

APPENDIX B

Data Quality Evaluation Reports and Data Packages

B-1. Data Quality Evaluation Report – Groundwater, July – September 2012

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

B-3. Data Quality Evaluation Report – Soil Vapor, July – September 2012

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

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ACRONYMS AND ABBREVIATIONS

%	percent
%D	percent difference
AFB	Air Force Base
APH	air phase hydrocarbons
ASTM	American Society for Testing and Materials
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
LOQ	limit of quantitation
MA DEP	Massachusetts Department of Environmental Protection
MS	matrix spike
MSD	matrix spike duplicate
PAH	polynuclear aromatic hydrocarbons
ppb	part per billion
ppm	part per million

ACRONYMS AND ABBREVIATIONS (concluded)

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

APPENDIX B-1

Data Quality Evaluation Report – Groundwater July – September 2012

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B-1. DATA QUALITY EVALUATION REPORT – GROUNDWATER JULY – SEPTEMBER 2012

1. LABORATORY DATA QUALITY SUMMARY

This laboratory data quality summary describes the findings of the groundwater data review for the Third 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 July – September 2012, Bulk Fuels Facility, Solid Waste Management Units ST-106 and SS-111* (hereafter referred to as the quarterly report). Sampling procedures and overall quality control (QC) and quality assurance protocols for the Third 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 July 5 through August 29, 2012, 109 groundwater samples, 11 field duplicates, 2 equipment rinse blanks, 4 ambient blanks, and 16 trip blanks were collected and submitted to Empirical Laboratories LLC in Nashville, Tennessee, for analyses. The laboratory maintains 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 Third Quarter 2012 groundwater monitoring event are included in sample delivery groups (SDGs) Kirtland-055 through Kirtland-062. 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 eight 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* (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* (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/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 duplicate samples

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) (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 the 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 within the required 0 to 6 degrees Celsius, 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. One holding time exceedance was observed for EPA Method SW8015B for TPH as diesel analysis. The holding time exceedance and associated sample number are listed as follows:

Analytical Method	Holding-Time Outlier	Holding-Time Requirement	Non-compliant Sample
SW8015B	8 days for extraction	7 days for extraction	GW0694

Due to a laboratory oversight, TPH as diesel analysis for sample GW0694 was extracted 8 days after the sample collection date, exceeding the 7-day extraction holding time requirement by 1 day. The sample was analyzed within the required 40-day analysis timeframe. As a result of this minor holding-time exceedance, the detected result for TPH as diesel was qualified as estimated (J-). The concentration for TPH as diesel from this quarter was reported at 22.5 parts per million (ppm), which is within the historical range of 4.14 ppm to 45.4 ppm. Because the degree of holding-time exceedance is minor, it is unlikely that a low-biased result was 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 were analyzed for each analytical batch and for each analytical method. One positive analyte detection in the laboratory method blank was observed for EPA Method SW8270D low-level for PAH analysis. Specific contaminant, detected concentration, and the limit of quantitation (LOQ) are summarized as follows:

Analytical Method	Laboratory QC Batch #	Contaminant	Contaminant Level (ppb)	LOQ (ppb)
SW8270D Low-level	2G11005	Fluoranthene	0.0569	0.189

ppb Part per billion

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, the laboratory method blank level is less than one-half the LOQ and thus meets the blank acceptance criteria. The analyte fluoranthene was detected in one groundwater sample

associated with this laboratory method blank. As a result of the method blank detection, the detected result for fluoranthene is qualified as non-detect (U) at the LOQ. This blank qualification has no impact on the data usability.

Except as noted, no other target analytes were detected in any laboratory method blanks for VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, sulfide, ammonia as nitrogen, 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 metal, anion, 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 300.0 and shown as follows:

Analytical Method	Laboratory QC Batch #	Contaminant	Contaminant Level (ppm)	LOQ (ppm)
EPA 300.0	2G20213-CCB2	Chloride	0.885	1.0

ppm Part per million

Although the chloride detection in the continuing calibration blank was greater than one-half the LOQ and exceeded the calibration blank acceptance criteria defined in the DoD QSM (2010), the calibration blank detection did not affect the data quality of the sample results because the concentrations of chloride in the associated samples exceeded five times the level reported in the calibration blank. No data qualification was warranted as a result of the calibration blank detection. All initial and continuing calibration blanks were free of metals, 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 matrix effect and method performance on an individual sample basis. Surrogate recovery outliers were observed for surrogate compounds analyzed for SVOCs, EDB, TPH as gasoline, and TPH as diesel as listed as follows.

Analytical Method	Sample Number	Surrogate Recovery Outlier (%)	Control Limit (%)
SW8270D	GW0630	2-Fluorophenol: 12.9%	20-110%
		2,4,6-Tribromophenol: 32.5%	40-125%
	GW0658	2-Fluorophenol: 4.32%	20-110%
		2,4,6-Tribromophenol: 14.1%	40-125%
	GW0659	2-Fluorophenol: 9.46%	20-110%
		2,4,6-Tribromophenol: 32.4%	40-125%
	GW0733	2-Fluorophenol: 12.6%	20-110%
		2,4,6-Tribromophenol: 23.6%	40-125%
SW8011	GW0648	1,3-Dibromopropane: 134%	30-130%
SW8015B TPH gasoline	GW0703	Bromofluorobenzene: 180%	50-150%
SW8015B TPH diesel	GW0710	o-Terphenyl: 301%	50-150%

% Percent

In SVOC samples GW0630, GW0658, GW0659, and GW0733, the listed surrogates in the acid fraction 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 four samples, the recoveries of surrogates in the base/neutral fraction met the accuracy criteria and thus, no data qualification was applied to the results for the SVOCs in the base/neutral fraction. With the exception of the 2-fluorophenol recovery in one sample (GW0658), the reported surrogate recoveries in the other samples do not significantly deviate from the lower control limits, and therefore, the data usability of the qualified results is not affected. A review of historical data for sample GW0658 at location Kirtland Air Force Base (KAFB)-106032 indicates that SVOCs at this location have been consistently non-detect for all quarterly events. Although the 2-fluorophenol surrogate recovery in sample GW0658 was below the criteria, the SVOC results were

non-detect 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 sample GW0658 have been reported from the laboratory.

Laboratory corrective actions were taken for samples GW0658 and GW0659 for EPA Method SW8270D to investigate causes of the failed surrogate recoveries. Both samples (GW0658 and GW0659) were re-extracted and re-analyzed, yielding similar low surrogate recoveries and sample results. The re-extraction, however, was performed 12 days after the 7-day extraction holding time had expired. The data quality of the sample results for the first analysis is considered valid, and thus, the SVOCs results for both samples from the first analysis are reported in this quarterly report. Due to lack of sample volume for the remaining two SVOCs samples, no laboratory corrective actions was implemented for the low surrogate recoveries.

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

Furthermore, as presented in the preceding table, surrogates in one EDB sample (GW0648), one TPH as gasoline sample (GW0703), and one TPH as diesel sample (GW0710) 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.

Additionally, recoveries of surrogates in several samples analyzed for TPH as gasoline, EDB, and VOCs exceeded the upper control limits. Because the analytes were non-detect, the high surrogate recoveries did not affect the data quality of the sample results and thus, no data qualification was warranted.

Except as noted above, surrogates in all other samples were recovered within the accuracy control criteria.

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. The recovery biases for LCS/LCSD were reported for EPA Method SW8270D. The LCS recovery outliers that led to the data qualification are presented as follows:

Analytical Method	Laboratory QC Batch #	LCS Recovery Outlier (%)	Control Limit (%)
SW8270D	2G11005	Caprolactam: 12.4%	20-110%
	2G13102	Atrazine: 65.2%	70-115%
		2-Chloronaphthalene: 41.7%	50-105%
		Dibenzofuran: 50.3%, Isophone: 48.8%	55-105%
		2-Methylnaphthalene: 41.5%	50-110%
			45-105%
2G03006	Atrazine: 67.8%	70-115%	

As shown in the table, the LCS recoveries for the six listed analytes were below their respective lower control limit. These analytes were not detected in any associated samples. As a result, the LOQs were qualified as estimated (UJ). Surrogates in all SVOC samples qualified for the LCS recovery outliers were recovered within the accuracy specification, thus indicating acceptable sample preparation procedures.

In all cases, this 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 do not significantly deviate from their lower control limits and thus, the data usability of the qualified data is not affected.

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, nitrate and nitrate 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 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 Third Quarter 2012 groundwater monitoring event, seven MS/MSD samples were collected from locations ST106-VA2, KAFB-106083, KAFB-106101, KAFB-106027, KAFB-106044, KAFB-106020, and KAFB-106033; therefore, the 5% 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
ST106-VA2	GW0628	VOCs, SVOCs, PAHs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106083	GW0715	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106101	GW0738	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106027	GW0671	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106044	GW0693	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106020	GW0648	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106033	GW0659	VOCs, SVOCs, EDB, TPH as gasoline and diesel, metals, anions, ammonia as nitrogen, nitrate and nitrite as nitrogen, sulfide, and alkalinity
KAFB-106096	GW0729	Metals
KAFB-106019	GW0647	Anions
KAFB-106001	GW0630	Nitrate and nitrite as nitrogen
KAFB-3411	GW0629	Nitrate and nitrite as nitrogen
KAFB-106039	GW0665	Anions
KAFB-106070	GW0700	Nitrate and nitrite as nitrogen
KAFB-106002	GW0631	TPH as gasoline, anions, and alkalinity
KAFB-106022	GW0650	Ammonia as nitrogen
KAFB-106035	GW0661	Anions and alkalinity
KAFB-106050	GW0678	Ammonia as nitrogen
KAFB-106081	GW0712	Nitrate and nitrite as nitrogen and alkalinity
KAFB-106093	GW0726	Nitrate and nitrite as nitrogen
KAFB-106006	GW0633	Alkalinity
KAFB-106059	GW0687	Ammonia as nitrogen
KAFB-106061	GW0689	Anions
KAFB-106074	GW0705	Metals
KAFB-106076	GW0707	TPH as gasoline

Well Location	Sample Number	MS/MSD Analysis
KAFB-106100	GW0736	Nitrate and nitrite as nitrogen
KAFB-106010	GW0638	Alkalinity
KAFB-106044	GW0672	Ammonia as nitrogen
KAFB-106097	GW0731	Anions, nitrate and nitrite as nitrogen, and metals

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

Analytical Method	Spiked Sample	MS Recovery Outlier (%)	Control Limit (%)
SW8011	GW0659	EDB: 67/61.4%	70-130%
	GW0715	EDB: 69.5/79.4%	70-130%
SW8270D	GW0628	Caprolactam: 12.4/14.3%	20-110%
	GW0659	2,4,5-Trichlorophenol: 32.1/64%	50-115%
		2,4,6-Trichlorophenol: 40.7/72%	50-115%
		4,6-Dinitro-2-Methylphenol: 27.7/55.1%	40-130%
		Pentachlorophenol: 27.5/57.6%	40-115%
	GW0693	2,4-Dimethylphenol: 20.8/22.1%	30-110%
3,3'-Dichlorobenzidine: 16.3/17.8%		20-110%	
SW6010B	GW0628	Calcium: 64/35.5%	80-120%
		Sodium: 72.3/56%	80-120%
	GW0715	Calcium: 180/194%	80-120%
		Sodium: 133/137%	80-120%
	GW0738	Calcium: 75.5/159%	80-120%
		Sodium: 101/127%	80-120%
	GW0671	Calcium: 122/115%	80-120%
	GW0693	Calcium: 142/107%	80-120%
GW0648	Calcium: 61.8/106%	80-120%	
	Sodium: 68.1/78.9%	80-120%	
SW8015B	GW0715	TPH diesel: 258/313%	70-130%

The analyte EDB analyzed by EPA Method SW8011 and the above-listed SVOCs reported by EPA Method 8270D were not detected in the spiked samples. As a result of the low-biased MS recoveries

indicated in the table, the analyte LOQ was qualified as estimated (UJ). 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 all analytes do not significantly deviate from the lower control limits; therefore, the data usability of the qualified results is not affected.

As shown in the preceding table, the reported MS recoveries for calcium and sodium analyzed by EPA Method SW6010B and TPH as diesel reported by EPA Method SW8015B exceed the upper or lower control limits in the spiked samples. These control criteria exceedances could be attributed to a matrix effect. In the spiked samples, the parent concentrations of calcium, sodium, or TPH as diesel exceed four times the spiked concentration. These elevated sample concentrations produced matrix interference, which led to the control criteria exceedances for MS recoveries. Because the sample concentrations are greater than four times the spiked levels, no data qualification was applied to the calcium, sodium, and TPH as diesel associated sample results.

Additionally, elevated MS recoveries were reported for VOCs in three MS samples and for nitrate and nitrite as nitrogen in one MS sample. In all cases, the analytes were non-detect and thus, the non-detect 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)

The stability of the analytical system is monitored by analyzing 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 exceeded the acceptance criteria for VOCs, SVOCs, EDB, TPH as gasoline and diesel, and metals analyses. The continuing calibration verification (CCV) outliers that resulted in data qualification are summarized as follows:

Analytical Method	Calibration ID	CCV Outlier (%)	Control Limit (%)
SW8015B	2G20607-CCV2	TPH gasoline: -33.6%	<20%
	2G21210-CCV2	TPH gasoline: +20.7%	<20%
	2H22710-CCV4	TPH gasoline: +28.1%	<20%
SW8015B	2H22010-CCV2	TPH diesel: +26.4%	<20%
	2H22010-CCV3	TPH diesel: +25.3%	<20%
	2I26406-CCV2	TPH diesel: -27.2%	<20%
SW8011	2G20701-CCV1	EDB: -21.2%	<20%
	2G20701-CCV2	EDB: -25.7%	<20%
	2H24013-CCV2	EDB: +26.6%	<20%
SW8260B	2G21203-CCV1	Hexachlorobutadiene: -25.4%	<20%
		4-Methyl-2-Pentanone: +26.4%	<20%
	2G21401-CCV1	Acetone: +37.4%	<20%
	2H22201-CCV1	Bromomethane: -27.6%	<20%
		Chloromethane: -31.3%	<20%
		Dichlorodifluoromethane: -22.9%	<20%

Analytical Method	Calibration ID	CCV Outlier (%)	Control Limit (%)
		Methylene Chloride: -21.3%	<20%
	2H23310-CCV1	4-Methyl-2-Pentanone: +24.8%	<20%
	2H23505-CCV1	Bromomethane: -33.2%	<20%
SW8270D	2H23622-CCV1	Benzoic Acid: -26.4%	<20%
	2I25101-CCV1	Benzoic Acid: -25.4%	<20%
6010B	2H21510-CCV6	Iron: -12.5%	<10%
		Magnesium: +11%	<10%
	2H21510-CCV8	Iron: +17%	<10%
	2H22909-CCV7	Manganese: +12%	<10%
	2H22909-CCV8	Iron: +11%	<10%

ID Identification

As a result of the low-biased %D values, the detected results and the LOQs for the non-detect 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 non-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 minimal and does not affect the data usability.

Moreover, high-biased %D values were reported for other VOCs and SVOCs. 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, no data qualification was warranted. Except as noted, the CCV results are acceptable for all other analyses.

1.1.9 Interference Check Samples (Reason Code O)

The ICP 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 Third 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 10 project samples (GW0628, GW0648, GW0659, GW0671, GW0693, GW0705, GW0715, GW0729, GW0731, and GW0738) collected during the Third Quarter 2012 groundwater monitoring event. Percent differences between the original analysis and the diluted analysis exceeded the control limit as presented below.

Analytical Method	Sample ID	ICP Serial Dilution Outlier (%)	Control Limit (%)
SW6010B	GW0715	Iron: +11.4%	<10%
		Manganese: +10.6%	<10%
	GW0693	Manganese: +17.3%	<10%

The ICP serial dilution outliers led to qualification of the detected iron and 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 samples and reported acceptable post-digestion spike recoveries for both analytes. The ICP serial dilution results meet the accuracy goal for all other metals and for all other eight 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 eight SDGs for the Third 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 were within the precision control limit for all the detected samples with the following exceptions:

Analytical Method	Sample ID	Precision Outlier (%)	Control Limit (%)
SW8011	GW0636	EDB RPD: 49%	<40%
	GW0706	EDB RPD: 55%	<40%
	GW0728	EDB RPD: 88%	<40%

As indicated above, the reported precision for the listed samples exceeded the precision control limit criteria of less than or equal to 40%. As a result of the exceedances, the detected EDB results in the affected samples were qualified as estimated (J). 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.

The analyte EDB was analyzed in all groundwater samples by both EPA Method 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 were comparable.

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% of the total number of groundwater samples. During the Third Quarter 2012 groundwater monitoring event, a total of four ambient blanks was collected rather than the required six ambient blanks; therefore, not achieving the ambient blank sample frequency requirement of 5%. The

field sampling crew inadvertently collected two of the ambient blanks. The ambient blanks were analyzed for VOCs only. Methylene chloride was detected in one ambient blank (GW8059-AB) at a trace level of 0.51 part per billion (ppb), which is below the LOQ of 2.0 ppb. This ambient blank detection did not affect the groundwater sample results as it was not detected in the associated samples. Except for this blank, the remaining three 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 shipped each day from July 5 through August 29, 2012, which resulted in a total of 16 trip blanks for the entire sampling event. Appendix B1 – Table 4 summarizes the detected trip blank results and associated sample results. Positive detections reported for seven trip blanks are summarized as follows:

Analytical Method	Trip Blank	Contaminants	Detected Level (ppb)	LOQ (ppb)
SW8260B	GW8211-TB	Carbon Disulfide	0.6	1.0
	GW8216-TB	Methylene Chloride	1.36	2.0
	GW8221-	Methylene Chloride	1.13	2.0
		Tetrachloroethene	0.27	1.0
	GW8222-TB	Methylene Chloride	1.65	2.0
		Tetrachloroethene	0.25	1.0
	GW8223-TB	Methylene Chloride	1.39	2.0
		Tetrachloroethene	0.27	1.0
	GW8224-TB	Methylene Chloride	1.75	2.0
		Tetrachloroethene	0.31	1.0
	GW8225-TB	Methylene Chloride	1.38	2.0
		Tetrachloroethene	0.27	1.0

TB Trip blank

As shown above, the majority of the trip blank detections is less than one-half the LOQ for target analytes, is less than the LOQ for common laboratory contaminants, such as methylene chloride and acetone, and meets the blank acceptance criteria defined in the DoD QSM (2010) and site-specific BFF

Spill QAPjP (USACE, 2011). The trip blank detection in one blank (GW8211-TB) exceeded the blank acceptance criteria.

Due to the trip blank detection, the detected result for tetrachloroethene in one associated sample (GW0699) was qualified as non-detected (U) at the LOQ. This blank qualification has no impact on the data usability. As presented in Appendix B1 – Table 4, all the groundwater samples shipped with the trip blanks (GW8211-TB, GW8216-TB, GW8221-TB, GW8222-TB, GW8223-TB, and GW8224-TB) were free of carbon disulfide, methylene chloride, or tetrachloroethene, and thus, the groundwater sample results are not affected by the trip blank detections. No VOCs were detected in any of the remaining nine trip blanks. Therefore, the trip blank results are acceptable and demonstrate that valid sample storage and shipping procedures were 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 Third 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 two equipment rinse blanks were collected during the Third Quarter 2012 groundwater monitoring event. Both equipment rinse blank samples were prepared by rinsing the decontaminated pump with distilled water, and then collecting the final rinse water into appropriate sample containers. The equipment rinse blank samples were analyzed for VOCs, SVOCs, TPH as gasoline and diesel, and metals. Appendix B1 –

Table 5 summarizes the detected equipment rinse blank results and associated sample results. Positive detections for the equipment rinse blanks are presented as follows:

Analytical Method	Equipment Rinse Blank	Number of Contaminants	Detection Range (ppb)	LOQ Range (ppb)
SW8260B	GW8056-RB	3	0.45-42.2	1-10
SW8270D	GW8056-RB	1	7.86	4.9
SW8015B Diesel	GW8057-RB	1	0.466 PPM	0.4 PPM
SW8260B	GW8057-RB	14	0.4-8.19	1-10
SW8270D	GW8057-RB	3	1.43-9.2	4.9

Due to the equipment rinse blank detections in GW08057-RB, the detected results for three TPH as diesel, five VOCs, and three SVOCs in the associated groundwater samples were qualified as non-detect (U) at either the reported value or the LOQ when the reported concentrations in samples were less than 5 times (or 10 times for common laboratory contaminants) the concentrations observed in the equipment rinse blanks. This blank qualification has no effect on the usability of the sample results. The VOC and SVOC detections in the equipment rinse blank (GW8056-RB) do not affect the data quality of the groundwater sample results, as the VOCs and SVOCs in the samples associated with this equipment rinse blank were either not detected or their concentrations in the samples exceeded five times the levels reported in the equipment rinse blank. Overall, the majority of the sample results is not affected by the equipment rinse blank detections, thus indicating 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% 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% for water samples. The RPD is calculated between pairs of field duplicate samples when both results are reported above the LOQ.

Eleven field duplicate pairs were collected for the Third Quarter 2012 groundwater monitoring event; therefore, the 10% field duplicate frequency requirement was achieved. The duplicate pairs were collected from locations KAFB-3, KAFB-106006, KAFB-106018, KAFB-106031, KAFB-106042, KAFB-106050, KAFB-106062, KAFB-106071, KAFB-106092, KAFB-106100, and KAFB-106106. All 11 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 6 presents the field duplicate results.

The RPD for EDB by EPA Method SW8011 was 44.4% at location KAFB-106018, thus exceeding the field duplicate precision goal of 35%. The RPDs for all other detected analytes were between 0 and 30.8%, which is well within the 35% 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 Third 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 7.

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%. Contractual completeness is calculated as follows:

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

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

- TPH as diesel by EPA Method SW8015B – 99.2%
- SVOCs by EPA Method SW8270D – 98.8%
- PAHs by EPA Method SW8270D low level – 94.4%
- Other methods – 100%

The contractual completeness goal for PAHs by EPA Method SW8270D low-level was slightly low(94.4%) due to one PAH result qualified for laboratory method blank detection. There is no impact on the data usability of the qualified result because of this data quality issue. As shown above, the 95% contractual completeness requirement was achieved for all other 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% 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 Third Quarter 2012 groundwater monitoring event, the analytical completeness goal was achieved as follows:

- Metals by EPA Method SW6010B – 95.1%
- EDB by EPA Method SW8011 – 90.8%
- TPH as diesel by EPA Method SW8015B – 87.5%
- TPH as gasoline by EPA Method SW8015B – 85.8%
- VOCs by EPA Method SW8260B – 99.1%
- SVOCs by EPA Method SW8270D – 97.9%
- PAHs by EPA Method SW8270D low-level – 94.4%
- All other methods – 100%

With the exceptions of TPH as diesel and gasoline analyses, the 90% analytical completeness goal was achieved for all other methods. While a few sample results were qualified as estimated or non-detect due to various QC outliers discussed in the previous sections, the data usability 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%. 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% for all methods exceeding the 95% technical completeness objective. Therefore, the project data quality objectives were achieved for the Third 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 criteria exceedances consist of missed holding times, biased surrogate recoveries, LCS/LCSD and MS/MSD recoveries; continuing calibration outliers; ICP serial dilution and sample precision outliers; low-level laboratory, and field blank sample contamination. The affected data were qualified as estimated or non-detect data results. Estimated data are still usable to achieve project data quality objectives.

The 95% technical completeness goal was achieved for all methods for the Third Quarter 2012 groundwater monitoring event. All data are usable for the intended purpose to support the BFF site remediation activities.

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Appendix B1 – Table 1. Groundwater Sample Delivery Group, July – September 2012

Location	Sample Date	Sample Number	SDG	Type
KAFB-003	7/6/2012	GW0624	KIRTLAND_055	WG
KAFB-003	7/6/2012	GW0625	KIRTLAND_055	WG
KAFB-015	7/5/2012	GW0626	KIRTLAND_055	WG
KAFB-016	7/5/2012	GW0627	KIRTLAND_055	WG
KAFB-106001	7/11/2012	GW0630	KIRTLAND_056	WG
KAFB-106002	8/2/2012	GW0631	KIRTLAND_059	WG
KAFB-106003	7/18/2012	GW0737	KIRTLAND_057	WG
KAFB-106004	8/7/2012	GW0733	KIRTLAND_060	WG
KAFB-106005	8/9/2012	GW0632	KIRTLAND_060	WG
KAFB-106006	8/8/2012	GW0633	KIRTLAND_060	WG
KAFB-106006	8/8/2012	GW0634	KIRTLAND_060	WG
KAFB-106007	7/11/2012	GW0635	KIRTLAND_056	WG
KAFB-106008	8/8/2012	GW0636	KIRTLAND_060	WG
KAFB-106009	8/9/2012	GW0637	KIRTLAND_060	WG
KAFB-106010	8/28/2012	GW0638	KIRTLAND_062	WG
KAFB-106011	8/2/2012	GW0639	KIRTLAND_059	WG
KAFB-106013	7/19/2012	GW0730	KIRTLAND_057	WG
KAFB-106014	8/9/2012	GW0641	KIRTLAND_060	WG
KAFB-106015	8/7/2012	GW0642	KIRTLAND_060	WG
KAFB-106016	7/19/2012	GW0643	KIRTLAND_057	WG
KAFB-106017	7/12/2012	GW0644	KIRTLAND_056	WG
KAFB-106018	7/12/2012	GW0645	KIRTLAND_056	WG
KAFB-106018	7/12/2012	GW0646	KIRTLAND_056	WG
KAFB-106019	7/12/2012	GW0647	KIRTLAND_056	WG
KAFB-106020	8/13/2012	GW0648	KIRTLAND_061	WG
KAFB-106021	8/2/2012	GW0649	KIRTLAND_059	WG
KAFB-106022	8/2/2012	GW0650	KIRTLAND_059	WG
KAFB-106023	7/24/2012	GW0740	KIRTLAND_058	WG
KAFB-106024	7/11/2012	GW0651	KIRTLAND_056	WG
KAFB-106025	7/10/2012	GW0652	KIRTLAND_056	WG
KAFB-106026	7/19/2012	GW0653	KIRTLAND_057	WG
KAFB-106027	7/23/2012	GW0671	KIRTLAND_058	WG
KAFB-106028-510	8/8/2012	GW0694	KIRTLAND_060	WG
KAFB-106029	7/18/2012	GW0654	KIRTLAND_057	WG
KAFB-106030	7/18/2012	GW0655	KIRTLAND_057	WG
KAFB-106031	7/18/2012	GW0656	KIRTLAND_057	WG
KAFB-106031	7/18/2012	GW0657	KIRTLAND_057	WG
KAFB-106032	7/12/2012	GW0658	KIRTLAND_056	WG
KAFB-106033	7/12/2012	GW0659	KIRTLAND_056	WG
KAFB-106034	7/12/2012	GW0660	KIRTLAND_056	WG
KAFB-106035	7/31/2012	GW0661	KIRTLAND_059	WG
KAFB-106036	8/1/2012	GW0662	KIRTLAND_059	WG
KAFB-106037	8/1/2012	GW0663	KIRTLAND_059	WG
KAFB-106038	7/24/2012	GW0664	KIRTLAND_058	WG
KAFB-106039	7/24/2012	GW0665	KIRTLAND_058	WG
KAFB-106040	7/24/2012	GW0666	KIRTLAND_058	WG
KAFB-106042	7/10/2012	GW0668	KIRTLAND_056	WG
KAFB-106042	7/10/2012	GW0669	KIRTLAND_056	WG
KAFB-106043	7/10/2012	GW0670	KIRTLAND_056	WG
KAFB-106044	8/29/2012	GW0672	KIRTLAND_062	WG
KAFB-106045	7/23/2012	GW0673	KIRTLAND_058	WG
KAFB-106046	7/26/2012	GW0674	KIRTLAND_058	WG
KAFB-106047	7/26/2012	GW0675	KIRTLAND_058	WG

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

Location	Sample Date	Sample Number	SDG	Type
KAFB-106048	7/26/2012	GW0676	KIRTLAND_058	WG
KAFB-106049	7/31/2012	GW0677	KIRTLAND_059	WG
KAFB-106050	7/31/2012	GW0678	KIRTLAND_059	WG
KAFB-106050	7/31/2012	GW0679	KIRTLAND_059	WG
KAFB-106051	7/31/2012	GW0680	KIRTLAND_059	WG
KAFB-106052	7/26/2012	GW0681	KIRTLAND_058	WG
KAFB-106053	7/26/2012	GW0682	KIRTLAND_058	WG
KAFB-106054	7/25/2012	GW0683	KIRTLAND_058	WG
KAFB-106055	7/25/2012	GW0684	KIRTLAND_058	WG
KAFB-106057	7/16/2012	GW0685	KIRTLAND_057	WG
KAFB-106058	7/16/2012	GW0686	KIRTLAND_057	WG
KAFB-106059	8/6/2012	GW0687	KIRTLAND_060	WG
KAFB-106060	8/6/2012	GW0688	KIRTLAND_060	WG
KAFB-106061	8/6/2012	GW0689	KIRTLAND_060	WG
KAFB-106062	7/25/2012	GW0690	KIRTLAND_058	WG
KAFB-106062	7/25/2012	GW0691	KIRTLAND_058	WG
KAFB-106063	7/25/2012	GW0692	KIRTLAND_058	WG
KAFB-106064	7/25/2012	GW0693	KIRTLAND_058	WG
KAFB-106065	8/8/2012	GW0695	KIRTLAND_060	WG
KAFB-106066	8/8/2012	GW0696	KIRTLAND_060	WG
KAFB-106067	7/30/2012	GW0697	KIRTLAND_059	WG
KAFB-106068	7/30/2012	GW0698	KIRTLAND_059	WG
KAFB-106069	8/28/2012	GW0699	KIRTLAND_062	WG
KAFB-106070	7/25/2012	GW0700	KIRTLAND_058	WG
KAFB-106071	7/11/2012	GW0701	KIRTLAND_056	WG
KAFB-106071	7/11/2012	GW0702	KIRTLAND_056	WG
KAFB-106072	7/25/2012	GW0703	KIRTLAND_058	WG
KAFB-106073	8/6/2012	GW0704	KIRTLAND_060	WG
KAFB-106074	8/6/2012	GW0705	KIRTLAND_060	WG
KAFB-106075	8/6/2012	GW0706	KIRTLAND_060	WG
KAFB-106076	8/7/2012	GW0707	KIRTLAND_060	WG
KAFB-106077	8/9/2012	GW0708	KIRTLAND_060	WG
KAFB-106078	8/29/2012	GW0709	KIRTLAND_062	WG
KAFB-106079	8/1/2012	GW0710	KIRTLAND_059	WG
KAFB-106080	8/1/2012	GW0711	KIRTLAND_059	WG
KAFB-106081	8/1/2012	GW0712	KIRTLAND_059	WG
KAFB-106082	7/9/2012	GW0714	KIRTLAND_056	WG
KAFB-106083	7/9/2012	GW0715	KIRTLAND_056	WG
KAFB-106084	7/10/2012	GW0716	KIRTLAND_056	WG
KAFB-106085	7/23/2012	GW0717	KIRTLAND_058	WG
KAFB-106086	7/23/2012	GW0718	KIRTLAND_058	WG
KAFB-106087	7/23/2012	GW0719	KIRTLAND_058	WG
KAFB-106088	7/9/2012	GW0720	KIRTLAND_056	WG
KAFB-106089	7/9/2012	GW0721	KIRTLAND_056	WG
KAFB-106090	7/9/2012	GW0722	KIRTLAND_056	WG
KAFB-106091	7/30/2012	GW0723	KIRTLAND_059	WG
KAFB-106092	7/30/2012	GW0724	KIRTLAND_059	WG
KAFB-106092	7/30/2012	GW0725	KIRTLAND_059	WG
KAFB-106093	7/30/2012	GW0726	KIRTLAND_059	WG
KAFB-106094	7/11/2012	GW0727	KIRTLAND_056	WG
KAFB-106095	8/28/2012	GW0728	KIRTLAND_062	WG
KAFB-106096	7/10/2012	GW0729	KIRTLAND_056	WG

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

Location	Sample Date	Sample Number	SDG	Type
KAFB-106097	8/29/2012	GW0731	KIRTLAND_062	WG
KAFB-106098	7/19/2012	GW0732	KIRTLAND_057	WG
KAFB-106099	8/7/2012	GW0734	KIRTLAND_060	WG
KAFB-106100	8/7/2012	GW0735	KIRTLAND_060	WG
KAFB-106100	8/7/2012	GW0736	KIRTLAND_060	WG
KAFB-106101	7/18/2012	GW0738	KIRTLAND_057	WG
KAFB-106102	7/18/2012	GW0739	KIRTLAND_057	WG
KAFB-106103	7/24/2012	GW0741	KIRTLAND_058	WG
KAFB-106104	7/24/2012	GW0742	KIRTLAND_058	WG
KAFB-106105	7/17/2012	GW0743	KIRTLAND_057	WG
KAFB-106106	7/17/2012	GW0744	KIRTLAND_057	WG
KAFB-106106	7/17/2012	GW0745	KIRTLAND_057	WG
KAFB-106107	7/17/2012	GW0746	KIRTLAND_057	WG
KAFB-3411	7/19/2012	GW0629	KIRTLAND_057	WG
ST106-VA2	7/5/2012	GW0628	KIRTLAND_055	WG

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

Data Qualifier Definitions for Organic Data Review

Qualifier	Definition
	No Qualifier 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 <u>or</u> absence of the analyte has not been verified. Re-sampling and re-analysis 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
	No Qualifier 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 and mercury. For cyanide and mercury, 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 <u>or</u> absence of the analyte has not been verified. Re-sampling and re-analysis 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.

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code A		Method SW6010B-DISS								
GW0693	REG	7/25/2012	Manganese	KIRTLAND_058	1580	3	15	1	ug/L	J
GW0715	REG	7/9/2012	Iron	KIRTLAND_056	345	30	100	1	ug/L	J
GW0715	REG	7/9/2012	Manganese	KIRTLAND_056	1130	3	15	1	ug/L	J
Reason Code B1		Method SW8270D-PAH								
GW0628	REG	7/5/2012	Fluoranthene	KIRTLAND_055	ND	0.0472	0.189	1	ug/L	U
Reason Code C		Method SW6010B								
GW0674	REG	7/26/2012	Magnesium	KIRTLAND_058	7390	1000	5000	1	ug/L	J+
GW0675	REG	7/26/2012	Magnesium	KIRTLAND_058	5570	1000	5000	1	ug/L	J+
GW0676	REG	7/26/2012	Magnesium	KIRTLAND_058	5110	1000	5000	1	ug/L	J+
GW0681	REG	7/26/2012	Magnesium	KIRTLAND_058	8120	1000	5000	1	ug/L	J+
GW0682	REG	7/26/2012	Magnesium	KIRTLAND_058	7640	1000	5000	1	ug/L	J+
GW0683	REG	7/25/2012	Magnesium	KIRTLAND_058	6960	1000	5000	1	ug/L	J+
GW0692	REG	7/25/2012	Magnesium	KIRTLAND_058	6040	1000	5000	1	ug/L	J+
GW0700	REG	7/25/2012	Magnesium	KIRTLAND_058	8490	1000	5000	1	ug/L	J+
Reason Code C		Method SW6010B-DISS								
GW0649	REG	8/2/2012	Manganese	KIRTLAND_059	176	3	15	1	ug/L	J+
GW0650	REG	8/2/2012	Manganese	KIRTLAND_059	343	3	15	1	ug/L	J+
GW0664	REG	7/24/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0665	REG	7/24/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0666	REG	7/24/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0671	REG	7/23/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0673	REG	7/23/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0674	REG	7/26/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0675	REG	7/26/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0676	REG	7/26/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0681	REG	7/26/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0682	REG	7/26/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0683	REG	7/25/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0684	REG	7/25/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0687	REG	8/6/2012	Manganese	KIRTLAND_060	2130	3	15	1	ug/L	J+
GW0692	REG	7/25/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code C Method SW6010B-DISS										
GW0697	REG	7/30/2012	Iron	KIRTLAND_059	1110	30	100	1	ug/L	J+
GW0703	REG	7/25/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0710	REG	8/1/2012	Iron	KIRTLAND_059	7210	30	100	1	ug/L	J+
GW0711	REG	8/1/2012	Iron	KIRTLAND_059	2400	30	100	1	ug/L	J+
GW0718	REG	7/23/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0719	REG	7/23/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0724	REG	7/30/2012	Manganese	KIRTLAND_059	269	3	15	1	ug/L	J+
GW0725	FD	7/30/2012	Manganese	KIRTLAND_059	264	3	15	1	ug/L	J+
GW0740	REG	7/24/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0741	REG	7/24/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
GW0742	REG	7/24/2012	Iron	KIRTLAND_058	ND	30	100	1	ug/L	UJ
Reason Code C Method SW8011										
GW0658	REG	7/12/2012	1,2-Dibromoethane	KIRTLAND_056	ND	0.00929	0.0279	1	ug/L	UJ
GW0660	REG	7/12/2012	1,2-Dibromoethane	KIRTLAND_056	ND	0.00948	0.0284	1	ug/L	UJ
GW0694	REG	8/8/2012	1,2-Dibromoethane	KIRTLAND_060	54.9	1.85	5.56	200	ug/L	J+
GW0701	REG	7/11/2012	1,2-Dibromoethane	KIRTLAND_056	ND	0.00936	0.0281	1	ug/L	UJ
GW0702	FD	7/11/2012	1,2-Dibromoethane	KIRTLAND_056	ND	0.00938	0.0281	1	ug/L	UJ
Reason Code C Method SW8015B										
GW0624	REG	7/6/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_055	ND	0.05	0.15	1	mg/L	UJ
GW0625	FD	7/6/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_055	ND	0.05	0.15	1	mg/L	UJ
GW0626	REG	7/5/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_055	ND	0.05	0.15	1	mg/L	UJ
GW0627	REG	7/5/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_055	ND	0.05	0.15	1	mg/L	UJ
GW0628	REG	7/5/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_055	ND	0.05	0.15	1	mg/L	UJ
GW0638	REG	8/28/2012	Diesel Range Organics (C10-C28)	KIRTLAND_062	36.5	5	20	50	mg/L	J-
GW0669	FD	7/10/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_056	ND	0.05	0.15	1	mg/L	UJ
GW0670	REG	7/10/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_056	ND	0.05	0.15	1	mg/L	UJ
GW0697	REG	7/30/2012	Diesel Range Organics (C10-C28)	KIRTLAND_059	3.93	0.0962	0.385	1	mg/L	J+
GW0703	REG	7/25/2012	Diesel Range Organics (C10-C28)	KIRTLAND_058	1	0.0943	0.377	1	mg/L	J+
GW0710	REG	8/1/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_059	26.2	1.25	3.75	25	mg/L	J+
GW0711	REG	8/1/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_059	27.1	0.5	1.5	10	mg/L	J+
GW0714	REG	7/9/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_056	1.2	0.05	0.15	1	mg/L	J-

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code C Method SW8015B										
GW0715	REG	7/9/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_056	2.83	0.05	0.15	1	mg/L	J-
GW0716	REG	7/10/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_056	ND	0.05	0.15	1	mg/L	UJ
GW0717	REG	7/23/2012	Diesel Range Organics (C10-C28)	KIRTLAND_058	0.743	0.0935	0.374	1	mg/L	J+
GW0718	REG	7/23/2012	Diesel Range Organics (C10-C28)	KIRTLAND_058	0.709	0.0935	0.374	1	mg/L	J+
GW0720	REG	7/9/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_056	ND	0.05	0.15	1	mg/L	UJ
GW0721	REG	7/9/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_056	ND	0.05	0.15	1	mg/L	UJ
GW0722	REG	7/9/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_056	ND	0.05	0.15	1	mg/L	UJ
GW0723	REG	7/30/2012	Diesel Range Organics (C10-C28)	KIRTLAND_059	0.74	0.0962	0.385	1	mg/L	J+
GW0724	REG	7/30/2012	Diesel Range Organics (C10-C28)	KIRTLAND_059	2.06	0.0962	0.385	1	mg/L	J+
GW0725	FD	7/30/2012	Diesel Range Organics (C10-C28)	KIRTLAND_059	1.73	0.0943	0.377	1	mg/L	J+
GW0729	REG	7/10/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_056	ND	0.05	0.15	1	mg/L	UJ
Reason Code C Method SW8260B										
GW0632	REG	8/9/2012	4-Methyl-2-pentanone	KIRTLAND_060	53.5	12.5	50	10	ug/L	J+
GW0648	REG	8/13/2012	Bromomethane	KIRTLAND_061	ND	0.5	2	1	ug/L	UJ
GW0661	REG	7/31/2012	Bromomethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0661	REG	7/31/2012	Chloromethane	KIRTLAND_059	ND	0.25	1	1	ug/L	UJ
GW0661	REG	7/31/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0661	REG	7/31/2012	Methylene chloride	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0664	REG	7/24/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW0665	REG	7/24/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW0666	REG	7/24/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW0671	REG	7/23/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW0673	REG	7/23/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW0678	REG	7/31/2012	Bromomethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0678	REG	7/31/2012	Chloromethane	KIRTLAND_059	ND	0.25	1	1	ug/L	UJ
GW0678	REG	7/31/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0678	REG	7/31/2012	Methylene chloride	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0679	FD	7/31/2012	Bromomethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0679	FD	7/31/2012	Chloromethane	KIRTLAND_059	ND	0.25	1	1	ug/L	UJ
GW0679	FD	7/31/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0679	FD	7/31/2012	Methylene chloride	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code C	Method SW8260B									
GW0680	REG	7/31/2012	Bromomethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0680	REG	7/31/2012	Chloromethane	KIRTLAND_059	ND	0.25	1	1	ug/L	UJ
GW0680	REG	7/31/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0680	REG	7/31/2012	Methylene chloride	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0684	REG	7/25/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW0692	REG	7/25/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW0693	REG	7/25/2012	Hexachlorobutadiene	KIRTLAND_058	ND	5	40	20	ug/L	UJ
GW0697	REG	7/30/2012	Bromomethane	KIRTLAND_059	ND	2.5	10	5	ug/L	UJ
GW0697	REG	7/30/2012	Chloromethane	KIRTLAND_059	ND	1.25	5	5	ug/L	UJ
GW0697	REG	7/30/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	2.5	10	5	ug/L	UJ
GW0697	REG	7/30/2012	Methylene chloride	KIRTLAND_059	ND	2.5	10	5	ug/L	UJ
GW0698	REG	7/30/2012	Bromomethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0698	REG	7/30/2012	Chloromethane	KIRTLAND_059	ND	0.25	1	1	ug/L	UJ
GW0698	REG	7/30/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0698	REG	7/30/2012	Methylene chloride	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0703	REG	7/25/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW0719	REG	7/23/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW0723	REG	7/30/2012	Bromomethane	KIRTLAND_059	ND	2.5	10	5	ug/L	UJ
GW0723	REG	7/30/2012	Chloromethane	KIRTLAND_059	ND	1.25	5	5	ug/L	UJ
GW0723	REG	7/30/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	2.5	10	5	ug/L	UJ
GW0723	REG	7/30/2012	Methylene chloride	KIRTLAND_059	ND	2.5	10	5	ug/L	UJ
GW0724	REG	7/30/2012	Bromomethane	KIRTLAND_059	ND	2.5	10	5	ug/L	UJ
GW0724	REG	7/30/2012	Chloromethane	KIRTLAND_059	ND	1.25	5	5	ug/L	UJ
GW0724	REG	7/30/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	2.5	10	5	ug/L	UJ
GW0724	REG	7/30/2012	Methylene chloride	KIRTLAND_059	ND	2.5	10	5	ug/L	UJ
GW0725	FD	7/30/2012	Bromomethane	KIRTLAND_059	ND	2.5	10	5	ug/L	UJ
GW0725	FD	7/30/2012	Chloromethane	KIRTLAND_059	ND	1.25	5	5	ug/L	UJ
GW0725	FD	7/30/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	2.5	10	5	ug/L	UJ
GW0725	FD	7/30/2012	Methylene chloride	KIRTLAND_059	ND	2.5	10	5	ug/L	UJ
GW0726	REG	7/30/2012	Bromomethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code C		Method SW8260B								
GW0726	REG	7/30/2012	Chloromethane	KIRTLAND_059	ND	0.25	1	1	ug/L	UJ
GW0726	REG	7/30/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0726	REG	7/30/2012	Methylene chloride	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW0740	REG	7/24/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW0741	REG	7/24/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW0742	REG	7/24/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
Reason Code C		Method SW8270D								
GW0633	REG	8/8/2012	Benzoic acid	KIRTLAND_060	ND	12.3	98	1	ug/L	UJ
GW0634	FD	8/8/2012	Benzoic acid	KIRTLAND_060	ND	12	96.2	1	ug/L	UJ
GW0636	REG	8/8/2012	Benzoic acid	KIRTLAND_060	ND	12	96.2	1	ug/L	UJ
GW0638	REG	8/28/2012	Benzoic acid	KIRTLAND_062	ND	123	980	10	ug/L	UJ
GW0642	REG	8/7/2012	Benzoic acid	KIRTLAND_060	ND	12.3	98	1	ug/L	UJ
GW0672	REG	8/29/2012	Benzoic acid	KIRTLAND_062	ND	12.3	98	1	ug/L	UJ
GW0695	REG	8/8/2012	Benzoic acid	KIRTLAND_060	ND	12.3	98	1	ug/L	UJ
GW0696	REG	8/8/2012	Benzoic acid	KIRTLAND_060	ND	11.8	94.3	1	ug/L	UJ
GW0699	REG	8/28/2012	Benzoic acid	KIRTLAND_062	ND	12	96.2	1	ug/L	UJ
GW0709	REG	8/29/2012	Benzoic acid	KIRTLAND_062	ND	12	96.2	1	ug/L	UJ
GW0728	REG	8/28/2012	Benzoic acid	KIRTLAND_062	ND	11.8	94.3	1	ug/L	UJ
GW0731	REG	8/29/2012	Benzoic acid	KIRTLAND_062	ND	12	96.2	1	ug/L	UJ
Reason Code CM		Method SW8011								
GW0659	REG	7/12/2012	1,2-Dibromoethane	KIRTLAND_056	ND	0.00936	0.0281	1	ug/L	UJ
Reason Code CS		Method SW8015B								
GW0703	REG	7/25/2012	Gasoline Range Organics (C6-C10)	KIRTLAND_058	0.602	0.05	0.15	1	mg/L	J+
Reason Code CS		Method SW8270D								
GW0733	REG	8/7/2012	Benzoic acid	KIRTLAND_060	ND	12.3	98	1	ug/L	UJ
Reason Code CTr		Method SW6010B								
GW0690	REG	7/25/2012	Magnesium	KIRTLAND_058	4940	1000	5000	1	ug/L	J+
GW0691	FD	7/25/2012	Magnesium	KIRTLAND_058	4860	1000	5000	1	ug/L	J+
Reason Code CTr		Method SW6010B-DISS								
GW0723	REG	7/30/2012	Manganese	KIRTLAND_059	8.64	3	15	1	ug/L	J+

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code CTr		Method SW8015B								
GW0684	REG	7/25/2012	Diesel Range Organics (C10-C28)	KIRTLAND_058	0.178	0.0943	0.377	1	mg/L	J+
GW0741	REG	7/24/2012	Diesel Range Organics (C10-C28)	KIRTLAND_058	0.145	0.0943	0.377	1	mg/L	J+
Reason Code CTr		Method SW8260B								
GW0641	REG	8/9/2012	4-Methyl-2-pentanone	KIRTLAND_060	262	125	500	100	ug/L	J+
GW0693	REG	7/25/2012	4-Methyl-2-pentanone	KIRTLAND_058	51.4	25	100	20	ug/L	J+
GW0694	REG	8/8/2012	4-Methyl-2-pentanone	KIRTLAND_060	144	62.5	250	50	ug/L	J+
GW0717	REG	7/23/2012	Acetone	KIRTLAND_058	9.72	2.5	10	1	ug/L	J+
GW0718	REG	7/23/2012	Acetone	KIRTLAND_058	7.05	2.5	10	1	ug/L	J+
Reason Code D		Method SW8011								
GW0636	REG	8/8/2012	1,2-Dibromoethane	KIRTLAND_060	0.043	0.0095	0.0285	1	ug/L	J
GW0706	REG	8/6/2012	1,2-Dibromoethane	KIRTLAND_060	0.0679	0.00932	0.028	1	ug/L	J
GW0728	REG	8/28/2012	1,2-Dibromoethane	KIRTLAND_062	0.0509	0.00952	0.0286	1	ug/L	J
Reason Code H		Method SW8015B								
GW0694	REG	8/8/2012	Diesel Range Organics (C10-C28)	KIRTLAND_060	22.5	0.5	2	5	mg/L	J-
Reason Code K1		Method SW8015B								
GW0633	REG	8/8/2012	Diesel Range Organics (C10-C28)	KIRTLAND_060	1.07	0.098	0.392	1	mg/L	U
GW0634	FD	8/8/2012	Diesel Range Organics (C10-C28)	KIRTLAND_060	1.01	0.0926	0.37	1	mg/L	U
GW0636	REG	8/8/2012	Diesel Range Organics (C10-C28)	KIRTLAND_060	0.996	0.098	0.392	1	mg/L	U
Reason Code K1		Method SW8260B								
GW0633	REG	8/8/2012	1,2,4-Trimethylbenzene	KIRTLAND_060	ND	2.5	10	10	ug/L	U
GW0633	REG	8/8/2012	Acetone	KIRTLAND_060	ND	25	100	10	ug/L	U
GW0634	FD	8/8/2012	1,2,4-Trimethylbenzene	KIRTLAND_060	ND	2.5	10	10	ug/L	U
GW0634	FD	8/8/2012	1,3,5-Trimethylbenzene	KIRTLAND_060	ND	2.5	10	10	ug/L	U
GW0636	REG	8/8/2012	Acetone	KIRTLAND_060	ND	12.5	50	5	ug/L	U
Reason Code K1		Method SW8270D								
GW0633	REG	8/8/2012	1-Methylnaphthalene	KIRTLAND_060	ND	1.23	4.9	1	ug/L	U
GW0634	FD	8/8/2012	1-Methylnaphthalene	KIRTLAND_060	4.9	1.2	4.81	1	ug/L	U
GW0636	REG	8/8/2012	2-Methylnaphthalene	KIRTLAND_060	6.95	1.2	4.81	1	ug/L	U
Reason Code K3		Method SW8260B								
GW0699	REG	8/28/2012	Tetrachloroethene	KIRTLAND_062	ND	0.25	1	1	ug/L	U

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code L	Method SW8270D									
GW0624	REG	7/6/2012	Caprolactam	KIRTLAND_055	ND	1.25	5	1	ug/L	UJ
GW0625	FD	7/6/2012	Caprolactam	KIRTLAND_055	ND	1.18	4.72	1	ug/L	UJ
GW0626	REG	7/5/2012	Caprolactam	KIRTLAND_055	ND	1.2	4.81	1	ug/L	UJ
GW0627	REG	7/5/2012	Caprolactam	KIRTLAND_055	ND	1.23	4.9	1	ug/L	UJ
GW0631	REG	8/2/2012	Atrazine	KIRTLAND_059	ND	1.23	4.9	1	ug/L	UJ
GW0639	REG	8/2/2012	Atrazine	KIRTLAND_059	ND	1.23	4.9	1	ug/L	UJ
GW0649	REG	8/2/2012	Atrazine	KIRTLAND_059	ND	1.2	4.81	1	ug/L	UJ
GW0650	REG	8/2/2012	Atrazine	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0661	REG	7/31/2012	2-Chloronaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0661	REG	7/31/2012	2-Methylnaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0661	REG	7/31/2012	Dibenzofuran	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0661	REG	7/31/2012	Isophorone	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0662	REG	8/1/2012	Atrazine	KIRTLAND_059	ND	1.2	4.81	1	ug/L	UJ
GW0663	REG	8/1/2012	Atrazine	KIRTLAND_059	ND	1.2	4.81	1	ug/L	UJ
GW0674	REG	7/26/2012	2-Chloronaphthalene	KIRTLAND_058	ND	1.23	4.9	1	ug/L	UJ
GW0674	REG	7/26/2012	2-Methylnaphthalene	KIRTLAND_058	ND	1.23	4.9	1	ug/L	UJ
GW0674	REG	7/26/2012	Atrazine	KIRTLAND_058	ND	1.23	4.9	1	ug/L	UJ
GW0674	REG	7/26/2012	Dibenzofuran	KIRTLAND_058	ND	1.23	4.9	1	ug/L	UJ
GW0674	REG	7/26/2012	Isophorone	KIRTLAND_058	ND	1.23	4.9	1	ug/L	UJ
GW0675	REG	7/26/2012	2-Chloronaphthalene	KIRTLAND_058	ND	1.32	5.26	1	ug/L	UJ
GW0675	REG	7/26/2012	2-Methylnaphthalene	KIRTLAND_058	ND	1.32	5.26	1	ug/L	UJ
GW0675	REG	7/26/2012	Atrazine	KIRTLAND_058	ND	1.32	5.26	1	ug/L	UJ
GW0675	REG	7/26/2012	Dibenzofuran	KIRTLAND_058	ND	1.32	5.26	1	ug/L	UJ
GW0675	REG	7/26/2012	Isophorone	KIRTLAND_058	ND	1.32	5.26	1	ug/L	UJ
GW0676	REG	7/26/2012	2-Chloronaphthalene	KIRTLAND_058	ND	1.16	4.63	1	ug/L	UJ
GW0676	REG	7/26/2012	2-Methylnaphthalene	KIRTLAND_058	ND	1.16	4.63	1	ug/L	UJ
GW0676	REG	7/26/2012	Atrazine	KIRTLAND_058	ND	1.16	4.63	1	ug/L	UJ
GW0676	REG	7/26/2012	Dibenzofuran	KIRTLAND_058	ND	1.16	4.63	1	ug/L	UJ
GW0676	REG	7/26/2012	Isophorone	KIRTLAND_058	ND	1.16	4.63	1	ug/L	UJ
GW0677	REG	7/31/2012	Atrazine	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code L	Method SW8270D									
GW0678	REG	7/31/2012	2-Chloronaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0678	REG	7/31/2012	2-Methylnaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0678	REG	7/31/2012	Dibenzofuran	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0678	REG	7/31/2012	Isophorone	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0679	FD	7/31/2012	2-Chloronaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0679	FD	7/31/2012	2-Methylnaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0679	FD	7/31/2012	Dibenzofuran	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0679	FD	7/31/2012	Isophorone	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0680	REG	7/31/2012	2-Chloronaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0680	REG	7/31/2012	2-Methylnaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0680	REG	7/31/2012	Dibenzofuran	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0680	REG	7/31/2012	Isophorone	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0681	REG	7/26/2012	2-Chloronaphthalene	KIRTLAND_058	ND	1.2	4.81	1	ug/L	UJ
GW0681	REG	7/26/2012	2-Methylnaphthalene	KIRTLAND_058	ND	1.2	4.81	1	ug/L	UJ
GW0681	REG	7/26/2012	Atrazine	KIRTLAND_058	ND	1.2	4.81	1	ug/L	UJ
GW0681	REG	7/26/2012	Dibenzofuran	KIRTLAND_058	ND	1.2	4.81	1	ug/L	UJ
GW0681	REG	7/26/2012	Isophorone	KIRTLAND_058	ND	1.2	4.81	1	ug/L	UJ
GW0682	REG	7/26/2012	2-Chloronaphthalene	KIRTLAND_058	ND	1.25	5	1	ug/L	UJ
GW0682	REG	7/26/2012	2-Methylnaphthalene	KIRTLAND_058	ND	1.25	5	1	ug/L	UJ
GW0682	REG	7/26/2012	Atrazine	KIRTLAND_058	ND	1.25	5	1	ug/L	UJ
GW0682	REG	7/26/2012	Dibenzofuran	KIRTLAND_058	ND	1.25	5	1	ug/L	UJ
GW0682	REG	7/26/2012	Isophorone	KIRTLAND_058	ND	1.25	5	1	ug/L	UJ
GW0683	REG	7/25/2012	2-Chloronaphthalene	KIRTLAND_058	ND	1.23	4.9	1	ug/L	UJ
GW0683	REG	7/25/2012	2-Methylnaphthalene	KIRTLAND_058	ND	1.23	4.9	1	ug/L	UJ
GW0683	REG	7/25/2012	Atrazine	KIRTLAND_058	ND	1.23	4.9	1	ug/L	UJ
GW0683	REG	7/25/2012	Dibenzofuran	KIRTLAND_058	ND	1.23	4.9	1	ug/L	UJ
GW0683	REG	7/25/2012	Isophorone	KIRTLAND_058	ND	1.23	4.9	1	ug/L	UJ
GW0690	REG	7/25/2012	2-Chloronaphthalene	KIRTLAND_058	ND	1.24	4.95	1	ug/L	UJ
GW0690	REG	7/25/2012	2-Methylnaphthalene	KIRTLAND_058	ND	1.24	4.95	1	ug/L	UJ
GW0690	REG	7/25/2012	Atrazine	KIRTLAND_058	ND	1.24	4.95	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code L	Method SW8270D									
GW0690	REG	7/25/2012	Dibenzofuran	KIRTLAND_058	ND	1.24	4.95	1	ug/L	UJ
GW0690	REG	7/25/2012	Isophorone	KIRTLAND_058	ND	1.24	4.95	1	ug/L	UJ
GW0691	FD	7/25/2012	2-Chloronaphthalene	KIRTLAND_058	ND	1.25	5	1	ug/L	UJ
GW0691	FD	7/25/2012	2-Methylnaphthalene	KIRTLAND_058	ND	1.25	5	1	ug/L	UJ
GW0691	FD	7/25/2012	Atrazine	KIRTLAND_058	ND	1.25	5	1	ug/L	UJ
GW0691	FD	7/25/2012	Dibenzofuran	KIRTLAND_058	ND	1.25	5	1	ug/L	UJ
GW0691	FD	7/25/2012	Isophorone	KIRTLAND_058	ND	1.25	5	1	ug/L	UJ
GW0697	REG	7/30/2012	2-Chloronaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0697	REG	7/30/2012	2-Methylnaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0697	REG	7/30/2012	Dibenzofuran	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0697	REG	7/30/2012	Isophorone	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0698	REG	7/30/2012	2-Chloronaphthalene	KIRTLAND_059	ND	1.32	5.26	1	ug/L	UJ
GW0698	REG	7/30/2012	2-Methylnaphthalene	KIRTLAND_059	ND	1.32	5.26	1	ug/L	UJ
GW0698	REG	7/30/2012	Dibenzofuran	KIRTLAND_059	ND	1.32	5.26	1	ug/L	UJ
GW0698	REG	7/30/2012	Isophorone	KIRTLAND_059	ND	1.32	5.26	1	ug/L	UJ
GW0700	REG	7/25/2012	2-Chloronaphthalene	KIRTLAND_058	ND	1.32	5.26	1	ug/L	UJ
GW0700	REG	7/25/2012	2-Methylnaphthalene	KIRTLAND_058	ND	1.32	5.26	1	ug/L	UJ
GW0700	REG	7/25/2012	Atrazine	KIRTLAND_058	ND	1.32	5.26	1	ug/L	UJ
GW0700	REG	7/25/2012	Dibenzofuran	KIRTLAND_058	ND	1.32	5.26	1	ug/L	UJ
GW0700	REG	7/25/2012	Isophorone	KIRTLAND_058	ND	1.32	5.26	1	ug/L	UJ
GW0710	REG	8/1/2012	Atrazine	KIRTLAND_059	ND	1.18	4.72	1	ug/L	UJ
GW0711	REG	8/1/2012	Atrazine	KIRTLAND_059	ND	1.18	4.72	1	ug/L	UJ
GW0712	REG	8/1/2012	Atrazine	KIRTLAND_059	ND	1.23	4.9	1	ug/L	UJ
GW0723	REG	7/30/2012	2-Chloronaphthalene	KIRTLAND_059	ND	1.23	4.9	1	ug/L	UJ
GW0723	REG	7/30/2012	2-Methylnaphthalene	KIRTLAND_059	ND	1.23	4.9	1	ug/L	UJ
GW0723	REG	7/30/2012	Dibenzofuran	KIRTLAND_059	ND	1.23	4.9	1	ug/L	UJ
GW0723	REG	7/30/2012	Isophorone	KIRTLAND_059	ND	1.23	4.9	1	ug/L	UJ
GW0724	REG	7/30/2012	2-Chloronaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0724	REG	7/30/2012	2-Methylnaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0724	REG	7/30/2012	Dibenzofuran	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code L		Method SW8270D								
GW0724	REG	7/30/2012	Isophorone	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0725	FD	7/30/2012	2-Chloronaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0725	FD	7/30/2012	2-Methylnaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0725	FD	7/30/2012	Dibenzofuran	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0725	FD	7/30/2012	Isophorone	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0726	REG	7/30/2012	2-Chloronaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0726	REG	7/30/2012	2-Methylnaphthalene	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0726	REG	7/30/2012	Atrazine	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0726	REG	7/30/2012	Dibenzofuran	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
GW0726	REG	7/30/2012	Isophorone	KIRTLAND_059	ND	1.25	5	1	ug/L	UJ
Reason Code LM		Method SW8270D								
GW0628	REG	7/5/2012	Caprolactam	KIRTLAND_055	ND	1.18	4.72	1	ug/L	UJ
Reason Code M		Method SW8011								
GW0715	REG	7/9/2012	1,2-Dibromoethane	KIRTLAND_056	ND	0.00924	0.0277	1	ug/L	UJ
Reason Code M		Method SW8270D								
GW0693	REG	7/25/2012	2,4-Dimethylphenol	KIRTLAND_058	ND	4.81	19.2	1	ug/L	UJ
GW0693	REG	7/25/2012	3,3'-Dichlorobenzidine	KIRTLAND_058	ND	1.2	4.81	1	ug/L	UJ
Reason Code MS		Method SW8270D								
GW0659	REG	7/12/2012	2,4,5-Trichlorophenol	KIRTLAND_056	ND	1.16	4.63	1	ug/L	UJ
GW0659	REG	7/12/2012	2,4,6-Trichlorophenol	KIRTLAND_056	ND	1.16	4.63	1	ug/L	UJ
GW0659	REG	7/12/2012	4,6-Dinitro-2-methylphenol	KIRTLAND_056	ND	4.63	18.5	1	ug/L	UJ
GW0659	REG	7/12/2012	Pentachlorophenol	KIRTLAND_056	ND	4.63	18.5	1	ug/L	UJ
Reason Code S		Method SW8011								
GW0648	REG	8/13/2012	1,2-Dibromoethane	KIRTLAND_061	0.0376	0.00954	0.0286	1	ug/L	J+
Reason Code S		Method SW8015B								
GW0710	REG	8/1/2012	Diesel Range Organics (C10-C28)	KIRTLAND_059	76.5	1.96	7.84	20	mg/L	J+
Reason Code S		Method SW8270D								
GW0630	REG	7/11/2012	2,4,5-Trichlorophenol	KIRTLAND_056	ND	1.2	4.81	1	ug/L	UJ
GW0630	REG	7/11/2012	2,4,6-Trichlorophenol	KIRTLAND_056	ND	1.2	4.81	1	ug/L	UJ
GW0630	REG	7/11/2012	2,4-Dichlorophenol	KIRTLAND_056	ND	1.2	4.81	1	ug/L	UJ
GW0630	REG	7/11/2012	2,4-Dimethylphenol	KIRTLAND_056	ND	4.81	19.2	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code S	Method SW8270D									
GW0630	REG	7/11/2012	2,4-Dinitrophenol	KIRTLAND_056	ND	8.01	48.1	1	ug/L	UJ
GW0630	REG	7/11/2012	2-Chlorophenol	KIRTLAND_056	ND	1.2	4.81	1	ug/L	UJ
GW0630	REG	7/11/2012	2-Methylphenol	KIRTLAND_056	ND	1.2	4.81	1	ug/L	UJ
GW0630	REG	7/11/2012	2-Nitrophenol	KIRTLAND_056	ND	1.2	4.81	1	ug/L	UJ
GW0630	REG	7/11/2012	3-Methylphenol and 4-methylphenol	KIRTLAND_056	ND	1.2	4.81	1	ug/L	UJ
GW0630	REG	7/11/2012	4,6-Dinitro-2-methylphenol	KIRTLAND_056	ND	4.81	19.2	1	ug/L	UJ
GW0630	REG	7/11/2012	4-Chloro-3-methylphenol	KIRTLAND_056	ND	1.2	4.81	1	ug/L	UJ
GW0630	REG	7/11/2012	4-Nitrophenol	KIRTLAND_056	ND	4.81	19.2	1	ug/L	UJ
GW0630	REG	7/11/2012	Benzoic acid	KIRTLAND_056	ND	12	96.2	1	ug/L	UJ
GW0630	REG	7/11/2012	Pentachlorophenol	KIRTLAND_056	ND	4.81	19.2	1	ug/L	UJ
GW0630	REG	7/11/2012	Phenol	KIRTLAND_056	ND	1.2	4.81	1	ug/L	UJ
GW0658	REG	7/12/2012	2,4,5-Trichlorophenol	KIRTLAND_056	ND	1.18	4.72	1	ug/L	UJ
GW0658	REG	7/12/2012	2,4,6-Trichlorophenol	KIRTLAND_056	ND	1.18	4.72	1	ug/L	UJ
GW0658	REG	7/12/2012	2,4-Dichlorophenol	KIRTLAND_056	ND	1.18	4.72	1	ug/L	UJ
GW0658	REG	7/12/2012	2,4-Dimethylphenol	KIRTLAND_056	ND	4.72	18.9	1	ug/L	UJ
GW0658	REG	7/12/2012	2,4-Dinitrophenol	KIRTLAND_056	ND	7.86	47.2	1	ug/L	UJ
GW0658	REG	7/12/2012	2-Chlorophenol	KIRTLAND_056	ND	1.18	4.72	1	ug/L	UJ
GW0658	REG	7/12/2012	2-Methylphenol	KIRTLAND_056	ND	1.18	4.72	1	ug/L	UJ
GW0658	REG	7/12/2012	2-Nitrophenol	KIRTLAND_056	ND	1.18	4.72	1	ug/L	UJ
GW0658	REG	7/12/2012	3-Methylphenol and 4-methylphenol	KIRTLAND_056	ND	1.18	4.72	1	ug/L	UJ
GW0658	REG	7/12/2012	4,6-Dinitro-2-methylphenol	KIRTLAND_056	ND	4.72	18.9	1	ug/L	UJ
GW0658	REG	7/12/2012	4-Chloro-3-methylphenol	KIRTLAND_056	ND	1.18	4.72	1	ug/L	UJ
GW0658	REG	7/12/2012	4-Nitrophenol	KIRTLAND_056	ND	4.72	18.9	1	ug/L	UJ
GW0658	REG	7/12/2012	Benzoic acid	KIRTLAND_056	ND	11.8	94.3	1	ug/L	UJ
GW0658	REG	7/12/2012	Pentachlorophenol	KIRTLAND_056	ND	4.72	18.9	1	ug/L	UJ
GW0658	REG	7/12/2012	Phenol	KIRTLAND_056	ND	1.18	4.72	1	ug/L	UJ
GW0659	REG	7/12/2012	2,4-Dichlorophenol	KIRTLAND_056	ND	1.16	4.63	1	ug/L	UJ
GW0659	REG	7/12/2012	2,4-Dimethylphenol	KIRTLAND_056	ND	4.63	18.5	1	ug/L	UJ
GW0659	REG	7/12/2012	2,4-Dinitrophenol	KIRTLAND_056	ND	7.71	46.3	1	ug/L	UJ
GW0659	REG	7/12/2012	2-Chlorophenol	KIRTLAND_056	ND	1.16	4.63	1	ug/L	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Environmental Samples										
Reason Code S Method SW8270D										
GW0659	REG	7/12/2012	2-Methylphenol	KIRTLAND_056	ND	1.16	4.63	1	ug/L	UJ
GW0659	REG	7/12/2012	2-Nitrophenol	KIRTLAND_056	ND	1.16	4.63	1	ug/L	UJ
GW0659	REG	7/12/2012	3-Methylphenol and 4-methylphenol	KIRTLAND_056	ND	1.16	4.63	1	ug/L	UJ
GW0659	REG	7/12/2012	4-Chloro-3-methylphenol	KIRTLAND_056	ND	1.16	4.63	1	ug/L	UJ
GW0659	REG	7/12/2012	4-Nitrophenol	KIRTLAND_056	ND	4.63	18.5	1	ug/L	UJ
GW0659	REG	7/12/2012	Benzoic acid	KIRTLAND_056	ND	11.6	92.6	1	ug/L	UJ
GW0659	REG	7/12/2012	Phenol	KIRTLAND_056	ND	1.16	4.63	1	ug/L	UJ
GW0733	REG	8/7/2012	2,4,5-Trichlorophenol	KIRTLAND_060	ND	1.23	4.9	1	ug/L	UJ
GW0733	REG	8/7/2012	2,4,6-Trichlorophenol	KIRTLAND_060	ND	1.23	4.9	1	ug/L	UJ
GW0733	REG	8/7/2012	2,4-Dichlorophenol	KIRTLAND_060	ND	1.23	4.9	1	ug/L	UJ
GW0733	REG	8/7/2012	2,4-Dimethylphenol	KIRTLAND_060	ND	4.9	19.6	1	ug/L	UJ
GW0733	REG	8/7/2012	2,4-Dinitrophenol	KIRTLAND_060	ND	8.17	49	1	ug/L	UJ
GW0733	REG	8/7/2012	2-Chlorophenol	KIRTLAND_060	ND	1.23	4.9	1	ug/L	UJ
GW0733	REG	8/7/2012	2-Methylphenol	KIRTLAND_060	ND	1.23	4.9	1	ug/L	UJ
GW0733	REG	8/7/2012	2-Nitrophenol	KIRTLAND_060	ND	1.23	4.9	1	ug/L	UJ
GW0733	REG	8/7/2012	3-Methylphenol and 4-methylphenol	KIRTLAND_060	ND	1.23	4.9	1	ug/L	UJ
GW0733	REG	8/7/2012	4,6-Dinitro-2-methylphenol	KIRTLAND_060	ND	4.9	19.6	1	ug/L	UJ
GW0733	REG	8/7/2012	4-Chloro-3-methylphenol	KIRTLAND_060	ND	1.23	4.9	1	ug/L	UJ
GW0733	REG	8/7/2012	4-Nitrophenol	KIRTLAND_060	ND	4.9	19.6	1	ug/L	UJ
GW0733	REG	8/7/2012	Pentachlorophenol	KIRTLAND_060	ND	4.9	19.6	1	ug/L	UJ
GW0733	REG	8/7/2012	Phenol	KIRTLAND_060	ND	1.23	4.9	1	ug/L	UJ
Field QC Samples										
Reason Code C Method SW8260B										
GW8057-AB	AB	8/2/2012	Bromomethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW8057-AB	AB	8/2/2012	Chloromethane	KIRTLAND_059	ND	0.25	1	1	ug/L	UJ
GW8057-AB	AB	8/2/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW8057-AB	AB	8/2/2012	Methylene chloride	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW8058-AB	AB	8/2/2012	Bromomethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW8058-AB	AB	8/2/2012	Chloromethane	KIRTLAND_059	ND	0.25	1	1	ug/L	UJ
GW8058-AB	AB	8/2/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW8058-AB	AB	8/2/2012	Methylene chloride	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ

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

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Field QC Samples										
Reason Code C		Method SW8260B								
GW8216-TB	TB	7/23/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW8217-TB	TB	7/25/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW8218-TB	TB	7/26/2012	1,2,3-Trichlorobenzene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW8218-TB	TB	7/26/2012	1,2,4-Trichlorobenzene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW8218-TB	TB	7/26/2012	Acetone	KIRTLAND_058	ND	2.5	10	1	ug/L	UJ
GW8218-TB	TB	7/26/2012	Chloromethane	KIRTLAND_058	ND	0.25	1	1	ug/L	UJ
GW8218-TB	TB	7/26/2012	Hexachlorobutadiene	KIRTLAND_058	ND	0.25	2	1	ug/L	UJ
GW8218-TB	TB	7/26/2012	Methylene chloride	KIRTLAND_058	ND	0.5	2	1	ug/L	UJ
GW8219-TB	TB	7/30/2012	1,2,3-Trichlorobenzene	KIRTLAND_059	ND	0.25	2	1	ug/L	UJ
GW8219-TB	TB	7/30/2012	1,2,4-Trichlorobenzene	KIRTLAND_059	ND	0.25	2	1	ug/L	UJ
GW8219-TB	TB	7/30/2012	Acetone	KIRTLAND_059	ND	2.5	10	1	ug/L	UJ
GW8219-TB	TB	7/30/2012	Chloromethane	KIRTLAND_059	ND	0.25	1	1	ug/L	UJ
GW8219-TB	TB	7/30/2012	Hexachlorobutadiene	KIRTLAND_059	ND	0.25	2	1	ug/L	UJ
GW8219-TB	TB	7/30/2012	Methylene chloride	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW8220-TB	TB	8/1/2012	Bromomethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW8220-TB	TB	8/1/2012	Chloromethane	KIRTLAND_059	ND	0.25	1	1	ug/L	UJ
GW8220-TB	TB	8/1/2012	Dichlorodifluoromethane	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
GW8220-TB	TB	8/1/2012	Methylene chloride	KIRTLAND_059	ND	0.5	2	1	ug/L	UJ
Reason Code C		Method SW8270D								
GW8057-RB	ER	8/8/2012	Benzoic acid	KIRTLAND_060	ND	12.3	98	1	ug/L	UJ

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

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

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
GW8211-TB	TB	7/6/2012	SW8260B	Carbon disulfide	0.6	0.25	1	ug/L	J	Tr
GW0624	REG	7/6/2012	SW8260B	Carbon disulfide	ND	0.25	1	ug/L		
GW8216-TB	TB	7/23/2012	SW8260B	Methylene chloride	1.36	0.5	2	ug/L	J	Tr
GW0671	REG	7/23/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0673	REG	7/23/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0717	REG	7/23/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0718	REG	7/23/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0719	REG	7/23/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0664	REG	7/24/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0666	REG	7/24/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0742	REG	7/24/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW8221-TB	TB	8/6/2012	SW8260B	Methylene chloride	1.13	0.5	2	ug/L	J	Tr
GW0687	REG	8/6/2012	SW8260B	Methylene chloride	ND	100	400	ug/L		
GW0688	REG	8/6/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0689	REG	8/6/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0704	REG	8/6/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0705	REG	8/6/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0706	REG	8/6/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0707	REG	8/7/2012	SW8260B	Methylene chloride	ND	100	400	ug/L		
GW0734	REG	8/7/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0735	REG	8/7/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0736	FD	8/7/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW8221-TB	TB	8/6/2012	SW8260B	Tetrachloroethene	0.27	0.25	1	ug/L	J	Tr
GW0687	REG	8/6/2012	SW8260B	Tetrachloroethene	ND	50	200	ug/L		
GW0688	REG	8/6/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW0689	REG	8/6/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW0704	REG	8/6/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW0705	REG	8/6/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW0706	REG	8/6/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW0707	REG	8/7/2012	SW8260B	Tetrachloroethene	ND	50	200	ug/L		
GW0734	REG	8/7/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW0735	REG	8/7/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW0736	FD	8/7/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		

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

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
GW8222-TB	TB	8/8/2012	SW8260B	Methylene chloride	1.65	0.5	2	ug/L	J	Tr
GW0642	REG	8/7/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0733	REG	8/7/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0633	REG	8/8/2012	SW8260B	Methylene chloride	ND	5	20	ug/L		
GW0634	FD	8/8/2012	SW8260B	Methylene chloride	ND	5	20	ug/L		
GW0636	REG	8/8/2012	SW8260B	Methylene chloride	ND	2.5	10	ug/L		
GW0695	REG	8/8/2012	SW8260B	Methylene chloride	ND	2.5	10	ug/L		
GW0696	REG	8/8/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW8222-TB	TB	8/8/2012	SW8260B	Tetrachloroethene	0.25	0.25	1	ug/L	J	Tr
GW0642	REG	8/7/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW0733	REG	8/7/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW0633	REG	8/8/2012	SW8260B	Tetrachloroethene	ND	2.5	10	ug/L		
GW0634	FD	8/8/2012	SW8260B	Tetrachloroethene	ND	2.5	10	ug/L		
GW0636	REG	8/8/2012	SW8260B	Tetrachloroethene	ND	1.25	5	ug/L		
GW0695	REG	8/8/2012	SW8260B	Tetrachloroethene	ND	1.25	5	ug/L		
GW0696	REG	8/8/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW8223-TB	TB	8/9/2012	SW8260B	Methylene chloride	1.39	0.5	2	ug/L	J	Tr
GW0694	REG	8/8/2012	SW8260B	Methylene chloride	ND	25	100	ug/L		
GW0632	REG	8/9/2012	SW8260B	Methylene chloride	ND	5	20	ug/L		
GW0637	REG	8/9/2012	SW8260B	Methylene chloride	ND	50	200	ug/L		
GW0641	REG	8/9/2012	SW8260B	Methylene chloride	ND	50	200	ug/L		
GW0708	REG	8/9/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW8223-TB	TB	8/9/2012	SW8260B	Tetrachloroethene	0.27	0.25	1	ug/L	J	Tr
GW0694	REG	8/8/2012	SW8260B	Tetrachloroethene	ND	12.5	50	ug/L		
GW0632	REG	8/9/2012	SW8260B	Tetrachloroethene	ND	2.5	10	ug/L		
GW0637	REG	8/9/2012	SW8260B	Tetrachloroethene	ND	25	100	ug/L		
GW0641	REG	8/9/2012	SW8260B	Tetrachloroethene	ND	25	100	ug/L		
GW0708	REG	8/9/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW8224-TB	TB	8/13/2012	SW8260B	Methylene chloride	1.75	0.5	2	ug/L	J	Tr
GW0648	REG	8/13/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW8224-TB	TB	8/13/2012	SW8260B	Tetrachloroethene	0.31	0.25	1	ug/L	J	Tr
GW0648	REG	8/13/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		

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

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
GW8225-TB	TB	8/28/2012	SW8260B	Methylene chloride	1.38	0.5	2	ug/L	J	Tr
GW0638	REG	8/28/2012	SW8260B	Methylene chloride	ND	25	100	ug/L		
GW0699	REG	8/28/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0728	REG	8/28/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0672	REG	8/29/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0709	REG	8/29/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW0731	REG	8/29/2012	SW8260B	Methylene chloride	ND	0.5	2	ug/L		
GW8225-TB	TB	8/28/2012	SW8260B	Tetrachloroethene	0.27	0.25	1	ug/L	J	Tr
GW0638	REG	8/28/2012	SW8260B	Tetrachloroethene	ND	12.5	50	ug/L		
GW0699	REG	8/28/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L	U	K3
GW0728	REG	8/28/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW0672	REG	8/29/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW0709	REG	8/29/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		
GW0731	REG	8/29/2012	SW8260B	Tetrachloroethene	ND	0.25	1	ug/L		

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

DL Detection Limit
 FD Field Duplicate sample
 LOQ Limit of Quantitation
 ND Not Detected at the LOQ
 REG Normal sample sent to the lab
 TB Trip Blank
 ug/L micrograms per liter

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Appendix B1 - Table 5
Detected Equipment Blank Results and Associated Sample Results
Groundwater Monitoring Event, Third Quarter 2012
Kirtland Air Force Base

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
GW8056-RB	ER	8/7/2012	SW8260B	Acetone	42.2	2.5	10	ug/L		
GW0642	REG	8/7/2012	SW8260B	Acetone	ND	2.5	10	ug/L		
GW0707	REG	8/7/2012	SW8260B	Acetone	15900	500	2000	ug/L		
GW8056-RB	ER	8/7/2012	SW8260B	Chloroform	0.81	0.25	1	ug/L	J	Tr
GW0642	REG	8/7/2012	SW8260B	Chloroform	ND	0.25	1	ug/L		
GW0707	REG	8/7/2012	SW8260B	Chloroform	ND	50	200	ug/L		
GW8056-RB	ER	8/7/2012	SW8260B	Chloromethane	0.45	0.25	1	ug/L	J	Tr
GW0642	REG	8/7/2012	SW8260B	Chloromethane	ND	0.25	1	ug/L		
GW0707	REG	8/7/2012	SW8260B	Chloromethane	ND	50	200	ug/L		
GW8056-RB	ER	8/7/2012	SW8270D	Bis(2-ethylhexyl)phthalate	7.86	1.23	4.9	ug/L		
GW0642	REG	8/7/2012	SW8270D	Bis(2-ethylhexyl)phthalate	ND	1.23	4.9	ug/L		
GW0707	REG	8/7/2012	SW8270D	Bis(2-ethylhexyl)phthalate	ND	117	467	ug/L		
GW8057-RB	ER	8/8/2012	SW8015B	Diesel Range Organics (C10-C28)	0.466	0.1	0.4	mg/L		
GW0633	REG	8/8/2012	SW8015B	Diesel Range Organics (C10-C28)	1.07	0.098	0.392	mg/L	U	K1
GW0634	FD	8/8/2012	SW8015B	Diesel Range Organics (C10-C28)	1.01	0.0926	0.37	mg/L	U	K1
GW0636	REG	8/8/2012	SW8015B	Diesel Range Organics (C10-C28)	0.996	0.098	0.392	mg/L	U	K1
GW8057-RB	ER	8/8/2012	SW8260B	1,2,4-Trimethylbenzene	1.73	0.25	1	ug/L		
GW0633	REG	8/8/2012	SW8260B	1,2,4-Trimethylbenzene	ND	2.5	10	ug/L	U	K1
GW0634	FD	8/8/2012	SW8260B	1,2,4-Trimethylbenzene	ND	2.5	10	ug/L	U	K1
GW0636	REG	8/8/2012	SW8260B	1,2,4-Trimethylbenzene	35.1	1.25	5	ug/L		
GW8057-RB	ER	8/8/2012	SW8260B	1,3,5-Trimethylbenzene	0.66	0.25	1	ug/L	J	Tr
GW0633	REG	8/8/2012	SW8260B	1,3,5-Trimethylbenzene	ND	2.5	10	ug/L		
GW0634	FD	8/8/2012	SW8260B	1,3,5-Trimethylbenzene	ND	2.5	10	ug/L	U	K1
GW0636	REG	8/8/2012	SW8260B	1,3,5-Trimethylbenzene	15.6	1.25	5	ug/L		
GW8057-RB	ER	8/8/2012	SW8260B	Acetone	8.19	2.5	10	ug/L	J	Tr
GW0633	REG	8/8/2012	SW8260B	Acetone	ND	25	100	ug/L	U	K1
GW0634	FD	8/8/2012	SW8260B	Acetone	118	25	100	ug/L		
GW0636	REG	8/8/2012	SW8260B	Acetone	ND	12.5	50	ug/L	U	K1
GW8057-RB	ER	8/8/2012	SW8260B	Benzene	0.86	0.25	1	ug/L	J	Tr
GW0633	REG	8/8/2012	SW8260B	Benzene	758	2.5	10	ug/L		
GW0634	FD	8/8/2012	SW8260B	Benzene	828	2.5	10	ug/L		
GW0636	REG	8/8/2012	SW8260B	Benzene	50.1	1.25	5	ug/L		
GW8057-RB	ER	8/8/2012	SW8260B	Bromodichloromethane	0.87	0.25	1	ug/L	J	Tr
GW0633	REG	8/8/2012	SW8260B	Bromodichloromethane	ND	2.5	10	ug/L		
GW0634	FD	8/8/2012	SW8260B	Bromodichloromethane	ND	2.5	10	ug/L		
GW0636	REG	8/8/2012	SW8260B	Bromodichloromethane	ND	1.25	5	ug/L		

Appendix B1 - Table 5
Detected Equipment Blank Results and Associated Sample Results
Groundwater Monitoring Event, Third Quarter 2012
Kirtland Air Force Base

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
GW8057-RB	ER	8/8/2012	SW8260B	Chloroform	5.35	0.25	1	ug/L		
GW0633	REG	8/8/2012	SW8260B	Chloroform	ND	2.5	10	ug/L		
GW0634	FD	8/8/2012	SW8260B	Chloroform	ND	2.5	10	ug/L		
GW0636	REG	8/8/2012	SW8260B	Chloroform	ND	1.25	5	ug/L		
GW8057-RB	ER	8/8/2012	SW8260B	Chloromethane	0.49	0.25	1	ug/L	J	Tr
GW0633	REG	8/8/2012	SW8260B	Chloromethane	ND	2.5	10	ug/L		
GW0634	FD	8/8/2012	SW8260B	Chloromethane	ND	2.5	10	ug/L		
GW0636	REG	8/8/2012	SW8260B	Chloromethane	ND	1.25	5	ug/L		
GW8057-RB	ER	8/8/2012	SW8260B	Dibromochloromethane	0.64	0.25	1	ug/L	J	Tr
GW0633	REG	8/8/2012	SW8260B	Dibromochloromethane	ND	2.5	10	ug/L		
GW0634	FD	8/8/2012	SW8260B	Dibromochloromethane	ND	2.5	10	ug/L		
GW0636	REG	8/8/2012	SW8260B	Dibromochloromethane	ND	1.25	5	ug/L		
GW8057-RB	ER	8/8/2012	SW8260B	Ethylbenzene	1.25	0.25	1	ug/L		
GW0633	REG	8/8/2012	SW8260B	Ethylbenzene	78.6	2.5	10	ug/L		
GW0634	FD	8/8/2012	SW8260B	Ethylbenzene	84.5	2.5	10	ug/L		
GW0636	REG	8/8/2012	SW8260B	Ethylbenzene	117	1.25	5	ug/L		
GW8057-RB	ER	8/8/2012	SW8260B	Naphthalene	1.52	0.25	2	ug/L	J	Tr
GW0633	REG	8/8/2012	SW8260B	Naphthalene	11	2.5	20	ug/L	J	Tr
GW0634	FD	8/8/2012	SW8260B	Naphthalene	10.6	2.5	20	ug/L	J	Tr
GW0636	REG	8/8/2012	SW8260B	Naphthalene	16.1	1.25	10	ug/L		
GW8057-RB	ER	8/8/2012	SW8260B	n-Butylbenzene	0.4	0.25	1	ug/L	J	Tr
GW0633	REG	8/8/2012	SW8260B	n-Butylbenzene	ND	2.5	10	ug/L		
GW0634	FD	8/8/2012	SW8260B	n-Butylbenzene	ND	2.5	10	ug/L		
GW0636	REG	8/8/2012	SW8260B	n-Butylbenzene	2.65	1.25	5	ug/L	J	Tr
GW8057-RB	ER	8/8/2012	SW8260B	n-Propylbenzene	0.41	0.25	1	ug/L	J	Tr
GW0633	REG	8/8/2012	SW8260B	n-Propylbenzene	4.5	2.5	10	ug/L	J	Tr
GW0634	FD	8/8/2012	SW8260B	n-Propylbenzene	4.7	2.5	10	ug/L	J	Tr
GW0636	REG	8/8/2012	SW8260B	n-Propylbenzene	14.2	1.25	5	ug/L		
GW8057-RB	ER	8/8/2012	SW8260B	Toluene	6.43	0.25	1	ug/L		
GW0633	REG	8/8/2012	SW8260B	Toluene	272	2.5	10	ug/L		
GW0634	FD	8/8/2012	SW8260B	Toluene	284	2.5	10	ug/L		
GW0636	REG	8/8/2012	SW8260B	Toluene	99.4	1.25	5	ug/L		
GW8057-RB	ER	8/8/2012	SW8260B	Xylenes (total)	5.63	0.75	3	ug/L		
GW0633	REG	8/8/2012	SW8260B	Xylenes (total)	59	7.5	30	ug/L		
GW0634	FD	8/8/2012	SW8260B	Xylenes (total)	64.5	7.5	30	ug/L		
GW0636	REG	8/8/2012	SW8260B	Xylenes (total)	167	3.75	15	ug/L		

Appendix B1 - Table 5
Detected Equipment Blank Results and Associated Sample Results
Groundwater Monitoring Event, Third Quarter 2012
Kirtland Air Force Base

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
GW8057-RB	ER	8/8/2012	SW8270D	1-Methylnaphthalene	1.43	1.23	4.9	ug/L	J	Tr
GW0633	REG	8/8/2012	SW8270D	1-Methylnaphthalene	ND	1.23	4.9	ug/L	U	K1
GW0634	FD	8/8/2012	SW8270D	1-Methylnaphthalene	4.9	1.2	4.81	ug/L	U	K1
GW0636	REG	8/8/2012	SW8270D	1-Methylnaphthalene	8.57	1.2	4.81	ug/L		
GW8057-RB	ER	8/8/2012	SW8270D	2-Methylnaphthalene	1.8	1.23	4.9	ug/L	J	Tr
GW0633	REG	8/8/2012	SW8270D	2-Methylnaphthalene	ND	1.23	4.9	ug/L		
GW0634	FD	8/8/2012	SW8270D	2-Methylnaphthalene	ND	1.2	4.81	ug/L		
GW0636	REG	8/8/2012	SW8270D	2-Methylnaphthalene	6.95	1.2	4.81	ug/L	U	K1
GW8057-RB	ER	8/8/2012	SW8270D	Bis(2-ethylhexyl)phthalate	9.2	1.23	4.9	ug/L		
GW0633	REG	8/8/2012	SW8270D	Bis(2-ethylhexyl)phthalate	ND	1.23	4.9	ug/L		
GW0634	FD	8/8/2012	SW8270D	Bis(2-ethylhexyl)phthalate	ND	1.2	4.81	ug/L		
GW0636	REG	8/8/2012	SW8270D	Bis(2-ethylhexyl)phthalate	ND	1.2	4.81	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
mg/L milligrams per liter
ND Not Detected at the LOQ
REG Normal sample sent to the lab
µg/L micrograms per liter

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Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Third 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
KAFB-003									
E300.0	Chloride	7/6/2012	25.3	0.5	25.3	0.5	mg/L	0	Yes
	Sulfate as SO4		36.3	2.5	36.5	2.5	mg/L	0.5	Yes
E353.2	Nitrate/Nitrite as N		0.52 J	1.5	0.571 J	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		103	1	100	1	mg/L	3	Yes
	Alkalinity, Carbonate (as CaCO3)		ND	1	ND	1	mg/L	--	--
SM4500NH3BG	Ammonia as N		ND	0.3	0.139 J	0.3	mg/L	--	--
SM4500S2CF	Sulfide		ND	3.7	0.741 J	3.7	mg/L	--	--
SW6010B	Calcium		46200	5000	48200	5000	ug/L	4.2	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		5800	5000	6070	5000	ug/L	4.5	Yes
	Potassium		2270 J	5000	2400 J	5000	ug/L	--	--
	Sodium		23400	5000	24500	5000	ug/L	4.6	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0281	ND	0.0281	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	--	--
	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	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Third 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
KAFB-003									
SW8260B	2,2-Dichloropropane	7/6/2012	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	--	--
	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	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Third 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
KAFB-003									
SW8260B	Toluene	7/6/2012	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	4.72	ug/L	--	--
	1,2-Diphenylhydrazine		ND	5	ND	4.72	ug/L	--	--
	1-Methylnaphthalene		ND	5	ND	4.72	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	5	ND	4.72	ug/L	--	--
	2,4,5-Trichlorophenol		ND	5	ND	4.72	ug/L	--	--
	2,4,6-Trichlorophenol		ND	5	ND	4.72	ug/L	--	--
	2,4-Dichlorophenol		ND	5	ND	4.72	ug/L	--	--
	2,4-Dimethylphenol		ND	20	ND	18.9	ug/L	--	--
	2,4-Dinitrophenol		ND	50	ND	47.2	ug/L	--	--
	2,4-Dinitrotoluene		ND	5	ND	4.72	ug/L	--	--
	2,6-Dinitrotoluene		ND	5	ND	4.72	ug/L	--	--
	2-Chloronaphthalene		ND	5	ND	4.72	ug/L	--	--
	2-Chlorophenol		ND	5	ND	4.72	ug/L	--	--
	2-Methylnaphthalene		ND	5	ND	4.72	ug/L	--	--
	2-Methylphenol		ND	5	ND	4.72	ug/L	--	--
	2-Nitroaniline		ND	20	ND	18.9	ug/L	--	--
	2-Nitrophenol		ND	5	ND	4.72	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	5	ND	4.72	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	5	ND	4.72	ug/L	--	--
	3-Nitroaniline		ND	20	ND	18.9	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	20	ND	18.9	ug/L	--	--
	4-Bromophenyl-phenylether		ND	5	ND	4.72	ug/L	--	--
	4-Chloro-3-methylphenol		ND	5	ND	4.72	ug/L	--	--
	4-Chloroaniline		ND	5	ND	4.72	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	5	ND	4.72	ug/L	--	--
	4-Nitroaniline		ND	20	ND	18.9	ug/L	--	--
	4-Nitrophenol		ND	20	ND	18.9	ug/L	--	--
	Acenaphthene		ND	5	ND	4.72	ug/L	--	--
	Acenaphthylene		ND	5	ND	4.72	ug/L	--	--
	Acetophenone		ND	5	ND	4.72	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Third 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
KAFB-003									
SW8270D	Anthracene	7/6/2012	ND	5	ND	4.72	ug/L	--	--
	Atrazine		ND	5	ND	4.72	ug/L	--	--
	Benzaldehyde		ND	5	ND	4.72	ug/L	--	--
	Benzidine		ND	100	ND	94.3	ug/L	--	--
	Benzo(a)anthracene		ND	5	ND	4.72	ug/L	--	--
	Benzo(a)pyrene		ND	5	ND	4.72	ug/L	--	--
	Benzo(b)fluoranthene		ND	5	ND	4.72	ug/L	--	--
	Benzo(g,h,i)perylene		ND	5	ND	4.72	ug/L	--	--
	Benzo(k)fluoranthene		ND	5	ND	4.72	ug/L	--	--
	Benzoic acid		ND	100	ND	94.3	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	5	ND	4.72	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	5	ND	4.72	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	5	ND	4.72	ug/L	--	--
	Butylbenzylphthalate		ND	5	ND	4.72	ug/L	--	--
	Caprolactam		ND	5	ND	4.72	ug/L	--	--
	Carbazole		ND	5	ND	4.72	ug/L	--	--
	Chrysene		ND	5	ND	4.72	ug/L	--	--
	Dibenz(a,h)anthracene		ND	5	ND	4.72	ug/L	--	--
	Dibenzofuran		ND	5	ND	4.72	ug/L	--	--
	Diethylphthalate		ND	5	ND	4.72	ug/L	--	--
	Dimethyl phthalate		ND	5	ND	4.72	ug/L	--	--
	Di-n-butylphthalate		ND	5	ND	4.72	ug/L	--	--
	Di-n-octylphthalate		ND	5	ND	4.72	ug/L	--	--
	Fluoranthene		ND	5	ND	4.72	ug/L	--	--
	Fluorene		ND	5	ND	4.72	ug/L	--	--
	Hexachlorobenzene		ND	5	ND	4.72	ug/L	--	--
	Hexachlorobutadiene		ND	5	ND	4.72	ug/L	--	--
	Hexachlorocyclopentadiene		ND	10	ND	9.43	ug/L	--	--
	Hexachloroethane		ND	5	ND	4.72	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	5	ND	4.72	ug/L	--	--
	Isophorone		ND	5	ND	4.72	ug/L	--	--
	Naphthalene		ND	5	ND	4.72	ug/L	--	--
	Nitrobenzene		ND	5	ND	4.72	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	5	ND	4.72	ug/L	--	--
	N-Nitrosodiphenylamine		ND	5	ND	4.72	ug/L	--	--
	Pentachlorophenol		ND	20	ND	18.9	ug/L	--	--
	Phenanthrene		ND	5	ND	4.72	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Third 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
KAFB-003									
SW8270D	Phenol	7/6/2012	ND	5	ND	4.72	ug/L	--	--
	Pyrene		ND	5	ND	4.72	ug/L	--	--
KAFB-106006									
E300.0	Chloride	8/8/2012	11.8	0.5	11.8	0.5	mg/L	0	Yes
	Sulfate as SO4		23.9	2.5	24	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)		161	1	157	1	mg/L	2.5	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		0.811 J	3.39	1.08 J	3.39	mg/L	--	--
SW6010B	Calcium		51200	5000	51600	5000	ug/L	0.8	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		7340	5000	7380	5000	ug/L	0.5	Yes
	Potassium		2560 J	5000	2590 J	5000	ug/L	--	--
	Sodium		27600	5000	27800	5000	ug/L	0.7	Yes
SW6010B-DISS	Iron		137	100	139	100	ug/L	1.4	Yes
	Manganese		384	15	382	15	ug/L	0.5	Yes
SW8011	1,2-Dibromoethane		1.47	0.143	1.44	0.142	ug/L	2.1	Yes
SW8015B	Diesel Range Organics (C10-C28)		1.07 U	0.392	1.01 U	0.37	mg/L	--	--
	Gasoline Range Organics (C6-C10)		2.58	0.15	2.8	0.15	mg/L	8.2	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		ND	10	ND	10	ug/L	--	--
	1,2-Dibromo-3-chloropropane		ND	20	ND	20	ug/L	--	--
	1,2-Dibromoethane (EDB)		ND	10	ND	10	ug/L	--	--
	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		ND	10	ND	10	ug/L	--	--
	1,3-Dichlorobenzene		ND	10	ND	10	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Third 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
KAFB-106006									
SW8260B	1,3-Dichloropropane	8/8/2012	ND	10	ND	10	ug/L	--	--
	1,4-Dichlorobenzene		ND	10	ND	10	ug/L	--	--
	2,2-Dichloropropane		ND	10	ND	10	ug/L	--	--
	2-Butanone		ND	100	ND	100	ug/L	--	--
	2-Chlorotoluene		ND	10	ND	10	ug/L	--	--
	2-Hexanone		ND	50	ND	50	ug/L	--	--
	4-Chlorotoluene		ND	10	ND	10	ug/L	--	--
	4-Methyl-2-pentanone		ND	50	ND	50	ug/L	--	--
	Acetone		ND	100	118	100	ug/L	--	--
	Benzene		758	10	828	10	ug/L	8.8	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		78.6	10	84.5	10	ug/L	7.2	Yes
	Hexachlorobutadiene		ND	20	ND	20	ug/L	--	--
	Isopropylbenzene		5.7 J	10	6.7 J	10	ug/L	--	--
	Methyl t-Butyl Ether		ND	10	ND	10	ug/L	--	--
	Methylene chloride		ND	20	ND	20	ug/L	--	--
	Naphthalene		11 J	20	10.6 J	20	ug/L	--	--
	n-Butylbenzene		ND	10	ND	10	ug/L	--	--
	n-Propylbenzene		4.5 J	10	4.7 J	10	ug/L	--	--
	p-Isopropyltoluene		ND	10	ND	10	ug/L	--	--
	sec-Butylbenzene		ND	10	ND	10	ug/L	--	--
	Styrene		ND	10	ND	10	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Third Quarter 2012
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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
KAFB-106006									
SW8260B	tert-Butylbenzene	8/8/2012	ND	10	ND	10	ug/L	--	--
	Tetrachloroethene		ND	10	ND	10	ug/L	--	--
	Toluene		272	10	284	10	ug/L	4.3	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)		59	30	64.5	30	ug/L	8.9	Yes
SW8270D	1,1-Biphenyl		ND	4.9	ND	4.81	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.9	ND	4.81	ug/L	--	--
	1-Methylnaphthalene		ND	4.9	4.9 U	4.81	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.9	ND	4.81	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.9	ND	4.81	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.9	ND	4.81	ug/L	--	--
	2,4-Dichlorophenol		ND	4.9	ND	4.81	ug/L	--	--
	2,4-Dimethylphenol		ND	19.6	ND	19.2	ug/L	--	--
	2,4-Dinitrophenol		ND	49	ND	48.1	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.9	ND	4.81	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.9	ND	4.81	ug/L	--	--
	2-Chloronaphthalene		ND	4.9	ND	4.81	ug/L	--	--
	2-Chlorophenol		ND	4.9	ND	4.81	ug/L	--	--
	2-Methylnaphthalene		ND	4.9	ND	4.81	ug/L	--	--
	2-Methylphenol		ND	4.9	ND	4.81	ug/L	--	--
	2-Nitroaniline		ND	19.6	ND	19.2	ug/L	--	--
	2-Nitrophenol		ND	4.9	ND	4.81	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.9	ND	4.81	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.9	ND	4.81	ug/L	--	--
	3-Nitroaniline		ND	19.6	ND	19.2	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	19.6	ND	19.2	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.9	ND	4.81	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.9	ND	4.81	ug/L	--	--
	4-Chloroaniline		ND	4.9	ND	4.81	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.9	ND	4.81	ug/L	--	--
	4-Nitroaniline		ND	19.6	ND	19.2	ug/L	--	--
	4-Nitrophenol		ND	19.6	ND	19.2	ug/L	--	--
	Acenaphthene		ND	4.9	ND	4.81	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Third Quarter 2012
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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
KAFB-106006									
SW8270D	Acenaphthylene	8/8/2012	ND	4.9	ND	4.81	ug/L	--	--
	Acetophenone		13.3	4.9	11.6	4.81	ug/L	13.7	Yes
	Anthracene		ND	4.9	ND	4.81	ug/L	--	--
	Atrazine		ND	4.9	ND	4.81	ug/L	--	--
	Benzaldehyde		ND	4.9	ND	4.81	ug/L	--	--
	Benzidine		ND	98	ND	96.2	ug/L	--	--
	Benzo(a)anthracene		ND	4.9	ND	4.81	ug/L	--	--
	Benzo(a)pyrene		ND	4.9	ND	4.81	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.9	ND	4.81	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.9	ND	4.81	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.9	ND	4.81	ug/L	--	--
	Benzoic acid		ND	98	ND	96.2	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.9	ND	4.81	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.9	ND	4.81	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.9	ND	4.81	ug/L	--	--
	Butylbenzylphthalate		ND	4.9	ND	4.81	ug/L	--	--
	Caprolactam		ND	4.9	ND	4.81	ug/L	--	--
	Carbazole		ND	4.9	ND	4.81	ug/L	--	--
	Chrysene		ND	4.9	ND	4.81	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.9	ND	4.81	ug/L	--	--
	Dibenzofuran		ND	4.9	ND	4.81	ug/L	--	--
	Diethylphthalate		ND	4.9	ND	4.81	ug/L	--	--
	Dimethyl phthalate		ND	4.9	ND	4.81	ug/L	--	--
	Di-n-butylphthalate		ND	4.9	ND	4.81	ug/L	--	--
	Di-n-octylphthalate		ND	4.9	ND	4.81	ug/L	--	--
	Fluoranthene		ND	4.9	ND	4.81	ug/L	--	--
	Fluorene		ND	4.9	ND	4.81	ug/L	--	--
	Hexachlorobenzene		ND	4.9	ND	4.81	ug/L	--	--
	Hexachlorobutadiene		ND	4.9	ND	4.81	ug/L	--	--
	Hexachlorocyclopentadiene		ND	9.8	ND	9.62	ug/L	--	--
	Hexachloroethane		ND	4.9	ND	4.81	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.9	ND	4.81	ug/L	--	--
	Isophorone		ND	4.9	ND	4.81	ug/L	--	--
	Naphthalene		4.26 J	4.9	3.83 J	4.81	ug/L	--	--
	Nitrobenzene		ND	4.9	ND	4.81	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.9	ND	4.81	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.9	ND	4.81	ug/L	--	--

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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
KAFB-106006									
SW8270D	Pentachlorophenol	8/8/2012	ND	19.6	ND	19.2	ug/L	--	--
	Phenanthrene		ND	4.9	ND	4.81	ug/L	--	--
	Phenol		1.93 J	4.9	1.75 J	4.81	ug/L	--	--
	Pyrene		ND	4.9	ND	4.81	ug/L	--	--
KAFB-106018									
E300.0	Chloride	7/12/2012	12.7	0.5	12.7	0.5	mg/L	0	Yes
	Sulfate as SO4		33.1	2.5	33.1	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)		115	1	116	1	mg/L	0.9	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		0.678 J	3.39	ND	3.7	mg/L	--	--
SW6010B	Calcium		39700	5000	39900	5000	ug/L	0.5	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		5790	5000	5840	5000	ug/L	0.9	Yes
	Potassium		2220 J	5000	2250 J	5000	ug/L	--	--
	Sodium		23800	5000	23700	5000	ug/L	0.4	Yes
SW6010B-DISS	Iron		199	100	200	100	ug/L	0.5	Yes
	Manganese		813	15	811	15	ug/L	0.2	Yes
SW8011	1,2-Dibromoethane		0.325	0.0279	0.207	0.0281	ug/L	44.4	No
SW8015B	Diesel Range Organics (C10-C28)		0.966	0.385	0.903	0.385	mg/L	6.7	Yes
	Gasoline Range Organics (C6-C10)		0.339	0.15	0.301	0.15	mg/L	11.9	Yes
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		0.61 J	1	0.53 J	1	ug/L	--	--
	1,2-Dichloropropane		ND	1	ND	1	ug/L	--	--

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Field Duplicate Summary
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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
KAFB-106018									
SW8260B	1,3,5-Trimethylbenzene	7/12/2012	0.3 J	1	0.33 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		0.47 J	1	0.47 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		0.35 J	1	0.32 J	1	ug/L	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		4.16	1	3.86	1	ug/L	7.5	Yes
	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		0.26 J	1	0.26 J	1	ug/L	--	--
	n-Propylbenzene		0.92 J	1	0.95 J	1	ug/L	--	--
	p-Isopropyltoluene		ND	1	ND	1	ug/L	--	--

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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
KAFB-106018									
SW8260B	sec-Butylbenzene	7/12/2012	0.41 J	1	0.41 J	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	--	--

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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
KAFB-106018									
SW8270D	4-Nitrophenol	7/12/2012	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		1.35 J	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	--	--

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Field Duplicate Summary
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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
KAFB-106018									
SW8270D	N-Nitroso-di-n-propylamine	7/12/2012	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	--	--
KAFB-106031									
E300.0	Chloride	7/18/2012	48.7	0.5	48.7	0.5	mg/L	0	Yes
	Sulfate as SO4		63.4	2.5	63.5	2.5	mg/L	0.2	Yes
E353.2	Nitrate/Nitrite as N		1.63	1.5	1.69	1.5	mg/L	3.6	Yes
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		88.6	1	87.8	1	mg/L	0.9	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		1.04 J	3.7	ND	3.7	mg/L	--	--
SW6010B	Calcium		57500	5000	58400	5000	ug/L	1.6	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		7860	5000	7960	5000	ug/L	1.3	Yes
	Potassium		2600 J	5000	2620 J	5000	ug/L	--	--
	Sodium		25400	5000	25800	5000	ug/L	1.6	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.028	ND	0.0281	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.4	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	--	--

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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
KAFB-106031									
SW8260B	1,2-Dichloroethane	7/18/2012	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	--	--

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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
KAFB-106031									
SW8260B	n-Propylbenzene	7/18/2012	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	4.9	ND	4.72	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.9	ND	4.72	ug/L	--	--
	1-Methylnaphthalene		ND	4.9	ND	4.72	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.9	ND	4.72	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.9	ND	4.72	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.9	ND	4.72	ug/L	--	--
	2,4-Dichlorophenol		ND	4.9	ND	4.72	ug/L	--	--
	2,4-Dimethylphenol		ND	19.6	ND	18.9	ug/L	--	--
	2,4-Dinitrophenol		ND	49	ND	47.2	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.9	ND	4.72	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.9	ND	4.72	ug/L	--	--
	2-Chloronaphthalene		ND	4.9	ND	4.72	ug/L	--	--
	2-Chlorophenol		ND	4.9	ND	4.72	ug/L	--	--
	2-Methylnaphthalene		ND	4.9	ND	4.72	ug/L	--	--
	2-Methylphenol		ND	4.9	ND	4.72	ug/L	--	--
	2-Nitroaniline		ND	19.6	ND	18.9	ug/L	--	--
	2-Nitrophenol		ND	4.9	ND	4.72	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.9	ND	4.72	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.9	ND	4.72	ug/L	--	--
	3-Nitroaniline		ND	19.6	ND	18.9	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	19.6	ND	18.9	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.9	ND	4.72	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.9	ND	4.72	ug/L	--	--
	4-Chloroaniline		ND	4.9	ND	4.72	ug/L	--	--

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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
KAFB-106031									
SW8270D	4-Chlorophenyl phenyl ether	7/18/2012	ND	4.9	ND	4.72	ug/L	--	--
	4-Nitroaniline		ND	19.6	ND	18.9	ug/L	--	--
	4-Nitrophenol		ND	19.6	ND	18.9	ug/L	--	--
	Acenaphthene		ND	4.9	ND	4.72	ug/L	--	--
	Acenaphthylene		ND	4.9	ND	4.72	ug/L	--	--
	Acetophenone		ND	4.9	ND	4.72	ug/L	--	--
	Anthracene		ND	4.9	ND	4.72	ug/L	--	--
	Atrazine		ND	4.9	ND	4.72	ug/L	--	--
	Benzaldehyde		ND	4.9	ND	4.72	ug/L	--	--
	Benzidine		ND	98	ND	94.3	ug/L	--	--
	Benzo(a)anthracene		ND	4.9	ND	4.72	ug/L	--	--
	Benzo(a)pyrene		ND	4.9	ND	4.72	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.9	ND	4.72	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.9	ND	4.72	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.9	ND	4.72	ug/L	--	--
	Benzoic acid		ND	98	ND	94.3	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.9	ND	4.72	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.9	ND	4.72	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.9	ND	4.72	ug/L	--	--
	Butylbenzylphthalate		ND	4.9	ND	4.72	ug/L	--	--
	Caprolactam		ND	4.9	ND	4.72	ug/L	--	--
	Carbazole		ND	4.9	ND	4.72	ug/L	--	--
	Chrysene		ND	4.9	ND	4.72	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.9	ND	4.72	ug/L	--	--
	Dibenzofuran		ND	4.9	ND	4.72	ug/L	--	--
	Diethylphthalate		ND	4.9	ND	4.72	ug/L	--	--
	Dimethyl phthalate		ND	4.9	ND	4.72	ug/L	--	--
	Di-n-butylphthalate		ND	4.9	ND	4.72	ug/L	--	--
	Di-n-octylphthalate		ND	4.9	ND	4.72	ug/L	--	--
	Fluoranthene		ND	4.9	ND	4.72	ug/L	--	--
	Fluorene		ND	4.9	ND	4.72	ug/L	--	--
	Hexachlorobenzene		ND	4.9	ND	4.72	ug/L	--	--
	Hexachlorobutadiene		ND	4.9	ND	4.72	ug/L	--	--
	Hexachlorocyclopentadiene		ND	9.8	ND	9.43	ug/L	--	--
	Hexachloroethane		ND	4.9	ND	4.72	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.9	ND	4.72	ug/L	--	--
	Isophorone		ND	4.9	ND	4.72	ug/L	--	--

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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
KAFB-106031									
SW8270D	Naphthalene	7/18/2012	ND	4.9	ND	4.72	ug/L	--	--
	Nitrobenzene		ND	4.9	ND	4.72	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.9	ND	4.72	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.9	ND	4.72	ug/L	--	--
	Pentachlorophenol		ND	19.6	ND	18.9	ug/L	--	--
	Phenanthrene		ND	4.9	ND	4.72	ug/L	--	--
	Phenol		ND	4.9	ND	4.72	ug/L	--	--
	Pyrene		ND	4.9	ND	4.72	ug/L	--	--
KAFB-106042									
E300.0	Chloride	7/10/2012	62.5	0.5	62.1	0.5	mg/L	0.6	Yes
	Sulfate as SO4		52.3	2.5	52.1	2.5	mg/L	0.4	Yes
E353.2	Nitrate/Nitrite as N		1.36 J	1.5	1.37 J	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		113	1	104	1	mg/L	8.3	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		0.947 J	3.39	ND	3.39	mg/L	--	--
SW6010B	Calcium		69200	5000	70400	5000	ug/L	1.7	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		8690	5000	8830	5000	ug/L	1.6	Yes
	Potassium		3240 J	5000	3280 J	5000	ug/L	--	--
	Sodium		30300	5000	30800	5000	ug/L	1.6	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		0.24	0.0279	0.176	0.0275	ug/L	30.8	Yes
SW8015B	Diesel Range Organics (C10-C28)		0.141 J	0.4	0.154 J	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	--	--
	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	--	--

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KAFB-106042									
SW8260B	1,2-Dibromoethane (EDB)	7/10/2012	ND	1	0.26 J	1	ug/L	--	--
	1,2-Dichlorobenzene		ND	1	ND	1	ug/L	--	--
	1,2-Dichloroethane		ND	1	0.33 J	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	5.88 J	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	--	--

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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
KAFB-106042									
SW8260B	Naphthalene	7/10/2012	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	4.72	ND	4.72	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.72	ND	4.72	ug/L	--	--
	1-Methylnaphthalene		ND	4.72	ND	4.72	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.72	ND	4.72	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.72	ND	4.72	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.72	ND	4.72	ug/L	--	--
	2,4-Dichlorophenol		ND	4.72	ND	4.72	ug/L	--	--
	2,4-Dimethylphenol		ND	18.9	ND	18.9	ug/L	--	--
	2,4-Dinitrophenol		ND	47.2	ND	47.2	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.72	ND	4.72	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.72	ND	4.72	ug/L	--	--
	2-Chloronaphthalene		ND	4.72	ND	4.72	ug/L	--	--
	2-Chlorophenol		ND	4.72	ND	4.72	ug/L	--	--
	2-Methylnaphthalene		ND	4.72	ND	4.72	ug/L	--	--
	2-Methylphenol		ND	4.72	ND	4.72	ug/L	--	--
	2-Nitroaniline		ND	18.9	ND	18.9	ug/L	--	--
	2-Nitrophenol		ND	4.72	ND	4.72	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.72	ND	4.72	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.72	ND	4.72	ug/L	--	--
	3-Nitroaniline		ND	18.9	ND	18.9	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	18.9	ND	18.9	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.72	ND	4.72	ug/L	--	--

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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
KAFB-106042									
SW8270D	4-Chloro-3-methylphenol	7/10/2012	ND	4.72	ND	4.72	ug/L	--	--
	4-Chloroaniline		ND	4.72	ND	4.72	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.72	ND	4.72	ug/L	--	--
	4-Nitroaniline		ND	18.9	ND	18.9	ug/L	--	--
	4-Nitrophenol		ND	18.9	ND	18.9	ug/L	--	--
	Acenaphthene		ND	4.72	ND	4.72	ug/L	--	--
	Acenaphthylene		ND	4.72	ND	4.72	ug/L	--	--
	Acetophenone		ND	4.72	ND	4.72	ug/L	--	--
	Anthracene		ND	4.72	ND	4.72	ug/L	--	--
	Atrazine		ND	4.72	ND	4.72	ug/L	--	--
	Benzaldehyde		ND	4.72	ND	4.72	ug/L	--	--
	Benzidine		ND	94.3	ND	94.3	ug/L	--	--
	Benzo(a)anthracene		ND	4.72	ND	4.72	ug/L	--	--
	Benzo(a)pyrene		ND	4.72	ND	4.72	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.72	ND	4.72	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.72	ND	4.72	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.72	ND	4.72	ug/L	--	--
	Benzoic acid		ND	94.3	ND	94.3	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.72	ND	4.72	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.72	ND	4.72	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.72	ND	4.72	ug/L	--	--
	Butylbenzylphthalate		ND	4.72	ND	4.72	ug/L	--	--
	Caprolactam		ND	4.72	ND	4.72	ug/L	--	--
	Carbazole		ND	4.72	ND	4.72	ug/L	--	--
	Chrysene		ND	4.72	ND	4.72	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.72	ND	4.72	ug/L	--	--
	Dibenzofuran		ND	4.72	ND	4.72	ug/L	--	--
	Diethylphthalate		ND	4.72	ND	4.72	ug/L	--	--
	Dimethyl phthalate		ND	4.72	ND	4.72	ug/L	--	--
	Di-n-butylphthalate		ND	4.72	ND	4.72	ug/L	--	--
	Di-n-octylphthalate		ND	4.72	ND	4.72	ug/L	--	--
	Fluoranthene		ND	4.72	ND	4.72	ug/L	--	--
	Fluorene		ND	4.72	ND	4.72	ug/L	--	--
	Hexachlorobenzene		ND	4.72	ND	4.72	ug/L	--	--
	Hexachlorobutadiene		ND	4.72	ND	4.72	ug/L	--	--
	Hexachlorocyclopentadiene		ND	9.43	ND	9.43	ug/L	--	--
	Hexachloroethane		ND	4.72	ND	4.72	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
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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
KAFB-106042									
SW8270D	Indeno(1,2,3-cd)pyrene	7/10/2012	ND	4.72	ND	4.72	ug/L	--	--
	Isophorone		ND	4.72	ND	4.72	ug/L	--	--
	Naphthalene		ND	4.72	ND	4.72	ug/L	--	--
	Nitrobenzene		ND	4.72	ND	4.72	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.72	ND	4.72	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.72	ND	4.72	ug/L	--	--
	Pentachlorophenol		ND	18.9	ND	18.9	ug/L	--	--
	Phenanthrene		ND	4.72	ND	4.72	ug/L	--	--
	Phenol		ND	4.72	ND	4.72	ug/L	--	--
	Pyrene		ND	4.72	ND	4.72	ug/L	--	--
KAFB-106050									
E300.0	Chloride	7/31/2012	43.7	0.5	43.8	0.5	mg/L	0.2	Yes
	Sulfate as SO4		76.4	2.5	76.5	2.5	mg/L	0.1	Yes
E353.2	Nitrate/Nitrite as N		1.26 J	1.5	1.26 J	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		86.1	1	94.2	1	mg/L	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	3.39	ND	3.39	mg/L	--	--
SW6010B	Calcium		60400	5000	60600	5000	ug/L	0.3	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		8720	5000	8610	5000	ug/L	1.3	Yes
	Potassium		2970 J	5000	2930 J	5000	ug/L	--	--
	Sodium		27000	5000	27300	5000	ug/L	1.1	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0276	ND	0.0278	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.385	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	--	--
	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	--	--

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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
KAFB-106050									
SW8260B	1,2,4-Trimethylbenzene	7/31/2012	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	--	--
	Hexachlorobutadiene		ND	2	ND	2	ug/L	--	--
	Isopropylbenzene		ND	1	ND	1	ug/L	--	--

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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
KAFB-106050									
SW8260B	Methyl t-Butyl Ether	7/31/2012	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	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	--	--

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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
KAFB-106050									
SW8270D	4,6-Dinitro-2-methylphenol	7/31/2012	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	--	--
	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	--	--

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Field Duplicate Summary
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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
KAFB-106050									
SW8270D	Hexachlorocyclopentadiene	7/31/2012	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	--	--
	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	--	--
KAFB-106062									
E300.0	Chloride	7/25/2012	7.26	0.5	7.25	0.5	mg/L	0.1	Yes
	Sulfate as SO4		28.7	2.5	28.8	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)		100	1	102	1	mg/L	2	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		35800	5000	35300	5000	ug/L	1.4	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		4940 J+	5000	4860 J+	5000	ug/L	--	--
	Potassium		1920 J	5000	1930 J	5000	ug/L	--	--
	Sodium		23000	5000	22800	5000	ug/L	0.9	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0279	ND	0.0276	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	--	--

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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
KAFB-106062									
SW8260B	1,2,3-Trichloropropane	7/25/2012	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	--	--

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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
KAFB-106062									
SW8260B	Hexachlorobutadiene	7/25/2012	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	4.95	ND	5	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.95	ND	5	ug/L	--	--
	1-Methylnaphthalene		ND	4.95	ND	5	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.95	ND	5	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.95	ND	5	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.95	ND	5	ug/L	--	--
	2,4-Dichlorophenol		ND	4.95	ND	5	ug/L	--	--
	2,4-Dimethylphenol		ND	19.8	ND	20	ug/L	--	--
	2,4-Dinitrophenol		ND	49.5	ND	50	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.95	ND	5	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.95	ND	5	ug/L	--	--
	2-Chloronaphthalene		ND	4.95	ND	5	ug/L	--	--
	2-Chlorophenol		ND	4.95	ND	5	ug/L	--	--
	2-Methylnaphthalene		ND	4.95	ND	5	ug/L	--	--
	2-Methylphenol		ND	4.95	ND	5	ug/L	--	--
	2-Nitroaniline		ND	19.8	ND	20	ug/L	--	--
	2-Nitrophenol		ND	4.95	ND	5	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.95	ND	5	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
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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
KAFB-106062									
SW8270D	3-Methylphenol and 4-methylphenol	7/25/2012	ND	4.95	ND	5	ug/L	--	--
	3-Nitroaniline		ND	19.8	ND	20	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	19.8	ND	20	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.95	ND	5	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.95	ND	5	ug/L	--	--
	4-Chloroaniline		ND	4.95	ND	5	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.95	ND	5	ug/L	--	--
	4-Nitroaniline		ND	19.8	ND	20	ug/L	--	--
	4-Nitrophenol		ND	19.8	ND	20	ug/L	--	--
	Acenaphthene		ND	4.95	ND	5	ug/L	--	--
	Acenaphthylene		ND	4.95	ND	5	ug/L	--	--
	Acetophenone		ND	4.95	ND	5	ug/L	--	--
	Anthracene		ND	4.95	ND	5	ug/L	--	--
	Atrazine		ND	4.95	ND	5	ug/L	--	--
	Benzaldehyde		ND	4.95	ND	5	ug/L	--	--
	Benzidine		ND	99	ND	100	ug/L	--	--
	Benzo(a)anthracene		ND	4.95	ND	5	ug/L	--	--
	Benzo(a)pyrene		ND	4.95	ND	5	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.95	ND	5	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.95	ND	5	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.95	ND	5	ug/L	--	--
	Benzoic acid		ND	99	ND	100	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.95	ND	5	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.95	ND	5	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.95	ND	5	ug/L	--	--
	Butylbenzylphthalate		ND	4.95	ND	5	ug/L	--	--
	Caprolactam		ND	4.95	ND	5	ug/L	--	--
	Carbazole		ND	4.95	ND	5	ug/L	--	--
	Chrysene		ND	4.95	ND	5	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.95	ND	5	ug/L	--	--
	Dibenzofuran		ND	4.95	ND	5	ug/L	--	--
	Diethylphthalate		ND	4.95	ND	5	ug/L	--	--
	Dimethyl phthalate		ND	4.95	ND	5	ug/L	--	--
	Di-n-butylphthalate		ND	4.95	ND	5	ug/L	--	--
	Di-n-octylphthalate		ND	4.95	ND	5	ug/L	--	--
	Fluoranthene		ND	4.95	ND	5	ug/L	--	--
	Fluorene		ND	4.95	ND	5	ug/L	--	--

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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
KAFB-106062									
SW8270D	Hexachlorobenzene	7/25/2012	ND	4.95	ND	5	ug/L	--	--
	Hexachlorobutadiene		ND	4.95	ND	5	ug/L	--	--
	Hexachlorocyclopentadiene		ND	9.9	ND	10	ug/L	--	--
	Hexachloroethane		ND	4.95	ND	5	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.95	ND	5	ug/L	--	--
	Isophorone		ND	4.95	ND	5	ug/L	--	--
	Naphthalene		ND	4.95	ND	5	ug/L	--	--
	Nitrobenzene		ND	4.95	ND	5	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.95	ND	5	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.95	ND	5	ug/L	--	--
	Pentachlorophenol		ND	19.8	ND	20	ug/L	--	--
	Phenanthrene		ND	4.95	ND	5	ug/L	--	--
	Phenol		ND	4.95	ND	5	ug/L	--	--
	Pyrene		ND	4.95	ND	5	ug/L	--	--
KAFB-106071									
E300.0	Chloride	7/11/2012	9.7	0.5	10	0.5	mg/L	3	Yes
	Sulfate as SO4		33.4	2.5	33.6	2.5	mg/L	0.6	Yes
E353.2	Nitrate/Nitrite as N		0.318 J	1.5	0.334 J	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		106	1	104	1	mg/L	1.9	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	3.39	ND	3.39	mg/L	--	--
SW6010B	Calcium		38800	5000	37500	5000	ug/L	3.4	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		5060	5000	4890 J	5000	ug/L	--	--
	Potassium		2180 J	5000	2110 J	5000	ug/L	--	--
	Sodium		23100	5000	22300	5000	ug/L	3.5	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		ND	0.0281	ND	0.0281	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	--	--

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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
KAFB-106071									
SW8260B	1,1-Dichloropropene	7/11/2012	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	--	--
	Dibromochloromethane		ND	1	ND	1	ug/L	--	--
	Dibromomethane		ND	1	ND	1	ug/L	--	--

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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
KAFB-106071									
SW8260B	Dichlorodifluoromethane	7/11/2012	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	4.67	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.63	ND	4.67	ug/L	--	--
	1-Methylnaphthalene		ND	4.63	ND	4.67	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.63	ND	4.67	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.63	ND	4.67	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.63	ND	4.67	ug/L	--	--
	2,4-Dichlorophenol		ND	4.63	ND	4.67	ug/L	--	--
	2,4-Dimethylphenol		ND	18.5	ND	18.7	ug/L	--	--
	2,4-Dinitrophenol		ND	46.3	ND	46.7	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.63	ND	4.67	ug/L	--	--
	2,6-Dinitrotoluene		ND	4.63	ND	4.67	ug/L	--	--
	2-Chloronaphthalene		ND	4.63	ND	4.67	ug/L	--	--
	2-Chlorophenol		ND	4.63	ND	4.67	ug/L	--	--
	2-Methylnaphthalene		ND	4.63	ND	4.67	ug/L	--	--
	2-Methylphenol		ND	4.63	ND	4.67	ug/L	--	--
	2-Nitroaniline		ND	18.5	ND	18.7	ug/L	--	--

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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
KAFB-106071									
SW8270D	2-Nitrophenol	7/11/2012	ND	4.63	ND	4.67	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.63	ND	4.67	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.63	ND	4.67	ug/L	--	--
	3-Nitroaniline		ND	18.5	ND	18.7	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	18.5	ND	18.7	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.63	ND	4.67	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.63	ND	4.67	ug/L	--	--
	4-Chloroaniline		ND	4.63	ND	4.67	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.63	ND	4.67	ug/L	--	--
	4-Nitroaniline		ND	18.5	ND	18.7	ug/L	--	--
	4-Nitrophenol		ND	18.5	ND	18.7	ug/L	--	--
	Acenaphthene		ND	4.63	ND	4.67	ug/L	--	--
	Acenaphthylene		ND	4.63	ND	4.67	ug/L	--	--
	Acetophenone		ND	4.63	ND	4.67	ug/L	--	--
	Anthracene		ND	4.63	ND	4.67	ug/L	--	--
	Atrazine		ND	4.63	ND	4.67	ug/L	--	--
	Benzaldehyde		ND	4.63	ND	4.67	ug/L	--	--
	Benzidine		ND	92.6	ND	93.5	ug/L	--	--
	Benzo(a)anthracene		ND	4.63	ND	4.67	ug/L	--	--
	Benzo(a)pyrene		ND	4.63	ND	4.67	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.63	ND	4.67	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.63	ND	4.67	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.63	ND	4.67	ug/L	--	--
	Benzoic acid		ND	92.6	ND	93.5	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.63	ND	4.67	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.63	ND	4.67	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.63	ND	4.67	ug/L	--	--
	Butylbenzylphthalate		ND	4.63	ND	4.67	ug/L	--	--
	Caprolactam		ND	4.63	ND	4.67	ug/L	--	--
	Carbazole		ND	4.63	ND	4.67	ug/L	--	--
	Chrysene		ND	4.63	ND	4.67	ug/L	--	--
	Dibenz(a,h)anthracene		ND	4.63	ND	4.67	ug/L	--	--
	Dibenzofuran		ND	4.63	ND	4.67	ug/L	--	--
	Diethylphthalate		ND	4.63	ND	4.67	ug/L	--	--
	Dimethyl phthalate		ND	4.63	ND	4.67	ug/L	--	--
	Di-n-butylphthalate		ND	4.63	ND	4.67	ug/L	--	--
	Di-n-octylphthalate		ND	4.63	ND	4.67	ug/L	--	--

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KAFB-106071									
SW8270D	Fluoranthene	7/11/2012	ND	4.63	ND	4.67	ug/L	--	--
	Fluorene		ND	4.63	ND	4.67	ug/L	--	--
	Hexachlorobenzene		ND	4.63	ND	4.67	ug/L	--	--
	Hexachlorobutadiene		ND	4.63	ND	4.67	ug/L	--	--
	Hexachlorocyclopentadiene		ND	9.26	ND	9.35	ug/L	--	--
	Hexachloroethane		ND	4.63	ND	4.67	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.63	ND	4.67	ug/L	--	--
	Isophorone		ND	4.63	ND	4.67	ug/L	--	--
	Naphthalene		ND	4.63	ND	4.67	ug/L	--	--
	Nitrobenzene		ND	4.63	ND	4.67	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.63	ND	4.67	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.63	ND	4.67	ug/L	--	--
	Pentachlorophenol		ND	18.5	ND	18.7	ug/L	--	--
	Phenanthrene		ND	4.63	ND	4.67	ug/L	--	--
	Phenol		ND	4.63	ND	4.67	ug/L	--	--
	Pyrene		ND	4.63	ND	4.67	ug/L	--	--
KAFB-106092									
E300.0	Chloride	7/30/2012	32.3	0.5	32.2	0.5	mg/L	0.3	Yes
	Sulfate as SO4		51.8	2.5	51.6	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)		123	1	125	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		ND	3.39	ND	3.39	mg/L	--	--
SW6010B	Calcium		55500	5000	53600	5000	ug/L	3.5	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		7450	5000	6930	5000	ug/L	7.2	Yes
	Potassium		2690 J	5000	2410 J	5000	ug/L	--	--
	Sodium		26200	5000	25800	5000	ug/L	1.5	Yes
SW6010B-DISS	Iron		67.9 J	100	65.5 J	100	ug/L	--	--
	Manganese		269 J+	15	264 J+	15	ug/L	1.9	Yes
SW8011	1,2-Dibromoethane		0.202	0.0278	0.218	0.028	ug/L	7.6	Yes
SW8015B	Diesel Range Organics (C10-C28)		2.06 J+	0.385	1.73 J+	0.377	mg/L	17.4	Yes
	Gasoline Range Organics (C6-C10)		1.63	0.15	1.72	0.15	mg/L	5.4	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	--	--

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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
KAFB-106092									
SW8260B	1,1-Dichloroethane	7/30/2012	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		2.25 J	5	2.25 J	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	--	--
	1,3-Dichloropropane		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		233	50	172	50	ug/L	30.1	Yes
	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	--	--

Appendix B1 - Table 6
Field Duplicate Summary
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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
KAFB-106092									
SW8260B	Dibromochloromethane	7/30/2012	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		6.55	5	7	5	ug/L	6.6	Yes
	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		ND	5	ND	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	--	--
	tert-Butylbenzene		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	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	--	--

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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
KAFB-106092									
SW8270D	2-Methylphenol	7/30/2012	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	--	--
	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	--	--

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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
KAFB-106092									
SW8270D	Di-n-butylphthalate	7/30/2012	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	--	--
	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	--	--
KAFB-106100									
E300.0	Chloride	8/7/2012	14.7	2.5	14.8	2.5	mg/L	0.7	Yes
	Sulfate as SO4		36.3	2.5	36	2.5	mg/L	0.8	Yes
E353.2	Nitrate/Nitrite as N		0.715 J	1.5	0.712 J	1.5	mg/L	--	--
SM2320B	Alkalinity, Bicarbonate (as CaCO3)		92.2	1	101	1	mg/L	9.1	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		38400	5000	39800	5000	ug/L	3.6	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		5770	5000	5960	5000	ug/L	3.2	Yes
	Potassium		2540 J	5000	2600 J	5000	ug/L	--	--
	Sodium		21800	5000	22700	5000	ug/L	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	0.0287	ug/L	--	--
SW8015B	Diesel Range Organics (C10-C28)		ND	0.377	ND	0.5	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	--	--

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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
KAFB-106100									
SW8260B	1,1,2,2-Tetrachloroethane	8/7/2012	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	--	--

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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
KAFB-106100									
SW8260B	cis-1,2-Dichloroethene	8/7/2012	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		0.41 J	1	0.47 J	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	--	--
	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	--	--

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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
KAFB-106100									
SW8270D	2-Chlorophenol	8/7/2012	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	--	--
	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	--	--

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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
KAFB-106100									
SW8270D	Diethylphthalate	8/7/2012	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	--	--
KAFB-106106									
E300.0	Chloride	7/17/2012	17	2.5	16.7	2.5	mg/L	1.8	Yes
	Sulfate as SO4		45.8	2.5	45.8	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)		98.3	1	104	1	mg/L	5.6	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		ND	3.7	ND	3.7	mg/L	--	--
SW6010B	Calcium		43700	5000	41800	5000	ug/L	4.4	Yes
	Lead		ND	3	ND	3	ug/L	--	--
	Magnesium		5710	5000	5470	5000	ug/L	4.3	Yes
	Potassium		2440 J	5000	2340 J	5000	ug/L	--	--
	Sodium		23800	5000	22800	5000	ug/L	4.3	Yes
SW6010B-DISS	Iron		ND	100	ND	100	ug/L	--	--
	Manganese		ND	15	ND	15	ug/L	--	--
SW8011	1,2-Dibromoethane		0.174	0.028	0.152	0.0281	ug/L	13.5	Yes
SW8015B	Diesel Range Organics (C10-C28)		ND	0.4	ND	0.392	mg/L	--	--
	Gasoline Range Organics (C6-C10)		ND	0.15	ND	0.15	mg/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Third 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
KAFB-106106									
SW8260B	1,1,1,2-Tetrachloroethane	7/17/2012	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 6
Field Duplicate Summary
Groundwater Monitoring Event, Third Quarter 2012
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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
KAFB-106106									
SW8260B	Chloroform	7/17/2012	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	4.67	ND	4.63	ug/L	--	--
	1,2-Diphenylhydrazine		ND	4.67	ND	4.63	ug/L	--	--
	1-Methylnaphthalene		ND	4.67	ND	4.63	ug/L	--	--
	2,2'-Oxybis-1-chloropropane		ND	4.67	ND	4.63	ug/L	--	--
	2,4,5-Trichlorophenol		ND	4.67	ND	4.63	ug/L	--	--
	2,4,6-Trichlorophenol		ND	4.67	ND	4.63	ug/L	--	--
	2,4-Dichlorophenol		ND	4.67	ND	4.63	ug/L	--	--
	2,4-Dimethylphenol		ND	18.7	ND	18.5	ug/L	--	--
	2,4-Dinitrophenol		ND	46.7	ND	46.3	ug/L	--	--
	2,4-Dinitrotoluene		ND	4.67	ND	4.63	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Third 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
KAFB-106106									
SW8270D	2,6-Dinitrotoluene	7/17/2012	ND	4.67	ND	4.63	ug/L	--	--
	2-Chloronaphthalene		ND	4.67	ND	4.63	ug/L	--	--
	2-Chlorophenol		ND	4.67	ND	4.63	ug/L	--	--
	2-Methylnaphthalene		ND	4.67	ND	4.63	ug/L	--	--
	2-Methylphenol		ND	4.67	ND	4.63	ug/L	--	--
	2-Nitroaniline		ND	18.7	ND	18.5	ug/L	--	--
	2-Nitrophenol		ND	4.67	ND	4.63	ug/L	--	--
	3,3'-Dichlorobenzidine		ND	4.67	ND	4.63	ug/L	--	--
	3-Methylphenol and 4-methylphenol		ND	4.67	ND	4.63	ug/L	--	--
	3-Nitroaniline		ND	18.7	ND	18.5	ug/L	--	--
	4,6-Dinitro-2-methylphenol		ND	18.7	ND	18.5	ug/L	--	--
	4-Bromophenyl-phenylether		ND	4.67	ND	4.63	ug/L	--	--
	4-Chloro-3-methylphenol		ND	4.67	ND	4.63	ug/L	--	--
	4-Chloroaniline		ND	4.67	ND	4.63	ug/L	--	--
	4-Chlorophenyl phenyl ether		ND	4.67	ND	4.63	ug/L	--	--
	4-Nitroaniline		ND	18.7	ND	18.5	ug/L	--	--
	4-Nitrophenol		ND	18.7	ND	18.5	ug/L	--	--
	Acenaphthene		ND	4.67	ND	4.63	ug/L	--	--
	Acenaphthylene		ND	4.67	ND	4.63	ug/L	--	--
	Acetophenone		ND	4.67	ND	4.63	ug/L	--	--
	Anthracene		ND	4.67	ND	4.63	ug/L	--	--
	Atrazine		ND	4.67	ND	4.63	ug/L	--	--
	Benzaldehyde		ND	4.67	ND	4.63	ug/L	--	--
	Benzidine		ND	93.5	ND	92.6	ug/L	--	--
	Benzo(a)anthracene		ND	4.67	ND	4.63	ug/L	--	--
	Benzo(a)pyrene		ND	4.67	ND	4.63	ug/L	--	--
	Benzo(b)fluoranthene		ND	4.67	ND	4.63	ug/L	--	--
	Benzo(g,h,i)perylene		ND	4.67	ND	4.63	ug/L	--	--
	Benzo(k)fluoranthene		ND	4.67	ND	4.63	ug/L	--	--
	Benzoic acid		ND	93.5	ND	92.6	ug/L	--	--
	Bis(2-chloroethoxy)methane		ND	4.67	ND	4.63	ug/L	--	--
	Bis(2-chloroethyl)ether		ND	4.67	ND	4.63	ug/L	--	--
	Bis(2-ethylhexyl)phthalate		ND	4.67	ND	4.63	ug/L	--	--
	Butylbenzylphthalate		ND	4.67	ND	4.63	ug/L	--	--
	Caprolactam		ND	4.67	ND	4.63	ug/L	--	--
	Carbazole		ND	4.67	ND	4.63	ug/L	--	--
	Chrysene		ND	4.67	ND	4.63	ug/L	--	--

Appendix B1 - Table 6
Field Duplicate Summary
Groundwater Monitoring Event, Third Quarter 2012
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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
KAFB-106106									
SW8270D	Dibenz(a,h)anthracene	7/17/2012	ND	4.67	ND	4.63	ug/L	--	--
	Dibenzofuran		ND	4.67	ND	4.63	ug/L	--	--
	Diethylphthalate		ND	4.67	ND	4.63	ug/L	--	--
	Dimethyl phthalate		ND	4.67	ND	4.63	ug/L	--	--
	Di-n-butylphthalate		ND	4.67	ND	4.63	ug/L	--	--
	Di-n-octylphthalate		ND	4.67	ND	4.63	ug/L	--	--
	Fluoranthene		ND	4.67	ND	4.63	ug/L	--	--
	Fluorene		ND	4.67	ND	4.63	ug/L	--	--
	Hexachlorobenzene		ND	4.67	ND	4.63	ug/L	--	--
	Hexachlorobutadiene		ND	4.67	ND	4.63	ug/L	--	--
	Hexachlorocyclopentadiene		ND	9.35	ND	9.26	ug/L	--	--
	Hexachloroethane		ND	4.67	ND	4.63	ug/L	--	--
	Indeno(1,2,3-cd)pyrene		ND	4.67	ND	4.63	ug/L	--	--
	Isophorone		ND	4.67	ND	4.63	ug/L	--	--
	Naphthalene		ND	4.67	ND	4.63	ug/L	--	--
	Nitrobenzene		ND	4.67	ND	4.63	ug/L	--	--
	N-Nitroso-di-n-propylamine		ND	4.67	ND	4.63	ug/L	--	--
	N-Nitrosodiphenylamine		ND	4.67	ND	4.63	ug/L	--	--
	Pentachlorophenol		ND	18.7	ND	18.5	ug/L	--	--
	Phenanthrene		ND	4.67	ND	4.63	ug/L	--	--
	Phenol		ND	4.67	ND	4.63	ug/L	--	--
	Pyrene		ND	4.67	ND	4.63	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.

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Appendix B1 - Table 7
Technical Completeness
Groundwater Monitoring Event, Third 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)
Environmental Samples					
E300.0	2	120	240	240	100.0
E353.2	1	120	120	120	100.0
SM2320B	2	120	240	240	100.0
SM4500NH3BG	1	120	120	120	100.0
SM4500S2CF	1	120	120	120	100.0
SW6010B	7	120	840	840	100.0
SW8011	1	120	120	120	100.0
SW8015B - Diesel	1	120	120	120	100.0
SW8015B - Gasoline	1	120	120	120	100.0
SW8260B	64	120	7680	7680	100.0
SW8270D	69	120	8280	8280	100.0
SW8270D-PAH	18	1	18	18	100.0
Field QC Samples					
SW6010B	7	2	14	14	100.0
SW8015B - Diesel	1	2	2	2	100.0
SW8015B - Gasoline	1	2	2	2	100.0
SW8260B	64	22	1408	1408	100.0
SW8270D	69	2	138	138	100.0

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