the corresponding blank. In addition, as documented in the laboratory case narrative, the detected result of TPH as gasoline in one sample (GW0772) was due to laboratory contamination.

Consequently, the affected sample result was qualified as not detected (U) at the LOQ. The blank qualification has no impact on the data usability.

Except where noted, no other target analytes were detected in any laboratory method blanks for VOCs, SVOCs, EDB, TPH as diesel, sulfide, anions, nitrate and nitrite as nitrogen, and alkalinity analyses.

### 1.1.3 Initial and Continuing Calibration Blanks (Reason Code B2)

In addition to the laboratory method blanks for metals, anions, nitrate and nitrite as nitrogen, and ammonia as nitrogen analyses, initial and continuing calibration blank results were reviewed to ensure that the instrument was free of contamination prior to the analyses. One positive result in a continuing calibration blank (CCB) was observed for EPA Method SW6010B shown below:

Analytical Method	Laboratory QC Batch #	Contaminant	Contaminant Level (µg/L)	LOQ (µg/L)
EPA SW6010B	2k31912-CCB3	Iron	39	100

µg/L microgram per liter

As shown above, the detected level for iron in the CCB was less than one-half the LOQ and met the calibration blank acceptance criteria as defined in the DoD QSM (2010). The calibration blank detection did not affect the data quality of the sample results because the concentrations of iron in the associated samples were not detected. No data qualification was warranted because of the calibration blank detection. All initial and continuing calibration blanks were free of anions, nitrate and nitrite as nitrogen, and ammonia as nitrogen.

### 1.1.4 Surrogate Recoveries (Reason Code S)

Surrogate standards are organic compounds added to field and laboratory QC samples for organic analysis to evaluate the matrix effect and method performance on an individual sample basis. Surrogate recovery

outliers were observed for a few samples analyzed for SVOCs, EDB, and TPH as diesel as presented below.

Analytical Method	Sample Number	Surrogate Recovery Outlier (%)	Control Limit (%)
EPA SW8270D	GW0809	2-fluorophenol: 13%	20-110%
		2,4,6-tribromophenol: 36.4%	40-125%
	GW0780	2-fluorophenol: 1.33%	20-110%
		2,4,6-tribromophenol: 1.6%	40-125%
	GW0821	2-fluorophenol: no recovery	20-110%
		2,4,6-tribromophenol: 1.29%	40-125%
		2-fluorobiphenyl: 30.4%	50-110%
		Nitrobenzene-d5: 31.1%	40-110%
	GW0824	Terphenyl-d14: 47.9%	50-135%
		2-fluorophenol: 3.6%	20-110%
EPA SW8011	GW0851	2,4,6-tribromophenol: 8.81%	40-125%
		1,3-dibromopropane: 221%	30-130%
		1,3-dibromopropane: 151%	30-130%
		1,3-dibromopropane: 916%	30-130%
		1,3-dibromopropane: 967%	30-130%
		1,3-dibromopropane: 1730%	30-130%
		1,3-dibromopropane: 2030%	30-130%
EPA SW8015B TPH as diesel	GW0834	1,3-dibromopropane: 414%	30-130%
		GW0762	o-terphenyl: 576%
	GW0756	o-terphenyl: 315%	50-150%

In sample GW0809, the acidic surrogates were recovered below their respective lower control limit, and thus, the LOQs for non-detected SVOCs in the acid fraction were qualified as estimated (UJ). In the same sample, the recoveries of surrogates in the base/neutral fraction met the accuracy specification, and thus, no data qualification was applied to the results for the SVOCs in the base/neutral fraction. As shown above, the reported surrogate recoveries did not significantly deviate from the lower control limits, and therefore, the data usability of the qualified results is not affected.

Poor recoveries or no recoveries were reported for the acidic surrogates 2-fluorophenol and 2,4,6-tribromophenol in samples GW0780, GW0821, and GW0824. When this issue was identified, the 7-day extraction holding time had already expired. Therefore, the laboratory did not re-extract and re-analyze the samples to investigate the cause of the poor recoveries. SVOCs in the acid fraction were not detected in these samples, and the LQOs were consequently qualified as estimated (UJ). Data

qualification was also applied to the SVOCs in the base/neutral fraction in sample GW0821 as the surrogates in the base/neutral fraction were also recovered below their respective lower control limit. A review of historical data for samples GW0780, GW0821, and GW0824 from their respective well indicates that SVOCs have been consistently not detected for all quarterly events. Although the surrogate recoveries of 2-fluorophenol and 2,4,6-tribromophenol in samples GW0780, GW0821, and GW0824 were low, the SVOCs results were not detected in this quarter and are consistent with the previously reported data. Based on the review of historical data, it does not appear that false negatives for these samples have been reported from the laboratory, and therefore, the qualified results are still considered usable.

Only one surrogate recovery in either the acid fraction or neutral/base fraction in several other SVOCs samples was outside the accuracy specification. The recoveries of the remaining surrogates in the same SVOCs samples meet the accuracy requirements. Data qualification is applied only to the SVOCs sample results when more than one of the surrogates either in the acid or base/neutral fractions are recovered outside the control criteria.

Also, as presented in the preceding table, surrogates in seven EDB samples and two TPH as diesel samples were recovered outside the upper control limit. The high surrogate recoveries led to qualification of the detected results as estimated (J+). There is no impact on the data usability because of the surrogate recovery outliers. Although high surrogate recoveries were reported for the seven EDB samples, the reported EDB results from EPA Method SW 8011 were comparable to those from EPA Method SW8260B.

Additionally, recoveries of surrogates in several other samples analyzed for TPH as gasoline, EDB, and VOCs exceeded the upper control limits. Because the analytes were not detected, the high surrogate

recoveries did not affect the data quality of the sample results, and thus, no data qualification was warranted.

Except where noted above, surrogates in all other samples were recovered within the accuracy specifications.

### 1.1.5 Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries and Precision Results (Reason Code L)

The LCS is an aliquot of analyte-free matrix spiked with target analytes that is prepared with each analytical batch for each analytical method. The recovery of target analytes from the LCS analysis is a measurement of method performance in an interference-free sample matrix. A number of LCS or LCS and LCSD recovery biases was reported for EPA Methods SW8260B, SW8270D, and 300.0. The LCS recovery outliers that led to the data qualification are presented as follows:

Analytical Method	Laboratory QC Batch #	LCS Recovery Outlier (%)	Control Limit (%)
EPA SW8260B	2K01015	2-chlorotoluene: 73.7%	75-125%
	2K01018	2-chlorotoluene: 74.8%	75-125%
		2,2-dichloropropane: 63.5%	70-135%
	2K02007	2-chlorotoluene: 73.2%	75-125%
	2K03002	2,2-dichloropropane: 73.2/59.2%	70-135%
EPA SW8270D	2J25012	Pentachlorophenol: 38%	40-115%
		2,4,5-trichlorophenol: 47%	50-110%
		2,4-dichlorophenol: 48%	50-105%
		2,4,6-trichlorophenol: 38.7%	50-105%
EPA 300.0	2K05024	Nitrate: 112%	90-110%

As shown in the table, the LCS recoveries for the VOCs and SVOCs were below their respective lower control limit. These analytes were not detected in any samples associated with the LCS recovery outliers. As a result, the LOQs for the listed VOCs and SVOCs were qualified as estimated (UJ). Surrogates in all VOCs and SVOCs samples qualified for the LCS recovery outliers were recovered within the accuracy specifications, thus indicating acceptable sample preparation procedures for both analyses. In addition to the low biased LCS recoveries for VOCs and SVOCs, a high biased LCS recovery was reported for the

nitrate analysis. This non-compliant LCS recovery led to qualification of the detected nitrate results as estimated (J+).

In all cases, the above data qualification was applied to the results of the listed analytes in all samples in the batch. As presented in the preceding table, the reported LCS recoveries marginally deviate from their lower or upper control limits, and thus, the data usability of the qualified data is not affected. While the reported LCS recoveries for the listed VOCs and SVOCs fall below their lower control limits, the recoveries are still within the DoD marginal exceedance limits. The LCS results are therefore considered acceptable, and no laboratory corrective actions are required.

In addition, high-biased LCS recoveries and precisions were observed for other VOCs and SVOCs in several batches. Because these analytes were not detected in any associated samples, the sample results are not affected by the LCS accuracy and precision outliers, and no data qualification was warranted.

The LCS results meet the acceptance criteria for PAHs, TPH as gasoline and diesel, metal, ammonia as nitrogen, sulfide, and alkalinity analyses. Additionally, the LCS bias and precision results are within the acceptable control criteria for both the primary and secondary columns for the EDB analysis by EPA Method SW8011.

#### **1.1.6 Matrix Spike/Matrix Spike Duplicate Recoveries and Precision Results (Reason Code M)**

The MS and MSD samples are a portion of a field sample spiked with target analytes that are prepared with each analytical and with each method. The MS/MSD results are used to evaluate any bias introduced to the method due to matrix interference, and to measure bias and precision for each analytical batch.

In accordance with the site-specific BFF Spill QAPjP requirements (USACE, 2011), the MS/MSD samples are to be collected at a rate of 1 per 20 groundwater samples or 5 percent. During the Fourth Quarter 2012 groundwater monitoring event, seven MS/MSD samples were collected from locations at Kirtland Air Force Base (KAFB)-106042, KAFB-106106, KAFB-106001, KAFB-106060, KAFB-106077, KAFB-106092, and KAFB-106021; therefore, the 5 percent MS/MSD sample frequency goal was achieved for all methods. Although additional MS/MSD sample volume was not provided to the laboratory for all parameters, the laboratory still performed MS/MSD analyses for Kirtland Air Force Base (AFB) BFF Spill site-specific groundwater samples to verify the presence of a matrix effect and its potential impact on the precision and bias of the analytical results.

The following Kirtland AFB BFF Spill site-specific groundwater samples were spiked for MS/MSD analysis:

Well Location	Sample Number	MS/MSD Analysis
KAFB-106042	GW0793	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106106	GW0869	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106001	GW0754	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106060	GW0813	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106077	GW0832	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106092	GW0849	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106021	GW0773	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-003	GW0748	Nitrate and nitrite as nitrogen and ammonia and nitrogen
KAFB-106095	GW0852	Anions
KAFB-106019	GW0771	Metals
KAFB-106026	GW0778	Metals
KAFB-106032	GW0782	Metals
KAFB-106045	GW0798	Metals

Well Location	Sample Number	MS/MSD Analysis
KAFB3411	GW0753	Anions
KAFB-106022	GW0774	Anions, nitrate and nitrite as nitrogen, and alkalinity
KAFB-106023	GW0864	Anions
KAFB-106038	GW0789	Anions
KAFB-106102	GW0863	Anions
KAFB-106104	GW0867	Metals
KAFB-106008	GW0759	Anions and TPH as gasoline
KAFB-106008	GW0760	Anions
KAFB-106052	GW0805	Anions and nitrate and nitrite as nitrogen
KAFB-106053	GW0806	Anions and ammonia as nitrogen
KAFB-106062	GW0815	Ammonia as nitrogen
KAFB-106063	GW0816	Nitrate and nitrite as nitrogen
KAFB-106208	GW0879	Metals
KAFB-106093	GW0850	Anions
KAFB-106006	GW0757	Anions
KAFB-106074	GW0829	Anions
KAFB-106201	GW0871	TPH as gasoline
KAFB-106202	GW0872	Anions, nitrate and nitrite as nitrogen, and TPH as gasoline

The majority of the MS results meets the established bias and precision requirements; however, MS recovery biases were observed for the VOCs, SVOCs, EDB, and metals analyses, which are summarized as follows:

Analytical Method	Spiked Sample	MS Recovery Outlier (%)	Control Limit (%)
EPA SW8260B	GW0793	1,3-dichlorobenzene: 74.6/75.6%	75-125%
		2,2-dichloropropane: 47.8/46.3%	70-135%
		1,1-dichloropropene: 69.5/69.6%	75-130%
		p-isopropyltoluene: 71/71.7%	75-130%
		Isopropylbenzene: 76.5/74.7%	75-125%
		Trichlorofluoromethane: 60.9/57.9%	60-145%
EPA SW8270D	GW0869	2,2-dichloropropane: 49/5/59.7%	70-135%
	GW0832	2,2-dichloropropane: 73.2/68.6%	70-135%
EPA SW8011	GW0754	4,6-dinitro-2-methylphenol: 37.1/36.9%	40-130%
		Pentachlorophenol: 33.1/32.6%	40-115%
		2,4,6-trichlorophenol: 36.2/37.2%	50-115%
		2,4,5-trichlorophenol: 45.1/46.6%	50-110%
EPA SW6010B	GW0849	EDB: 60.1/73.2%	70-130%
EPA SW6010B	GW0778	Calcium: 42.3/20.3%	80-120%
		Sodium: 79.6/66%	80-120%
	GW0793	Calcium: 96.6/62%	80-120%
	GW0869	Calcium: 99/63%	80-120%
	GW0754	Calcium: 131%	80-120%
		Sodium: 124%	80-120%
	GW0813	Calcium: 103/146%	80-120%
		Sodium: 100/125%	80-120%
GW0782	Calcium: 78/71%	80-120%	

The above listed VOCs and SVOCs reported by EPA Methods SW8260B and SW8270D, respectively, were not detected in the spiked samples. As a result of the low-biased MS recoveries indicated in the table, the LOQs were qualified as estimated (UJ). The low biased MS recovery for EDB by EPA Method SW8011 also led to qualification of the detected EDB result as estimated (J-). This data qualification was applied to the results of the listed analytes in the spiked samples only. As presented in the table, the reported MS recoveries for the majority of the analytes marginally deviate from the lower control limits; therefore, the data usability of the qualified results is not affected. In all cases, the associated LCS results for all three methods were within the control criteria, thus indicating acceptable laboratory method performance for all samples in the batch.

As shown in the preceding table, the reported MS recoveries for calcium and sodium analyzed by EPA Method SW6010B exceed the upper or lower control limits in the spiked samples. These non-compliant MS results could be attributed to a matrix effect. In the spiked samples, the parent concentrations of calcium and sodium far exceed four times the spiked level. These elevated sample concentrations produced matrix interference, which led to the non-compliant MS recoveries. Because the sample concentrations are greater than four times the spiked levels, no data qualification was applied to the calcium and sodium results.

Additionally, elevated MS recoveries were reported for SVOC and TPH as diesel in other MS samples. In all cases, the analytes were not detected, and thus, the not detected results were not affected by the MS recovery outliers, and no data qualification was warranted.

Except as noted, the MS precision and bias results are acceptable for all other analyses.

### 1.1.7 Initial Calibration (Reason Code G)

Instrument calibration is performed for VOCs, PAHs, SVOCs, EDB, TPH as gasoline and diesel, metal, anion, ammonia as nitrogen, and nitrate and nitrite as nitrogen analyses according to the EPA method requirements (EPA, 1996). The linear analytical range is established for each method by analysis of calibration standards prepared at increasing concentrations that cover the expected sample concentrations. The acceptability of the initial calibration is determined by calculation of a percent relative standard deviation or coefficient. The initial calibration results are acceptable for all the listed methods.

Immediately after the initial calibration for each method, an initial calibration verification (ICV) was conducted at the mid-point of instrument calibration range by using a second source calibration standard to verify the accuracy of the initial calibration. The review indicated acceptable ICV results for all target analytes.

### 1.1.8 Continuing Calibration Verification (Reason Code C)

Routinely during sample analysis, the stability of the analytical system is monitored by analysis of continuing calibration standards at concentrations near the mid-point of the instrument calibration range. The percent difference (%D) values between the relative response factor (RRF) in the initial calibration and the RRF in the continuing calibration exceed the acceptance criteria for VOCs and SVOCs analyses. The CCV outliers that resulted in data qualification are summarized as follows:

Analytical Method	Calibration ID	CCV Outlier (%)	Control Limit (%)
EPA SW8260B	2J28901-CCV1	1,1,2,2-tetrachloroethane: -20.8	<20%
	2J29004-CCV1	Bromomethane: -23.4%	<20%
		Chloromethane: -20.8%	<20%
		1,1,2,2-tetrachloroethane: -20.9%	<20%
	2J29605-CCV1	Acetone: -24.4%	<20%
		Dichlorodifluoromethane: +38.9%	<20%
	2J29801-CCV1	1,1,1-trichloroethane: -23.4%	<20%
	2J28004-CCV1	Dichlorodifluoromethane: +24.7%	<20%
	2J29905-CCV1	Acetone: +26.4%	<20%
	2J30305-CCV1	Acetone: -29.6%	<20%
2-Butanone: -21.1%		<20%	

Analytical Method	Calibration ID	CCV Outlier (%)	Control Limit (%)
EPA SW8260B (continued)	2J30313-CCV1	Acetone: -24.7%	<20%
		2,2-dichloropropane: -23.2	<20%
	2J30501-CCV1	Bromomethane: -24.4%	<20%
	2K30706-CCV1	Bromomethane: -21/6%	<20%
		2-chlorotoluene: -21.8%	<20%
		1,1,2,2-tetrachloroethane: -22.4%	<20%
	2K31006-CCV1	Acetone: -24.1%	<20%
		Bromobenzene: -24.3%	<20%
		2-chlorotoluene: -21.2%	<20%
		1,1,2,2-tetrachloroethane: -31.4%	<20%
	2K31008-CCV1	Acetone: 29.3%	<20%
		1,1,2,2-tetrachloroethane: -21%	<20%
	2J30502-CCV1	Acetone: -32.2%	<20%
		2-butanone: -25.9%	<20%
	2J31306-CCV1	Bromomethane: -20.2%	<20%
		1,2-dichloroethane: -22.7%	<20%
2K31408-CCV1	2-chlorotoluene: -20.9%	<20%	
	1,2-dichloroethane: -20.2%	<20%	
	1,1,2,2-tetrachloroethane: -30.5%	<20%	
2K32001-CCV1	Naphthalene: -21%	<20%	
EPA SW8270D	2J29718-CCV1	Benzoic Acid: -30.5%	<20%
	2K31204-CCV1	Benzoic Acid: -37.5%	<20%
	2K31501-CCV1	Benzoic Acid: -42.9%	<20%
	2K31907-CCV1	Benzoic Acid: -23.7%	<20%

ID identification

As a result of the low-biased %D values, the detected results and the LOQs for the non-detected analytes were qualified as estimated (J-) and (UJ), respectively. The high-biased %D values led to qualification of the detected results as estimated (J+), but do not affect the not detected results. This data qualification was applied to the results of the listed analytes in all samples associated with the non-compliant CCVs. In all cases, the degree of calibration exceedances for the listed analyses is minor and does not affect the data usability. This data qualification has minimum impact on the project data quality objectives because the listed VOCs and SVOCs have not been identified as chemicals of concern for the site.

Additionally, high-biased %D values were reported for other VOCs, SVOCs, and TPH as gasoline.

Because these analytes were not detected in samples associated with the CCV outliers, the high-biased %D values do not affect the sample results, and therefore, did not warrant any data qualification. Except as noted, the CCV results are acceptable for all other analyses.

### 1.1.9 Interference Check Samples (Reason Code O)

The ICS verifies the inter-element and background correction factors. An ICS was analyzed at the required frequencies, and all ICS results are within the established control limit for EPA Method SW6010B for the Fourth Quarter 2012 groundwater monitoring event.

### 1.1.10 ICP Serial Dilutions (Reason Code A)

The ICP serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. An ICP serial dilution was performed on 14 project samples collected during the Fourth Quarter 2012 groundwater monitoring event (GW0782, GW0798, GW0793, GW0869, GW0771, GW0778, GW0793, GW0869, GW0754, GW0867, GW0879, GW0849, GW0813, GW0832). A percent difference between the original analysis and the diluted analysis exceeds the control limit and is presented below:

Analytical Method	Sample ID	ICP Serial Dilution Outlier (%)	Control Limit (%)
EPA SW6010B ID identification	GW0754	Manganese: +12.6%	<10%

The ICP serial dilution outlier led to qualification of the detected manganese results as estimated (J) in the affected samples. As required by the site-specific BFF Spill QAPjP (USACE, 2011) and DoD QSM (2010), the laboratory performed the post-digestion spike analysis on the non-compliant sample and reported acceptable post-digestion spike recoveries for the analyte. The ICP serial dilution results meet the accuracy goal for all other metals and for all other 13 samples.

### 1.1.11 Sample Confirmation (Reason Code D)

As required by the DoD and EPA, when samples are analyzed by either a gas chromatography or high-performance liquid chromatography method, all positive results, with the exception of TPH as gasoline and diesel, must be confirmed by a second column or a different detector. As indicated in all nine SDGs

for the Fourth Quarter 2012 groundwater monitoring event, all positive EDB results analyzed by EPA Method SW8011 were confirmed by a second column, and the precision results between the primary and secondary columns are within the precision control limit for all the detected samples with the following exceptions:

Analytical Method	Sample ID	Precision Outlier (%)	Control Limit (%)
EPA SW8011	GW0868	EDB RPD: 127%	<40%
	GW0816	EDB RPD: 60%	<40%
	GW0821	EDB RPD: 42%	<40%
	GW0835	EDB RPD: 72%	<40%
	GW0836	EDB RPD: 66%	<40%
	GW0841	EDB RPD: 48%	<40%
	GW0773	EDB RPD: 44%	<40%

ID identification

As indicated above, the reported precisions for the listed samples exceed the acceptable precision control limit of less than or equal to 40 percent. As a result of the non-compliant precisions, the detected EDB results in the affected samples were qualified as estimated (J). In all cases, the reported EDB results in the listed samples were either below the LOQ or slightly above the LOQ. Precision can not be accurately measured as sample results are approaching the LOQ. There is no impact on the data usability because of this data quality outlier. It should be noted that the LCSD RPD results in the associated LCS analysis meet the precision requirement, thus indicating acceptable laboratory batch precision. It should be also noted that both the EPA Method and DoD QSM (2010) do not require laboratory corrective actions due to the non-compliant precision results between the two columns.

The analyte EDB was analyzed in all groundwater samples by both EPA Methods SW8011 and SW8260B. During the data review, the EDB results for the analysis by EPA Method SW8011 were also compared with the EDB results analyzed by EPA Method SW8260B. In most cases, the detected EDB results between the two methods are comparable and in agreement.

### **1.1.12 Ambient Blanks (Reason Code K2)**

Ambient blanks serve as a check on environmental contamination from contaminants in air at a sampling location. The ambient blanks are prepared by the laboratory by pouring distilled water into clean sample containers. The ambient blanks are then shipped to the field and exposed at the time of sample collection and at a particular well location.

As described in the site-specific BFF Spill QAPJP (USACE, 2011), ambient blanks are to be collected at a minimum rate of 5 percent of the total number of groundwater samples. During the Fourth Quarter 2012 groundwater monitoring event, a total of seven ambient blanks was collected, thereby achieving the ambient blank sample frequency requirement of 5 percent. The ambient blanks were analyzed for VOCs only. All seven ambient blanks were free of VOCs.

### **1.1.13 Trip Blanks (Reason Code K3)**

Trip blanks were prepared by the laboratory and stored with the groundwater samples collected for VOCs analysis. One trip blank was submitted with VOCs samples collected on each day from October 3 through November 19, 2012, which resulted in a total of 16 trip blanks for the entire sampling event. No VOCs were detected in any of the 16 trip blanks. Therefore, the trip blank results are acceptable and demonstrate that valid sample storage and shipping procedures are being implemented.

### **1.1.14 Equipment Rinse Blanks (Reason Code K1)**

Equipment rinse blanks are designed to check for contamination from sampling equipment, and the results for the equipment rinse blanks are used to evaluate the efficiency of equipment decontamination procedures.

During the Fourth Quarter 2012 groundwater monitoring event, dedicated sampling equipment was used to collect the majority of the groundwater samples. As no cross-contamination between wells could occur, no equipment rinse blanks were necessary in these cases.

However, non-dedicated sampling equipment was used to collect a number of groundwater samples, and one equipment rinse blank was collected during the Fourth Quarter 2012 groundwater monitoring event. The equipment rinse blank sample was prepared by rinsing the decontaminated pump with the distilled water and then collecting the final rinse into appropriate sample containers. The equipment rinse blank sample was analyzed for VOCs, SVOCs, TPH as gasoline and diesel, and metals. Appendix B1 – Table 4 summarizes the detected equipment rinse blank results and associated sample results. Positive results in the equipment rinse blank are presented as follows:

Analytical Method	Equipment Rinse Blank	Number of Contaminants	Detection Range (µg/L)	LOQ Range (µg/L)
EPA SW8260B	GW8060-RB	2	5.13-10.3	1-10
EPA SW8270D	GW8060-RB	1	1.88	4.81
EPA SW6010B	GW8060-RB	1	1,100	5,000

µg/L microgram per liter

The above equipment rinse blank results have no impact on the data quality of the sample results because the VOCs, SVOCs, and metals in samples associated with the equipment rinse blank were either not detected, or their concentrations in samples exceeded five times the levels reported in the equipment rinse blank. No data qualification was necessary due to the equipment rinse blank detections. Overall, the equipment rinse blank results indicated effective equipment decontamination procedures.

### 1.1.15 Field Duplicates

In accordance with the site-specific BFF Spill QAPjP requirements (USACE, 2011), field duplicate samples are to be collected at a minimum rate of 10 percent of the total number of groundwater samples.

Field duplicate samples are evaluated by calculating the RPD between the parent sample and its duplicate.

The RPD is calculated using the following equation:

$$RPD = \frac{|S-D|}{[(S+D)/2]} \times 100$$

where:

S = sample result  
D = duplicate result

Acceptable precision control criteria are established at less than or equal to 35 percent for water samples.

The RPD is calculated between pairs of field duplicate samples when both results are reported above the LOQ.

Twelve field duplicate pairs were collected for the Fourth Quarter 2012 groundwater monitoring event; therefore, the 10 percent field duplicate frequency requirement was achieved. The duplicate pairs were collected from locations KAFB-106008, KAFB-106018, KAFB-106024, KAFB-106033, KAFB-106044, KAFB-106057, KAFB-106068, KAFB-106080, KAFB-106089, KAFB-106097, KAFB-106103, and KAFB-106203. All 12 pairs were analyzed for VOCs, SVOCs, EDB, TPH as gasoline and diesel, total and dissolved metals, anions, sulfide, ammonia as nitrogen, nitrate and nitrite as nitrogen, and alkalinity. Appendix B1 – Table 5 presents the field duplicate results.

The RPDs for all detected analytes were between 0 and 34.1 percent, which is well within the 35 percent field duplicate precision criteria. Overall, the field duplicate results demonstrate acceptable field sampling and analytical precision for all methods.

## 1.2 Completeness

The following sections present a discussion of contractual, analytical, and technical completeness for the Fourth Quarter 2012 groundwater monitoring event. Completeness calculations were performed only for

the groundwater samples that are used for project decisions. For informational purposes, completeness calculations were also calculated for the field QC samples. Completeness results are presented in Appendix B1 – Table 6.

### 1.2.1 Contractual Completeness

Contractual completeness is a quantitative determination of the number of unqualified results compared to the total number of sample results expressed as a percentage, based on data qualified for QC outliers related to method performance. These include data qualified for calibration or preparation blank contamination, missed holding times, and non-compliant LCS recovery and/or precision. The contractual completeness goal is 95 percent. Contractual completeness is calculated as follows:

$$\% \text{ Contractual Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \times 100$$

For the Fourth Quarter 2012 groundwater monitoring event, the contractual completeness goal was achieved as follows:

- Nitrate and nitrite as nitrogen EPA Method 353.2 – 99.2%
- Sulfide by SM 4500S2CF – 99.2%
- Metals by EPA SW6010B – 99.6%
- TPH as gasoline – 99.2%
- TPH as diesel – 99.2%
- VOCs by EPA Method 8260B – 99.8%
- SVOCs by EPA Method SW8270D – 99.8%
- Other methods – 100%

As shown above, the 95 percent contractual completeness requirement was achieved for all methods.

## 1.2.2 Analytical Completeness

Analytical completeness is a quantitative measure of the number of unqualified data results compared to the total number of results expressed as a percentage, based on the target analytes qualified for exceedances of QC requirements based on calibration, LCS, MS/MSD, surrogate, method precision, and laboratory method blank contamination results. The analytical completeness goal is 90 percent for the project. Analytical completeness is calculated as follows:

$$\% \text{ Analytical Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \times 100$$

For the Fourth Quarter 2012 groundwater monitoring event, the analytical completeness goal was achieved as follows:

- Nitrate and nitrite as nitrogen EPA Method 353.2 – 99.2%
- Sulfide by SM 4500S2CF – 99.2%
- Metals by EPA SW6010B – 99.4%
- EDB by EPA Method 8011 – 88.6%
- TPH as gasoline – 99.2%
- TPH as diesel – 97.7%
- VOCs by EPA Method 8260B – 97.6%
- SVOCs by EPA Method SW8270D – 98.2%
- Other methods – 100%

With the exception of EDB by EPA Method SW8011, the 90 percent analytical completeness goal was achieved for all methods. The 90 percent analytical completeness goal for the EDB analysis was slightly missed (88.6 percent) due to a combination of surrogate and MS recovery and sample precision outliers discussed in the previous sections. While results of EDB in a few sample results were qualified as estimated due to these QC outliers, the data usability of the qualified data is not affected. Qualified data are still usable to achieve the project data quality objectives.

### 1.2.3 Technical Completeness

Technical completeness is a quantitative measure of the data usability based on the number of rejected data compared to the total number of sample results. The technical completeness goal for each method is equal to or greater than 95 percent. The technical completeness calculation considers all data that are not rejected to be usable. The technical completeness is calculated as follows:

$$\% \text{ Technical Completeness} = \frac{\text{Number of Usable Results}}{\text{Total Number of Results}} \times 100$$

Despite the exceedances noted, the technical completeness was 100 percent for all methods exceeding the 95 percent technical completeness objective. Therefore, the project data quality objectives were achieved for the Fourth Quarter 2012 groundwater monitoring event.

### 1.3 Summary

The analytical data reported for this event have been reviewed for precision, bias, representativeness, comparability, and completeness. Data quality exceedances consist of missed holding times, biased surrogate, LCS/LCSD, and MS/MSD recoveries; continuing calibration outliers; non-compliant ICP serial dilution and sample precisions; and low-level laboratory and field blank contamination. The affected data were qualified as estimated or not-detected. In all cases, the degree of these data quality exceedances was minor, and the data usability was not affected. The 95 percent technical completeness goal was exceeded for all methods for the Fourth Quarter 2012 groundwater monitoring event. All data are usable for their intended purposes.

---

## REFERENCES

- American Public Health Association, American Water Works Association, and Water Environment Federation. 2005. *Standard Methods for the Examination of Water and Wastewater, 21st Edition*. American Public Health Association: Washington, DC.
- DoD. 2010. *DoD Quality Systems Manual for Environmental Laboratories, Version 4.2*. October 25.
- EPA. 2010. *USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Superfund Data Review, Final*. Office of Superfund Remediation and Technology Innovation, OSWER 8240.1-51 and EPA-540-R-10-011. January.
- EPA. 2008. *USEPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Data Review, Final*. Office of Superfund Remediation and Technology Innovation, OSWER 9240.1-48 and EPA-540-R-08-01. June.
- EPA. 1996. *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods (2006), SW-846 On-line*. Office of Solid Waste, Washington D.C.  
<http://www.epa.gov/osw/hazard/testmethods/sw846>.
- USACE. 2011. *Quality Assurance Project Plan, Bulk Fuels Facility (BFF) Spill, Solid Waste Management Units ST-106 and SS-111, Kirtland Air Force Base, Albuquerque, New Mexico*. Prepared by Shaw Environmental & Infrastructure, Inc. for the USACE Albuquerque District under USACE Contract No. W912DY-10-D-0014, Delivery Order 0002. April.
- USACE. 2005. *Environmental Quality – Guidance for Evaluating Performance-Based Chemical Data*, EM 200-1-10. June 30.

**THIS PAGE INTENTIONALLY LEFT BLANK**

## TABLES

**THIS PAGE INTENTIONALLY LEFT BLANK**

## List of Appendix B-1 Tables

Appendix B1 – Table 1: Groundwater Sample Deliverable Group, October – December 2012

Appendix B1 – Table 2: Data Qualification Flags and Reason Codes

Appendix B1 – Table 3: Qualified Data Summary

Appendix B1 – Table 4: Detected Equipment Blank Results and Associated Sample Results

Appendix B1 – Table 5: Field Duplicate Summary

Appendix B1 – Table 6: Technical Completeness

**THIS PAGE INTENTIONALLY LEFT BLANK**

**Appendix B1 – Table 1. Groundwater Sample Delivery Group, October – December 2012**

Location	Sample Date	Sample Number	SDG	Type
KAFB-003	10/3/2012	GW0748	KIRTLAND_064	WG
KAFB-015	10/3/2012	GW0749	KIRTLAND_064	WG
KAFB-106001	10/16/2012	GW0754	KIRTLAND_066	WG
KAFB-106002	11/1/2012	GW0755	KIRTLAND_069	WG
KAFB-106003	10/15/2012	GW0861	KIRTLAND_066	WG
KAFB-106004	11/5/2012	GW0858	KIRTLAND_070	WG
KAFB-106005	11/12/2012	GW0756	KIRTLAND_072	WG
KAFB-106006	11/8/2012	GW0757	KIRTLAND_070	WG
KAFB-106007	10/4/2012	GW0758	KIRTLAND_064	WG
KAFB-106008	10/22/2012	GW0759	KIRTLAND_067	WG
KAFB-106008	10/22/2012	GW0760	KIRTLAND_067	WG
KAFB-106009	11/5/2012	GW0761	KIRTLAND_070	WG
KAFB-106010	11/1/2012	GW0762	KIRTLAND_069	WG
KAFB-106011	11/1/2012	GW0763	KIRTLAND_069	WG
KAFB-106013	10/18/2012	GW0854	KIRTLAND_066	WG
KAFB-106014	11/5/2012	GW0765	KIRTLAND_070	WG
KAFB-106015	10/22/2012	GW0766	KIRTLAND_067	WG
KAFB-106016	10/11/2012	GW0767	KIRTLAND_065	WG
KAFB-106017	10/11/2012	GW0768	KIRTLAND_065	WG
KAFB-106018	10/9/2012	GW0769	KIRTLAND_065	WG
KAFB-106018	10/9/2012	GW0770	KIRTLAND_065	WG
KAFB-106019	10/9/2012	GW0771	KIRTLAND_065	WG
KAFB-106020	11/7/2012	GW0772	KIRTLAND_070	WG
KAFB-106021	11/6/2012	GW0773	KIRTLAND_070	WG
KAFB-106022	10/18/2012	GW0774	KIRTLAND_066	WG
KAFB-106023	10/17/2012	GW0864	KIRTLAND_066	WG
KAFB-106024	10/4/2012	GW0775	KIRTLAND_064	WG
KAFB-106024	10/4/2012	GW0776	KIRTLAND_064	WG
KAFB-106025	10/4/2012	GW0777	KIRTLAND_064	WG
KAFB-106026	10/9/2012	GW0778	KIRTLAND_065	WG
KAFB-106027	10/8/2012	GW0795	KIRTLAND_065	WG
KAFB-106028-510	10/24/2012	GW0818	KIRTLAND_067	WG
KAFB-106029	10/23/2012	GW0779	KIRTLAND_067	WG
KAFB-106030	10/23/2012	GW0780	KIRTLAND_067	WG
KAFB-106031	10/23/2012	GW0781	KIRTLAND_067	WG
KAFB-106032	10/8/2012	GW0782	KIRTLAND_065	WG
KAFB-106033	10/8/2012	GW0783	KIRTLAND_065	WG
KAFB-106033	10/8/2012	GW0784	KIRTLAND_065	WG
KAFB-106034	10/8/2012	GW0785	KIRTLAND_065	WG
KAFB-106035	10/30/2012	GW0786	KIRTLAND_069	WG
KAFB-106036	10/30/2012	GW0787	KIRTLAND_069	WG
KAFB-106037	10/30/2012	GW0788	KIRTLAND_069	WG
KAFB-106038	10/18/2012	GW0789	KIRTLAND_066	WG
KAFB-106039	10/18/2012	GW0790	KIRTLAND_066	WG
KAFB-106040	10/18/2012	GW0791	KIRTLAND_066	WG
KAFB-106042	10/10/2012	GW0793	KIRTLAND_065	WG
KAFB-106043	10/10/2012	GW0794	KIRTLAND_065	WG
KAFB-106044	10/8/2012	GW0796	KIRTLAND_065	WG
KAFB-106044	10/8/2012	GW0797	KIRTLAND_065	WG
KAFB-106045	10/8/2012	GW0798	KIRTLAND_065	WG
KAFB-106046	10/17/2012	GW0799	KIRTLAND_066	WG
KAFB-106047	10/17/2012	GW0800	KIRTLAND_066	WG

**Appendix B1 – Table 1. Groundwater Sample Delivery Group, October – December 2012  
(continued)**

Location	Sample Date	Sample Number	SDG	Type
KAFB-106048	10/17/2012	GW0801	KIRTLAND_066	WG
KAFB-106049	10/31/2012	GW0802	KIRTLAND_069	WG
KAFB-106050	10/31/2012	GW0803	KIRTLAND_069	WG
KAFB-106051	10/31/2012	GW0804	KIRTLAND_069	WG
KAFB-106052	10/25/2012	GW0805	KIRTLAND_067	WG
KAFB-106053	10/25/2012	GW0806	KIRTLAND_067	WG
KAFB-106054	10/25/2012	GW0807	KIRTLAND_067	WG
KAFB-106055	10/16/2012	GW0808	KIRTLAND_066	WG
KAFB-106057	10/16/2012	GW0809	KIRTLAND_066	WG
KAFB-106057	10/16/2012	GW0810	KIRTLAND_066	WG
KAFB-106058	10/16/2012	GW0811	KIRTLAND_066	WG
KAFB-106059	10/31/2012	GW0812	KIRTLAND_069	WG
KAFB-106060	10/31/2012	GW0813	KIRTLAND_069	WG
KAFB-106061	10/31/2012	GW0814	KIRTLAND_069	WG
KAFB-106062	10/22/2012	GW0815	KIRTLAND_067	WG
KAFB-106063	10/22/2012	GW0816	KIRTLAND_067	WG
KAFB-106064	10/22/2012	GW0817	KIRTLAND_067	WG
KAFB-106065	10/24/2012	GW0819	KIRTLAND_067	WG
KAFB-106066	10/24/2012	GW0820	KIRTLAND_067	WG
KAFB-106067	10/23/2012	GW0821	KIRTLAND_067	WG
KAFB-106068	10/23/2012	GW0822	KIRTLAND_067	WG
KAFB-106068	10/23/2012	GW0823	KIRTLAND_067	WG
KAFB-106069	10/23/2012	GW0824	KIRTLAND_067	WG
KAFB-106070	10/15/2012	GW0825	KIRTLAND_066	WG
KAFB-106071	10/15/2012	GW0826	KIRTLAND_066	WG
KAFB-106072	10/15/2012	GW0827	KIRTLAND_066	WG
KAFB-106073	11/7/2012	GW0828	KIRTLAND_070	WG
KAFB-106074	11/6/2012	GW0829	KIRTLAND_070	WG
KAFB-106075	11/7/2012	GW0830	KIRTLAND_070	WG
KAFB-106076	11/8/2012	GW0831	KIRTLAND_070	WG
KAFB-106077	11/1/2012	GW0832	KIRTLAND_069	WG
KAFB-106078	11/1/2012	GW0833	KIRTLAND_069	WG
KAFB-106079	10/25/2012	GW0834	KIRTLAND_067	WG
KAFB-106080	10/25/2012	GW0835	KIRTLAND_067	WG
KAFB-106080	10/25/2012	GW0836	KIRTLAND_067	WG
KAFB-106081	10/25/2012	GW0837	KIRTLAND_067	WG
KAFB-106082	10/3/2012	GW0838	KIRTLAND_064	WG
KAFB-106083	10/3/2012	GW0839	KIRTLAND_064	WG
KAFB-106084	10/3/2012	GW0840	KIRTLAND_064	WG
KAFB-106085	10/24/2012	GW0841	KIRTLAND_067	WG
KAFB-106086	10/24/2012	GW0842	KIRTLAND_067	WG
KAFB-106087	10/24/2012	GW0843	KIRTLAND_067	WG
KAFB-106088	10/11/2012	GW0844	KIRTLAND_065	WG
KAFB-106089	10/11/2012	GW0845	KIRTLAND_065	WG
KAFB-106089	10/11/2012	GW0846	KIRTLAND_065	WG
KAFB-106090	10/11/2012	GW0847	KIRTLAND_065	WG
KAFB-106091	10/29/2012	GW0848	KIRTLAND_069	WG
KAFB-106092	10/29/2012	GW0849	KIRTLAND_069	WG
KAFB-106093	10/29/2012	GW0850	KIRTLAND_069	WG
KAFB-106094	10/4/2012	GW0851	KIRTLAND_064	WG
KAFB-106095	10/4/2012	GW0852	KIRTLAND_064	WG
KAFB-106096	10/4/2012	GW0853	KIRTLAND_064	WG

**Appendix B1 – Table 1. Groundwater Sample Delivery Group, October – December 2012  
(concluded)**

Location	Sample Date	Sample Number	SDG	Type
KAFB-106097	10/16/2012	GW0855	KIRTLAND_066	WG
KAFB-106097	10/16/2012	GW0856	KIRTLAND_066	WG
KAFB-106098	10/16/2012	GW0857	KIRTLAND_066	WG
KAFB-106099	11/5/2012	GW0859	KIRTLAND_070	WG
KAFB-106100	11/14/2012	GW0860	KIRTLAND_072	WG
KAFB-106101	10/15/2012	GW0862	KIRTLAND_066	WG
KAFB-106102	10/15/2012	GW0863	KIRTLAND_066	WG
KAFB-106103	10/17/2012	GW0865	KIRTLAND_066	WG
KAFB-106103	10/17/2012	GW0866	KIRTLAND_066	WG
KAFB-106104	10/17/2012	GW0867	KIRTLAND_066	WG
KAFB-106105	10/11/2012	GW0868	KIRTLAND_065	WG
KAFB-106106	10/10/2012	GW0869	KIRTLAND_065	WG
KAFB-106107	10/10/2012	GW0870	KIRTLAND_065	WG
KAFB-106201	11/14/2012	GW0871	KIRTLAND_071	WG
KAFB-106202	11/19/2012	GW0872	KIRTLAND_071	WG
KAFB-106203	11/13/2012	GW0873	KIRTLAND_071	WG
KAFB-106203	11/13/2012	GW0874	KIRTLAND_071	WG
KAFB-106204	11/13/2012	GW0875	KIRTLAND_071	WG
KAFB-106205	10/30/2012	GW0876	KIRTLAND_068	WG
KAFB-106205	11/7/2012	GW0876R	KIRTLAND_068	WG
KAFB-106206	10/30/2012	GW0877	KIRTLAND_068	WG
KAFB-106206	11/6/2012	GW0877R	KIRTLAND_068	WG
KAFB-106207	11/7/2012	GW0878	KIRTLAND_068	WG
KAFB-106208	10/29/2012	GW0879	KIRTLAND_068	WG
KAFB-106209	10/29/2012	GW0880	KIRTLAND_068	WG
KAFB-106209	11/6/2012	GW0880R	KIRTLAND_068	WG
KAFB3411	10/9/2012	GW0753	KIRTLAND_065	WG
ST106-VA2	10/3/2012	GW0752	KIRTLAND_064	WG

**THIS PAGE INTENTIONALLY LEFT BLANK**

## Appendix B1 – Table 2. Data Qualification Flags and Reason Codes

### *Data Qualifier Definitions for Organic Data Review*

Qualifier	Definition
	<b>No Qualifier</b> indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the reported limit of quantitation.
J	The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated, although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
J-	The analyte was positively identified; the associated numerical value is its approximate concentration with a low bias in the sample.
J+	The analyte was positively identified; the associated numerical value is its approximate concentration with a high bias in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified," and the associated value represents its approximate concentration.
UJ	The analyte was not detected above the reported limit of quantitation. However, the reported limit of quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The analyte was analyzed for, but the presence or absence of the analyte has not been verified. Resampling and reanalysis may be necessary to confirm or deny the presence of the analyte. Results are rejected, and data are <u>unusable</u> for any purposes.

### *Data Qualifier Definitions For Inorganic Data Review*

Qualifier	Definition
	<b>No Qualifier</b> indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the level of the reported value. The reported value is the limit of quantitation for water and soil for all the analytes except cyanide (CN) and mercury (Hg). For CN and Hg, the reported value is the contract-required detection limit.
J	The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated, although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
J-	The analyte was positively identified; the associated numerical value is its approximate concentration with a low bias in the sample.
J+	The analyte was positively identified; the associated numerical value is its approximate concentration with a high bias in the sample.
UJ	The analyte was analyzed for but was not detected above the reported value. The reported value may not accurately or precisely represent the sample limit of quantitation.
R	The analyte was analyzed for, but the presence or absence of the analyte has not been verified. Resampling and reanalysis may be necessary to confirm or deny the presence of the analyte. Results are rejected, and data are <u>unusable</u> for any purposes.

## Appendix B1 – Table 2. Data Qualification Flags and Reason Codes (concluded)

### *Reason Codes for Data Review and Validation*

Reason Code	Description
A	Serial dilution outside criteria (Level IV).
B1	Method blank contaminants above reporting limit.
B2	Calibration blank contaminants above reporting limit.
B2, Bias Flag “-“	Calibration blank indicates negative interference; false negatives may be present.
C	Calibration outside control limits.
D	Sample results precision between primary and secondary columns outside control limit.
D1	Sample duplicate RPD outside control limit.
D2	Matrix duplicate RPD outside control limit.
D3	Laboratory control sample duplicate RPD outside control limit.
E	The sample results exceed the linear calibration range of the instrument.
F	Hydrocarbon pattern does not match hydrocarbon pattern in the standard.
G1	Initial calibration relative standard deviation outside control limit.
G2	Initial continuing calibration RRF outside control limit.
G3	Continuing calibration RRF outside control limit.
H	Holding time exceeded.
I	Internal standard recovery outside control limit.
K1	Equipment rinsate contamination.
K2	Ambient blank contamination.
K3	Trip blank contamination.
L	LCS outside control limits.
M	MS outside control limits.
O	Interference check sample outside acceptance criteria.
P	Analyte qualified based on the professional judgment of the reviewer.
S	Surrogate recovery outside control limit.
T	Temperature outside acceptance criteria.
Tr	Value reported detected between the detection limit and LOQ.
W	Pesticide breakdown outside criteria (Level IV).
X	Raised reporting limit due to matrix interference or high analyte concentration.
Y	Analyte was not confirmed by a second column.

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code A</b>		<b>Method SW6010B-DISS</b>								
GW0754	REG	10/16/2012	Manganese	KIRTLAND_066	236	3	15	1	ug/L	J
<b>Reason Code B1</b>		<b>Method SW6010B-DISS</b>								
GW0756	REG	11/12/2012	Iron	KIRTLAND_072	125	30	100	1	ug/L	U
GW0757	REG	11/8/2012	Iron	KIRTLAND_070	ND	30	100	1	ug/L	U
GW0772	REG	11/7/2012	Iron	KIRTLAND_070	ND	30	100	1	ug/L	U
GW0773	REG	11/6/2012	Iron	KIRTLAND_070	ND	30	100	1	ug/L	U
<b>Reason Code B1</b>		<b>Method SW8015B</b>								
GW0772	REG	11/7/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_070	0.245	0.05	0.15	1	mg/L	U
<b>Reason Code C</b>		<b>Method SW8260B</b>								
GW0748	REG	10/3/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_064	ND	0.25	1	1	ug/L	UJ
GW0749	REG	10/3/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_064	ND	0.25	1	1	ug/L	UJ
GW0752	REG	10/3/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_064	ND	0.25	1	1	ug/L	UJ
GW0754	REG	10/16/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0755	REG	11/1/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0755	REG	11/1/2012	1,2-Dichloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0755	REG	11/1/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW0756	REG	11/12/2012	Bromomethane	KIRTLAND_072	ND	5	20	10	ug/L	UJ
GW0757	REG	11/8/2012	Acetone	KIRTLAND_070	ND	25	100	10	ug/L	UJ
GW0759	REG	10/22/2012	Bromomethane	KIRTLAND_067	ND	5	20	10	ug/L	UJ
GW0760	FD	10/22/2012	Bromomethane	KIRTLAND_067	ND	5	20	10	ug/L	UJ
GW0761	REG	11/5/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_070	ND	25	100	100	ug/L	UJ
GW0761	REG	11/5/2012	1,2-Dichloroethane	KIRTLAND_070	ND	25	100	100	ug/L	UJ
GW0761	REG	11/5/2012	2-Chlorotoluene	KIRTLAND_070	ND	25	100	100	ug/L	UJ
GW0762	REG	11/1/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	25	100	100	ug/L	UJ
GW0762	REG	11/1/2012	1,2-Dichloroethane	KIRTLAND_069	ND	25	100	100	ug/L	UJ
GW0762	REG	11/1/2012	Bromomethane	KIRTLAND_069	ND	50	200	100	ug/L	UJ
GW0763	REG	11/1/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0763	REG	11/1/2012	1,2-Dichloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0763	REG	11/1/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW0765	REG	11/5/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_070	ND	25	100	100	ug/L	UJ
GW0765	REG	11/5/2012	1,2-Dichloroethane	KIRTLAND_070	ND	25	100	100	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code C</b>	<b>Method SW8260B</b>									
GW0765	REG	11/5/2012	2-Chlorotoluene	KIRTLAND_070	ND	25	100	100	ug/L	UJ
GW0766	REG	10/22/2012	Bromomethane	KIRTLAND_067	ND	0.5	2	1	ug/L	UJ
GW0772	REG	11/7/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0772	REG	11/7/2012	1,2-Dichloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0772	REG	11/7/2012	2-Chlorotoluene	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0773	REG	11/6/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0773	REG	11/6/2012	1,2-Dichloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0773	REG	11/6/2012	2-Chlorotoluene	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0774	REG	10/18/2012	2,2-Dichloropropane	KIRTLAND_066	ND	0.25	1	1	ug/L	UJ
GW0774	REG	10/18/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0779	REG	10/23/2012	Bromomethane	KIRTLAND_067	ND	0.5	2	1	ug/L	UJ
GW0780	REG	10/23/2012	Bromomethane	KIRTLAND_067	ND	0.5	2	1	ug/L	UJ
GW0781	REG	10/23/2012	Bromomethane	KIRTLAND_067	ND	0.5	2	1	ug/L	UJ
GW0782	REG	10/8/2012	Acetone	KIRTLAND_065	ND	2.5	10	1	ug/L	UJ
GW0783	REG	10/8/2012	Acetone	KIRTLAND_065	ND	2.5	10	1	ug/L	UJ
GW0784	FD	10/8/2012	Acetone	KIRTLAND_065	ND	2.5	10	1	ug/L	UJ
GW0785	REG	10/8/2012	Acetone	KIRTLAND_065	ND	2.5	10	1	ug/L	UJ
GW0786	REG	10/30/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0786	REG	10/30/2012	Acetone	KIRTLAND_069	ND	2.5	10	1	ug/L	UJ
GW0786	REG	10/30/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW0787	REG	10/30/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0787	REG	10/30/2012	Acetone	KIRTLAND_069	ND	2.5	10	1	ug/L	UJ
GW0787	REG	10/30/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW0788	REG	10/30/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0788	REG	10/30/2012	Acetone	KIRTLAND_069	ND	2.5	10	1	ug/L	UJ
GW0788	REG	10/30/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW0789	REG	10/18/2012	2-Butanone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0789	REG	10/18/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0790	REG	10/18/2012	2-Butanone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0790	REG	10/18/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code C</b>	<b>Method SW8260B</b>									
GW0791	REG	10/18/2012	2-Butanone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0791	REG	10/18/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0793	REG	10/10/2012	1,1,1-Trichloroethane	KIRTLAND_065	ND	0.25	1	1	ug/L	UJ
GW0795	REG	10/8/2012	Acetone	KIRTLAND_065	ND	2.5	10	1	ug/L	UJ
GW0796	REG	10/8/2012	Acetone	KIRTLAND_065	ND	2.5	10	1	ug/L	UJ
GW0797	FD	10/8/2012	Acetone	KIRTLAND_065	ND	2.5	10	1	ug/L	UJ
GW0798	REG	10/8/2012	Acetone	KIRTLAND_065	ND	2.5	10	1	ug/L	UJ
GW0799	REG	10/17/2012	2,2-Dichloropropane	KIRTLAND_066	ND	0.25	1	1	ug/L	UJ
GW0799	REG	10/17/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0800	REG	10/17/2012	2-Butanone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0800	REG	10/17/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0801	REG	10/17/2012	2-Butanone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0801	REG	10/17/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0802	REG	10/31/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0802	REG	10/31/2012	1,2-Dichloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0802	REG	10/31/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW0803	REG	10/31/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0803	REG	10/31/2012	1,2-Dichloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0803	REG	10/31/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW0804	REG	10/31/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0804	REG	10/31/2012	1,2-Dichloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0804	REG	10/31/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW0805	REG	10/25/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0805	REG	10/25/2012	2-Chlorotoluene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0805	REG	10/25/2012	Bromobenzene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0806	REG	10/25/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0806	REG	10/25/2012	Bromobenzene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0807	REG	10/25/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0807	REG	10/25/2012	Bromobenzene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0808	REG	10/16/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code C</b>	<b>Method SW8260B</b>									
GW0809	REG	10/16/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0810	FD	10/16/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0811	REG	10/16/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0812	REG	10/31/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	25	100	100	ug/L	UJ
GW0812	REG	10/31/2012	1,2-Dichloroethane	KIRTLAND_069	ND	25	100	100	ug/L	UJ
GW0812	REG	10/31/2012	Bromomethane	KIRTLAND_069	ND	50	200	100	ug/L	UJ
GW0813	REG	10/31/2012	1,2-Dichloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0813	REG	10/31/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW0814	REG	10/31/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0814	REG	10/31/2012	1,2-Dichloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0814	REG	10/31/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW0815	REG	10/22/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0815	REG	10/22/2012	2-Chlorotoluene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0815	REG	10/22/2012	Bromobenzene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0816	REG	10/22/2012	Bromomethane	KIRTLAND_067	ND	0.5	2	1	ug/L	UJ
GW0817	REG	10/22/2012	Bromomethane	KIRTLAND_067	ND	10	40	20	ug/L	UJ
GW0818	REG	10/24/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	25	100	100	ug/L	UJ
GW0819	REG	10/24/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	1.25	5	5	ug/L	UJ
GW0819	REG	10/24/2012	Bromobenzene	KIRTLAND_067	ND	1.25	5	5	ug/L	UJ
GW0820	REG	10/24/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0820	REG	10/24/2012	Bromobenzene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0821	REG	10/23/2012	Bromomethane	KIRTLAND_067	ND	2.5	10	5	ug/L	UJ
GW0822	REG	10/23/2012	Bromomethane	KIRTLAND_067	ND	0.5	2	1	ug/L	UJ
GW0823	FD	10/23/2012	Bromomethane	KIRTLAND_067	ND	0.5	2	1	ug/L	UJ
GW0824	REG	10/23/2012	Bromomethane	KIRTLAND_067	ND	0.5	2	1	ug/L	UJ
GW0825	REG	10/15/2012	Acetone	KIRTLAND_066	119	12.5	50	5	ug/L	J-
GW0826	REG	10/15/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0827	REG	10/15/2012	Acetone	KIRTLAND_066	254	12.5	50	5	ug/L	J-
GW0828	REG	11/7/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_070	ND	0.5	2	2	ug/L	UJ
GW0828	REG	11/7/2012	1,2-Dichloroethane	KIRTLAND_070	ND	0.5	2	2	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code C</b>	<b>Method SW8260B</b>									
GW0828	REG	11/7/2012	2-Chlorotoluene	KIRTLAND_070	ND	0.5	2	2	ug/L	UJ
GW0829	REG	11/6/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0829	REG	11/6/2012	1,2-Dichloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0829	REG	11/6/2012	2-Chlorotoluene	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0830	REG	11/7/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0830	REG	11/7/2012	1,2-Dichloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0830	REG	11/7/2012	2-Chlorotoluene	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0831	REG	11/8/2012	Acetone	KIRTLAND_070	4580	500	2000	200	ug/L	J-
GW0832	REG	11/1/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0832	REG	11/1/2012	1,2-Dichloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0832	REG	11/1/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW0834	REG	10/25/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	50	200	200	ug/L	UJ
GW0834	REG	10/25/2012	Acetone	KIRTLAND_067	ND	500	2000	200	ug/L	UJ
GW0835	REG	10/25/2012	Bromomethane	KIRTLAND_067	ND	10	40	20	ug/L	UJ
GW0836	FD	10/25/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	5	20	20	ug/L	UJ
GW0836	FD	10/25/2012	Acetone	KIRTLAND_067	ND	50	200	20	ug/L	UJ
GW0837	REG	10/25/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0837	REG	10/25/2012	Acetone	KIRTLAND_067	ND	2.5	10	1	ug/L	UJ
GW0837	REG	10/25/2012	Bromobenzene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0838	REG	10/3/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_064	ND	2.5	10	10	ug/L	UJ
GW0839	REG	10/3/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_064	ND	1.25	5	5	ug/L	UJ
GW0839	REG	10/3/2012	Bromomethane	KIRTLAND_064	ND	2.5	10	5	ug/L	UJ
GW0839	REG	10/3/2012	Chloromethane	KIRTLAND_064	ND	1.25	5	5	ug/L	UJ
GW0841	REG	10/24/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0841	REG	10/24/2012	Bromobenzene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0842	REG	10/24/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	1.25	5	5	ug/L	UJ
GW0842	REG	10/24/2012	Bromobenzene	KIRTLAND_067	ND	1.25	5	5	ug/L	UJ
GW0843	REG	10/24/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0843	REG	10/24/2012	Acetone	KIRTLAND_067	ND	2.5	10	1	ug/L	UJ
GW0843	REG	10/24/2012	Bromobenzene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code C</b>	<b>Method SW8260B</b>									
GW0848	REG	10/29/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	1.25	5	5	ug/L	UJ
GW0848	REG	10/29/2012	Acetone	KIRTLAND_069	ND	12.5	50	5	ug/L	UJ
GW0848	REG	10/29/2012	Bromomethane	KIRTLAND_069	ND	2.5	10	5	ug/L	UJ
GW0849	REG	10/29/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	1.25	5	5	ug/L	UJ
GW0849	REG	10/29/2012	Bromomethane	KIRTLAND_069	ND	2.5	10	5	ug/L	UJ
GW0854	REG	10/18/2012	2-Butanone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0854	REG	10/18/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0855	REG	10/16/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0856	FD	10/16/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0857	REG	10/16/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0858	REG	11/5/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0858	REG	11/5/2012	1,2-Dichloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0858	REG	11/5/2012	2-Chlorotoluene	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0859	REG	11/5/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0859	REG	11/5/2012	1,2-Dichloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0859	REG	11/5/2012	2-Chlorotoluene	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW0860	REG	11/14/2012	Acetone	KIRTLAND_072	ND	2.5	10	1	ug/L	UJ
GW0861	REG	10/15/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0862	REG	10/15/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0863	REG	10/15/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0864	REG	10/17/2012	2-Butanone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0864	REG	10/17/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0865	REG	10/17/2012	2-Butanone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0865	REG	10/17/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0866	FD	10/17/2012	2-Butanone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0866	FD	10/17/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0867	REG	10/17/2012	2-Butanone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0867	REG	10/17/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW0869	REG	10/10/2012	1,1,1-Trichloroethane	KIRTLAND_065	ND	0.25	1	1	ug/L	UJ
GW0870	REG	10/10/2012	1,1,1-Trichloroethane	KIRTLAND_065	ND	0.25	1	1	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code C</b>		<b>Method SW8260B</b>								
GW0871	REG	11/14/2012	Acetone	KIRTLAND_071	ND	2.5	10	1	ug/L	UJ
GW0872	REG	11/19/2012	Bromomethane	KIRTLAND_071	ND	0.5	2	1	ug/L	UJ
GW0873	REG	11/13/2012	Naphthalene	KIRTLAND_071	ND	0.25	2	1	ug/L	UJ
GW0874	FD	11/13/2012	Naphthalene	KIRTLAND_071	ND	0.25	2	1	ug/L	UJ
GW0875	REG	11/13/2012	Naphthalene	KIRTLAND_071	ND	0.25	2	1	ug/L	UJ
<b>Reason Code C</b>		<b>Method SW8270D</b>								
GW0759	REG	10/22/2012	Benzoic acid	KIRTLAND_067	ND	12.5	100	1	ug/L	UJ
GW0760	FD	10/22/2012	Benzoic acid	KIRTLAND_067	ND	12.3	98	1	ug/L	UJ
GW0766	REG	10/22/2012	Benzoic acid	KIRTLAND_067	ND	11.8	94.3	1	ug/L	UJ
GW0779	REG	10/23/2012	Benzoic acid	KIRTLAND_067	ND	12.5	100	1	ug/L	UJ
GW0781	REG	10/23/2012	Benzoic acid	KIRTLAND_067	ND	12	96.2	1	ug/L	UJ
GW0805	REG	10/25/2012	Benzoic acid	KIRTLAND_067	ND	12.3	98	1	ug/L	UJ
GW0806	REG	10/25/2012	Benzoic acid	KIRTLAND_067	ND	11.8	94.3	1	ug/L	UJ
GW0807	REG	10/25/2012	Benzoic acid	KIRTLAND_067	ND	12.3	98	1	ug/L	UJ
GW0815	REG	10/22/2012	Benzoic acid	KIRTLAND_067	ND	13.2	105	1	ug/L	UJ
GW0816	REG	10/22/2012	Benzoic acid	KIRTLAND_067	ND	12.5	100	1	ug/L	UJ
GW0817	REG	10/22/2012	Benzoic acid	KIRTLAND_067	ND	12.5	100	1	ug/L	UJ
GW0822	REG	10/23/2012	Benzoic acid	KIRTLAND_067	ND	13.9	111	1	ug/L	UJ
GW0823	FD	10/23/2012	Benzoic acid	KIRTLAND_067	ND	13.9	111	1	ug/L	UJ
GW0825	REG	10/15/2012	Benzoic acid	KIRTLAND_066	ND	11.6	92.6	1	ug/L	UJ
GW0826	REG	10/15/2012	Benzoic acid	KIRTLAND_066	ND	11.8	94.3	1	ug/L	UJ
GW0827	REG	10/15/2012	Benzoic acid	KIRTLAND_066	ND	12.3	98	1	ug/L	UJ
GW0834	REG	10/25/2012	Benzoic acid	KIRTLAND_067	ND	139	1110	10	ug/L	UJ
GW0835	REG	10/25/2012	Benzoic acid	KIRTLAND_067	ND	125	1000	10	ug/L	UJ
GW0836	FD	10/25/2012	Benzoic acid	KIRTLAND_067	ND	125	1000	10	ug/L	UJ
GW0837	REG	10/25/2012	Benzoic acid	KIRTLAND_067	ND	12.5	100	1	ug/L	UJ
GW0855	REG	10/16/2012	Benzoic acid	KIRTLAND_066	ND	12.5	100	1	ug/L	UJ
GW0856	FD	10/16/2012	Benzoic acid	KIRTLAND_066	ND	13.9	111	1	ug/L	UJ
GW0857	REG	10/16/2012	Benzoic acid	KIRTLAND_066	ND	15.6	125	1	ug/L	UJ
GW0861	REG	10/15/2012	Benzoic acid	KIRTLAND_066	ND	15.6	125	1	ug/L	UJ
GW0862	REG	10/15/2012	Benzoic acid	KIRTLAND_066	ND	12.5	100	1	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code C</b>		<b>Method SW8270D</b>								
GW0863	REG	10/15/2012	Benzoic acid	KIRTLAND_066	ND	15.6	125	1	ug/L	UJ
<b>Reason Code CL</b>		<b>Method SW8260B</b>								
GW0806	REG	10/25/2012	2-Chlorotoluene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0807	REG	10/25/2012	2-Chlorotoluene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0819	REG	10/24/2012	2-Chlorotoluene	KIRTLAND_067	ND	1.25	5	5	ug/L	UJ
GW0820	REG	10/24/2012	2-Chlorotoluene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0837	REG	10/25/2012	2-Chlorotoluene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0841	REG	10/24/2012	2-Chlorotoluene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0842	REG	10/24/2012	2-Chlorotoluene	KIRTLAND_067	ND	1.25	5	5	ug/L	UJ
GW0843	REG	10/24/2012	2-Chlorotoluene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
<b>Reason Code CS</b>		<b>Method SW8270D</b>								
GW0780	REG	10/23/2012	Benzoic acid	KIRTLAND_067	ND	13.2	105	1	ug/L	UJ
GW0821	REG	10/23/2012	Benzoic acid	KIRTLAND_067	ND	13.9	111	1	ug/L	UJ
GW0824	REG	10/23/2012	Benzoic acid	KIRTLAND_067	ND	12.5	100	1	ug/L	UJ
<b>Reason Code CTr</b>		<b>Method SW8260B</b>								
GW0768	REG	10/11/2012	Dichlorodifluoromethane	KIRTLAND_065	0.67	0.5	2	1	ug/L	J+
GW0818	REG	10/24/2012	Acetone	KIRTLAND_067	461	250	1000	100	ug/L	J-
GW0841	REG	10/24/2012	Acetone	KIRTLAND_067	4.19	2.5	10	1	ug/L	J-
GW0842	REG	10/24/2012	Acetone	KIRTLAND_067	26.2	12.5	50	5	ug/L	J-
GW0849	REG	10/29/2012	Acetone	KIRTLAND_069	12.6	12.5	50	5	ug/L	J-
<b>Reason Code D</b>		<b>Method SW8011</b>								
GW0773	REG	11/6/2012	1,2-Dibromoethane	KIRTLAND_070	0.0552	0.00946	0.0284	1	ug/L	J
GW0821	REG	10/23/2012	1,2-Dibromoethane	KIRTLAND_067	0.383	0.00947	0.0284	1	ug/L	J
GW0835	REG	10/25/2012	1,2-Dibromoethane	KIRTLAND_067	0.156	0.00945	0.0283	1	ug/L	J
GW0836	FD	10/25/2012	1,2-Dibromoethane	KIRTLAND_067	0.135	0.0094	0.0282	1	ug/L	J
<b>Reason Code DTr</b>		<b>Method SW8011</b>								
GW0816	REG	10/22/2012	1,2-Dibromoethane	KIRTLAND_067	0.0175	0.00945	0.0284	1	ug/L	J
GW0841	REG	10/24/2012	1,2-Dibromoethane	KIRTLAND_067	0.0226	0.00946	0.0284	1	ug/L	J
GW0868	REG	10/11/2012	1,2-Dibromoethane	KIRTLAND_065	0.014	0.00933	0.028	1	ug/L	J
<b>Reason Code H</b>		<b>Method SM4500S2CF</b>								
GW0870	REG	10/10/2012	Sulfide	KIRTLAND_065	ND	0.678	3.39	1	mg/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code H</b>		<b>Method SW8015B</b>								
GW0825	REG	10/15/2012	Diesel Range Organics (C10-C28)	KIRTLAND_066	0.621	0.1	0.4	1	mg/L	J-
<b>Reason Code L</b>		<b>Method SW8260B</b>								
GW0818	REG	10/24/2012	2-Chlorotoluene	KIRTLAND_067	ND	25	100	100	ug/L	UJ
GW0834	REG	10/25/2012	2-Chlorotoluene	KIRTLAND_067	ND	50	200	200	ug/L	UJ
GW0835	REG	10/25/2012	2-Chlorotoluene	KIRTLAND_067	ND	5	20	20	ug/L	UJ
GW0837	REG	10/25/2012	2,2-Dichloropropane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0841	REG	10/24/2012	2,2-Dichloropropane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW0842	REG	10/24/2012	2,2-Dichloropropane	KIRTLAND_067	ND	1.25	5	5	ug/L	UJ
GW0843	REG	10/24/2012	2,2-Dichloropropane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
<b>Reason Code L</b>		<b>Method SW8270D</b>								
GW0774	REG	10/18/2012	2,4,5-Trichlorophenol	KIRTLAND_066	ND	1.16	4.63	1	ug/L	UJ
GW0774	REG	10/18/2012	2,4,6-Trichlorophenol	KIRTLAND_066	ND	1.16	4.63	1	ug/L	UJ
GW0774	REG	10/18/2012	2,4-Dichlorophenol	KIRTLAND_066	ND	1.16	4.63	1	ug/L	UJ
GW0774	REG	10/18/2012	Pentachlorophenol	KIRTLAND_066	ND	4.63	18.5	1	ug/L	UJ
GW0789	REG	10/18/2012	2,4,5-Trichlorophenol	KIRTLAND_066	ND	1.25	5	1	ug/L	UJ
GW0789	REG	10/18/2012	2,4,6-Trichlorophenol	KIRTLAND_066	ND	1.25	5	1	ug/L	UJ
GW0789	REG	10/18/2012	2,4-Dichlorophenol	KIRTLAND_066	ND	1.25	5	1	ug/L	UJ
GW0789	REG	10/18/2012	Pentachlorophenol	KIRTLAND_066	ND	5	20	1	ug/L	UJ
GW0790	REG	10/18/2012	2,4,5-Trichlorophenol	KIRTLAND_066	ND	1.39	5.56	1	ug/L	UJ
GW0790	REG	10/18/2012	2,4,6-Trichlorophenol	KIRTLAND_066	ND	1.39	5.56	1	ug/L	UJ
GW0790	REG	10/18/2012	2,4-Dichlorophenol	KIRTLAND_066	ND	1.39	5.56	1	ug/L	UJ
GW0790	REG	10/18/2012	Pentachlorophenol	KIRTLAND_066	ND	5.56	22.2	1	ug/L	UJ
GW0791	REG	10/18/2012	2,4,5-Trichlorophenol	KIRTLAND_066	ND	1.25	5	1	ug/L	UJ
GW0791	REG	10/18/2012	2,4,6-Trichlorophenol	KIRTLAND_066	ND	1.25	5	1	ug/L	UJ
GW0791	REG	10/18/2012	2,4-Dichlorophenol	KIRTLAND_066	ND	1.25	5	1	ug/L	UJ
GW0791	REG	10/18/2012	Pentachlorophenol	KIRTLAND_066	ND	5	20	1	ug/L	UJ
<b>Reason Code LTr</b>		<b>Method E353.2</b>								
GW0766	REG	10/22/2012	Nitrate/Nitrite as N	KIRTLAND_067	0.321	0.25	1.5	1	mg/L	J+
<b>Reason Code M</b>		<b>Method SW8011</b>								
GW0849	REG	10/29/2012	1,2-Dibromoethane	KIRTLAND_069	0.234	0.00946	0.0284	1	ug/L	J-

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code M Method SW8260B</b>										
GW0793	REG	10/10/2012	1,1-Dichloropropene	KIRTLAND_065	ND	0.25	1	1	ug/L	UJ
GW0793	REG	10/10/2012	1,3-Dichlorobenzene	KIRTLAND_065	ND	0.25	1	1	ug/L	UJ
GW0793	REG	10/10/2012	2,2-Dichloropropane	KIRTLAND_065	ND	0.25	1	1	ug/L	UJ
GW0793	REG	10/10/2012	Isopropylbenzene	KIRTLAND_065	ND	0.25	1	1	ug/L	UJ
GW0793	REG	10/10/2012	p-Isopropyltoluene	KIRTLAND_065	ND	0.25	1	1	ug/L	UJ
GW0793	REG	10/10/2012	Trichlorofluoromethane	KIRTLAND_065	ND	0.5	2	1	ug/L	UJ
GW0832	REG	11/1/2012	2,2-Dichloropropane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW0869	REG	10/10/2012	2,2-Dichloropropane	KIRTLAND_065	ND	0.25	1	1	ug/L	UJ
<b>Reason Code M Method SW8270D</b>										
GW0754	REG	10/16/2012	2,4,5-Trichlorophenol	KIRTLAND_066	ND	1.39	5.56	1	ug/L	UJ
GW0754	REG	10/16/2012	2,4,6-Trichlorophenol	KIRTLAND_066	ND	1.39	5.56	1	ug/L	UJ
GW0754	REG	10/16/2012	4,6-Dinitro-2-methylphenol	KIRTLAND_066	ND	5.56	22.2	1	ug/L	UJ
GW0754	REG	10/16/2012	Pentachlorophenol	KIRTLAND_066	ND	5.56	22.2	1	ug/L	UJ
<b>Reason Code S Method SW8011</b>										
GW0759	REG	10/22/2012	1,2-Dibromoethane	KIRTLAND_067	27.6	0.47	1.41	50	ug/L	J+
GW0760	FD	10/22/2012	1,2-Dibromoethane	KIRTLAND_067	28.9	0.477	1.43	50	ug/L	J+
GW0808	REG	10/16/2012	1,2-Dibromoethane	KIRTLAND_066	2.52	0.0465	0.139	5	ug/L	J+
GW0817	REG	10/22/2012	1,2-Dibromoethane	KIRTLAND_067	92.5	0.934	2.8	100	ug/L	J+
GW0818	REG	10/24/2012	1,2-Dibromoethane	KIRTLAND_067	92.9	0.934	2.8	100	ug/L	J+
GW0834	REG	10/25/2012	1,2-Dibromoethane	KIRTLAND_067	5.98	0.0951	0.285	10	ug/L	J+
GW0851	REG	10/4/2012	1,2-Dibromoethane	KIRTLAND_064	5.95	0.095	0.285	10	ug/L	J+
<b>Reason Code S Method SW8015B</b>										
GW0756	REG	11/12/2012	Diesel Range Organics (C10-C28)	KIRTLAND_072	22.6	4.9	19.6	50	mg/L	J+
GW0762	REG	11/1/2012	Diesel Range Organics (C10-C28)	KIRTLAND_069	74.3	9.62	38.5	100	mg/L	J+
<b>Reason Code S Method SW8270D</b>										
GW0780	REG	10/23/2012	2,4,5-Trichlorophenol	KIRTLAND_067	ND	1.32	5.26	1	ug/L	UJ
GW0780	REG	10/23/2012	2,4,6-Trichlorophenol	KIRTLAND_067	ND	1.32	5.26	1	ug/L	UJ
GW0780	REG	10/23/2012	2,4-Dichlorophenol	KIRTLAND_067	ND	1.32	5.26	1	ug/L	UJ
GW0780	REG	10/23/2012	2,4-Dimethylphenol	KIRTLAND_067	ND	5.26	21.1	1	ug/L	UJ
GW0780	REG	10/23/2012	2,4-Dinitrophenol	KIRTLAND_067	ND	8.77	52.6	1	ug/L	UJ
GW0780	REG	10/23/2012	2-Chlorophenol	KIRTLAND_067	ND	1.32	5.26	1	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code S</b>	<b>Method SW8270D</b>									
GW0780	REG	10/23/2012	2-Methylphenol	KIRTLAND_067	ND	1.32	5.26	1	ug/L	UJ
GW0780	REG	10/23/2012	2-Nitrophenol	KIRTLAND_067	ND	1.32	5.26	1	ug/L	UJ
GW0780	REG	10/23/2012	3-Methylphenol and 4-methylphenol	KIRTLAND_067	ND	1.32	5.26	1	ug/L	UJ
GW0780	REG	10/23/2012	4,6-Dinitro-2-methylphenol	KIRTLAND_067	ND	5.26	21.1	1	ug/L	UJ
GW0780	REG	10/23/2012	4-Chloro-3-methylphenol	KIRTLAND_067	ND	1.32	5.26	1	ug/L	UJ
GW0780	REG	10/23/2012	4-Nitrophenol	KIRTLAND_067	ND	5.26	21.1	1	ug/L	UJ
GW0780	REG	10/23/2012	Pentachlorophenol	KIRTLAND_067	ND	5.26	21.1	1	ug/L	UJ
GW0780	REG	10/23/2012	Phenol	KIRTLAND_067	ND	1.32	5.26	1	ug/L	UJ
GW0809	REG	10/16/2012	2,4,5-Trichlorophenol	KIRTLAND_066	ND	1.2	4.81	1	ug/L	UJ
GW0809	REG	10/16/2012	2,4,6-Trichlorophenol	KIRTLAND_066	ND	1.2	4.81	1	ug/L	UJ
GW0809	REG	10/16/2012	2,4-Dichlorophenol	KIRTLAND_066	ND	1.2	4.81	1	ug/L	UJ
GW0809	REG	10/16/2012	2,4-Dimethylphenol	KIRTLAND_066	ND	4.81	19.2	1	ug/L	UJ
GW0809	REG	10/16/2012	2,4-Dinitrophenol	KIRTLAND_066	ND	8.01	48.1	1	ug/L	UJ
GW0809	REG	10/16/2012	2-Chlorophenol	KIRTLAND_066	ND	1.2	4.81	1	ug/L	UJ
GW0809	REG	10/16/2012	2-Methylphenol	KIRTLAND_066	ND	1.2	4.81	1	ug/L	UJ
GW0809	REG	10/16/2012	2-Nitrophenol	KIRTLAND_066	ND	1.2	4.81	1	ug/L	UJ
GW0809	REG	10/16/2012	3-Methylphenol and 4-methylphenol	KIRTLAND_066	ND	1.2	4.81	1	ug/L	UJ
GW0809	REG	10/16/2012	4,6-Dinitro-2-methylphenol	KIRTLAND_066	ND	4.81	19.2	1	ug/L	UJ
GW0809	REG	10/16/2012	4-Chloro-3-methylphenol	KIRTLAND_066	ND	1.2	4.81	1	ug/L	UJ
GW0809	REG	10/16/2012	4-Nitrophenol	KIRTLAND_066	ND	4.81	19.2	1	ug/L	UJ
GW0809	REG	10/16/2012	Benzoic acid	KIRTLAND_066	ND	12	96.2	1	ug/L	UJ
GW0809	REG	10/16/2012	Pentachlorophenol	KIRTLAND_066	ND	4.81	19.2	1	ug/L	UJ
GW0809	REG	10/16/2012	Phenol	KIRTLAND_066	ND	1.2	4.81	1	ug/L	UJ
GW0821	REG	10/23/2012	1,1-Biphenyl	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	1,2-Diphenylhydrazine	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	1-Methylnaphthalene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	2,2'-Oxybis-1-chloropropane	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	2,4,5-Trichlorophenol	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	2,4,6-Trichlorophenol	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	2,4-Dichlorophenol	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code S</b>	<b>Method SW8270D</b>									
GW0821	REG	10/23/2012	2,4-Dimethylphenol	KIRTLAND_067	ND	5.56	22.2	1	ug/L	UJ
GW0821	REG	10/23/2012	2,4-Dinitrophenol	KIRTLAND_067	ND	9.26	55.6	1	ug/L	UJ
GW0821	REG	10/23/2012	2,4-Dinitrotoluene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	2,6-Dinitrotoluene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	2-Chloronaphthalene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	2-Chlorophenol	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	2-Methylnaphthalene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	2-Methylphenol	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	2-Nitroaniline	KIRTLAND_067	ND	5.56	22.2	1	ug/L	UJ
GW0821	REG	10/23/2012	2-Nitrophenol	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	3,3'-Dichlorobenzidine	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	3-Methylphenol and 4-methylphenol	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	3-Nitroaniline	KIRTLAND_067	ND	5.56	22.2	1	ug/L	UJ
GW0821	REG	10/23/2012	4,6-Dinitro-2-methylphenol	KIRTLAND_067	ND	5.56	22.2	1	ug/L	UJ
GW0821	REG	10/23/2012	4-Bromophenyl-phenylether	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	4-Chloro-3-methylphenol	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	4-Chloroaniline	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	4-Chlorophenyl phenyl ether	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	4-Nitroaniline	KIRTLAND_067	ND	5.56	22.2	1	ug/L	UJ
GW0821	REG	10/23/2012	4-Nitrophenol	KIRTLAND_067	ND	5.56	22.2	1	ug/L	UJ
GW0821	REG	10/23/2012	Acenaphthene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Acenaphthylene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Anthracene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Atrazine	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Benzaldehyde	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Benzidine	KIRTLAND_067	ND	13.9	111	1	ug/L	UJ
GW0821	REG	10/23/2012	Benzo(a)anthracene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Benzo(a)pyrene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Benzo(b)fluoranthene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Benzo(g,h,i)perylene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code S</b>	<b>Method SW8270D</b>									
GW0821	REG	10/23/2012	Benzo(k)fluoranthene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Bis(2-chloroethoxy)methane	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Bis(2-chloroethyl)ether	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Bis(2-ethylhexyl)phthalate	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Butylbenzylphthalate	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Caprolactam	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Carbazole	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Chrysene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Dibenz(a,h)anthracene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Dibenzofuran	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Diethylphthalate	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Dimethyl phthalate	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Di-n-butylphthalate	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Di-n-octylphthalate	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Fluoranthene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Fluorene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Hexachlorobenzene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Hexachlorobutadiene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Hexachlorocyclopentadiene	KIRTLAND_067	ND	1.39	11.1	1	ug/L	UJ
GW0821	REG	10/23/2012	Hexachloroethane	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Indeno(1,2,3-cd)pyrene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Isophorone	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Nitrobenzene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	N-Nitroso-di-n-propylamine	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	N-Nitrosodiphenylamine	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Pentachlorophenol	KIRTLAND_067	ND	5.56	22.2	1	ug/L	UJ
GW0821	REG	10/23/2012	Phenanthrene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Phenol	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0821	REG	10/23/2012	Pyrene	KIRTLAND_067	ND	1.39	5.56	1	ug/L	UJ
GW0824	REG	10/23/2012	2,4,5-Trichlorophenol	KIRTLAND_067	ND	1.25	5	1	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code S Method SW8270D</b>										
GW0824	REG	10/23/2012	2,4,6-Trichlorophenol	KIRTLAND_067	ND	1.25	5	1	ug/L	UJ
GW0824	REG	10/23/2012	2,4-Dichlorophenol	KIRTLAND_067	ND	1.25	5	1	ug/L	UJ
GW0824	REG	10/23/2012	2,4-Dimethylphenol	KIRTLAND_067	ND	5	20	1	ug/L	UJ
GW0824	REG	10/23/2012	2,4-Dinitrophenol	KIRTLAND_067	ND	8.33	50	1	ug/L	UJ
GW0824	REG	10/23/2012	2-Chlorophenol	KIRTLAND_067	ND	1.25	5	1	ug/L	UJ
GW0824	REG	10/23/2012	2-Methylphenol	KIRTLAND_067	ND	1.25	5	1	ug/L	UJ
GW0824	REG	10/23/2012	2-Nitrophenol	KIRTLAND_067	ND	1.25	5	1	ug/L	UJ
GW0824	REG	10/23/2012	3-Methylphenol and 4-methylphenol	KIRTLAND_067	ND	1.25	5	1	ug/L	UJ
GW0824	REG	10/23/2012	4,6-Dinitro-2-methylphenol	KIRTLAND_067	ND	5	20	1	ug/L	UJ
GW0824	REG	10/23/2012	4-Chloro-3-methylphenol	KIRTLAND_067	ND	1.25	5	1	ug/L	UJ
GW0824	REG	10/23/2012	4-Nitrophenol	KIRTLAND_067	ND	5	20	1	ug/L	UJ
GW0824	REG	10/23/2012	Pentachlorophenol	KIRTLAND_067	ND	5	20	1	ug/L	UJ
GW0824	REG	10/23/2012	Phenol	KIRTLAND_067	ND	1.25	5	1	ug/L	UJ
<b>Reason Code STR Method SW8270D</b>										
GW0821	REG	10/23/2012	Acetophenone	KIRTLAND_067	1.8	1.39	5.56	1	ug/L	J-
GW0821	REG	10/23/2012	Naphthalene	KIRTLAND_067	3.02	1.39	5.56	1	ug/L	J-
<b>Field QC Samples</b>										
<b>Reason Code C Method SW8260B</b>										
GW8060-AB	AB	10/31/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW8060-AB	AB	10/31/2012	2-Chlorotoluene	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW8060-AB	AB	10/31/2012	Acetone	KIRTLAND_069	ND	2.5	10	1	ug/L	UJ
GW8060-AB	AB	10/31/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW8060-RB	ER	10/22/2012	Bromomethane	KIRTLAND_067	ND	0.5	2	1	ug/L	UJ
GW8061-AB	AB	10/31/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW8061-AB	AB	10/31/2012	2-Chlorotoluene	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW8061-AB	AB	10/31/2012	Acetone	KIRTLAND_069	ND	2.5	10	1	ug/L	UJ
GW8061-AB	AB	10/31/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW8062-AB	AB	11/8/2012	Bromomethane	KIRTLAND_070	ND	0.5	2	1	ug/L	UJ
GW8063-AB	AB	11/13/2012	Bromomethane	KIRTLAND_072	ND	0.5	2	1	ug/L	UJ
GW8064-AB	AB	11/13/2012	Bromomethane	KIRTLAND_072	ND	0.5	2	1	ug/L	UJ
GW8066-AB	AB	11/19/2012	Bromomethane	KIRTLAND_071	ND	0.5	2	1	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Field QC Samples</b>										
<b>Reason Code C</b>		<b>Method SW8260B</b>								
GW8230-TB	TB	10/3/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_064	ND	0.25	1	1	ug/L	UJ
GW8232-TB	TB	10/10/2012	1,1,1-Trichloroethane	KIRTLAND_065	ND	0.25	1	1	ug/L	UJ
GW8233-TB	TB	10/15/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW8234-TB	TB	10/17/2012	2-Butanone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW8234-TB	TB	10/17/2012	Acetone	KIRTLAND_066	ND	2.5	10	1	ug/L	UJ
GW8235-TB	TB	10/22/2012	Bromomethane	KIRTLAND_067	ND	0.5	2	1	ug/L	UJ
GW8236-TB	TB	10/24/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW8236-TB	TB	10/24/2012	Acetone	KIRTLAND_067	ND	2.5	10	1	ug/L	UJ
GW8236-TB	TB	10/24/2012	Bromobenzene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW8239-TB	TB	10/31/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW8239-TB	TB	10/31/2012	2-Chlorotoluene	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW8239-TB	TB	10/31/2012	Acetone	KIRTLAND_069	ND	2.5	10	1	ug/L	UJ
GW8239-TB	TB	10/31/2012	Bromomethane	KIRTLAND_069	ND	0.5	2	1	ug/L	UJ
GW8240-TB	TB	11/5/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW8240-TB	TB	11/5/2012	1,2-Dichloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW8240-TB	TB	11/5/2012	2-Chlorotoluene	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW8241-TB	TB	11/7/2012	1,1,2,2-Tetrachloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW8241-TB	TB	11/7/2012	1,2-Dichloroethane	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW8241-TB	TB	11/7/2012	2-Chlorotoluene	KIRTLAND_070	ND	0.25	1	1	ug/L	UJ
GW8242-TB	TB	11/8/2012	Bromomethane	KIRTLAND_070	ND	0.5	2	1	ug/L	UJ
GW8243-TB	TB	11/12/2012	Bromomethane	KIRTLAND_072	ND	0.5	2	1	ug/L	UJ
GW8245-TB	TB	11/19/2012	Bromomethane	KIRTLAND_071	ND	0.5	2	1	ug/L	UJ
<b>Reason Code C</b>		<b>Method SW8270D</b>								
GW8060-RB	ER	10/22/2012	Benzoic acid	KIRTLAND_067	ND	12	96.2	1	ug/L	UJ
<b>Reason Code CL</b>		<b>Method SW8260B</b>								
GW8060-AB	AB	10/31/2012	2,2-Dichloropropane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW8061-AB	AB	10/31/2012	2,2-Dichloropropane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
GW8236-TB	TB	10/24/2012	2-Chlorotoluene	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ
GW8239-TB	TB	10/31/2012	2,2-Dichloropropane	KIRTLAND_069	ND	0.25	1	1	ug/L	UJ
<b>Reason Code L</b>		<b>Method SW8260B</b>								
GW8236-TB	TB	10/24/2012	2,2-Dichloropropane	KIRTLAND_067	ND	0.25	1	1	ug/L	UJ

**Appendix B1 - Table 3**  
**Qualified Data Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

---

Notes: See Appendix B - Table 2 for definitions of Qualifiers and Reason Codes.

AB	Ambient Blank
DL	Detection Limit
ER	Equipment rinse blank
FD	Field Duplicate sample
LOQ	Limit of Quantitation
mg/L	milligrams per liter
ND	Not Detected at the LOQ
REG	Normal sample sent to the lab
SDG	Sample Delivery Group
TB	Trip Blank
µg/L	micrograms per liter

**Appendix B1 - Table 4**  
**Detected Equipment Blank Results and Associated Sample Results**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>GW8060-RB</b>	<b>ER</b>	<b>10/22/2012</b>	<b>SW6010B</b>	<b>Sodium</b>	<b>1100</b>	<b>1000</b>	<b>5000</b>	<b>ug/L</b>	<b>J</b>	<b>Tr</b>
GW0759	REG	10/22/2012	SW6010B	Sodium	28000	1000	5000	ug/L		
GW0760	FD	10/22/2012	SW6010B	Sodium	27500	1000	5000	ug/L		
GW0766	REG	10/22/2012	SW6010B	Sodium	20700	1000	5000	ug/L		
<b>GW8060-RB</b>	<b>ER</b>	<b>10/22/2012</b>	<b>SW8260B</b>	<b>Acetone</b>	<b>5.13</b>	<b>2.5</b>	<b>10</b>	<b>ug/L</b>	<b>J</b>	<b>Tr</b>
GW0759	REG	10/22/2012	SW8260B	Acetone	82.1	25	100	ug/L	J	Tr
GW0760	FD	10/22/2012	SW8260B	Acetone	102	25	100	ug/L		
GW0766	REG	10/22/2012	SW8260B	Acetone	ND	2.5	10	ug/L		
<b>GW8060-RB</b>	<b>ER</b>	<b>10/22/2012</b>	<b>SW8260B</b>	<b>Chloroform</b>	<b>10.3</b>	<b>0.25</b>	<b>1</b>	<b>ug/L</b>		
GW0759	REG	10/22/2012	SW8260B	Chloroform	ND	2.5	10	ug/L		
GW0760	FD	10/22/2012	SW8260B	Chloroform	ND	2.5	10	ug/L		
GW0766	REG	10/22/2012	SW8260B	Chloroform	ND	0.25	1	ug/L		
<b>GW8060-RB</b>	<b>ER</b>	<b>10/22/2012</b>	<b>SW8270D</b>	<b>Bis(2-ethylhexyl)phthalate</b>	<b>1.88</b>	<b>1.2</b>	<b>4.81</b>	<b>ug/L</b>	<b>J</b>	<b>Tr</b>
GW0759	REG	10/22/2012	SW8270D	Bis(2-ethylhexyl)phthalate	ND	1.25	5	ug/L		
GW0760	FD	10/22/2012	SW8270D	Bis(2-ethylhexyl)phthalate	ND	1.23	4.9	ug/L		
GW0766	REG	10/22/2012	SW8270D	Bis(2-ethylhexyl)phthalate	ND	1.18	4.72	ug/L		

Notes: See Appendix B - Table 2 for definitions of Qualifiers and Reason Codes.

DL Detection Limit  
ER Equipment rinse blank  
FD Field duplicate  
LOQ Limit of Quantitation  
ND Not Detected at the LOQ  
REG Normal sample sent to the lab  
µg/L micrograms per liter

**THIS PAGE INTENTIONALLY LEFT BLANK**

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106008</b>									
E300.0	Chloride	10/22/2012	12.4	1	12.3	1	mg/L	0.8	Yes
	Sulfate as SO4		13.8	2.5	14	2.5	mg/L	1.4	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		181	1	178	1	mg/L	1.7	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.45	1.1 J	3.45	mg/L	--	--
SW6010B	Calcium		57300	5000	56700	5000	ug/L	1.1	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		8950	5000	8720	5000	ug/L	2.6	Yes
	Potassium		2440 J	5000	2390 J	5000	ug/L	--	--
	Sodium		28000	5000	27500	5000	ug/L	1.8	Yes
SW6010B-DISS	Iron		200	100	221	100	ug/L	10	Yes
	Manganese		1610	15	1670	15	ug/L	3.7	Yes
SW8011	1,2-Dibromoethane		27.6 J+	1.41	28.9 J+	1.43	ug/L	4.6	Yes
SW8015B	Diesel Range Organics (C10-C28)		16.4	1.87	19.7	1.96	mg/L	18.3	Yes
	Gasoline Range Organics (C6-C10)		7.37	0.75	6.8	0.75	mg/L	8	Yes
SW8260B	1,1,1,2-Tetrachloroethane		ND	10	ND	10	ug/L	--	--
	1,1,1-Trichloroethane		ND	10	ND	10	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	10	ND	10	ug/L	--	--
	1,1,2-Trichloroethane		ND	10	ND	10	ug/L	--	--
	1,1-Dichloroethane		ND	10	ND	10	ug/L	--	--
	1,1-Dichloroethene		ND	10	ND	10	ug/L	--	--
	1,1-Dichloropropene		ND	10	ND	10	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	20	ND	20	ug/L	--	--
	1,2,3-Trichloropropane		ND	20	ND	20	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	20	ND	20	ug/L	--	--
	1,2,4-Trimethylbenzene		24.7	10	25.2	10	ug/L	2	Yes
	1,2-Dibromo-3-chloropropane		ND	20	ND	20	ug/L	--	--
	1,2-Dibromoethane (EDB)		22.5	10	25.6	10	ug/L	12.9	Yes
	1,2-Dichlorobenzene		ND	10	ND	10	ug/L	--	--
	1,2-Dichloroethane		ND	10	ND	10	ug/L	--	--
	1,2-Dichloropropane		ND	10	ND	10	ug/L	--	--
	1,3,5-Trimethylbenzene		10	10	10	10	ug/L	0	Yes
	1,3-Dichlorobenzene		ND	10	ND	10	ug/L	--	--
	1,3-Dichloropropane		ND	10	ND	10	ug/L	--	--
	1,4-Dichlorobenzene		ND	10	ND	10	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106008</b>									
SW8260B	2,2-Dichloropropane	10/22/2012	ND	10	ND	10	ug/L	--	--
	2-Butanone		29 J	100	35.8 J	100	ug/L	--	--
	2-Chlorotoluene		ND	10	ND	10	ug/L	--	--
	2-Hexanone		61.1	50	71.4	50	ug/L	15.5	Yes
	4-Chlorotoluene		ND	10	ND	10	ug/L	--	--
	4-Methyl-2-pentanone		69.8	50	78.6	50	ug/L	11.9	Yes
	Acetone		82.1 J	100	102	100	ug/L	--	--
	Benzene		1540	10	1630	10	ug/L	5.7	Yes
	Bromobenzene		ND	10	ND	10	ug/L	--	--
	Bromochloromethane		ND	10	ND	10	ug/L	--	--
	Bromodichloromethane		ND	10	ND	10	ug/L	--	--
	Bromoform		ND	10	ND	10	ug/L	--	--
	Bromomethane		ND	20	ND	20	ug/L	--	--
	Carbon disulfide		ND	10	ND	10	ug/L	--	--
	Carbon tetrachloride		ND	10	ND	10	ug/L	--	--
	Chlorobenzene		ND	10	ND	10	ug/L	--	--
	Chloroethane		ND	20	ND	20	ug/L	--	--
	Chloroform		ND	10	ND	10	ug/L	--	--
	Chloromethane		ND	10	ND	10	ug/L	--	--
	cis-1,2-Dichloroethene		ND	10	ND	10	ug/L	--	--
	cis-1,3-Dichloropropene		ND	10	ND	10	ug/L	--	--
	Dibromochloromethane		ND	10	ND	10	ug/L	--	--
	Dibromomethane		ND	10	ND	10	ug/L	--	--
	Dichlorodifluoromethane		ND	20	ND	20	ug/L	--	--
	Ethylbenzene		134	10	134	10	ug/L	0	Yes
	Hexachlorobutadiene		ND	20	ND	20	ug/L	--	--
	Isopropylbenzene		17.5	10	17.8	10	ug/L	1.7	Yes
	Methyl t-Butyl Ether		ND	10	ND	10	ug/L	--	--
	Methylene chloride		ND	20	ND	20	ug/L	--	--
	Naphthalene		14.7 J	20	14.6 J	20	ug/L	--	--
	n-Butylbenzene		ND	10	ND	10	ug/L	--	--
	n-Propylbenzene		11.7	10	11.3	10	ug/L	3.5	Yes
	p-Isopropyltoluene		13.7	10	ND	10	ug/L	--	--
	sec-Butylbenzene		3 J	10	3.1 J	10	ug/L	--	--
	Styrene		ND	10	ND	10	ug/L	--	--
	tert-Butylbenzene		ND	10	ND	10	ug/L	--	--
	Tetrachloroethene		ND	10	ND	10	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106008</b>									
SW8260B	Toluene	10/22/2012	934	10	988	10	ug/L	5.6	Yes
	trans-1,2-Dichloroethene		ND	10	ND	10	ug/L	--	--
	trans-1,3-Dichloropropene		ND	10	ND	10	ug/L	--	--
	Trichloroethene		ND	10	ND	10	ug/L	--	--
	Trichlorofluoromethane		ND	20	ND	20	ug/L	--	--
	Vinyl chloride		ND	10	ND	10	ug/L	--	--
	Xylenes (total)		203	30	216	30	ug/L	6.2	Yes
SW8270D	1,1-Biphenyl		ND	5	ND	4.9	ug/L	--	--
	1,2-Diphenylhydrazine		ND	5	ND	4.9	ug/L	--	--
	1-Methylnaphthalene		ND	5	4.93	4.9	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	5	ND	4.9	ug/L	--	--
	2,4,5-Trichlorophenol		ND	5	ND	4.9	ug/L	--	--
	2,4,6-Trichlorophenol		ND	5	ND	4.9	ug/L	--	--
	2,4-Dichlorophenol		ND	5	ND	4.9	ug/L	--	--
	2,4-Dimethylphenol		ND	20	ND	19.6	ug/L	--	--
	2,4-Dinitrophenol		ND	50	ND	49	ug/L	--	--
	2,4-Dinitrotoluene		ND	5	ND	4.9	ug/L	--	--
	2,6-Dinitrotoluene		ND	5	ND	4.9	ug/L	--	--
	2-Chloronaphthalene		ND	5	ND	4.9	ug/L	--	--
	2-Chlorophenol		ND	5	ND	4.9	ug/L	--	--
	2-Methylnaphthalene		ND	5	4.87 J	4.9	ug/L	--	--
	2-Methylphenol		ND	5	ND	4.9	ug/L	--	--
	2-Nitroaniline		ND	20	ND	19.6	ug/L	--	--
	2-Nitrophenol		ND	5	ND	4.9	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	5	ND	4.9	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	5	ND	4.9	ug/L	--	--
	3-Nitroaniline		ND	20	ND	19.6	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	20	ND	19.6	ug/L	--	--
	4-Bromophenyl-phenylether		ND	5	ND	4.9	ug/L	--	--
	4-Chloro-3-methylphenol		ND	5	ND	4.9	ug/L	--	--
	4-Chloroaniline		ND	5	ND	4.9	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	5	ND	4.9	ug/L	--	--
	4-Nitroaniline		ND	20	ND	19.6	ug/L	--	--
	4-Nitrophenol		ND	20	ND	19.6	ug/L	--	--
	Acenaphthene		ND	5	ND	4.9	ug/L	--	--
	Acenaphthylene		ND	5	ND	4.9	ug/L	--	--
	Acetophenone		1400	100	1200	98	ug/L	15.4	Yes

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106008</b>									
SW8270D	Anthracene	10/22/2012	ND	5	ND	4.9	ug/L	--	--
	Atrazine		ND	5	ND	4.9	ug/L	--	--
	Benzaldehyde		ND	5	ND	4.9	ug/L	--	--
	Benzidine		ND	100	ND	98	ug/L	--	--
	Benzo(a)anthracene		ND	5	ND	4.9	ug/L	--	--
	Benzo(a)pyrene		ND	5	ND	4.9	ug/L	--	--
	Benzo(b)fluoranthene		ND	5	ND	4.9	ug/L	--	--
	Benzo(g,h,i)perylene		ND	5	ND	4.9	ug/L	--	--
	Benzo(k)fluoranthene		ND	5	ND	4.9	ug/L	--	--
	Benzoic acid		ND	100	ND	98	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	5	ND	4.9	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	5	ND	4.9	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	5	ND	4.9	ug/L	--	--
	Butylbenzylphthalate		ND	5	ND	4.9	ug/L	--	--
	Caprolactam		ND	5	ND	4.9	ug/L	--	--
	Carbazole		ND	5	ND	4.9	ug/L	--	--
	Chrysene		ND	5	ND	4.9	ug/L	--	--
	Dibenz(a,h)anthracene		ND	5	ND	4.9	ug/L	--	--
	Dibenzofuran		ND	5	ND	4.9	ug/L	--	--
	Diethylphthalate		ND	5	ND	4.9	ug/L	--	--
	Dimethyl phthalate		ND	5	ND	4.9	ug/L	--	--
	Di-n-butylphthalate		ND	5	ND	4.9	ug/L	--	--
	Di-n-octylphthalate		ND	5	ND	4.9	ug/L	--	--
	Fluoranthene		ND	5	ND	4.9	ug/L	--	--
	Fluorene		ND	5	ND	4.9	ug/L	--	--
	Hexachlorobenzene		ND	5	ND	4.9	ug/L	--	--
	Hexachlorobutadiene		ND	5	ND	4.9	ug/L	--	--
	Hexachlorocyclopentadiene		ND	10	ND	9.8	ug/L	--	--
	Hexachloroethane		ND	5	ND	4.9	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	5	ND	4.9	ug/L	--	--
	Isophorone		ND	5	ND	4.9	ug/L	--	--
	Naphthalene		7.97	5	8.41	4.9	ug/L	5.4	Yes
	Nitrobenzene		ND	5	ND	4.9	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	5	ND	4.9	ug/L	--	--
	N-Nitrosodiphenylamine		ND	5	ND	4.9	ug/L	--	--
	Pentachlorophenol		ND	20	ND	19.6	ug/L	--	--
	Phenanthrene		ND	5	ND	4.9	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106008</b>									
SW8270D	Phenol	10/22/2012	ND	5	ND	4.9	ug/L	--	--
	Pyrene		ND	5	ND	4.9	ug/L	--	--
<b>KAFB-106018</b>									
E300.0	Chloride	10/9/2012	13.9	0.5	13.8	0.5	mg/L	0.7	Yes
	Sulfate as SO4		33.9	2.5	33.9	2.5	mg/L	0	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		117	1	117	1	mg/L	0	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.39	ND	3.7	mg/L	--	--
SW6010B	Calcium		43600	5000	44100	5000	ug/L	1.1	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		6260	5000	6300	5000	ug/L	0.6	Yes
	Potassium		2450 J	5000	2460 J	5000	ug/L	--	--
	Sodium		25100	5000	25400	5000	ug/L	1.2	Yes
SW6010B-DISS	Iron		324	100	318	100	ug/L	1.9	Yes
	Manganese		797	15	788	15	ug/L	1.1	Yes
SW8011	1,2-Dibromoethane		0.263	0.0282	0.249	0.0284	ug/L	5.5	Yes
SW8015B	Diesel Range Organics (C10-C28)		1.24	0.396	1.55	0.4	mg/L	22.2	Yes
	Gasoline Range Organics (C6-C10)		0.244	0.15	0.307	0.15	mg/L	22.9	Yes
SW8260B	1,1,1,2-Tetrachloroethane		ND	5	ND	5	ug/L	--	--
	1,1,1-Trichloroethane		ND	5	ND	5	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	5	ND	5	ug/L	--	--
	1,1,2-Trichloroethane		ND	5	ND	5	ug/L	--	--
	1,1-Dichloroethane		ND	5	ND	5	ug/L	--	--
	1,1-Dichloroethene		ND	5	ND	5	ug/L	--	--
	1,1-Dichloropropene		ND	5	ND	5	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	10	ND	10	ug/L	--	--
	1,2,3-Trichloropropane		ND	10	ND	10	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	10	ND	10	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	5	ND	5	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	10	ND	10	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	5	ND	5	ug/L	--	--
	1,2-Dichlorobenzene		ND	5	ND	5	ug/L	--	--
	1,2-Dichloroethane		ND	5	ND	5	ug/L	--	--
	1,2-Dichloropropane		ND	5	ND	5	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	5	ND	5	ug/L	--	--
	1,3-Dichlorobenzene		ND	5	ND	5	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106018</b>									
SW8260B	1,3-Dichloropropane	10/9/2012	ND	5	ND	5	ug/L	--	--
	1,4-Dichlorobenzene		ND	5	ND	5	ug/L	--	--
	2,2-Dichloropropane		ND	5	ND	5	ug/L	--	--
	2-Butanone		ND	50	ND	50	ug/L	--	--
	2-Chlorotoluene		ND	5	ND	5	ug/L	--	--
	2-Hexanone		ND	25	ND	25	ug/L	--	--
	4-Chlorotoluene		ND	5	ND	5	ug/L	--	--
	4-Methyl-2-pentanone		ND	25	ND	25	ug/L	--	--
	Acetone		30.5 J	50	54.8	50	ug/L	--	--
	Benzene		ND	5	ND	5	ug/L	--	--
	Bromobenzene		ND	5	ND	5	ug/L	--	--
	Bromochloromethane		ND	5	ND	5	ug/L	--	--
	Bromodichloromethane		ND	5	ND	5	ug/L	--	--
	Bromoform		ND	5	ND	5	ug/L	--	--
	Bromomethane		ND	10	ND	10	ug/L	--	--
	Carbon disulfide		ND	5	ND	5	ug/L	--	--
	Carbon tetrachloride		ND	5	ND	5	ug/L	--	--
	Chlorobenzene		ND	5	ND	5	ug/L	--	--
	Chloroethane		ND	10	ND	10	ug/L	--	--
	Chloroform		ND	5	ND	5	ug/L	--	--
	Chloromethane		ND	5	ND	5	ug/L	--	--
	cis-1,2-Dichloroethene		ND	5	ND	5	ug/L	--	--
	cis-1,3-Dichloropropene		ND	5	ND	5	ug/L	--	--
	Dibromochloromethane		ND	5	ND	5	ug/L	--	--
	Dibromomethane		ND	5	ND	5	ug/L	--	--
	Dichlorodifluoromethane		ND	10	ND	10	ug/L	--	--
	Ethylbenzene		ND	5	ND	5	ug/L	--	--
	Hexachlorobutadiene		ND	10	ND	10	ug/L	--	--
	Isopropylbenzene		4.3 J	5	4.3 J	5	ug/L	--	--
	Methyl t-Butyl Ether		ND	5	ND	5	ug/L	--	--
	Methylene chloride		ND	10	ND	10	ug/L	--	--
	Naphthalene		ND	10	ND	10	ug/L	--	--
	n-Butylbenzene		ND	5	ND	5	ug/L	--	--
	n-Propylbenzene		1.55 J	5	1.7 J	5	ug/L	--	--
	p-Isopropyltoluene		ND	5	ND	5	ug/L	--	--
	sec-Butylbenzene		ND	5	ND	5	ug/L	--	--
	Styrene		ND	5	ND	5	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106018</b>									
SW8260B	tert-Butylbenzene	10/9/2012	ND	5	ND	5	ug/L	--	--
	Tetrachloroethene		ND	5	ND	5	ug/L	--	--
	Toluene		ND	5	ND	5	ug/L	--	--
	trans-1,2-Dichloroethene		ND	5	ND	5	ug/L	--	--
	trans-1,3-Dichloropropene		ND	5	ND	5	ug/L	--	--
	Trichloroethene		ND	5	ND	5	ug/L	--	--
	Trichlorofluoromethane		ND	10	ND	10	ug/L	--	--
	Vinyl chloride		ND	5	ND	5	ug/L	--	--
	Xylenes (total)		ND	15	ND	15	ug/L	--	--
SW8270D	1,1-Biphenyl		ND	5	ND	4.9	ug/L	--	--
	1,2-Diphenylhydrazine		ND	5	ND	4.9	ug/L	--	--
	1-Methylnaphthalene		ND	5	ND	4.9	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	5	ND	4.9	ug/L	--	--
	2,4,5-Trichlorophenol		ND	5	ND	4.9	ug/L	--	--
	2,4,6-Trichlorophenol		ND	5	ND	4.9	ug/L	--	--
	2,4-Dichlorophenol		ND	5	ND	4.9	ug/L	--	--
	2,4-Dimethylphenol		ND	20	ND	19.6	ug/L	--	--
	2,4-Dinitrophenol		ND	50	ND	49	ug/L	--	--
	2,4-Dinitrotoluene		ND	5	ND	4.9	ug/L	--	--
	2,6-Dinitrotoluene		ND	5	ND	4.9	ug/L	--	--
	2-Chloronaphthalene		ND	5	ND	4.9	ug/L	--	--
	2-Chlorophenol		ND	5	ND	4.9	ug/L	--	--
	2-Methylnaphthalene		ND	5	ND	4.9	ug/L	--	--
	2-Methylphenol		ND	5	ND	4.9	ug/L	--	--
	2-Nitroaniline		ND	20	ND	19.6	ug/L	--	--
	2-Nitrophenol		ND	5	ND	4.9	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	5	ND	4.9	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	5	ND	4.9	ug/L	--	--
	3-Nitroaniline		ND	20	ND	19.6	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	20	ND	19.6	ug/L	--	--
	4-Bromophenyl-phenylether		ND	5	ND	4.9	ug/L	--	--
	4-Chloro-3-methylphenol		ND	5	ND	4.9	ug/L	--	--
	4-Chloroaniline		ND	5	ND	4.9	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	5	ND	4.9	ug/L	--	--
	4-Nitroaniline		ND	20	ND	19.6	ug/L	--	--
	4-Nitrophenol		ND	20	ND	19.6	ug/L	--	--
	Acenaphthene		ND	5	ND	4.9	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106018</b>									
SW8270D	Acenaphthylene	10/9/2012	ND	5	ND	4.9	ug/L	--	--
	Acetophenone		ND	5	ND	4.9	ug/L	--	--
	Anthracene		ND	5	ND	4.9	ug/L	--	--
	Atrazine		ND	5	ND	4.9	ug/L	--	--
	Benzaldehyde		ND	5	ND	4.9	ug/L	--	--
	Benzidine		ND	100	ND	98	ug/L	--	--
	Benzo(a)anthracene		ND	5	ND	4.9	ug/L	--	--
	Benzo(a)pyrene		ND	5	ND	4.9	ug/L	--	--
	Benzo(b)fluoranthene		ND	5	ND	4.9	ug/L	--	--
	Benzo(g,h,i)perylene		ND	5	ND	4.9	ug/L	--	--
	Benzo(k)fluoranthene		ND	5	ND	4.9	ug/L	--	--
	Benzoic acid		ND	100	ND	98	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	5	ND	4.9	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	5	ND	4.9	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	5	ND	4.9	ug/L	--	--
	Butylbenzylphthalate		ND	5	ND	4.9	ug/L	--	--
	Caprolactam		ND	5	ND	4.9	ug/L	--	--
	Carbazole		ND	5	ND	4.9	ug/L	--	--
	Chrysene		ND	5	ND	4.9	ug/L	--	--
	Dibenz(a,h)anthracene		ND	5	ND	4.9	ug/L	--	--
	Dibenzofuran		ND	5	ND	4.9	ug/L	--	--
	Diethylphthalate		ND	5	ND	4.9	ug/L	--	--
	Dimethyl phthalate		ND	5	ND	4.9	ug/L	--	--
	Di-n-butylphthalate		ND	5	ND	4.9	ug/L	--	--
	Di-n-octylphthalate		ND	5	ND	4.9	ug/L	--	--
	Fluoranthene		ND	5	ND	4.9	ug/L	--	--
	Fluorene		ND	5	ND	4.9	ug/L	--	--
	Hexachlorobenzene		ND	5	ND	4.9	ug/L	--	--
	Hexachlorobutadiene		ND	5	ND	4.9	ug/L	--	--
	Hexachlorocyclopentadiene		ND	10	ND	9.8	ug/L	--	--
	Hexachloroethane		ND	5	ND	4.9	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	5	ND	4.9	ug/L	--	--
	Isophorone		ND	5	ND	4.9	ug/L	--	--
	Naphthalene		ND	5	ND	4.9	ug/L	--	--
	Nitrobenzene		ND	5	ND	4.9	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	5	ND	4.9	ug/L	--	--
	N-Nitrosodiphenylamine		ND	5	ND	4.9	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106018</b>									
SW8270D	Pentachlorophenol	10/9/2012	ND	20	ND	19.6	ug/L	--	--
	Phenanthrene		ND	5	ND	4.9	ug/L	--	--
	Phenol		ND	5	ND	4.9	ug/L	--	--
	Pyrene		ND	5	ND	4.9	ug/L	--	--
<b>KAFB-106024</b>									
E300.0	Chloride	10/4/2012	24	0.5	25.4	0.5	mg/L	5.7	Yes
	Sulfate as SO4		113	2.5	120	2.5	mg/L	6	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		130	1	128	1	mg/L	1.6	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		0.678 J	3.39	ND	4.55	mg/L	--	--
SW6010B	Calcium		60800	5000	60600	5000	ug/L	0.3	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		15000	5000	15100	5000	ug/L	0.7	Yes
	Potassium		2900 J	5000	2870 J	5000	ug/L	--	--
	Sodium		29400	5000	29100	5000	ug/L	1	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		82.2	15	82.9	15	ug/L	0.8	Yes
SW8011	1,2-Dibromoethane		ND	0.0287	ND	0.0289	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.392	ND	0.392	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106024</b>									
SW8260B	1,3,5-Trimethylbenzene	10/4/2012	ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	2	ND	2	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106024</b>									
SW8260B	sec-Butylbenzene	10/4/2012	ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270D	1,1-Biphenyl		ND	4.72	ND	4.81	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.72	ND	4.81	ug/L	--	--
	1-Methylnaphthalene		ND	4.72	ND	4.81	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.72	ND	4.81	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.72	ND	4.81	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.72	ND	4.81	ug/L	--	--
	2,4-Dichlorophenol		ND	4.72	ND	4.81	ug/L	--	--
	2,4-Dimethylphenol		ND	18.9	ND	19.2	ug/L	--	--
	2,4-Dinitrophenol		ND	47.2	ND	48.1	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.72	ND	4.81	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.72	ND	4.81	ug/L	--	--
	2-Chloronaphthalene		ND	4.72	ND	4.81	ug/L	--	--
	2-Chlorophenol		ND	4.72	ND	4.81	ug/L	--	--
	2-Methylnaphthalene		ND	4.72	ND	4.81	ug/L	--	--
	2-Methylphenol		ND	4.72	ND	4.81	ug/L	--	--
	2-Nitroaniline		ND	18.9	ND	19.2	ug/L	--	--
	2-Nitrophenol		ND	4.72	ND	4.81	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.72	ND	4.81	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.72	ND	4.81	ug/L	--	--
	3-Nitroaniline		ND	18.9	ND	19.2	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	18.9	ND	19.2	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.72	ND	4.81	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.72	ND	4.81	ug/L	--	--
	4-Chloroaniline		ND	4.72	ND	4.81	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.72	ND	4.81	ug/L	--	--
	4-Nitroaniline		ND	18.9	ND	19.2	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106024</b>									
SW8270D	4-Nitrophenol	10/4/2012	ND	18.9	ND	19.2	ug/L	--	--
	Acenaphthene		ND	4.72	ND	4.81	ug/L	--	--
	Acenaphthylene		ND	4.72	ND	4.81	ug/L	--	--
	Acetophenone		ND	4.72	ND	4.81	ug/L	--	--
	Anthracene		ND	4.72	ND	4.81	ug/L	--	--
	Atrazine		ND	4.72	ND	4.81	ug/L	--	--
	Benzaldehyde		ND	4.72	ND	4.81	ug/L	--	--
	Benzidine		ND	94.3	ND	96.2	ug/L	--	--
	Benzo(a)anthracene		ND	4.72	ND	4.81	ug/L	--	--
	Benzo(a)pyrene		ND	4.72	ND	4.81	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.72	ND	4.81	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.72	ND	4.81	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.72	ND	4.81	ug/L	--	--
	Benzoic acid		ND	94.3	ND	96.2	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.72	ND	4.81	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.72	ND	4.81	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.72	ND	4.81	ug/L	--	--
	Butylbenzylphthalate		ND	4.72	ND	4.81	ug/L	--	--
	Caprolactam		ND	4.72	ND	4.81	ug/L	--	--
	Carbazole		ND	4.72	ND	4.81	ug/L	--	--
	Chrysene		ND	4.72	ND	4.81	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.72	ND	4.81	ug/L	--	--
	Dibenzofuran		ND	4.72	ND	4.81	ug/L	--	--
	Diethylphthalate		ND	4.72	ND	4.81	ug/L	--	--
	Dimethyl phthalate		ND	4.72	ND	4.81	ug/L	--	--
	Di-n-butylphthalate		ND	4.72	ND	4.81	ug/L	--	--
	Di-n-octylphthalate		ND	4.72	ND	4.81	ug/L	--	--
	Fluoranthene		ND	4.72	ND	4.81	ug/L	--	--
	Fluorene		ND	4.72	ND	4.81	ug/L	--	--
	Hexachlorobenzene		ND	4.72	ND	4.81	ug/L	--	--
	Hexachlorobutadiene		ND	4.72	ND	4.81	ug/L	--	--
	Hexachlorocyclopentadiene		ND	9.43	ND	9.62	ug/L	--	--
	Hexachloroethane		ND	4.72	ND	4.81	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.72	ND	4.81	ug/L	--	--
	Isophorone		ND	4.72	ND	4.81	ug/L	--	--
	Naphthalene		ND	4.72	ND	4.81	ug/L	--	--
	Nitrobenzene		ND	4.72	ND	4.81	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106024</b>									
SW8270D	N-Nitroso-di-n-propylamine	10/4/2012	ND	4.72	ND	4.81	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.72	ND	4.81	ug/L	--	--
	Pentachlorophenol		ND	18.9	ND	19.2	ug/L	--	--
	Phenanthrene		ND	4.72	ND	4.81	ug/L	--	--
	Phenol		ND	4.72	ND	4.81	ug/L	--	--
	Pyrene		ND	4.72	ND	4.81	ug/L	--	--
<b>KAFB-106033</b>									
E300.0	Chloride	10/8/2012	65	0.5	71.3	0.5	mg/L	9.2	Yes
	Sulfate as SO4		110	2.5	119	2.5	mg/L	7.9	Yes
E353.2	Nitrate/Nitrite as N		2.63	1.5	2.64	1.5	mg/L	0.4	Yes
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		86.8	1	87.2	1	mg/L	0.5	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.39	ND	3.39	mg/L	--	--
SW6010B	Calcium		94400	5000	88300	5000	ug/L	6.7	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		12500	5000	12200	5000	ug/L	2.4	Yes
	Potassium		3310 J	5000	3270 J	5000	ug/L	--	--
	Sodium		29200	5000	29600	5000	ug/L	1.4	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0284	ND	0.0286	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.4	ND	0.385	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106033</b>									
SW8260B	1,2-Dichloroethane	10/8/2012	ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	2	ND	2	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106033</b>									
SW8260B	n-Propylbenzene	10/8/2012	ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270D	1,1-Biphenyl		ND	5	ND	5	ug/L	--	--
	1,2-Diphenylhydrazine		ND	5	ND	5	ug/L	--	--
	1-Methylnaphthalene		ND	5	ND	5	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	5	ND	5	ug/L	--	--
	2,4,5-Trichlorophenol		ND	5	ND	5	ug/L	--	--
	2,4,6-Trichlorophenol		ND	5	ND	5	ug/L	--	--
	2,4-Dichlorophenol		ND	5	ND	5	ug/L	--	--
	2,4-Dimethylphenol		ND	20	ND	20	ug/L	--	--
	2,4-Dinitrophenol		ND	50	ND	50	ug/L	--	--
	2,4-Dinitrotoluene		ND	5	ND	5	ug/L	--	--
	2,6-Dinitrotoluene		ND	5	ND	5	ug/L	--	--
	2-Chloronaphthalene		ND	5	ND	5	ug/L	--	--
	2-Chlorophenol		ND	5	ND	5	ug/L	--	--
	2-Methylnaphthalene		ND	5	ND	5	ug/L	--	--
	2-Methylphenol		ND	5	ND	5	ug/L	--	--
	2-Nitroaniline		ND	20	ND	20	ug/L	--	--
	2-Nitrophenol		ND	5	ND	5	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	5	ND	5	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	5	ND	5	ug/L	--	--
	3-Nitroaniline		ND	20	ND	20	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	20	ND	20	ug/L	--	--
	4-Bromophenyl-phenylether		ND	5	ND	5	ug/L	--	--
	4-Chloro-3-methylphenol		ND	5	ND	5	ug/L	--	--
	4-Chloroaniline		ND	5	ND	5	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106033</b>									
SW8270D	4-Chlorophenyl phenyl ether	10/8/2012	ND	5	ND	5	ug/L	--	--
	4-Nitroaniline		ND	20	ND	20	ug/L	--	--
	4-Nitrophenol		ND	20	ND	20	ug/L	--	--
	Acenaphthene		ND	5	ND	5	ug/L	--	--
	Acenaphthylene		ND	5	ND	5	ug/L	--	--
	Acetophenone		ND	5	ND	5	ug/L	--	--
	Anthracene		ND	5	ND	5	ug/L	--	--
	Atrazine		ND	5	ND	5	ug/L	--	--
	Benzaldehyde		ND	5	ND	5	ug/L	--	--
	Benzidine		ND	100	ND	100	ug/L	--	--
	Benzo(a)anthracene		ND	5	ND	5	ug/L	--	--
	Benzo(a)pyrene		ND	5	ND	5	ug/L	--	--
	Benzo(b)fluoranthene		ND	5	ND	5	ug/L	--	--
	Benzo(g,h,i)perylene		ND	5	ND	5	ug/L	--	--
	Benzo(k)fluoranthene		ND	5	ND	5	ug/L	--	--
	Benzoic acid		ND	100	ND	100	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	5	ND	5	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	5	ND	5	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	5	ND	5	ug/L	--	--
	Butylbenzylphthalate		ND	5	ND	5	ug/L	--	--
	Caprolactam		ND	5	ND	5	ug/L	--	--
	Carbazole		ND	5	ND	5	ug/L	--	--
	Chrysene		ND	5	ND	5	ug/L	--	--
	Dibenz(a,h)anthracene		ND	5	ND	5	ug/L	--	--
	Dibenzofuran		ND	5	ND	5	ug/L	--	--
	Diethylphthalate		ND	5	ND	5	ug/L	--	--
	Dimethyl phthalate		ND	5	ND	5	ug/L	--	--
	Di-n-butylphthalate		ND	5	ND	5	ug/L	--	--
	Di-n-octylphthalate		ND	5	ND	5	ug/L	--	--
	Fluoranthene		ND	5	ND	5	ug/L	--	--
	Fluorene		ND	5	ND	5	ug/L	--	--
	Hexachlorobenzene		ND	5	ND	5	ug/L	--	--
	Hexachlorobutadiene		ND	5	ND	5	ug/L	--	--
	Hexachlorocyclopentadiene		ND	10	ND	10	ug/L	--	--
	Hexachloroethane		ND	5	ND	5	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	5	ND	5	ug/L	--	--
	Isophorone		ND	5	ND	5	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106033</b>									
SW8270D	Naphthalene	10/8/2012	ND	5	ND	5	ug/L	--	--
	Nitrobenzene		ND	5	ND	5	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	5	ND	5	ug/L	--	--
	N-Nitrosodiphenylamine		ND	5	ND	5	ug/L	--	--
	Pentachlorophenol		ND	20	ND	20	ug/L	--	--
	Phenanthrene		ND	5	ND	5	ug/L	--	--
	Phenol		ND	5	ND	5	ug/L	--	--
	Pyrene		ND	5	ND	5	ug/L	--	--
<b>KAFB-106044</b>									
E300.0	Chloride	10/8/2012	6.45	0.5	6.4	0.5	mg/L	0.8	Yes
	Sulfate as SO4		28	2.5	28.1	2.5	mg/L	0.4	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		98.1	1	94.5	1	mg/L	3.7	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.7	ND	3.7	mg/L	--	--
SW6010B	Calcium		33400	5000	35100	5000	ug/L	5	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		4610 J	5000	4560 J	5000	ug/L	--	--
	Potassium		2080 J	5000	2090 J	5000	ug/L	--	--
	Sodium		21700	5000	20700	5000	ug/L	4.7	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0294	ND	0.0298	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.4	ND	0.4	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106044</b>									
SW8260B	1,2-Dibromoethane (EDB)	10/8/2012	ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106044</b>									
SW8260B	Naphthalene	10/8/2012	ND	2	ND	2	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270D	1,1-Biphenyl		ND	5	ND	5	ug/L	--	--
	1,2-Diphenylhydrazine		ND	5	ND	5	ug/L	--	--
	1-Methylnaphthalene		ND	5	ND	5	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	5	ND	5	ug/L	--	--
	2,4,5-Trichlorophenol		ND	5	ND	5	ug/L	--	--
	2,4,6-Trichlorophenol		ND	5	ND	5	ug/L	--	--
	2,4-Dichlorophenol		ND	5	ND	5	ug/L	--	--
	2,4-Dimethylphenol		ND	20	ND	20	ug/L	--	--
	2,4-Dinitrophenol		ND	50	ND	50	ug/L	--	--
	2,4-Dinitrotoluene		ND	5	ND	5	ug/L	--	--
	2,6-Dinitrotoluene		ND	5	ND	5	ug/L	--	--
	2-Chloronaphthalene		ND	5	ND	5	ug/L	--	--
	2-Chlorophenol		ND	5	ND	5	ug/L	--	--
	2-Methylnaphthalene		ND	5	ND	5	ug/L	--	--
	2-Methylphenol		ND	5	ND	5	ug/L	--	--
	2-Nitroaniline		ND	20	ND	20	ug/L	--	--
	2-Nitrophenol		ND	5	ND	5	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	5	ND	5	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	5	ND	5	ug/L	--	--
	3-Nitroaniline		ND	20	ND	20	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	20	ND	20	ug/L	--	--
	4-Bromophenyl-phenylether		ND	5	ND	5	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106044</b>									
SW8270D	4-Chloro-3-methylphenol	10/8/2012	ND	5	ND	5	ug/L	--	--
	4-Chloroaniline		ND	5	ND	5	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	5	ND	5	ug/L	--	--
	4-Nitroaniline		ND	20	ND	20	ug/L	--	--
	4-Nitrophenol		ND	20	ND	20	ug/L	--	--
	Acenaphthene		ND	5	ND	5	ug/L	--	--
	Acenaphthylene		ND	5	ND	5	ug/L	--	--
	Acetophenone		ND	5	ND	5	ug/L	--	--
	Anthracene		ND	5	ND	5	ug/L	--	--
	Atrazine		ND	5	ND	5	ug/L	--	--
	Benzaldehyde		ND	5	ND	5	ug/L	--	--
	Benzidine		ND	100	ND	100	ug/L	--	--
	Benzo(a)anthracene		ND	5	ND	5	ug/L	--	--
	Benzo(a)pyrene		ND	5	ND	5	ug/L	--	--
	Benzo(b)fluoranthene		ND	5	ND	5	ug/L	--	--
	Benzo(g,h,i)perylene		ND	5	ND	5	ug/L	--	--
	Benzo(k)fluoranthene		ND	5	ND	5	ug/L	--	--
	Benzoic acid		ND	100	ND	100	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	5	ND	5	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	5	ND	5	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	5	ND	5	ug/L	--	--
	Butylbenzylphthalate		ND	5	ND	5	ug/L	--	--
	Caprolactam		ND	5	ND	5	ug/L	--	--
	Carbazole		ND	5	ND	5	ug/L	--	--
	Chrysene		ND	5	ND	5	ug/L	--	--
	Dibenz(a,h)anthracene		ND	5	ND	5	ug/L	--	--
	Dibenzofuran		ND	5	ND	5	ug/L	--	--
	Diethylphthalate		ND	5	ND	5	ug/L	--	--
	Dimethyl phthalate		ND	5	ND	5	ug/L	--	--
	Di-n-butylphthalate		ND	5	ND	5	ug/L	--	--
	Di-n-octylphthalate		ND	5	ND	5	ug/L	--	--
	Fluoranthene		ND	5	ND	5	ug/L	--	--
	Fluorene		ND	5	ND	5	ug/L	--	--
	Hexachlorobenzene		ND	5	ND	5	ug/L	--	--
	Hexachlorobutadiene		ND	5	ND	5	ug/L	--	--
	Hexachlorocyclopentadiene		ND	10	ND	10	ug/L	--	--
	Hexachloroethane		ND	5	ND	5	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106044</b>									
SW8270D	Indeno(1,2,3-cd)pyrene	10/8/2012	ND	5	ND	5	ug/L	--	--
	Isophorone		ND	5	ND	5	ug/L	--	--
	Naphthalene		ND	5	ND	5	ug/L	--	--
	Nitrobenzene		ND	5	ND	5	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	5	ND	5	ug/L	--	--
	N-Nitrosodiphenylamine		ND	5	ND	5	ug/L	--	--
	Pentachlorophenol		ND	20	ND	20	ug/L	--	--
	Phenanthrene		ND	5	ND	5	ug/L	--	--
	Phenol		ND	5	ND	5	ug/L	--	--
	Pyrene		ND	5	ND	5	ug/L	--	--
<b>KAFB-106057</b>									
E300.0	Chloride	10/16/2012	12	1	11.9	1	mg/L	0.8	Yes
	Sulfate as SO4		37	2.5	36.9	2.5	mg/L	0.3	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		120	1	118	1	mg/L	1.7	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.7	ND	3.7	mg/L	--	--
SW6010B	Calcium		41500	5000	41300	5000	ug/L	0.5	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		5280	5000	5240	5000	ug/L	0.8	Yes
	Potassium		2220 J	5000	2220 J	5000	ug/L	--	--
	Sodium		25800	5000	25800	5000	ug/L	0	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		0.866	0.0286	0.896	0.0292	ug/L	3.4	Yes
SW8015B	Diesel Range Organics (C10-C28)		0.111 J	0.4	0.105 J	0.4	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	2	ND	2	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106057</b>									
SW8260B	1,2,4-Trimethylbenzene	10/16/2012	ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		0.81 J	1	0.8 J	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		0.48 J	1	0.47 J	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		0.59 J	1	0.59 J	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		0.28 J	1	0.29 J	1	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106057</b>									
SW8260B	Methyl t-Butyl Ether	10/16/2012	ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	2	ND	2	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270D	1,1-Biphenyl		ND	4.81	ND	4.63	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.81	ND	4.63	ug/L	--	--
	1-Methylnaphthalene		ND	4.81	ND	4.63	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.81	ND	4.63	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.81	ND	4.63	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.81	ND	4.63	ug/L	--	--
	2,4-Dichlorophenol		ND	4.81	ND	4.63	ug/L	--	--
	2,4-Dimethylphenol		ND	19.2	ND	18.5	ug/L	--	--
	2,4-Dinitrophenol		ND	48.1	ND	46.3	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.81	ND	4.63	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.81	ND	4.63	ug/L	--	--
	2-Chloronaphthalene		ND	4.81	ND	4.63	ug/L	--	--
	2-Chlorophenol		ND	4.81	ND	4.63	ug/L	--	--
	2-Methylnaphthalene		ND	4.81	ND	4.63	ug/L	--	--
	2-Methylphenol		ND	4.81	ND	4.63	ug/L	--	--
	2-Nitroaniline		ND	19.2	ND	18.5	ug/L	--	--
	2-Nitrophenol		ND	4.81	ND	4.63	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.81	ND	4.63	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.81	ND	4.63	ug/L	--	--
	3-Nitroaniline		ND	19.2	ND	18.5	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106057</b>									
SW8270D	4,6-Dinitro-2-methylphenol	10/16/2012	ND	19.2	ND	18.5	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.81	ND	4.63	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.81	ND	4.63	ug/L	--	--
	4-Chloroaniline		ND	4.81	ND	4.63	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.81	ND	4.63	ug/L	--	--
	4-Nitroaniline		ND	19.2	ND	18.5	ug/L	--	--
	4-Nitrophenol		ND	19.2	ND	18.5	ug/L	--	--
	Acenaphthene		ND	4.81	ND	4.63	ug/L	--	--
	Acenaphthylene		ND	4.81	ND	4.63	ug/L	--	--
	Acetophenone		ND	4.81	ND	4.63	ug/L	--	--
	Anthracene		ND	4.81	ND	4.63	ug/L	--	--
	Atrazine		ND	4.81	ND	4.63	ug/L	--	--
	Benzaldehyde		ND	4.81	ND	4.63	ug/L	--	--
	Benzidine		ND	96.2	ND	92.6	ug/L	--	--
	Benzo(a)anthracene		ND	4.81	ND	4.63	ug/L	--	--
	Benzo(a)pyrene		ND	4.81	ND	4.63	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.81	ND	4.63	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.81	ND	4.63	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.81	ND	4.63	ug/L	--	--
	Benzoic acid		ND	96.2	ND	92.6	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.81	ND	4.63	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.81	ND	4.63	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.81	ND	4.63	ug/L	--	--
	Butylbenzylphthalate		ND	4.81	ND	4.63	ug/L	--	--
	Caprolactam		ND	4.81	ND	4.63	ug/L	--	--
	Carbazole		ND	4.81	ND	4.63	ug/L	--	--
	Chrysene		ND	4.81	ND	4.63	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.81	ND	4.63	ug/L	--	--
	Dibenzofuran		ND	4.81	ND	4.63	ug/L	--	--
	Diethylphthalate		ND	4.81	ND	4.63	ug/L	--	--
	Dimethyl phthalate		ND	4.81	ND	4.63	ug/L	--	--
	Di-n-butylphthalate		ND	4.81	ND	4.63	ug/L	--	--
	Di-n-octylphthalate		ND	4.81	ND	4.63	ug/L	--	--
	Fluoranthene		ND	4.81	ND	4.63	ug/L	--	--
	Fluorene		ND	4.81	ND	4.63	ug/L	--	--
	Hexachlorobenzene		ND	4.81	ND	4.63	ug/L	--	--
	Hexachlorobutadiene		ND	4.81	ND	4.63	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106057</b>									
SW8270D	Hexachlorocyclopentadiene	10/16/2012	ND	9.62	ND	9.26	ug/L	--	--
	Hexachloroethane		ND	4.81	ND	4.63	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.81	ND	4.63	ug/L	--	--
	Isophorone		ND	4.81	ND	4.63	ug/L	--	--
	Naphthalene		ND	4.81	ND	4.63	ug/L	--	--
	Nitrobenzene		ND	4.81	ND	4.63	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.81	ND	4.63	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.81	ND	4.63	ug/L	--	--
	Pentachlorophenol		ND	19.2	ND	18.5	ug/L	--	--
	Phenanthrene		ND	4.81	ND	4.63	ug/L	--	--
	Phenol		ND	4.81	ND	4.63	ug/L	--	--
	Pyrene		ND	4.81	ND	4.63	ug/L	--	--
<b>KAFB-106068</b>									
E300.0	Chloride	10/23/2012	8.53	1	8.45	1	mg/L	0.9	Yes
	Sulfate as SO4		30	2.5	30	2	mg/L	0	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		106	1	105	1	mg/L	0.9	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	0.127 J	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.64	ND	3.64	mg/L	--	--
SW6010B	Calcium		36700	5000	37600	5000	ug/L	2.4	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		4970 J	5000	4940 J	5000	ug/L	--	--
	Potassium		2030 J	5000	2020 J	5000	ug/L	--	--
	Sodium		22900	5000	22600	5000	ug/L	1.3	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0283	ND	0.0301	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.4	ND	0.4	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	2	ND	2	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106068</b>									
SW8260B	1,2,3-Trichloropropane	10/23/2012	ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106068</b>									
SW8260B	Hexachlorobutadiene	10/23/2012	ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	2	ND	2	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270D	1,1-Biphenyl		ND	5.56	ND	5.56	ug/L	--	--
	1,2-Diphenylhydrazine		ND	5.56	ND	5.56	ug/L	--	--
	1-Methylnaphthalene		ND	5.56	ND	5.56	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	5.56	ND	5.56	ug/L	--	--
	2,4,5-Trichlorophenol		ND	5.56	ND	5.56	ug/L	--	--
	2,4,6-Trichlorophenol		ND	5.56	ND	5.56	ug/L	--	--
	2,4-Dichlorophenol		ND	5.56	ND	5.56	ug/L	--	--
	2,4-Dimethylphenol		ND	22.2	ND	22.2	ug/L	--	--
	2,4-Dinitrophenol		ND	55.6	ND	55.6	ug/L	--	--
	2,4-Dinitrotoluene		ND	5.56	ND	5.56	ug/L	--	--
	2,6-Dinitrotoluene		ND	5.56	ND	5.56	ug/L	--	--
	2-Chloronaphthalene		ND	5.56	ND	5.56	ug/L	--	--
	2-Chlorophenol		ND	5.56	ND	5.56	ug/L	--	--
	2-Methylnaphthalene		ND	5.56	ND	5.56	ug/L	--	--
	2-Methylphenol		ND	5.56	ND	5.56	ug/L	--	--
	2-Nitroaniline		ND	22.2	ND	22.2	ug/L	--	--
	2-Nitrophenol		ND	5.56	ND	5.56	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	5.56	ND	5.56	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106068</b>									
SW8270D	3-Methylphenol and 4-methylphenol	10/23/2012	ND	5.56	ND	5.56	ug/L	--	--
	3-Nitroaniline		ND	22.2	ND	22.2	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	22.2	ND	22.2	ug/L	--	--
	4-Bromophenyl-phenylether		ND	5.56	ND	5.56	ug/L	--	--
	4-Chloro-3-methylphenol		ND	5.56	ND	5.56	ug/L	--	--
	4-Chloroaniline		ND	5.56	ND	5.56	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	5.56	ND	5.56	ug/L	--	--
	4-Nitroaniline		ND	22.2	ND	22.2	ug/L	--	--
	4-Nitrophenol		ND	22.2	ND	22.2	ug/L	--	--
	Acenaphthene		ND	5.56	ND	5.56	ug/L	--	--
	Acenaphthylene		ND	5.56	ND	5.56	ug/L	--	--
	Acetophenone		ND	5.56	ND	5.56	ug/L	--	--
	Anthracene		ND	5.56	ND	5.56	ug/L	--	--
	Atrazine		ND	5.56	ND	5.56	ug/L	--	--
	Benzaldehyde		ND	5.56	ND	5.56	ug/L	--	--
	Benzidine		ND	111	ND	111	ug/L	--	--
	Benzo(a)anthracene		ND	5.56	ND	5.56	ug/L	--	--
	Benzo(a)pyrene		ND	5.56	ND	5.56	ug/L	--	--
	Benzo(b)fluoranthene		ND	5.56	ND	5.56	ug/L	--	--
	Benzo(g,h,i)perylene		ND	5.56	ND	5.56	ug/L	--	--
	Benzo(k)fluoranthene		ND	5.56	ND	5.56	ug/L	--	--
	Benzoic acid		ND	111	ND	111	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	5.56	ND	5.56	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	5.56	ND	5.56	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	5.56	ND	5.56	ug/L	--	--
	Butylbenzylphthalate		ND	5.56	ND	5.56	ug/L	--	--
	Caprolactam		ND	5.56	ND	5.56	ug/L	--	--
	Carbazole		ND	5.56	ND	5.56	ug/L	--	--
	Chrysene		ND	5.56	ND	5.56	ug/L	--	--
	Dibenz(a,h)anthracene		ND	5.56	ND	5.56	ug/L	--	--
	Dibenzofuran		ND	5.56	ND	5.56	ug/L	--	--
	Diethylphthalate		ND	5.56	ND	5.56	ug/L	--	--
	Dimethyl phthalate		ND	5.56	ND	5.56	ug/L	--	--
	Di-n-butylphthalate		ND	5.56	ND	5.56	ug/L	--	--
	Di-n-octylphthalate		ND	5.56	ND	5.56	ug/L	--	--
	Fluoranthene		ND	5.56	ND	5.56	ug/L	--	--
	Fluorene		ND	5.56	ND	5.56	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106068</b>									
SW8270D	Hexachlorobenzene	10/23/2012	ND	5.56	ND	5.56	ug/L	--	--
	Hexachlorobutadiene		ND	5.56	ND	5.56	ug/L	--	--
	Hexachlorocyclopentadiene		ND	11.1	ND	11.1	ug/L	--	--
	Hexachloroethane		ND	5.56	ND	5.56	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	5.56	ND	5.56	ug/L	--	--
	Isophorone		ND	5.56	ND	5.56	ug/L	--	--
	Naphthalene		ND	5.56	ND	5.56	ug/L	--	--
	Nitrobenzene		ND	5.56	ND	5.56	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	5.56	ND	5.56	ug/L	--	--
	N-Nitrosodiphenylamine		ND	5.56	ND	5.56	ug/L	--	--
	Pentachlorophenol		ND	22.2	ND	22.2	ug/L	--	--
	Phenanthrene		ND	5.56	ND	5.56	ug/L	--	--
	Phenol		ND	5.56	ND	5.56	ug/L	--	--
	Pyrene		ND	5.56	ND	5.56	ug/L	--	--
<b>KAFB-106080</b>									
E300.0	Chloride	10/25/2012	95.7	0.5	95.4	0.5	mg/L	0.3	Yes
	Sulfate as SO4		36.3	2	35.7	2	mg/L	1.7	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		313	1	335	1	mg/L	6.8	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	4	ND	4	mg/L	--	--
SW6010B	Calcium		128000	5000	126000	5000	ug/L	1.6	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		20700	5000	20500	5000	ug/L	1	Yes
	Potassium		3610 J	5000	3530 J	5000	ug/L	--	--
	Sodium		42300	5000	41600	5000	ug/L	1.7	Yes
SW6010B-DISS	Iron		1900	100	1880	100	ug/L	1.1	Yes
	Manganese		4650	15	4620	15	ug/L	0.6	Yes
SW8011	1,2-Dibromoethane		0.156 J	0.0283	0.135 J	0.0282	ug/L	14.4	Yes
SW8015B	Diesel Range Organics (C10-C28)		12.3	2	16.6	1.96	mg/L	29.8	Yes
	Gasoline Range Organics (C6-C10)		7.76	0.75	7.85	0.75	mg/L	1.2	Yes
SW8260B	1,1,1,2-Tetrachloroethane		ND	20	ND	20	ug/L	--	--
	1,1,1-Trichloroethane		ND	20	ND	20	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	20	ND	20	ug/L	--	--
	1,1,2-Trichloroethane		ND	20	ND	20	ug/L	--	--
	1,1-Dichloroethane		ND	20	ND	20	ug/L	--	--
	1,1-Dichloroethene		ND	20	ND	20	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106080</b>									
SW8260B	1,1-Dichloropropene	10/25/2012	ND	20	ND	20	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	40	ND	40	ug/L	--	--
	1,2,3-Trichloropropane		ND	40	ND	40	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	40	ND	40	ug/L	--	--
	1,2,4-Trimethylbenzene		95.6	20	100	20	ug/L	4.5	Yes
	1,2-Dibromo-3-chloropropane		ND	40	ND	40	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	20	ND	20	ug/L	--	--
	1,2-Dichlorobenzene		ND	20	ND	20	ug/L	--	--
	1,2-Dichloroethane		ND	20	ND	20	ug/L	--	--
	1,2-Dichloropropane		ND	20	ND	20	ug/L	--	--
	1,3,5-Trimethylbenzene		42.2	20	43.8	20	ug/L	3.7	Yes
	1,3-Dichlorobenzene		ND	20	ND	20	ug/L	--	--
	1,3-Dichloropropane		ND	20	ND	20	ug/L	--	--
	1,4-Dichlorobenzene		ND	20	ND	20	ug/L	--	--
	2,2-Dichloropropane		ND	20	ND	20	ug/L	--	--
	2-Butanone		ND	200	ND	200	ug/L	--	--
	2-Chlorotoluene		ND	20	ND	20	ug/L	--	--
	2-Hexanone		ND	100	ND	100	ug/L	--	--
	4-Chlorotoluene		ND	20	ND	20	ug/L	--	--
	4-Methyl-2-pentanone		ND	100	ND	100	ug/L	--	--
	Acetone		ND	200	ND	200	ug/L	--	--
	Benzene		1920	20	2060	20	ug/L	7	Yes
	Bromobenzene		ND	20	ND	20	ug/L	--	--
	Bromochloromethane		ND	20	ND	20	ug/L	--	--
	Bromodichloromethane		ND	20	ND	20	ug/L	--	--
	Bromoform		ND	20	ND	20	ug/L	--	--
	Bromomethane		ND	40	ND	40	ug/L	--	--
	Carbon disulfide		ND	20	ND	20	ug/L	--	--
	Carbon tetrachloride		ND	20	ND	20	ug/L	--	--
	Chlorobenzene		ND	20	ND	20	ug/L	--	--
	Chloroethane		ND	40	ND	40	ug/L	--	--
	Chloroform		ND	20	ND	20	ug/L	--	--
	Chloromethane		ND	20	ND	20	ug/L	--	--
	cis-1,2-Dichloroethene		ND	20	ND	20	ug/L	--	--
	cis-1,3-Dichloropropene		ND	20	ND	20	ug/L	--	--
	Dibromochloromethane		ND	20	ND	20	ug/L	--	--
	Dibromomethane		ND	20	ND	20	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106080</b>									
SW8260B	Dichlorodifluoromethane	10/25/2012	ND	40	ND	40	ug/L	--	--
	Ethylbenzene		803	20	836	20	ug/L	4	Yes
	Hexachlorobutadiene		ND	40	ND	40	ug/L	--	--
	Isopropylbenzene		56	20	58.4	20	ug/L	4.2	Yes
	Methyl t-Butyl Ether		ND	20	ND	20	ug/L	--	--
	Methylene chloride		ND	40	ND	40	ug/L	--	--
	Naphthalene		114	40	118	40	ug/L	3.4	Yes
	n-Butylbenzene		ND	20	ND	20	ug/L	--	--
	n-Propylbenzene		46.6	20	47	20	ug/L	0.9	Yes
	p-Isopropyltoluene		8.2 J	20	8 J	20	ug/L	--	--
	sec-Butylbenzene		ND	20	ND	20	ug/L	--	--
	Styrene		ND	20	ND	20	ug/L	--	--
	tert-Butylbenzene		ND	20	ND	20	ug/L	--	--
	Tetrachloroethene		ND	20	ND	20	ug/L	--	--
	Toluene		124	20	128	20	ug/L	3.2	Yes
	trans-1,2-Dichloroethene		ND	20	ND	20	ug/L	--	--
	trans-1,3-Dichloropropene		ND	20	ND	20	ug/L	--	--
	Trichloroethene		ND	20	ND	20	ug/L	--	--
	Trichlorofluoromethane		ND	40	ND	40	ug/L	--	--
	Vinyl chloride		ND	20	ND	20	ug/L	--	--
	Xylenes (total)		59 J	60	62	60	ug/L	--	--
SW8270D	1,1-Biphenyl		ND	50	ND	50	ug/L	--	--
	1,2-Diphenylhydrazine		ND	50	ND	50	ug/L	--	--
	1-Methylnaphthalene		22 J	50	21.2 J	50	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	50	ND	50	ug/L	--	--
	2,4,5-Trichlorophenol		ND	50	ND	50	ug/L	--	--
	2,4,6-Trichlorophenol		ND	50	ND	50	ug/L	--	--
	2,4-Dichlorophenol		ND	50	ND	50	ug/L	--	--
	2,4-Dimethylphenol		ND	200	ND	200	ug/L	--	--
	2,4-Dinitrophenol		ND	500	ND	500	ug/L	--	--
	2,4-Dinitrotoluene		ND	50	ND	50	ug/L	--	--
	2,6-Dinitrotoluene		ND	50	ND	50	ug/L	--	--
	2-Chloronaphthalene		ND	50	ND	50	ug/L	--	--
	2-Chlorophenol		ND	50	ND	50	ug/L	--	--
	2-Methylnaphthalene		19.5 J	50	20.9 J	50	ug/L	--	--
	2-Methylphenol		ND	50	ND	50	ug/L	--	--
	2-Nitroaniline		ND	200	ND	200	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106080</b>									
SW8270D	2-Nitrophenol	10/25/2012	ND	50	ND	50	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	50	ND	50	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	50	ND	50	ug/L	--	--
	3-Nitroaniline		ND	200	ND	200	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	200	ND	200	ug/L	--	--
	4-Bromophenyl-phenylether		ND	50	ND	50	ug/L	--	--
	4-Chloro-3-methylphenol		ND	50	ND	50	ug/L	--	--
	4-Chloroaniline		ND	50	ND	50	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	50	ND	50	ug/L	--	--
	4-Nitroaniline		ND	200	ND	200	ug/L	--	--
	4-Nitrophenol		ND	200	ND	200	ug/L	--	--
	Acenaphthene		ND	50	ND	50	ug/L	--	--
	Acenaphthylene		ND	50	ND	50	ug/L	--	--
	Acetophenone		24.8 J	50	26.4 J	50	ug/L	--	--
	Anthracene		ND	50	ND	50	ug/L	--	--
	Atrazine		ND	50	ND	50	ug/L	--	--
	Benzaldehyde		ND	50	ND	50	ug/L	--	--
	Benzidine		ND	1000	ND	1000	ug/L	--	--
	Benzo(a)anthracene		ND	50	ND	50	ug/L	--	--
	Benzo(a)pyrene		ND	50	ND	50	ug/L	--	--
	Benzo(b)fluoranthene		ND	50	ND	50	ug/L	--	--
	Benzo(g,h,i)perylene		ND	50	ND	50	ug/L	--	--
	Benzo(k)fluoranthene		ND	50	ND	50	ug/L	--	--
	Benzoic acid		ND	1000	ND	1000	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	50	ND	50	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	50	ND	50	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	50	ND	50	ug/L	--	--
	Butylbenzylphthalate		ND	50	ND	50	ug/L	--	--
	Caprolactam		ND	50	ND	50	ug/L	--	--
	Carbazole		ND	50	ND	50	ug/L	--	--
	Chrysene		ND	50	ND	50	ug/L	--	--
	Dibenz(a,h)anthracene		ND	50	ND	50	ug/L	--	--
	Dibenzofuran		ND	50	ND	50	ug/L	--	--
	Diethylphthalate		ND	50	ND	50	ug/L	--	--
	Dimethyl phthalate		ND	50	ND	50	ug/L	--	--
	Di-n-butylphthalate		ND	50	ND	50	ug/L	--	--
	Di-n-octylphthalate		ND	50	ND	50	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106080</b>									
SW8270D	Fluoranthene	10/25/2012	ND	50	ND	50	ug/L	--	--
	Fluorene		ND	50	ND	50	ug/L	--	--
	Hexachlorobenzene		ND	50	ND	50	ug/L	--	--
	Hexachlorobutadiene		ND	50	ND	50	ug/L	--	--
	Hexachlorocyclopentadiene		ND	100	ND	100	ug/L	--	--
	Hexachloroethane		ND	50	ND	50	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	50	ND	50	ug/L	--	--
	Isophorone		ND	50	ND	50	ug/L	--	--
	Naphthalene		71.7	50	75.4	50	ug/L	5	Yes
	Nitrobenzene		ND	50	ND	50	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	50	ND	50	ug/L	--	--
	N-Nitrosodiphenylamine		ND	50	ND	50	ug/L	--	--
	Pentachlorophenol		ND	200	ND	200	ug/L	--	--
	Phenanthrene		ND	50	ND	50	ug/L	--	--
	Phenol		ND	50	ND	50	ug/L	--	--
	Pyrene		ND	50	ND	50	ug/L	--	--
<b>KAFB-106089</b>									
E300.0	Chloride	10/11/2012	12.3	0.5	11.7	0.5	mg/L	5	Yes
	Sulfate as SO4		34.3	2.5	33.4	2.5	mg/L	2.7	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		126	1	126	1	mg/L	0	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.7	ND	3.7	mg/L	--	--
SW6010B	Calcium		45800	5000	44300	5000	ug/L	3.3	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		6040	5000	5840	5000	ug/L	3.4	Yes
	Potassium		2410 J	5000	2320 J	5000	ug/L	--	--
	Sodium		25300	5000	24500	5000	ug/L	3.2	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		0.208	0.0282	0.206	0.028	ug/L	1	Yes
SW8015B	Diesel Range Organics (C10-C28)		ND	0.37	ND	0.377	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106089</b>									
SW8260B	1,1-Dichloroethane	10/11/2012	ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106089</b>									
SW8260B	Dibromochloromethane	10/11/2012	ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	2	ND	2	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270D	1,1-Biphenyl		ND	4.63	ND	4.63	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.63	ND	4.63	ug/L	--	--
	1-Methylnaphthalene		ND	4.63	ND	4.63	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.63	ND	4.63	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.63	ND	4.63	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.63	ND	4.63	ug/L	--	--
	2,4-Dichlorophenol		ND	4.63	ND	4.63	ug/L	--	--
	2,4-Dimethylphenol		ND	18.5	ND	18.5	ug/L	--	--
	2,4-Dinitrophenol		ND	46.3	ND	46.3	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.63	ND	4.63	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.63	ND	4.63	ug/L	--	--
	2-Chloronaphthalene		ND	4.63	ND	4.63	ug/L	--	--
	2-Chlorophenol		ND	4.63	ND	4.63	ug/L	--	--
	2-Methylnaphthalene		ND	4.63	ND	4.63	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106089</b>									
SW8270D	2-Methylphenol	10/11/2012	ND	4.63	ND	4.63	ug/L	--	--
	2-Nitroaniline		ND	18.5	ND	18.5	ug/L	--	--
	2-Nitrophenol		ND	4.63	ND	4.63	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.63	ND	4.63	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.63	ND	4.63	ug/L	--	--
	3-Nitroaniline		ND	18.5	ND	18.5	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	18.5	ND	18.5	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.63	ND	4.63	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.63	ND	4.63	ug/L	--	--
	4-Chloroaniline		ND	4.63	ND	4.63	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.63	ND	4.63	ug/L	--	--
	4-Nitroaniline		ND	18.5	ND	18.5	ug/L	--	--
	4-Nitrophenol		ND	18.5	ND	18.5	ug/L	--	--
	Acenaphthene		ND	4.63	ND	4.63	ug/L	--	--
	Acenaphthylene		ND	4.63	ND	4.63	ug/L	--	--
	Acetophenone		ND	4.63	ND	4.63	ug/L	--	--
	Anthracene		ND	4.63	ND	4.63	ug/L	--	--
	Atrazine		ND	4.63	ND	4.63	ug/L	--	--
	Benzaldehyde		ND	4.63	ND	4.63	ug/L	--	--
	Benzidine		ND	92.6	ND	92.6	ug/L	--	--
	Benzo(a)anthracene		ND	4.63	ND	4.63	ug/L	--	--
	Benzo(a)pyrene		ND	4.63	ND	4.63	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.63	ND	4.63	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.63	ND	4.63	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.63	ND	4.63	ug/L	--	--
	Benzoic acid		ND	92.6	ND	92.6	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.63	ND	4.63	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.63	ND	4.63	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.63	ND	4.63	ug/L	--	--
	Butylbenzylphthalate		ND	4.63	ND	4.63	ug/L	--	--
	Caprolactam		ND	4.63	ND	4.63	ug/L	--	--
	Carbazole		ND	4.63	ND	4.63	ug/L	--	--
	Chrysene		ND	4.63	ND	4.63	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.63	ND	4.63	ug/L	--	--
	Dibenzofuran		ND	4.63	ND	4.63	ug/L	--	--
	Diethylphthalate		ND	4.63	ND	4.63	ug/L	--	--
	Dimethyl phthalate		ND	4.63	ND	4.63	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106089</b>									
SW8270D	Di-n-butylphthalate	10/11/2012	ND	4.63	ND	4.63	ug/L	--	--
	Di-n-octylphthalate		ND	4.63	ND	4.63	ug/L	--	--
	Fluoranthene		ND	4.63	ND	4.63	ug/L	--	--
	Fluorene		ND	4.63	ND	4.63	ug/L	--	--
	Hexachlorobenzene		ND	4.63	ND	4.63	ug/L	--	--
	Hexachlorobutadiene		ND	4.63	ND	4.63	ug/L	--	--
	Hexachlorocyclopentadiene		ND	9.26	ND	9.26	ug/L	--	--
	Hexachloroethane		ND	4.63	ND	4.63	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.63	ND	4.63	ug/L	--	--
	Isophorone		ND	4.63	ND	4.63	ug/L	--	--
	Naphthalene		ND	4.63	ND	4.63	ug/L	--	--
	Nitrobenzene		ND	4.63	ND	4.63	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.63	ND	4.63	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.63	ND	4.63	ug/L	--	--
	Pentachlorophenol		ND	18.5	ND	18.5	ug/L	--	--
	Phenanthrene		ND	4.63	ND	4.63	ug/L	--	--
	Phenol		ND	4.63	ND	4.63	ug/L	--	--
	Pyrene		ND	4.63	ND	4.63	ug/L	--	--
<b>KAFB-106097</b>									
E300.0	Chloride	10/16/2012	9.97	1	10.1	1	mg/L	1.3	Yes
	Sulfate as SO4		34.1	2.5	34.4	2.5	mg/L	0.9	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		103	1	106	1	mg/L	2.9	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.7	ND	3.7	mg/L	--	--
SW6010B	Calcium		37000	5000	37300	5000	ug/L	0.8	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		4990 J	5000	5210	5000	ug/L	--	--
	Potassium		2150 J	5000	2200 J	5000	ug/L	--	--
	Sodium		22500	5000	22000	5000	ug/L	2.2	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0286	ND	0.0284	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.471	ND	0.471	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106097</b>									
SW8260B	1,1,2,2-Tetrachloroethane	10/16/2012	ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106097</b>									
SW8260B	cis-1,2-Dichloroethene	10/16/2012	ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	2	ND	2	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270D	1,1-Biphenyl		ND	5	ND	5.56	ug/L	--	--
	1,2-Diphenylhydrazine		ND	5	ND	5.56	ug/L	--	--
	1-Methylnaphthalene		ND	5	ND	5.56	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	5	ND	5.56	ug/L	--	--
	2,4,5-Trichlorophenol		ND	5	ND	5.56	ug/L	--	--
	2,4,6-Trichlorophenol		ND	5	ND	5.56	ug/L	--	--
	2,4-Dichlorophenol		ND	5	ND	5.56	ug/L	--	--
	2,4-Dimethylphenol		ND	20	ND	22.2	ug/L	--	--
	2,4-Dinitrophenol		ND	50	ND	55.6	ug/L	--	--
	2,4-Dinitrotoluene		ND	5	ND	5.56	ug/L	--	--
	2,6-Dinitrotoluene		ND	5	ND	5.56	ug/L	--	--
	2-Chloronaphthalene		ND	5	ND	5.56	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106097</b>									
SW8270D	2-Chlorophenol	10/16/2012	ND	5	ND	5.56	ug/L	--	--
	2-Methylnaphthalene		ND	5	ND	5.56	ug/L	--	--
	2-Methylphenol		ND	5	ND	5.56	ug/L	--	--
	2-Nitroaniline		ND	20	ND	22.2	ug/L	--	--
	2-Nitrophenol		ND	5	ND	5.56	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	5	ND	5.56	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	5	ND	5.56	ug/L	--	--
	3-Nitroaniline		ND	20	ND	22.2	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	20	ND	22.2	ug/L	--	--
	4-Bromophenyl-phenylether		ND	5	ND	5.56	ug/L	--	--
	4-Chloro-3-methylphenol		ND	5	ND	5.56	ug/L	--	--
	4-Chloroaniline		ND	5	ND	5.56	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	5	ND	5.56	ug/L	--	--
	4-Nitroaniline		ND	20	ND	22.2	ug/L	--	--
	4-Nitrophenol		ND	20	ND	22.2	ug/L	--	--
	Acenaphthene		ND	5	ND	5.56	ug/L	--	--
	Acenaphthylene		ND	5	ND	5.56	ug/L	--	--
	Acetophenone		ND	5	ND	5.56	ug/L	--	--
	Anthracene		ND	5	ND	5.56	ug/L	--	--
	Atrazine		ND	5	ND	5.56	ug/L	--	--
	Benzaldehyde		ND	5	ND	5.56	ug/L	--	--
	Benzidine		ND	100	ND	111	ug/L	--	--
	Benzo(a)anthracene		ND	5	ND	5.56	ug/L	--	--
	Benzo(a)pyrene		ND	5	ND	5.56	ug/L	--	--
	Benzo(b)fluoranthene		ND	5	ND	5.56	ug/L	--	--
	Benzo(g,h,i)perylene		ND	5	ND	5.56	ug/L	--	--
	Benzo(k)fluoranthene		ND	5	ND	5.56	ug/L	--	--
	Benzoic acid		ND	100	ND	111	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	5	ND	5.56	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	5	ND	5.56	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	5	ND	5.56	ug/L	--	--
	Butylbenzylphthalate		ND	5	ND	5.56	ug/L	--	--
	Caprolactam		ND	5	ND	5.56	ug/L	--	--
	Carbazole		ND	5	ND	5.56	ug/L	--	--
	Chrysene		ND	5	ND	5.56	ug/L	--	--
	Dibenz(a,h)anthracene		ND	5	ND	5.56	ug/L	--	--
	Dibenzofuran		ND	5	ND	5.56	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106097</b>									
SW8270D	Diethylphthalate	10/16/2012	ND	5	ND	5.56	ug/L	--	--
	Dimethyl phthalate		ND	5	ND	5.56	ug/L	--	--
	Di-n-butylphthalate		ND	5	ND	5.56	ug/L	--	--
	Di-n-octylphthalate		ND	5	ND	5.56	ug/L	--	--
	Fluoranthene		ND	5	ND	5.56	ug/L	--	--
	Fluorene		ND	5	ND	5.56	ug/L	--	--
	Hexachlorobenzene		ND	5	ND	5.56	ug/L	--	--
	Hexachlorobutadiene		ND	5	ND	5.56	ug/L	--	--
	Hexachlorocyclopentadiene		ND	10	ND	11.1	ug/L	--	--
	Hexachloroethane		ND	5	ND	5.56	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	5	ND	5.56	ug/L	--	--
	Isophorone		ND	5	ND	5.56	ug/L	--	--
	Naphthalene		ND	5	ND	5.56	ug/L	--	--
	Nitrobenzene		ND	5	ND	5.56	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	5	ND	5.56	ug/L	--	--
	N-Nitrosodiphenylamine		ND	5	ND	5.56	ug/L	--	--
	Pentachlorophenol		ND	20	ND	22.2	ug/L	--	--
	Phenanthrene		ND	5	ND	5.56	ug/L	--	--
	Phenol		ND	5	ND	5.56	ug/L	--	--
	Pyrene		ND	5	ND	5.56	ug/L	--	--
<b>KAFB-106103</b>									
E300.0	Chloride	10/17/2012	9.59	1	9.6	1	mg/L	0.1	Yes
	Sulfate as SO4		28.9	2	28.9	2	mg/L	0	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		151	1	107	1	mg/L	34.1	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.7	ND	3.7	mg/L	--	--
SW6010B	Calcium		35200	5000	36500	5000	ug/L	3.6	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		4400 J	5000	4970 J	5000	ug/L	--	--
	Potassium		2000 J	5000	2110 J	5000	ug/L	--	--
	Sodium		24700	5000	27500	5000	ug/L	10.7	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0282	ND	0.0283	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.377	ND	0.385	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106103</b>									
SW8260B	1,1,1,2-Tetrachloroethane	10/17/2012	ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--
	Chlorobenzene		ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106103</b>									
SW8260B	Chloroform	10/17/2012	ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	2	ND	2	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270D	1,1-Biphenyl		ND	4.72	ND	4.9	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.72	ND	4.9	ug/L	--	--
	1-Methylnaphthalene		ND	4.72	ND	4.9	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.72	ND	4.9	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.72	ND	4.9	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.72	ND	4.9	ug/L	--	--
	2,4-Dichlorophenol		ND	4.72	ND	4.9	ug/L	--	--
	2,4-Dimethylphenol		ND	18.9	ND	19.6	ug/L	--	--
	2,4-Dinitrophenol		ND	47.2	ND	49	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.72	ND	4.9	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106103</b>									
SW8270D	2,6-Dinitrotoluene	10/17/2012	ND	4.72	ND	4.9	ug/L	--	--
	2-Chloronaphthalene		ND	4.72	ND	4.9	ug/L	--	--
	2-Chlorophenol		ND	4.72	ND	4.9	ug/L	--	--
	2-Methylnaphthalene		ND	4.72	ND	4.9	ug/L	--	--
	2-Methylphenol		ND	4.72	ND	4.9	ug/L	--	--
	2-Nitroaniline		ND	18.9	ND	19.6	ug/L	--	--
	2-Nitrophenol		ND	4.72	ND	4.9	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.72	ND	4.9	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.72	ND	4.9	ug/L	--	--
	3-Nitroaniline		ND	18.9	ND	19.6	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	18.9	ND	19.6	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.72	ND	4.9	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.72	ND	4.9	ug/L	--	--
	4-Chloroaniline		ND	4.72	ND	4.9	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.72	ND	4.9	ug/L	--	--
	4-Nitroaniline		ND	18.9	ND	19.6	ug/L	--	--
	4-Nitrophenol		ND	18.9	ND	19.6	ug/L	--	--
	Acenaphthene		ND	4.72	ND	4.9	ug/L	--	--
	Acenaphthylene		ND	4.72	ND	4.9	ug/L	--	--
	Acetophenone		ND	4.72	ND	4.9	ug/L	--	--
	Anthracene		ND	4.72	ND	4.9	ug/L	--	--
	Atrazine		ND	4.72	ND	4.9	ug/L	--	--
	Benzaldehyde		ND	4.72	ND	4.9	ug/L	--	--
	Benzidine		ND	94.3	ND	98	ug/L	--	--
	Benzo(a)anthracene		ND	4.72	ND	4.9	ug/L	--	--
	Benzo(a)pyrene		ND	4.72	ND	4.9	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.72	ND	4.9	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.72	ND	4.9	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.72	ND	4.9	ug/L	--	--
	Benzoic acid		ND	94.3	ND	98	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.72	ND	4.9	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.72	ND	4.9	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.72	ND	4.9	ug/L	--	--
	Butylbenzylphthalate		ND	4.72	ND	4.9	ug/L	--	--
	Caprolactam		ND	4.72	ND	4.9	ug/L	--	--
	Carbazole		ND	4.72	ND	4.9	ug/L	--	--
	Chrysene		ND	4.72	ND	4.9	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106103</b>									
SW8270D	Dibenz(a,h)anthracene	10/17/2012	ND	4.72	ND	4.9	ug/L	--	--
	Dibenzofuran		ND	4.72	ND	4.9	ug/L	--	--
	Diethylphthalate		ND	4.72	ND	4.9	ug/L	--	--
	Dimethyl phthalate		ND	4.72	ND	4.9	ug/L	--	--
	Di-n-butylphthalate		ND	4.72	ND	4.9	ug/L	--	--
	Di-n-octylphthalate		ND	4.72	ND	4.9	ug/L	--	--
	Fluoranthene		ND	4.72	ND	4.9	ug/L	--	--
	Fluorene		ND	4.72	ND	4.9	ug/L	--	--
	Hexachlorobenzene		ND	4.72	ND	4.9	ug/L	--	--
	Hexachlorobutadiene		ND	4.72	ND	4.9	ug/L	--	--
	Hexachlorocyclopentadiene		ND	9.43	ND	9.8	ug/L	--	--
	Hexachloroethane		ND	4.72	ND	4.9	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.72	ND	4.9	ug/L	--	--
	Isophorone		ND	4.72	ND	4.9	ug/L	--	--
	Naphthalene		ND	4.72	ND	4.9	ug/L	--	--
	Nitrobenzene		ND	4.72	ND	4.9	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.72	ND	4.9	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.72	ND	4.9	ug/L	--	--
	Pentachlorophenol		ND	18.9	ND	19.6	ug/L	--	--
	Phenanthrene		ND	4.72	ND	4.9	ug/L	--	--
	Phenol		ND	4.72	ND	4.9	ug/L	--	--
	Pyrene		ND	4.72	ND	4.9	ug/L	--	--
<b>KAFB-106203</b>									
E300.0	Chloride	11/13/2012	11.1	0.5	11.2	0.5	mg/L	0.9	Yes
	Sulfate as SO4		30.2	2.5	30.5	2.5	mg/L	1	Yes
E353.2	Nitrate/Nitrite as N		ND	1.5	ND	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		105	1	109	1	mg/L	3.7	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		0.361	0.3	ND	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.7	ND	3.39	mg/L	--	--
SW6010B	Calcium		39700	5000	41200	5000	ug/L	3.7	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		4940 J	5000	5000	5000	ug/L	--	--
	Potassium		2250 J	5000	2280 J	5000	ug/L	--	--
	Sodium		20700	5000	21400	5000	ug/L	3.3	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		44.2	15	44.6	15	ug/L	0.9	Yes
SW8011	1,2-Dibromoethane		ND	0.0283	ND	0.0283	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106203</b>									
SW8015B	Diesel Range Organics (C10-C28)	11/13/2012	ND	0.392	ND	0.4	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--
SW8260B	1,1,1,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,1-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2,2-Tetrachloroethane		ND	1	ND	1	ug/L	--	--
	1,1,2-Trichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,1-Dichloroethene		ND	1	ND	1	ug/L	--	--
	1,1-Dichloropropene		ND	1	ND	1	ug/L	--	--
	1,2,3-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,3-Trichloropropane		ND	2	ND	2	ug/L	--	--
	1,2,4-Trichlorobenzene		ND	2	ND	2	ug/L	--	--
	1,2,4-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	2	ND	2	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	1	ND	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	ND	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,3,5-Trimethylbenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,3-Dichloropropane		ND	1	ND	1	ug/L	--	--
	1,4-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	2,2-Dichloropropane		ND	1	ND	1	ug/L	--	--
	2-Butanone		ND	10	ND	10	ug/L	--	--
	2-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	2-Hexanone		ND	5	ND	5	ug/L	--	--
	4-Chlorotoluene		ND	1	ND	1	ug/L	--	--
	4-Methyl-2-pentanone		ND	5	ND	5	ug/L	--	--
	Acetone		ND	10	ND	10	ug/L	--	--
	Benzene		ND	1	ND	1	ug/L	--	--
	Bromobenzene		ND	1	ND	1	ug/L	--	--
	Bromochloromethane		ND	1	ND	1	ug/L	--	--
	Bromodichloromethane		ND	1	ND	1	ug/L	--	--
	Bromoform		ND	1	ND	1	ug/L	--	--
	Bromomethane		ND	2	ND	2	ug/L	--	--
	Carbon disulfide		ND	1	ND	1	ug/L	--	--
	Carbon tetrachloride		ND	1	ND	1	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106203</b>									
SW8260B	Chlorobenzene	11/13/2012	ND	1	ND	1	ug/L	--	--
	Chloroethane		ND	2	ND	2	ug/L	--	--
	Chloroform		ND	1	ND	1	ug/L	--	--
	Chloromethane		ND	1	ND	1	ug/L	--	--
	cis-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	cis-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--
	Dichlorodifluoromethane		ND	2	ND	2	ug/L	--	--
	Ethylbenzene		ND	1	ND	1	ug/L	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--
	Methyl t-Butyl Ether		ND	1	ND	1	ug/L	--	--
	Methylene chloride		ND	2	ND	2	ug/L	--	--
	Naphthalene		ND	2	ND	2	ug/L	--	--
	n-Butylbenzene		ND	1	ND	1	ug/L	--	--
	n-Propylbenzene		ND	1	ND	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--
	sec-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Styrene		ND	1	ND	1	ug/L	--	--
	tert-Butylbenzene		ND	1	ND	1	ug/L	--	--
	Tetrachloroethene		ND	1	ND	1	ug/L	--	--
	Toluene		ND	1	ND	1	ug/L	--	--
	trans-1,2-Dichloroethene		ND	1	ND	1	ug/L	--	--
	trans-1,3-Dichloropropene		ND	1	ND	1	ug/L	--	--
	Trichloroethene		ND	1	ND	1	ug/L	--	--
	Trichlorofluoromethane		ND	2	ND	2	ug/L	--	--
	Vinyl chloride		ND	1	ND	1	ug/L	--	--
	Xylenes (total)		ND	3	ND	3	ug/L	--	--
SW8270D	1,1-Biphenyl		ND	5	ND	4.9	ug/L	--	--
	1,2-Diphenylhydrazine		ND	5	ND	4.9	ug/L	--	--
	1-Methylnaphthalene		ND	5	ND	4.9	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	5	ND	4.9	ug/L	--	--
	2,4,5-Trichlorophenol		ND	5	ND	4.9	ug/L	--	--
	2,4,6-Trichlorophenol		ND	5	ND	4.9	ug/L	--	--
	2,4-Dichlorophenol		ND	5	ND	4.9	ug/L	--	--
	2,4-Dimethylphenol		ND	20	ND	19.6	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106203</b>									
SW8270D	2,4-Dinitrophenol	11/13/2012	ND	50	ND	49	ug/L	--	--
	2,4-Dinitrotoluene		ND	5	ND	4.9	ug/L	--	--
	2,6-Dinitrotoluene		ND	5	ND	4.9	ug/L	--	--
	2-Chloronaphthalene		ND	5	ND	4.9	ug/L	--	--
	2-Chlorophenol		ND	5	ND	4.9	ug/L	--	--
	2-Methylnaphthalene		ND	5	ND	4.9	ug/L	--	--
	2-Methylphenol		ND	5	ND	4.9	ug/L	--	--
	2-Nitroaniline		ND	20	ND	19.6	ug/L	--	--
	2-Nitrophenol		ND	5	ND	4.9	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	5	ND	4.9	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	5	ND	4.9	ug/L	--	--
	3-Nitroaniline		ND	20	ND	19.6	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	20	ND	19.6	ug/L	--	--
	4-Bromophenyl-phenylether		ND	5	ND	4.9	ug/L	--	--
	4-Chloro-3-methylphenol		ND	5	ND	4.9	ug/L	--	--
	4-Chloroaniline		ND	5	ND	4.9	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	5	ND	4.9	ug/L	--	--
	4-Nitroaniline		ND	20	ND	19.6	ug/L	--	--
	4-Nitrophenol		ND	20	ND	19.6	ug/L	--	--
	Acenaphthene		ND	5	ND	4.9	ug/L	--	--
	Acenaphthylene		ND	5	ND	4.9	ug/L	--	--
	Acetophenone		ND	5	ND	4.9	ug/L	--	--
	Anthracene		ND	5	ND	4.9	ug/L	--	--
	Atrazine		ND	5	ND	4.9	ug/L	--	--
	Benzaldehyde		ND	5	ND	4.9	ug/L	--	--
	Benzidine		ND	100	ND	98	ug/L	--	--
	Benzo(a)anthracene		ND	5	ND	4.9	ug/L	--	--
	Benzo(a)pyrene		ND	5	ND	4.9	ug/L	--	--
	Benzo(b)fluoranthene		ND	5	ND	4.9	ug/L	--	--
	Benzo(g,h,i)perylene		ND	5	ND	4.9	ug/L	--	--
	Benzo(k)fluoranthene		ND	5	ND	4.9	ug/L	--	--
	Benzoic acid		ND	100	ND	98	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	5	ND	4.9	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	5	ND	4.9	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	5	ND	4.9	ug/L	--	--
	Butylbenzylphthalate		ND	5	ND	4.9	ug/L	--	--
	Caprolactam		ND	5	ND	4.9	ug/L	--	--

**Appendix B1 - Table 5**  
**Field Duplicate Summary**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 35% Met
<b>KAFB-106203</b>									
SW8270D	Carbazole	11/13/2012	ND	5	ND	4.9	ug/L	--	--
	Chrysene		ND	5	ND	4.9	ug/L	--	--
	Dibenz(a,h)anthracene		ND	5	ND	4.9	ug/L	--	--
	Dibenzofuran		ND	5	ND	4.9	ug/L	--	--
	Diethylphthalate		ND	5	ND	4.9	ug/L	--	--
	Dimethyl phthalate		ND	5	ND	4.9	ug/L	--	--
	Di-n-butylphthalate		ND	5	ND	4.9	ug/L	--	--
	Di-n-octylphthalate		ND	5	ND	4.9	ug/L	--	--
	Fluoranthene		ND	5	ND	4.9	ug/L	--	--
	Fluorene		ND	5	ND	4.9	ug/L	--	--
	Hexachlorobenzene		ND	5	ND	4.9	ug/L	--	--
	Hexachlorobutadiene		ND	5	ND	4.9	ug/L	--	--
	Hexachlorocyclopentadiene		ND	10	ND	9.8	ug/L	--	--
	Hexachloroethane		ND	5	ND	4.9	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	5	ND	4.9	ug/L	--	--
	Isophorone		ND	5	ND	4.9	ug/L	--	--
	Naphthalene		ND	5	ND	4.9	ug/L	--	--
	Nitrobenzene		ND	5	ND	4.9	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	5	ND	4.9	ug/L	--	--
	N-Nitrosodiphenylamine		ND	5	ND	4.9	ug/L	--	--
	Pentachlorophenol		ND	20	ND	19.6	ug/L	--	--
	Phenanthrene		ND	5	ND	4.9	ug/L	--	--
	Phenol		ND	5	ND	4.9	ug/L	--	--
	Pyrene		ND	5	ND	4.9	ug/L	--	--

Notes: See Appendix B - Table 2 for definitions of Qualifiers and Reason Codes.

LOQ limit of quantitation  
 RPD relative percent difference  
 ND not detected at the LOQ  
 mg/L milligrams per liter  
 µg/L micrograms per liter

$$\text{RPD formula} = 100 \times |\text{Primary Result} - \text{Duplicate Result}| / ((\text{Primary Result} + \text{Duplicate Result}) / 2)$$

-- Not applicable since RPD not calculated. RPD is only calculated when the analyte is detected at or above the LOQ in both the normal sample and the duplicate sample.

**THIS PAGE INTENTIONALLY LEFT BLANK**

**Appendix B1 - Table 6**  
**Technical Completeness**  
**Groundwater Monitoring Event, Fourth Quarter 2012**  
**Kirtland Air Force Base**

Analytical Method	Number of Analytes	Number of Samples	Number of Results	Number of Useable Results	Technical Completeness [Goal = 95 percent] (percent)
<b>Environmental Samples</b>					
E300.0	2	129	258	258	100.0
E353.2	1	129	129	129	100.0
SM2320B	2	129	258	258	100.0
SM4500NH3BG	1	129	129	129	100.0
SM4500S2CF	1	129	129	129	100.0
SW6010B	7	129	903	903	100.0
SW8011	1	132	132	132	100.0
SW8015B - Diesel	1	129	129	129	100.0
SW8015B - Gasoline	1	129	129	129	100.0
SW8260B	64	133	8512	8512	100.0
SW8270D	69	129	8901	8901	100.0
SW8270D-PAH	18	1	18	18	100.0
<b>Field QC Samples</b>					
SW6010B	7	1	7	7	100.0
SW8015B - Diesel	1	1	1	1	100.0
SW8015B - Gasoline	1	1	1	1	100.0
SW8260B	64	23	1472	1472	100.0
SW8270D	69	1	69	69	100.0

**THIS PAGE INTENTIONALLY LEFT BLANK**