ACRONYMS AND ABBREVIATIONS

%	percent
%D	percent difference
BFF	Bulk Fuels Facility
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
mL	milliliter
MS	matrix spike
MSD	matrix spike duplicate
QAPjP	Quality Assurance Project Plan
QC	quality control
QSM	Quality Systems Manual
RPD	relative percent difference
SDG	sample delivery group
SM	Standard Method
SOP	standard operating procedure
USACE	U.S. Army Corps of Engineers
VFA	volatile fatty acid
VOC	volatile organic compound

I-1. DATA QUALITY EVALUATION REPORT – GROUNDWATER JUNE 2017 – JANUARY 2019

1. LABORATORY DATA QUALITY SUMMARY

This Data Quality Evaluation Report describes the findings of the review of data for the 1,2-dibromomethane (EDB) in situ biodegradation pilot test (hereby referred to as the Pilot Test) groundwater monitoring conducted between June 29, 2017 and January 21, 2019, and is provided to document the quality of the analytical data used in the *Ethylene Dibromide In Situ Biodegradation Pilot Test Report, Bulk Fuels Facility, Solid Waste Management Unit ST-106/SS-111, Kirtland Air Force Base, New Mexico*. Groundwater monitoring activities were conducted in accordance with the requirements specified in the *Ethylene Dibromide in Situ Biodegraduity, Kirtland Air Force Base, New Mexico* (U.S. Army Corps of Engineers [USACE], 2016, Pilot Test Work Plan). Sampling procedures and overall quality control (QC) and quality assurance protocols for the groundwater monitoring activities are presented in the *Quality Assurance Project Plan, Bulk Fuels Facility Spill, Solid Waste Management Units ST-106 and SS-111, Kirtland Air Force Base, Albuquerque, New Mexico* (USACE, 2011).

The Pilot Test consisted of four phases:

- Phase 1: Evaluation of Baseline Conditions and Conservative Tracer Testing
- Phase 2: Evaluation of Biostimulation
- Phase 3: Additional Biostimulation
- Phase 4: Rebound Monitoring

During each of the four phases, multiple sampling events were conducted at the frequencies specified in the Pilot Test Work Plan. Groundwater samples were collected from six monitoring wells (Kirtland Air Force Base [KAFB]-106063, KAFB-106064, KAFB-106MW1-I, KAFB-106MW1-S, KAFB-106MW2-I,

and KAFB-106MW2-S), two extraction wells (KAFB-106EX1 and KAFB-106EX2), and one injection well (KAFB-106IN1). Specific sampling locations and parameter analyzed for each sampling event are presented in the Pilot Test Work Plan. During each sampling event, groundwater and field QC samples were collected and submitted to off-site laboratories and analyzed for the following list of parameters:

- Volatile organic compounds (VOCs) U.S. Environmental Protection Agency (EPA) Method SW8260B
- EDB EPA Method SW8011
- Dissolved iron and manganese EPA Method SW6010C
- Anions (chloride, sulfate, bromide, nitrate, and nitrite) EPA Method SW9056A
- Dissolved o-phosphate EPA Method SW9056A or Standard Method (SM) 4500PE
- Nitrate and nitrite as nitrogen EPA Method 353.2
- Alkalinity SM2320B
- Iodide EPA Method 300.0
- volatile fatty acids (VFAs)– EPA Method 300.0 M (modified)
- Dissolved gases RSK 175

During the entire sampling period, the VFAs and dissolved gases analyses were conducted by Aptim Federal Services, LLC (APTIM) laboratory in Lawrenceville, New Jersey, while the iodide analysis was performed by Test America in Earth City, Missouri. Between the baseline event in June 2017 and Phase 2 groundwater monitoring event in July 2018, samples were shipped to Empirical Laboratories LLC in Nashville, Tennessee for the remaining listed analyses. In August 2018, after the primary laboratory Empirical went out of business groundwater samples were shipped to Test America in West Sacramento, California for dissolved o-phosphate and alkalinity analyses, and Test America in Savannah for VOC, EDB, dissolved metals, and anions analyses. Empirical Laboratories and Test America in all three locations hold a current U.S. Department of Defense (DoD) Environmental Laboratory Accreditation Program certification to perform the listed analyses. In addition to above, groundwater samples were collected at the frequencies specified in the Pilot Test Work Plan and analyzed for the following parameters by the listed laboratories:

- QuantArray Chlor Microbial Insights Laboratory Standard Operating Procedure (SOP)
- Fluorescein– Crawford Hydrology Laboratory SOP (Spectrofluorophotometry)
- Hydrogen stable isotope Reston Stable Isotope Laboratory SOP (Hydrogen/H₂O Equilibration Isotope Ratio Mass Spectrometry)
- EDB stable isotope University of Oklahoma SOP (Kuder et al. 2012)

All analytical results from each sampling event were reported by off-site laboratories and were received in sample delivery groups (SDGs). Appendix I-1 – Table 1 (provided at the end of this report) summarizes sample collection dates, sample numbers, sample locations, laboratories, sample types, analysis methods, and SDG numbers. An EPA Level III data review was performed for all groundwater samples submitted for VOCs, EDB, dissolved metals, wet chemistry parameters, VFAs, and dissolved gases analyses. 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 5.1 (2017)
- *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 Organic Superfund Methods Data Review, Final (EPA, 2017)
- USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Superfund Methods Data Review, Final (EPA, 2017)

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

- Sample preservation and sample extraction and analysis holding times
- Laboratory method blanks
- Initial and continuing calibration blanks (metals and anions analyses only)
- Surrogate recoveries (organic analyses only)
- 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 initial calibration verifications (ICVs)
- Continuing calibration verifications (CCVs)
- Inductively coupled plasma (ICP) interference check samples (ICS) (metal analysis only)
- ICP serial dilutions (metal analysis only)
- Sample confirmation (EDB analysis only)
- Field blanks
- Field duplicates

In addition to the above EPA Level III review, an EPA Level II review was completed for the results of chlorinated QuantArray-Chlor, fluorescein dye, hydrogen stable isotope, and EDB stable isotope analyses. The following QC elements, when applicable, were included in the EPA Level II data review:

- Sample preservation and analysis holding times
- Laboratory method blanks
- LCS recoveries
- Laboratory duplicates
- Analytical completeness

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 site-specific QAPjP (USACE, 2011) and DoD 2017 Quality Systems Manual (QSM). When the acceptance criteria are not available in the site-specific 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 and Level II data review findings. The discussion summarizes data quality exceedances and their potential impact on the quality and usability of analytical results. Appendix I-1 – Table 2 presents definitions of data qualification and reason codes applied to the analytical results. Appendix I-1 – Table 3 summarizes the qualified data. For informational purposes, qualified field QC data are also presented in this table.

1.1 Data Quality Outliers

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 laboratories and were held within the required 0 to 6 degrees Celsius, and when required, were chemically preserved in accordance with EPA and SM preservation requirements.

On June 14, 2018, 6 groundwater samples and 1 duplicate were collected and shipped to Lawrenceville, New Jersey for VFAs and dissolved gases analyses. Samples were stored on ice and chemically preserved (when applicable) after sampling and during shipping; however, due to UPS shipping delays the cooler was not delivered to the laboratory until June 18, 2018. The temperature of the cooler was recorded at 23 degree Celsius upon sample receipt exceeding the upper cooler temperature limit of 6 degree Celsius. The affected samples were analyzed as soon as they were received and completed within the holding time requirements. The results of VFAs and dissolved gases in all samples were qualified as estimated (J-/UJ) because of the non-complaint cooler temperature.

On August 7 and 8, 2018, samples for VOCs, EDB, anions, and dissolved metals analyses were shipped to the primary laboratory Empirical. Samples were received in good condition and stored in a refrigerator at the laboratory. After Empirical went out of business in mid-August 2018, samples collected on August 8, 2018 were re-directed to Test America in Savannah and West Sacramento for analysis. Samples were received by Test America on August 16, 2018 in good condition and within the temperature preservation requirement and within the holding time requirements with the exception of o-phosphate and nitrate and nitrite as nitrogen. Samples from August 7, 2018 sample date were not recovered from Empirical and were not analyzed and reported by either Empirical or Test America.

Sample holding times were evaluated by comparing the sample collection dates to the sample extraction and analysis dates. Extraction and analysis holding times were reviewed for all samples to determine the validity of the sample results. Holding time exceedances were reported for VOCs and wet chemistry samples. The affected sample numbers, methods, target analytes, holing time outliers, and holding time requirements are summarized below.

Sample Number	Analytical Method	Target Analyte	Holding Time Outlier	Holding Time Requirement	Data Qualification
106IN1-BL-062917	SW9056A	Bromide	18 days for analysis	14 days	J- for detected
106EX1-BL-062917		Bromide	18 days for analysis	14 days	results and UJ
106EX2-BL-062917		Bromide	18 days for analysis	14 days	for non-detected
106MW1S-P2P-061418	SM2320	Alkalinity	28 days for analysis	14 days	results
106MW2S-P2P-061418		Alkalinity	28 days for analysis	14 days	
106064-P2P-061418		Alkalinity	28 days for analysis	14 days	
106064-P2P-061418-FD		Alkalinity	28 days for analysis	14 days	
106IN1-P2P-061418		Alkalinity	28 days for analysis	14 days	
106EX1-P2P-061418		Alkalinity	28 days for analysis	14 days	
106EX2-P2P-061418		Alkalinity	28 days for analysis	14 days	
106064-P2P-030718	SM4500PE	O-phosphate	52 hrs for analysis	48 hours	J- for detected
106MW2S-P2P-030718		O-phosphate	52 hrs for analysis	48 hours	results
106064-P3R-080818	SW9056A	O-phosphate	192 hrs for analysis	48 hours	
106063-P3R-080818		O-phosphate	192 hrs for analysis	48 hours	R for non-
106EX1-P3R-080818		O-phosphate	192 hrs for analysis	48 hours	detected results
106EX2-P3R-080818		O-phosphate	192 hrs for analysis	48 hours	
106EX2-P3R-080818-FD		O-phosphate	192 hrs for analysis	48 hours	
106064-P3R-080818		Nitrate/Nitrite as N	192 hrs for analysis	48 hours	
106063-P3R-080818		Nitrate/Nitrite as N	192 hrs for analysis	48 hours	
106EX1-P3R-080818		Nitrate/Nitrite as N	192 hrs for analysis	48 hours	
106EX2-P3R-080818		Nitrate/Nitrite as N	192 hrs for analysis	48 hours	
106EX2-P3R-080818-FD		Nitrate/Nitrite as N	192 hrs for analysis	48 hours	
106064-P3R-080818	SW8260B	VOCs	15 days for analysis	14 day	J- for toluene
106EX1-P3R-080818		VOCs	15 days for analysis	14 day	J- for toluene
106EX2-P3R-080818		VOCs	15 days for analysis	14 day	J- for toluene
106EX2-P3R-080818-FD		VOCs	15 days for analysis	14 day	J- for toluene

 Table 1.1.1a: Summary of Holding Time Exceedance

Notes: Data qualification definitions are included in Table 2.

FD field duplicate.

VOC volatile organic compound.

The original bromide analysis for the 3 listed samples met the holding time requirement. The samples were re-analyzed due to non-compliant calibrations; however, the re-analysis was completed 4 days after the samples had expired. The results of bromide from the second analysis were similar to those results from the original analysis and were qualified as estimated (J-) due to the holding time exceedance.

Due to laboratory errors, the 14-day analysis holding time requirement was missed for 7 alkalinity samples collected during the June 2018 sampling event. Alkalinity was detected in the affected samples and the reported concentrations should be considered as estimated with a potential low bias (J-).

Two groundwater samples (106064-P2P-030718 and 106MW2S-P2P-030718) were collected for anions and o-phosphate analysis. Sample containers, preservatives and requested analyses are presented below:

Sample Number	Sample Container and Analysis		Sample Container and Analysis		
106064-P2P-030718	250 ml PE	Anions by EPA SW9056	250 ml PE	o-phosphate (field filtered) by SM4500 PE	
106MW2S-P2P-030718	250 ml PE	Anions by EPA SW9056	250 ml PE o-phosphate (field filtered) by SM4500 F		

 Table 1.1.1b: Summary of Sample Identification Errors

Both anions and o-phosphate samples were collected in 250 mL PE containers. Samples for o-phosphate analysis were field filtered. Both anions and o-phosphate sample containers were clearly labeled and analysis was requested on the chain of custody form. Due to an analyst error, two o-phosphate samples (106064-P2P-030718 and 106MW2S-P2P-030718) from March 7, 2018 sample date were initially analyzed from the anions sample containers. After the error was identified, the laboratory re-analyzed the samples from the field filtered containers; however, the 48-hour analysis holding time was marginally missed by 4 hours. The results of o-phosphate in the two samples from the re-analysis were qualified as estimated (J-) due to the minor holding time outlier. The data usability of the qualified results is not affected.

The sample identification error was an isolated error. Every sample container was labeled with sample number, preservative, and requested analysis. All collected samples were documented on the sample collection logs and chains of custody forms. Sample containers in the coolers were checked against the chain of custody forms before shipping to the laboratories. Upon sample receipt, the laboratories checked the sample containers against the chain of custody forms and notified APTIM if discrepancies between the sample containers and chain of custody forms were identified. Discrepancies were resolved before the laboratories started analysis. Sample conditions were documented on the sample receipt form and included in the laboratory data packages (Appendix I-2). After analysis, department managers reviewed the data to verify that method requirements were followed and target analytes were correctly identified and quantified. Prior to data reporting, the laboratories performed internal QC review to ensure the accuracy and completeness of analytical results.

The five listed o-phosphate and nitrate and nitrite as nitrogen samples from August 8, 2018 sample date were shipped to Empirical and then re-directed to Test America after the primary laboratory Empirical went out of business. The o-phosphate and nitrate and nitrite as nitrogen samples were already expired when Test America in Savannah and West Sacramento received the samples. The o-phosphate and nitrate and nitrite as nitrogen samples were received; however, the 48-hour analysis holding time requirement was missed by 6 days. O-phosphate in one sample (106064-P3P-081818) was detected and its reported result was qualified as estimated (J-). O-phosphate in the remaining four samples and nitrate and nitrite as nitrogen in all five samples were not detected. Because the degree of the holding time exceedance for the five samples was severe, the non-detected results were considered not usable and consequently rejected (R).

The original VOCs analysis for the above four samples was completed within the 14 day analysis holding time requirement. Because the concentrations of toluene in the samples exceeded the instrument upper calibration range, the affected samples were diluted until the results of toluene fell within in the instrument range. The re-analysis was completed in 15 days after the sample collection date exceeding the 14-day analysis holding time requirement by 1 day. The results of toluene in the four samples were reported from the diluted run and were qualified as estimated (J-) due to the holding time exceedance. As the degree of the holding time exceedance was minor, the qualified data is considered usable. Except for toluene, the results of the remaining VOC target analytes were reported from the original analysis that met the holding time requirement, and therefore no data qualification was applied to the remaining VOC results.

Except as discussed above, the analysis holding time requirements were achieved for all other samples and for all other methods.

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1.1.2 Laboratory Method Blanks (Reason Code B1)

The field sample results were evaluated with respect to the laboratory method blank prepared and analyzed for each analytical batch, and for each analytical method. Positive analyte detections in a few laboratory method blanks were observed for EPA Method SW8260B and SM4500PE. Specific contaminants, the detected levels, and the limits of quantitation (LOQs) are summarized as follows:

Table 1.1.2: Summary of Laboratory Method Blank

Analytical Method	Lab Batch Number	Contaminant	Contaminant Level (mg/L)	LOQ (mg/L)	Data Qualification
SM4500 PE	7117205	o-Phosphate	0.0205	0.04	U at the LOQ or reported concentration
	8A10010	o-Phosphate	0.0118	0.04	U at the LOQ or reported concentration

Note: Data qualification definitions are included in Table 2. LOQ limit of quantitation.

mg/L milligram(s) per liter.

Based on the DoD QSM requirements (2017), 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 levels for o-phosphate in both batches were below one-half the LOQ, and thus met the blank acceptance criteria.

As a result of the low-level laboratory method blank contamination, the detected results of o-phosphate in the affected samples were qualified as not detected (U) at the LOQ or reported value when the concentrations of o-phosphate in samples were less than or equal to 5 times the level observed in the associated laboratory method blank. This blank qualification has no impact on the data usability.

In addition to above, naphthalene, acetone, and methylene chloride were detected in several other laboratory method blanks. The associated sample results were not affected by the laboratory method blank detections as naphthalene, acetone, and methylene chloride in samples were either not detected or their detected levels in samples were well above 5 times (or ten times for common laboratory contaminants such as acetone and methylene chloride) the concentrations reported in the associated laboratory method blanks.

Except where noted, no other target analytes were detected in any laboratory method blanks for all other analyses.

1.1.3 Initial and Continuing Calibration Blanks (Reason Code B2)

In addition to the laboratory method blanks for metals and anions analyses, initial and continuing calibration blank results were reviewed to ensure that the instrument was free of contamination prior to the analyses. The review indicated that all the initial and continuing calibration blanks were free of any target analytes.

1.1.4 Surrogate Recoveries (Reason Code S)

Surrogate standards are organic compounds added to field and laboratory QC samples for organic analysis to evaluate the matrix effect and method performance on an individual sample basis. Surrogates in samples were recovered either below the lower control limits or above the upper control limits for VOCs and EDB analyses. The affected sample numbers, surrogate recovery outliers, and surrogate acceptance criteria are presented in the table below:

Table 1.1.4a: Summary of Surrogate	Recovery Exceedances
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Analytical Method	Sample Number	Surrogate Recovery Outlier (%)	Control Limit (%)	Data Qualification
EPA SW 8260B	106064-BL-081617	Toluene-d8: 87%	89-112%	J- for detected results and UJ for non-detected results
	106MW1S-BL-091917	Toluene-d8: 85%	89-112%	J- for detected results and UJ for non-detected results
	106064-P3P-081818	Toluene-d8: 88%	89-112%	J- for detected results and UJ for non-detected results
	106064-P3R-081818	4-Bromofluorbenzene: 124%	85-114%	J+ for detected results
	106064-P3P-081818	1,2-Dichloroethane-d4: 79%	81-118%	J- for detected results and UJ for non-detected results

Analytical Method	Sample Number	Surrogate Recovery Outlier (%)	Control Limit (%)	Data Qualification
	106063-P3P-081818	4-Bromofluorobenzene: 121%	85-114%	J+ for detected results
	106EX1-P3P-081818	4-Bromofluorobenzene: 131%	85-114%	J+ for detected results
EPA SW 8260B	106EX2-P3P-081818	4-Bromofluorobenzene: 142%	85-114%	J+ for detected results
	106EX2-P3P-081818FD	4-Bromofluorobenzene: 147%	85-114%	J+ for detected results
	106064-P3P-082218	Toluene-d8: 113%	89-112%	J+ for detected results
	106064-P3P-082918	4-Bromofluorobenzene: 126%	85-114%	J+ for detected results
	106063-P3P-082918	4-Bromofluorobenzene: 127%	85-114%	J+ for detected results
	106EX1-P3P-082918	4-Bromofluorobenzene: 127%	85-114%	J+ for detected results
	106EX2-P3P-082918	4-Bromofluorobenzene: 141%	85-114%	J+ for detected results
EPA SW8011	106063-BL-071817	1,3-Dibromoproane: 44%	61-130%	J- for detected results and UJ for non-detected results
	106MW1I-BL-071817	1,3-Dibromoproane: 52%	61-130%	J- for detected results and UJ for non-detected results
	106MW2I-BL-072417	1,3-Dibromoproane: 52%	61-130%	J- for detected results and UJ for non-detected results
	106MW2I-BL-FD-072417	1,3-Dibromoproane: 50%	61-130%	J- for detected results and UJ for non-detected results
	106064-BL-081617	1,3-Dibromoproane: 315%	61-130%	J+ for detected results
	106064-BL-091917	1,3-Dibromoproane: 1280%	61-130%	J+ for detected results
	106MW2S-BL-091917	1,3-Dibromoproane: 1010%	61-130%	J+ for detected results
	106MW1S-BL-091917	1,3-Dibromoproane: 1360%	61-130%	J+ for detected results
	106IN-BL-092617	1,3-Dibromoproane: 463%	61-130%	J+ for detected results
	106EX1-BL092617	1,3-Dibromoproane: 417%	61-130%	J+ for detected results
	106EX2-BL-092617	1,3-Dibromoproane: 420%	61-130%	J+ for detected results
	106064-P2R-012518	1,3-Dibromoproane: 2350%	45-152%	J+ for detected results
	106063-P2R-012518	1,3-Dibromoproane: 195%	45-152%	J+ for detected results
	106EX1-P2R-012518	1,3-Dibromoproane: 2880%	45-152%	J+ for detected results
	106EX2-P2R-012518	1,3-Dibromoproane: 3820%	45-152%	J+ for detected results
	106MW2I-P2P-030618	1,3-Dibromoproane: 183%	45-152%	J+ for detected results
	106MW2I-P2P-030618-FD	1,3-Dibromoproane: 183%	45-152%	J+ for detected results
	106MW1I-P2P-030618	1,3-Dibromoproane: 1090%	45-152%	J+ for detected results
	106MW1S-P2P-030618	1,3-Dibromoproane: 2540%	45-152%	J+ for detected results
	106063-P2P-030618	1,3-Dibromoproane: 935%	45-152%	J+ for detected results
	106064-P2P-030718	1,3-Dibromoproane: 1040%	45-152%	J+ for detected results
	106MW2S-P2P-030718	1,3-Dibromoproane: 991%	45-152%	J+ for detected results
	106-EX1-P2P-030718	1,3-Dibromoproane: 1030%	45-152%	J+ for detected results
	106EX2-P2P-030718	1,3-Dibromoproane: 2590%	45-152%	J+ for detected results
	106064-P2P-041018	1,3-Dibromoproane: 774%	45-152%	J+ for detected results
	106063-P2P-041018	1,3-Dibromoproane: 815%	45-152%	J+ for detected results
	106MW1I-P2P-041018	1,3-Dibromoproane: 930%	45-152%	J+ for detected results
	106MW1S-P2P-041118	1,3-Dibromoproane: 830%	45-152%	J+ for detected results
	106MW2I-P2P-041118	1,3-Dibromoproane: 43%	45-152%	J- for detected results and UJ for non-detected results
	106EX1-P2P-041118	1,3-Dibromoproane: 840%	45-152%	J+ for detected results
	106EX2-P2P-041118	1,3-Dibromoproane: 40%	45-152%	J- for detected results and UJ for non-detected results
EPA SW8011	106MW2I-P3P-100218	Pentachloroethane: 165%	60-114%	J+ for detected results
	106064-P3P-100418	Pentachloroethane: 186%	60-114%	J+ for detected results

Note: Data qualification definitions are included in Table 2.

% percent.

FD field duplicate.

EPA U.S. Environmental Protection Agency.

As shown above, one or more surrogates in the listed VOC samples was recovered outside the control

range while recoveries of the remaining surrogates in the same VOC samples met the accuracy

requirements. As a result of the low biased surrogate recoveries, the detected results and the LOQ for non-detected data in the entire sample were qualified as estimated (J-) and (UJ), respectively. Due to the high biased surrogate recoveries, the detected results in the listed VOC samples were qualified as estimated (J+); however, the high biased surrogate recoveries did not affect the data quality of the nondetected results in the same sample and did not lead to any data qualification of the non-detected data.

In Table 1.1.4- Summary of Surrogate Recovery Exceedances, the listed surrogate recovery exceedances were associated with the final EDB reported results.

Surrogate spiking is not a requirement for EPA Method SW8011 and therefore surrogate control limits are advisory and are based on laboratory in-house control limits. During the Second Quarter 2012, CB&I Federal Services (currently APTIM) requested that Empirical laboratory add a surrogate to the EDB samples analyzed by EPA Method SW8011 as an additional QC control. As requested, the laboratory spiked the field and QC samples with the surrogate 1,3-dibromopropane for the quarterly groundwater monitoring program and continued to use this surrogate for this EDB pilot test project.

As discussed in this report, elevated concentrations of EDB and/or other VOC compounds such as benzene, toluene, ethylbenzene, and xylenes were reported in the same groundwater samples with elevated surrogate recoveries. The elevated sample concentrations do indicate the presence of matrix interference with the surrogate 1,3-dibromopropane recovery in the EPA Method SW8011 analysis. For all affected analytical batches, the data review indicated the following:

- EDB in the associated LCS/LCSD analyses met the accuracy requirements for both columns;
- The surrogate 1,3-dibromopropane in the LCS/LCSD samples associated with the groundwater sample surrogate recovery exceedances, was recovered within the accuracy requirements for both columns; and

• The surrogate 1,3-dibromopropane in the laboratory method blanks associated with the groundwater sample surrogate recovery exceedances, was recovered within the accuracy control limits for both columns.

Multiple analytical batches (LCS/LCSD and method blanks) indicated that the analytical system was in control. The acceptable LCS/LCSD results, and acceptable LCS/LCSD and laboratory method blank surrogate recoveries in the blank water matrix also indicated a matrix interference introduced during sample analysis.

In addition, each groundwater sample was analyzed for EDB by two separate methods and by two different EDB quantitation techniques; EDB by EPA Method SW8011 and EDB by EPA Method SW8260B. When EDB was detected by both EPA Methods SW8011 and SW8260B, EDB results were generally comparable. The following table summarizes the results of EDB from both columns by EPA Method SW8011 and by EPA Method SW8260B, for samples with elevated surrogate recoveries.

Sample Number	EPA 8011 Surrogate % Recovery	SW8260 (µg/L)	SW8011 (µg/L) column 1	SW8011 (µg/L) column 2
106064-BL-081617	(1,3-Dibromopropane) 315%	9.65	6.27	6.27
			•	
106064-BL-091917	1280%	148	143	130
106MW2S-BL-091917	1010%	106	84.9	78
106MW1S-BL-091917	1360%	415	432	427
106IN-BL-092617	463%	28.6	19	20.1
106EX1-BL-092617	417%	40.1	30.2	31.3
106EX2-BL-092617	420%	146	140	143
106064-P2R-012518	2350%	62.8	77.1	80.3
106063-P2R-012518	195%	<25 (DF at 50)*	2.47	2.44
Sample Number	EPA 8011 Surrogate	SW8260 (µg/Ĺ)	SW8011 (µg/L)	SW8011 (µg/L)
•	% Recovery		column 1	column 2
	(1,3-Dibromopropane)			
106EX2-P2R-012518	3820%	122	90.9	83.7
106MW2I-P2P-030618	183%	<5 (DF at 5)*	1.98	1.58
106MW2I-P2P-030618FD	183%	<5 (DF at 5)*	1.61	1.35
106MW1I-P2P-030618	1090%	16.9	22.9	21.7
106MW1S-P2P-030618	2540%	128	92.5	75.4
106063-P2P-030618	935%	<25 (DF at 50)*	4.4	4.4
106064-P2P-030718	1040%	<100 (DF at 200)*	26.8	25.5
106MW2S-P2P-030718	991%	<50 (DF at 100)*	8.25	7.87
106EX1-P2P-030718	1030%	<50 (DF at 100)*	13.7	12.5
106EX2-P2P-030718	2590%	116	94.8	75.2
106064-P2P-041018	774%	<50 (DF at 100)*	11.1	12.6

 Table 1.1.4b: Summary of EDB Results from EPA Methods 8011 and 8260B

106063-P2P-041018	815%	<25 (DF at 50)*	3.4	3.78
106MW1I-P2P-041018	930%	9.78	15.1	16.2
106MW1S-P2P-041118	830%	62.9	76.4	85.5
106EX1-P2P-041118	840%	<50 (DF at 100)*	3.45	3.74
106064-P3P-100418	186%	<44 (DF at 100)*	0.32	0.27

*EDB in the VOC analysis by SW8260B was not detected at the limit of detection. VOC samples were analyzed at the listed dilution factor due to elevated concentrations of VOC target analytes in the samples. DF: dilution factor

Empirical was the primary laboratory supporting the Kirtland AFB quarterly groundwater monitoring project and the EDB pilot test project. During the pilot test, APTIM had ongoing communications with the laboratory. When there was a QC issue or data concern with the EDB analysis by EPA Method SW8011, APTIM requested that the laboratory investigate the issues and take corrective actions, as summarized below:

- Review sample preparation logs to verify if there were spiking errors and if there were dilution errors;
- Review instrument raw data and chromatograms to verify if EDB sample results and associated QC results were calculated correctly and adjusted for the dilution factor;
- Re-prepare and re-analyze the affected samples (if there was sufficient sample) to verify the QC exceedance

APTIM re-reviewed the laboratory case narrative. As stated in the case narrative, the concentrations of EDB were high and exceeding the instrument linear range. The affected samples were analyzed at multiple dilutions. The surrogate recoveries in the diluted analysis exceeded the acceptance criteria. APTIM also re-calculated surrogate recoveries to verify the reported recoveries. The re-calculated surrogate recoveries matched the reported values.

The National Functional Guidelines for Superfund Organic Methods Data Review (EPA, January 2017), the EPA provides the following data qualification guidelines when surrogates are recovered outside the control criteria:

• If the surrogate recovery% is greater than the upper acceptance limit, qualify detects as estimated high (J+). Non-detects should not be qualified.

In the DoD QSM (Version 5.1.1, 2018) Appendix B-1 for organic analysis by gas chromatography, the DoD provides the following flagging criteria when surrogates are recovered outside the control:

• Apply Q-fag to all associated analytes if acceptance criteria are not met and explain in the case narrative.

The *National Functional Guidelines for Superfund Organic Methods Data Review* (EPA, January 2017), the EPA further recommends that we evaluate other QC information when assessing overall data quality and usability. As discussed in the data quality evaluation report, all other QC elements associated with the EDB samples in question met the acceptance criteria. Other QC elements that met the QC requirements included the following:

EDB analysis by EPA Method SW8011:

- Sample preservation
- Analysis holding time
- Laboratory method blanks; and surrogate recoveries for both columns in the laboratory method blanks
- LCS/LCSD recoveries; and surrogate recoveries for both columns in the LCS/LCSD samples
- Precision results between the primary column and secondary column

Based on a combination of indicators discussed above, the qualified EDB results by EPA Method SW8011 are considered estimated with a high bias (J+) and are usable for project decisions. The concentrations of EDB in two samples (106MW2S-BL-080717 and 106MW1S-P2R-011818) exceeded the instrument's upper calibration limit and were qualified as estimated (J, reason code E). Since the

affected samples were already expired when the issue was discovered, no dilutions were performed to quantify the concentrations of EDB within the instrument range. There is no impact on the data usability because of this data quality issue.

EDB by EPA Method SW8011 is identified and quantified by a dual-column gas chromatography technique. As required by the DoD QSM (2017) and site-specific QAPjP (USACE 2011), the accuracy of the EDB analysis is demonstrated through spiking surrogates into samples. Recoveries of surrogates from both the primary and secondary columns were reviewed to verify the accuracy of the analysis. The review indicated that the surrogate 1,3-dibromopropane from the secondary column in several EDB samples analyzed by EPA Method SW8011 was recovered outside the accuracy control criteria; however, the surrogate 1,3-dibromopropane from the primary column in the same EDB samples was recovered within the control criteria. Since the EDB results in the affected samples were reported from the compliant column with acceptable surrogate recovery data, the data quality of the EDB results from the compliant column was not affected, and no data qualification was warranted.

Except where noted above, surrogates in all other VOC and EDB samples were recovered with the acceptance criteria.

1.1.5 Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries and Precisions (Reason Codes L, D3, and D1)

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. Non-compliant LCS biases were reported for EPA Methods SW8260B, SW9056A and SW6010C as presented below:

Analytical Method	Laboratory Batch Number	LCS Recovery Outlier (%)	Control Limit (%)	Data Qualification
EPA SW8260B	680-549803	Naphthalene: 153/147%	61-128%	J+ for detected results
EPA SW9056A	8A24009	Sulfate: 120%	87-112%	J+ for detected results
EPA SW6010C	8A31003	Iron: 85%	87-115%	J- for detected results and UJ for non-detected results
	8A31003	Manganese: 81%	90-114%	J- for detected results and UJ for non-detected results
	8D17017	Manganese: 118%	90-114%	J+ for detected results

Table 1.1.5: Summary of LCS Recovery Exceedances

Note: Data qualification definitions are included in Table 2.

% percent.

EPA U.S. Environmental Protection Agency.

LCS laboratory control sample.

As presented above, naphthalene, sulfate, and manganese (batch 8D17017) in the LCS analysis were recovered higher than their respective upper control limits. The LCS recovery outliers led to qualification of the detected results as estimated (J+); however, the high biased recoveries did not affect the non-detected data. Low biased LCS recoveries were also observed for iron and manganese (batch 8A31003). As a result of the low biased LCS recoveries, the detected results and LOQ for non-detected data were qualified as estimated (J-) and (UJ), respectively. This qualification was applied to the results of the listed analytes in all samples in the non-compliant batch. As shown above, the reported LCS recovery outliers were minor and thus the data usability of the qualified results is not affected.

The LCS results meet the acceptance criteria for all other analyses.

In addition to the LCS analysis, the laboratory performed a sample duplicate analysis on project-specific groundwater samples to assess precisions of sample results. The laboratory duplicate analysis was performed on samples submitted for anions and metals analyses. Acceptable precisions results were reported for both analyses.

1.1.6 Matrix Spike/Matrix Spike Duplicate Recoveries and Precisions (Reason Codes M and D2)

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

In accordance with the site-specific 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 each sampling event, one MS/MSD sample was collected from a Pilot Test well thus achieving the 5% MS/MSD sample frequency requirement. MS/MSD samples were analyzed for VOCs, EDB, dissolved metals, dissolved gases, VFAs, and wet chemistry parameters to verify the presence of a matrix effect and its potential impact on the precision and bias of the analytical results.

The majority of the MS results meet the established bias and precision requirements; however, MS recoveries and/or precision outliers were observed for VFAs, dissolved gases, wet chemistry parameters, and VOC analyses, which are summarized as follows:

Analytical Method	Spiked Sample	MS Recovery or Precision Outlier (%)	Control Limit (%)	Data Qualification
EPA 300.0M	106MW2I-P2R-010918	Lactic acid: 76/65%, RPD: 15.5%	66-130%, RPD: 9.9%	J for detected results
	106MW2I-P2R-010918	Acetic acid: RPD: 17.1%	RPD: 16.1%	J for detected results
	106MW2I-P2R-010918	Propionic acid RPD: 14.7%	RPD: 12.6%	J for detected results
	106IN1-P2R-011018	Lactic acid: RPD: 11.3%	RPD: 9.9%	J for detected results
	106IN1-P2R-012418	Lactic acid: RPD: 11%	RPD: 9.9%	J for detected results
	1061N1-P2P-061418	Lactic acid: RPD: 33.4%	RPD: 9.9%	J for detected results
	1061N1-P2P-061418	Acetic acid: RPD: 36.7%	RPD: 16.1%	J for detected results
	1061N1-P2P-061418	Propionic acid RPD: 35.2%	RPD: 12.6%	J for detected results
	1061N1-P2P-061418	Formic acid RPD: 39.8%	RPD: 14.6%	J for detected results
	1061N1-P2P-061418	Pyruvic acid RPD: 40.6%	RPD: 20.8%	J for detected results
	1061N1-P2P-061418	Valeric acid RPD: 21%	RPD: 17.2%	J for detected results
EPA 300.0	106IN1-P2P-010218	lodide: 142%	90-110%	J+ for detected results

Table: 1.1.6: Summary of MS Recovery or Precision Exceedances

Analytical Method	Spiked Sample	MS Recovery or Precision Outlier (%)	Control Limit (%)	Data Qualification
	106064-P2P-041018	lodide: 84%	90-110%	J- for detected results and UJ for non-detected results
	106064-P3P-111418	lodide: 115%	90-110%	J+ for detected results
	106MW1S-P4P-011619	lodide: 116%	90-110%	J+ for detected results
RSK 175	106063-P2R-012518	Methane: 109/126%	80-120%	J+ for detected results
EPA SW 9056A	106063-P1P-102417	Bromide: 84/84%	91-110%	J- for detected results and UJ
	106EX1-P2R-011018	Bromide: 82/88%	91-110%	for non-detected results J- for detected results and UJ for non-detected results
	106MW2S-P2R-011618	Chloride: 114/113%	87-111%	J+ for detected results
	106MW2I-P2R-011818	Chloride: 115/115%	87-111%	J+ for detected results
	106MW2I-P2P-012518	Bromide: 86/87%	91-110%	J- for detected results and UJ
	106063-P2P-041018	Bromide: 83/84%	91-110%	for non-detected results J- for detected results and UJ for non-detected results
	106MW1I-P2P-050818	Bromide: 88/89%	91-110%	J- for detected results and UJ for non-detected results
	106064-P2P-050818	Bromide: 88/88%	91-110%	J- for detected results and UJ for non-detected results
	106064-P2P-091218	Nitrate/Nitrite as N: 72/72%	88-111%	J- for detected results and UJ for non-detected results
	106064-P2P-091218	Bromide: 136/139%	91-110%	J+ for detected results
	106064-P2P-091218	Sulfate: 123/127%	87-112%	J+ for detected results
	106MW2I-P3P-100218	O-Phosphate: 34%	80-116%	J- for detected results and UJ for non-detected results
	106MW1I-P3P-100318	O-Phosphate: 69/69%	80-116%	J- for detected results and UJ for non-detected results
	106063-P3P-111518	O-Phosphate: 40/43%	80-116%	J- for detected results and UJ for non-detected results
	106IN1-P3P-111918	O-Phosphate: 65/60%	80-116%	J- for detected results and UJ for non-detected results
	106064-P4P-011619-FD	Nitrate/Nitrite as N: 79/78%	88-111%	J- for detected results and UJ for non-detected results
EPA SW 9056A	106063-P4P-011719	O-phosphate: 63/60%	80-116&	J- for detected results and UJ for non-detected results
	106063-P4P-011719	Nitrate/Nitrite as N: 86/81%	88-111%	J- for detected results and UJ for non-detected results
	106EX1-P4P-012119	O-phosphate: 54/55%	80-116&	J- for detected results and UJ for non-detected results
	106EX2-P4P-012119	Nitrate/Nitrite as N: 87/87%	88-111%	J- for detected results and UJ for non-detected results
EPA SW6010C	106064-BL-081617	Iron: 67/72%	87-115%	J- for detected results and UJ for non-detected results
	106064-BL-081617	Manganese: 60/69%	90-114%	J- for detected results and UJ for non-detected results
	106MW1I-BL-091817	Iron: 78/72%	87-115%	J- for detected results and UJ for non-detected results
	106MW1I-BL-091817	Manganese: 80/80%	90-114%	J- for detected results and UJ for non-detected results
	106MW2S-P2R-010918	Iron: 86/88%	87-115%	J- for detected results and UJ for non-detected results
	106EX1-P3P-111918	Manganese: 173/114%	90-114%	J+ for detected results
SM2320	106MW2S-BL-080717	Alkalinity: 73/74%	75-125%	J- for detected results and UJ for non-detected results
	106MW2S-P2R-010918	Alkalinity: 59/60%	75-125%	J- for detected results and UJ for non-detected results
	106EX1-P2R-011018	Alkalinity: 58/60%	75-125%	J- for detected results and UJ for non-detected results

Analytical Method	Spiked Sample	MS Recovery or Precision Outlier (%)	Control Limit (%)	Data Qualification
SM2320	106MW1I-P2P-050818	Alkalinity: 62/71%	75-125%	J- for detected results and UJ for non-detected results
EPA SW8260B	106IN1-P2P-041118	Toluene: 66/55%	80-121%	J- for detected results and UJ for non-detected results
	106IN1-P2P-041118	Xylenes: 90/77%	79-121%	J- for detected results and UJ for non-detected results
	106MW2S-P2P-050918	Ethylbenzene: 77/73%	79-121%	J- for detected results and UJ for non-detected results
	106MW2S-P2P-050918	Xylenes: 67/59%	79-121%	J- for detected results and UJ for non-detected results

Note: Data qualification definitions are included in Table 2.

% percent.

EPA U.S. Environmental Protection Agency.

MS matrix spike.

RPD relative percent difference.

As a result of the MS recoveries and precisions outliers, the detected results and the LOQ for nondetected results were qualified as estimated. This data qualification was applied to the results of the listed analytes in all samples in the batch. With the exceptions of o-phosphate in 3 spiked samples (106MW2I-P3P-100218, 106063-P3P-111518, and 106EX1-P4P-012119), the reported MS and MSD recoveries did not significantly deviate from the lower or upper control criteria, and thus the data usability of the qualified data is not affected. The LCS results associated with the non-complaint batches met the bias and precision control criteria, which demonstrated that acceptable batch bias and precision were achieved for VFAs, dissolved gases, anions, alkalinity, metals, and VOC analyses.

In addition to above, the reported MS recoveries were outside the accuracy specifications for dissolved iron and manganese, EDB and VOCs in a few spiked samples. These non-compliant MS results could be attributed to a matrix effect. In the spiked samples, the parent concentrations of metals, EDB, and VOCs exceeded four times their respective spiked levels. These elevated sample concentrations produced matrix interference, which affected the accuracy of the MS analysis. Because the sample concentrations were greater than four times the spiked levels, no data qualification was applied to the results of the metals, EDB, and VOCs.

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 VOC, EDB, dissolved gases, VFAs, metals, and anions 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 were acceptable for all the listed analyses.

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

1.1.8 Continuing Calibration Verification (Reason Code C)

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

Analytical Method	Calibration ID	CCV Outlier, D (%)	Control Limit (%)	Data Qualification
EPA SW8260B	7G18602	Isopropylbenzene: 20.5	<20%	J+ for detected results
	7G18602	Naphthalene: 24.6	<20%	J+ for detected results
	7H22101-CC11	Naphthalene: 26.3%	<20%	J+ for detected results
	7i26801-CCV1	2-Butanone: -20.8%	<20%	J- for detected results and UJ for
				non-detected results

Table 1.1.8: Summary of Continuing Calibration Verification Exceedances

Analytical Method	Calibration ID	CCV Outlier, D (%)	Control Limit (%)	Data Qualification
	7i26801-CCV1	2-Hexahnoe: -24.9%	<20%	J- for detected results and UJ for non-detected results
	7i26801-CCV1	4-Methyl-2-Pentanone: -20.6%	<20%	J- for detected results and UJ for non-detected results
	7H22101-CC11	Acetone: 28.3%	<20%	J+ for detected results
	7K33101	Acetone: -22.7%	<20%	J- for detected results and UJ for non-detected results
	8C06802-CCV1	Acetone: 31	<20%	J+ for detected results
	8C06802-CCV1	2-Butanone: 26.9%	<20%	J+ for detected results
	8C06802-CCV1	2-hexanone: 37%	<20%	J+ for detected results
	8C07201-CCV1	2-Hexanone: 24.2%	<20%	J+ for detected results
EPA SW8011	7126314	EDB: -20.1%	<20%	J- for detected results and UJ for non-detected results
	680-555834	EDB: -23.3%	<20%	J- for detected results and UJ for non-detected results
EPA SW6010C	8D10706-CCV1	Iron: 89.9%	90-110%	J- for detected results and UJ for non-detected results
SM4500 PE	7I27105-CCV1	O-phosphate: 111%	90-110%	J+ for detected results
EPA SW9056A	8A01909-CCV2	Sulfate: 112%	90-110%	J+ for detected results
	8A024010-CCV1	Sulfate: 117%	90-110%	J+ for detected results

Note: Data qualification definitions are included in Table 2.

% percent.

CCV continuing calibration verification.

EPA U.S. Environmental Protection Agency.

ID identification.

As a result of the low biased %D values, the detected results and the LOQs for the non-detected analytes were qualified as estimated (J-) and (UJ), respectively. The high biased %D values led to qualification of detected results as estimated (J+), but did not affect the non-detected data. 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 the CCV outliers was minor and did not affect the data usability.

1.1.9 Interference Check Samples (Reason Code O)

The ICS verifies the inter-element and background correction factors. An ICS was analyzed at the required frequencies, and all ICS results were within the established control limit for EPA Method SW6010C for the Pilot Test groundwater sampling events.

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. When the concentration of an analyte exceeds 50 times the method detection limit, an ICP

serial dilution is performed at a five-fold dilution and the results between the original analysis and the diluted analysis are compared. The results of the ICP serial dilution are deemed acceptable when a %D between the original analysis and the diluted analysis is less than or equal to 10%. An ICP serial dilution was performed on groundwater samples collected during the Pilot Test groundwater sampling period. ICP serial dilution results that exceed the 10% accuracy goal are presented below:

Analytical Method	Sample Number	ICP Serial Dilution Outlier (%)	Control Limit (%)	Data Qualification
EPA SW6010C	106064-BL-081617	Iron: 22%	10%	J for detected results
	106064-P2P-041018	Iron: 14.1%	10%	J for detected results

Note: Data qualification definitions are included in Table 2.

% percent.

EPA U.S. Environmental Protection Agency.

ICP inductively coupled plasma.

The results of iron in the affected samples were qualified as estimated (J) as a result of the non-compliant ICP serial dilution. The data usability of the qualified results is not affected. The ICP serial dilution results met the accuracy goal for all other samples and for all other metals.

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 highperformance liquid chromatography method, all positive results, with the exception of total petroleum hydrocarbons as gasoline and diesel, must be confirmed by a second column or a different detector. As indicated in all SDGs for the entire Pilot Test sampling period, 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 Number	Precision Outlier (%)	Control Limit (%)	Data Qualification
EPA SW8011	106MW2S-P2P-050918	RPD: 50%	<40%	J for detected results
	106064-P3P-111418	RPD: 106%	<40%	J for detected results
	106MW2S-P3P-111518	RPD: 83%	<40%	J for detected results
	106IN1-P3P-111918	RPD: 67%	<40%	J for detected results

Table 1.1.11: Summary of EDB Precision Exceedances

Note: Data qualification definitions are included in Table 2.

% percent.

EPA U.S. Environmental Protection Agency.

RPD relative percent difference.

As indicated above, the reported precisions for the listed samples exceeded the acceptable precision control limit of less than or equal to 40%. As a result of the non-compliant precisions, the detected EDB results in the affected samples were qualified as estimated (J). In the listed samples, the reported EDB concentrations were low and slightly below the LOQ. Precision cannot be accurately measured as sample results are approaching the LOQ. There is no impact on the data usability because of this data quality outlier. It should be noted that the LCSD RPD associated with the listed EDB samples met the precision requirement, thus indicating acceptable laboratory batch precision. It should be also noted that both the EPA Method SW8011 and DoD QSM (2017) do not require laboratory corrective actions due to the non-compliant precision results between the two columns.

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

1.1.12 Trip Blanks (Reason Code K3)

Trip blanks were prepared by the laboratory and stored with the groundwater samples collected for VOCs analysis. In accordance with the site-specific QAPjP requirements (USACE, 2011), one trip blank is to be collected at a rate of one per cooler when sampling groundwater samples for VOC analysis.

During each sampling event, one trip blank per cooler was submitted with VOC samples collected on each day, achieving the trip blank collection frequency requirement. Appendix I-1 – Table 4 summarizes the detected trip blank results and associated sample results. Positive results in the trip blank are presented as follows:

Analytical Method	Trip Blank	Contaminants	Detected Level (µg/L)	LOQ (µg/L)
EPA SW8260B	TB-081617	Acetone	2.53	10
	TB-091817	Carbon disulfide	0.279	1
	TB-091917	Carbon disulfide	0.256	1
	TB-092617	Carbon disulfide	0.289	1
	TB-102517	Acetone	3.27	10
	TB-111617	Acetone	4.17	10

Table 1.1.12: Summary of Trip Blank Detections

Note: Data qualification definitions are included in Table 2.

µg/L microgram(s) per liter.

EPA U.S. Environmental Protection Agency.

LOQ limit of guantitation.

The detected result for acetone in one groundwater sample associated with the trip blank (TB-081617) was qualified as non-detected (U) at the LOQ due to low-level trip blank detection. Acetone and carbon disulfide in groundwater samples shipped with the remaining listed trip blanks were not detected or their detected levels far exceeded 5 times (or 10 times for common laboratory contaminant such as acetone) the levels observed in the trip blanks, and thus the trip blank detections did not affect the sample results and did not lead to any data qualification of any sample results. Except where noted above, the remaining trip blanks were free of VOCs. Overall, the trip blank results were acceptable and demonstrated that valid sample storage and shipping procedures were being implemented.

1.1.13 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.

In accordance with the site-specific QAPjP requirements (USACE, 2011), no equipment rinse blanks will be collected when dedicated or disposable sampling equipment is used to collect groundwater samples. When non-dedicated or non-disposable sampling equipment is used, one equipment rinse blank will be collected at a rate of one per day. During the Pilot Test groundwater sampling events, dedicated sampling equipment was used to collect the majority of the groundwater samples. A stainless steel bailer was used to collect samples from the injection well (KAFB-106IN1) in October, November, and January 2019. As no cross-contamination between wells or samples could occur, no equipment rinse blanks were necessary in these cases.

1.1.14 Field Duplicates

In accordance with the site-specific QAPjP requirements (USACE, 2011) and Pilot Test Work Plan, 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 at or above the LOQ.

During each sampling event, one duplicate pair was collected from a Pilot Test well, thereby achieving the 10% of the field duplicate frequency requirement. All duplicate pairs were analyzed for VOCs, EDB, dissolved gases, VFAs, dissolved metals, and wet chemistry parameters. In addition, groundwater

samples from the selected sampling events were analyzed for tracers (hydrogen stable isotope and fluorescein dye). Field duplicates were not collected for QuantArray-Chlor or EDB stable isotope analysis.

Appendix I-1 – Table 5 presents the field duplicate results for the entire Pilot Test groundwater monitoring period. As presented on the table, field duplicate results of VOCs, EDB, VFAs, and wet chemistry parameters in one or more wells exceeded the field precision goal, which are summarized below:

EPA Method SW8260B

- Toluene: 69.71% (106MW2I-BL-091917)
- Trichloroethene: 96.3% (106MW2I-P3P-111518)

EPA Method SW8011

- EDB: 51.55% (106MW2I-BL-091917)
- EDB: 52.38% (106064-P2P-050918)

EPA Method SW9056A

- O-phosphate:129.1% (106064-P2P-061418)
- Bromide: 35.29% (106064-P4P-011619)

EPA Method 300.0M

- Acetic acids: 64.74% and propionic acids: 73.86% (106EX2-P2P-011018)
- Acetic acids: 45.87% and lactic acid: 48.34% (106MW2I-P2P-030618)
- Valeric acid: 70.59% (106MW2S-P2P-041018)

Except where noted above, the majority of the field duplicate results met the precision goal. The field duplicate results demonstrate acceptable overall field sampling and analytical precision for all methods.

1.2 Completeness

The following sections present a discussion of contractual, analytical, technical, and holding time completeness for the Pilot Test groundwater monitoring events. Completeness calculations were performed only for the groundwater samples that are used for project decisions. Completeness results are presented in Appendix I-1 – Table 6.

1.2.1 Contractual Completeness

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

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

With the exceptions listed below, the 95% analytical completeness objective was achieved for all the methods for the Pilot Test groundwater monitoring events.

- O-Phosphate by SM Method 4500PE 93.1%
- Dissolved metals by EPA Method SW6010C 92.5%

Largely due to low-level laboratory method blank contamination for o-phosphate and non-compliant LCS recoveries for dissolved metals, the 95% contractual completeness goal was not achieved for the above two methods. The affected results were qualified as estimated or non-detetected, the data usability however is not affected.

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 missed holding times and exceedances of QC requirements based on calibration, LCS, MS/MSD, surrogate, method precision, and laboratory method blank contamination results. The analytical completeness goal for each method is 90% for the project. Analytical completeness is calculated as follows:

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

The 90% analytical completeness objective was met for the majority of the analyses. Exceptions are summarized below:

- Dissolved metals by EPA Method SW6010C 88.4%
- EDB by EPA Method SW8011–77.4%

While the results of dissolved metals and EDB in some samples were qualified as estimated due to QC outliers discussed in the previous sections, the data usability of the qualified data is not affected. Qualified data are still usable to achieve the project data quality objectives.

1.2.3 Technical Completeness

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

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

As discussed in the previous section, the non-detected results were not usable and rejected for nitrate and nitrite as nitrogen in five samples and o-phosphate in four samples due to the holding time exceedances. The technical completeness for EPA Method SW9056A was 98.8% and 100% for all other methods exceeding the 95% technical completeness objective. Therefore, the project data quality objectives were achieved for all methods for the Pilot Test groundwater monitoring events.

1.2.4 Holding Time Completeness

Holding time completeness is defined as the ratio of the number of samples analyzed within the analysis holding time to the total number of samples collected. The holding time completeness goal for each method is 100%. For the Pilot Test groundwater monitoring events, the holding time completeness was 100% for all methods with the following exceptions:

- Alkalinity by SM 2320B 96.2%
- O-phosphate by SM 4500 PE 98.3%
- VOCs by EPA Method SW8260B 99.9%
- Anions by EPA Method 9056A 98.3%

As discussed in the previous sections, alkalinity in 7 samples, bromide in 3 samples, o-phosphate in 7 samples, nitrate and nitrite as nitrogen in 5 samples, and toluene in 4 VOC samples were analyzed outside their respective holding time requirements. The results of alkalinity, bromide and toluene in the affected samples were qualified as estimated, the data usability of these qualified results however is not affected. While the non-detected results for o-phosphate in 4 samples and nitrate and nitrite as nitrogen in 5

samples were rejected, the technical completeness for EPA Method 9056A was 98.3% and met the 95% technical completeness objective.

1.3 Analysis Completeness

As a part of the data review process, APTIM reviewed chain-of-custody forms against the laboratory data packages and electronic data deliverables to ensure that analytical results were reported for all the requested methods and samples. On August 7, 2018, four groundwater samples were collected from wells KAFB-106MW1-I, KAFB-106MW2-I, KAFB-106MW1-S, and KAFB-106MW2-S and shipped to Empirical laboratory for VOCs, EDB, dissolved metals, and anions analyses. Due to Empirical laboratory closure, these four samples were not recovered from the laboratory and were not analyzed and reported from either Empirical or Test America. The listed four wells were re-sampled for VOCs, EDB, dissolved metals and anions on August 15, 2018 and were analyzed and reported by Test America. With the exception of the four samples from August 7, 2018, the review indicated that analytical results were reported for all methods and for all samples as planned.

1.4 Representativeness and Comparability

During sampling, samplers followed the approved Pilot Test Work Plan, site-specific QAPjP requirements (USACE, 2011) and established sampling SOPs to collect, preserve, document, and ship samples to off-site laboratories, thus ensuring the representativeness of the groundwater samples collected for the Pilot Test groundwater monitoring period.

From each groundwater monitoring well, VOC samples were collected in three 40-milliliter (mL) volatile organic analysis (VOA) vials preserved with hydrochloric acid, and EDB samples by EPA Method SW8011 were stored in three 40-mL VOA vials preserved with ice only. Upon sample receipt, the laboratory reviewed sample conditions to ensure that sample containers, preservatives (when applicable), and requested analyses matched the chain-of-custody requirements. The laboratory also reviewed VOA

vials to verify the presence or absence of any headspace. As documented on the laboratory case narratives and sample receipt forms, a pea-size headspace was present in a few VOC and EDB samples. Following EPA guidance and laboratory SOP requirements, the laboratory selected available vials without any headspace for the requested analysis to ensure that the reported data were representative. As the VOA vial selected for the analysis was bubbles free, there is no impact on the data quality and usability.

The primary laboratories Empirical and Test America in Savannah, West Sacramento, and Earth City are DoD Environmental Laboratory Accreditation Program-certified and adhered to the most current EPA Method and SM requirements, site-specific QAPjP (USACE, 2011), and DoD QSM (2017) requirements to prepare, analyze, and report the data. This ensures the comparability of the analytical results between different samples and different sampling events. An EPA Level III data review was performed on 100% of the samples submitted for VOCs, EDB, dissolved metals, dissolved gases, VFAs, and wet chemistry analyses to verify that the laboratories complied with the DoD QSM, site-specific QAPjP, and method requirements. Limited data review was also performed for the results of QuantArray-Chlor, fluorescein dye, hydrogen and EDB stable isotope. Analytical results that were outside the established QC requirements were qualified and the data quality and usability were discussed in the previous sections. Based on a review of the completed sample collection logs, chain-of-custody forms, sample receipt forms, and laboratory data packages, the analytical results reported for the Pilot Test groundwater monitoring events have met the comparability requirements.

1.5 Summary

The analytical data reported for the Pilot Test groundwater monitoring events have been reviewed for precision, bias, representativeness, comparability, and completeness. Data quality exceedances consisted of holding time outliers, biased surrogate, LCS, and MS/MSD recoveries and precisions, non-compliant precisions between primary and secondary columns, CCV and ICP serial dilution outliers, and low-level laboratory and field blank contamination. The affected data were qualified as estimated or not detected.

With the exception of holding time violations for four o-phosphate samples and five nitrate and nitrite as

nitrogen samples, the degree of these data quality exceedances was considered minor, and the data

usability was not affected. As a result of the holding time violations, the non-detected results for o-

phosphate in four samples and nitrate and nitrite as nitrogen in five samples were rejected and not usable.

The 95% technical completeness goal was exceeded for all methods for the Pilot Test groundwater

monitoring events. All data are usable for their intended purposes.

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TABLES

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Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
			106EX1-BL-			
		KAFB-106EX1	062917	REG	E300	TASTL
	160-23091-	KAFB-106EX2	106EX2-BL-	REG	E300	TASTL
	1		062917			
		KAFB-106IN1	106IN1-BL-062917	REG	E300	TASTL
			106EX1-BL-			
		KAFB-106EX1	062917	REG	QUANTARRAY	MI
	71_1440F	KAFB-106EX2	106EX2-BL-	REG	QUANTARRAY	МІ
			062917	1120		
		KAFB-106IN1	106IN1-BL-062917	REG	QUANTARRAY	MI
			106EX1-BL-	550	E300M	APTIM
		KAFB-106EX1	062917	REG	RSK-175	APTIM
	9720	KAFB-106EX2	106EX2-BL-	REG	E300M	APTIM
	0120		062917	1.20	RSK-175	APTIM
		KAFB-106IN1	106IN1-BL-062917	REG	E300M	APTIM
			106EX1-BL-		RSK-175	APTIM
		KAFB-106EX1	062917	REG	FLUORIMETRIC	CHL
	FLUOD		106EX2-BL-	550		0
	FLUOR	KAFB-106EX2	062917	REG	FLUORIMETRIC	CHL
		KAFB-106IN1	106IN1-BL-062917	REG	FLUORIMETRIC	CHL
						EPLN
06/29/2017					E353.2 SM2320B	EPLN
00/23/2011			106EX1-BL- 062917 106EX2-BL- 062917		SM4500PE	EPLN
		KAFB-106EX1 KAFB-106EX2		REG	SW6010C	EPLN
					SW80110	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
				REG	SM4500PE	EPLN
	KAFB_001				SW6010C	EPLN
	1011 D_001				SW80110	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
				REG	E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106IN1	106IN1-BL-062917		SW6010C	EPLN
				-	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106EX1	106EX1-BL-	REG	IRMS	USGS
		KAPB-100EX1	062917	REG	INW3	0363
	USGS	KAFB-106EX2	106EX2-BL-	REG	IRMS	USGS
			062917			
		KAFB-106IN1	106IN1-BL-062917	REG	IRMS	USGS
	160-23091-					
	100 2000 1	KAFB-106063	106063-BL-071817	REG	E300	TASTL
	160-23091-		106MW1I-BL-	DEO	F200	TAOTI
	1	KAFB-106MW1-I	071817	REG	E300	TASTL
7/18/2017		KAFB-106063	106063-BL-071817	REG	QUANTARRAY	MI
.,	56 056OG					1011
		KAFB-106MW1-I	106MW1I-BL-	REG	QUANTARRAY	MI
			071817			
	9722	KAFB-106063	106063-BL-071817	REG	E300M	
					RSK-175	APTIM

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
	9722	KAFB-106MW1-I	106MW1I-BL-	REG	E300M	APTIM
	9722	KAFB-100WW 1-I	071817	REG	RSK-175	APTIM
	FLUOR	KAFB-106063	106063-BL-071817	REG	FLUORIMETRIC	CHL
	FLOOR	KAFB-106MW1-I	106MW1I-BL- 071817	REG	FLUORIMETRIC	CHL
					E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106063	106063-BL-071817	REG	SW6010C	EPLN
					SW8011	EPLN
7/18/2017					SW8260B	EPLN
1/10/2017					SW9056A	EPLN
	KAFB_001				E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106MW1-I	106MW1I-BL-	REG	SW6010C	EPLN
			071817		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
	USGS	KAFB-106063	106063-BL-071817	REG	IRMS	USGS
		KAFB-106MW1-I	106MW1I-BL- 071817	REG	IRMS	USGS
	160-23530- 1		106MW2I-BL- 072417	REG	E300	TASTL
		KAFB-106MW2-I	106MW2I-BL-FD- 072417	FD	E300	TASTL
	56_056OG	KAFB-106MW2-I	106MW2I-BL- 072417	REG	QUANTARRAY	МІ
			106MW2I-BL-	550	E300M	APTIM
	0705		072417	REG	RSK-175	APTIM
	9725	KAFB-106MW2-I	106MW2I-BL-FD-		E300M	APTIM
			072417	FD	RSK-175	APTIM
7/24/2017	FLUOD		106MW2I-BL- 072417	REG	FLUORIMETRIC	CHL
	FLUOR	KAFB-106MW2-I	106MW2I-BL-FD- 072417	FD	FLUORIMETRIC	CHL
					E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
	KAFB_001	KAFB-106MW2-I	106MW2I-BL-	REG	SW6010C	EPLN
			072417	-	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
					E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
	KAFB_001	KAFB-106MW2-I	106MW2I-BL-FD- 072417	FD	SW6010C	EPLN
			012411		SW8011	EPLN
7/24/2017					SW8260B	EPLN
					SW9056A	EPLN
	USGS	KAFB-106MW2-I	106MW2I-BL- 072417	REG	IRMS	USGS
			106MW2I-BL-FD- 072417	FD	IRMS	USGS
	160-23826- 1	KAFB-106MW2-S	106MW2S-BL- 080717	REG	E300	TASTL
	30_031OH	KAFB-106MW2-S	106MW2S-BL- 080717	REG	QUANTARRAY	МІ
	9731	KAFB-106MW2-S	106MW2S-BL-	REG	E300M	APTIM
		1011 - 1000002 0	080717		RSK-175	APTIM
	FLUOR	KAFB-106MW2-S	106MW2S-BL- 080717	REG	FLUORIMETRIC	CHL
08/07/2017					E353.2	EPLN
					SM2320B	EPLN
			106MW2S-BL-	DEC	SM4500PE	EPLN
	KAFB_002	KAFB-106MW2-S	080717	REG	SW6010C	EPLN
					SW8011	EPLN
					SW8260B	EPLN EPLN
			106MW2S-BL-		SW9056A	EPLN
	USGS	KAFB-106MW2-S	080717	REG	IRMS	USGS
	160-23826- 1	KAFB-106064	106064-BL-081617	REG	E300	TASTL
	20_063OH	KAFB-106064	106064-BL-081617	REG	QUANTARRAY	МІ
	9737	KAFB-106064	106064-BL-081617	REG	E300M	APTIM
					RSK-175	APTIM
	FLUOR	KAFB-106064	106064-BL-081617	REG	FLUORIMETRIC	CHL
08/16/2017			106064-BL-081617	REG	E353.2	EPLN
					SM2320B	EPLN
	KAFB 002				SM4500PE	EPLN
	KAFB_002	KAFB-106064			SW6010C	EPLN
					SW8011 SW8260B	EPLN EPLN
					SW8260B SW9056A	EPLN
	USGS	KAFB-106064	106064-BL-081617	REG	IRMS	USGS
	160-24564-	KAFB-106063	106063-BL-091817	REG	E300	TASTL
0/10/22	1	KAFB-106MW1-I	106MW1I-BL- 091817	REG	E300	TASTL
9/18/2017		KAFB-106063	106063-BL-091817	REG	E300M	APTIM
	9743				RSK-175	
		KAFB-106MW1-I	106MW1I-BL- 091817	REG	E300M RSK-175	APTIM APTIM
9/18/2017	FLUOR	KAFB-106063	106063-BL-091817	REG	FLUORIMETRIC	CHL
	FLUOR	KAFB-106MW1-I	106MW1I-BL- 091817	REG	FLUORIMETRIC	CHL
9/18/2017					E353.2	EPLN
9/10/2017	KAFB_003	KAFB-106063	106063-BL-091817	REG	SM2320B	EPLN
	101 0 003		100000-DL-031017	NEG	SM4500PE	EPLN
					SW6010C	EPLN

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
			106063-BL-091817		SW8011	EPLN
		KAFB-106063		REG	SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
	KAFB 003				SM2320B	EPLN
	10 (i D_000		106MW1I-BL-		SM4500PE	EPLN
9/18/2017		KAFB-106MW1-I	091817	REG	SW6010C	EPLN
0/10/2011			001011		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
	USGS	KAFB-106063	106063-BL-091817	REG	IRMS	USGS
	0363	KAFB-106MW1-I	106MW1I-BL- 091817	REG	IRMS	USGS
		KAFB-106064	106064-BL-091917	REG	E300	TASTL
		KAFB-106MW1-S	106MW1S-BL- 091917	REG	E300	TASTL
	160-24564- 1		106MW2I-BL- 091917	REG	E300	TASTL
			106MW2I-BL-FD- 091917	FD	E300	TASTL
		KAFB-106MW2-S	106MW2S-BL- 091917	REG	E300	TASTL
	160-24580- 1	KAFB-106064	106064-BL-091917	REG	E300	TASTL
		KAFB-106MW2-S	106MW2S-BL- 091917	REG	E300	TASTL
9/19/2017	86_066OI	KAFB-106MW1-S	106MW1S-BL- 091917	REG	QUANTARRAY	MI
9/19/2017		KAFB-106064	106064-BL-091917	REG	E300M	APTIM
				REO	RSK-175	APTIM
		KAFB-106MW1-S	106MW1S-BL-	REG	E300M	APTIM
			091917	1120	RSK-175	APTIM
	9744		106MW2I-BL-	REG	E300M	APTIM
		KAFB-106MW2-I	091917		RSK-175	APTIM
			106MW2I-BL-FD-	FD	E300M	APTIM
			091917		RSK-175	APTIM
		KAFB-106MW2-S	106MW2S-BL-	REG	E300M	APTIM
			091917		RSK-175	APTIM
		KAFB-106064	106064-BL-091917	REG	FLUORIMETRIC	CHL
	FLUOR	KAFB-106MW1-S	106MW1S-BL- 091917	REG	FLUORIMETRIC	CHL
		KAFR_106M\\\/2_I	106MW2I-BL- 091917	REG	FLUORIMETRIC	CHL

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Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
			106MW2I-BL-FD-	FD	FLUORIMETRIC	CHL
	FLUOR		091917	10	1 EGOLUMETING	ONE
		KAFB-106MW2-S	106MW2S-BL- 091917	REG	FLUORIMETRIC	CHL
			001017		E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106064	106064-BL-091917	REG	SW6010C	EPLN
					SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106MW1S-BL-		SM4500PE	EPLN
		KAFB-106MW1-S	091917	REG	SW6010C	EPLN
					SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106MW2I-BL-	550	SM4500PE	EPLN
	KAFB_003	KAFB-106MW2-I	091917	REG	SW6010C	EPLN
					SW8011	EPLN
0/40/0047					SW8260B	EPLN
9/19/2017					SW9056A	EPLN
			106MW2I-BL-FD- 091917		E353.2	EPLN
					SM2320B	EPLN
				FD	SM4500PE SW6010C	EPLN EPLN
				1 D	SW8010C SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
			106MW2S-BL- 091917	REG	E353.2	EPLN
					SM2320B	EPLN
		KAFB-106MW2-S			SM4500PE	EPLN
					SW6010C	EPLN
					SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106064	106064-BL-091917	REG	IRMS	USGS
		KAFB-106MW1-S	106MW1S-BL- 091917	REG	IRMS	USGS
	USGS		106MW2I-BL-	REG	IRMS	USGS
		KAFB-106MW2-I	091917 106MW2I-BL-FD- 091917	FD	IRMS	USGS
		KAFB-106MW2-S	106MW2S-BL- 091917	REG	IRMS	USGS
		KAFB-106EX1	106EX1-BL- 092617	REG	E300	TASTL
9/26/2017	160-24706- 1	KAFB-106EX2	106EX2-BL- 092617	REG	E300	TASTL
		KAFB-106IN1	106IN1-BL-092617	REG	E300	TASTL

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
•			106EX1-BL-		E300M	APTIM
		KAFB-106EX1	092617	REG	RSK-175	APTIM
	9746	KAFB-106EX2	106EX2-BL-	REG	E300M	APTIM
	0110		092617	NEO	RSK-175	APTIM
		KAFB-106IN1	106IN1-BL-092617	REG	E300M	APTIM APTIM
			106EX1-BL-		RSK-175	
		KAFB-106EX1	092617	REG	FLUORIMETRIC	CHL
	FLUOR	KAFB-106EX2	106EX2-BL- 092617	REG	FLUORIMETRIC	CHL
		KAFB-106IN1	106IN1-BL-092617	REG	FLUORIMETRIC	CHL
					E353.2	EPLN
					SM2320B SM4500PE	EPLN EPLN
		KAFB-106EX1	106EX1-BL-	REG	SW6010C	EPLN
			092617	NEO	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
9/26/2017					E353.2	EPLN
					SM2320B	EPLN
			106EX2-BL-	DEC	SM4500PE	EPLN
	KAFB_003	KAFB-106EX2	092617	REG	SW6010C SW8011	EPLN EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106IN1	106IN1-BL-092617		E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
				REG	SW6010C	EPLN
					SW8011	EPLN
					SW8260B SW9056A	EPLN EPLN
	USGS	KAFB-106EX1	106EX1-BL- 092617	REG	IRMS	USGS
		KAFB-106EX2	106EX2-BL- 092617	REG	IRMS	USGS
		KAFB-106IN1	106IN1-BL-092617	REG	IRMS	USGS
			106IN1-P1R- 100217-1	REG	FLUORIMETRIC	CHL
	FLUOR	KAFB-106IN1	106217-1 106IN1-P1R- 100217-2	REG	FLUORIMETRIC	CHL
10/02/2017	11000		106IN1-P1R- 100217-1	REG	IRMS	USGS
	USGS	KAFB-106IN1	106IN1-P1R- 100217-2	REG	IRMS	USGS
10/03/2017	FLUOR	KAFB-106IN1	106IN1-P1R- 100217-3	REG	FLUORIMETRIC	CHL
10/03/2011	USGS	KAFB-106IN1	106IN1-P1R- 100317-3	REG	IRMS	USGS
10/4/2017	FLUOR	KAFB-106063	106063-P1R- 100417	REG	FLUORIMETRIC	CHL
10/4/2011	1 2001	KAFB-106064	106064-P1R- 100417	REG	FLUORIMETRIC	CHL
		KAFB-106064	106064-P1R- 100417-FD	FD	FLUORIMETRIC	CHL
10/4/2017	FLUOR	KAFB-106EX1	106EX1-P1R- 100417	REG	FLUORIMETRIC	CHL
		KAFB-106EX2	106EX2-P1R- 100417	REG	FLUORIMETRIC	CHL

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location,
Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab	
		KAFB-106MW1-I	106MW1I-P1R-	REG	FLUORIMETRIC	CHL	
			100417 106MW1S-P1R-	INEG	T EOORIME HAIC	UNE	
	FLUOR	KAFB-106MW1-S	100MW 13-PTR- 100417	REG	FLUORIMETRIC	CHL	
	TLOOK	KAFB-106MW2-I	106MW2I-P1R- 100417	REG	FLUORIMETRIC	CHL	
		KAFB-106MW2-S	106MW2S-P1R-	REG	FLUORIMETRIC	CHL	
		NAI D-1000002-3	100417 106063-P1R-	INEG	T EOORIME HAIC	UNE	
		KAFB-106063	100003-1 11(-	REG	IRMS	USGS	
			106064-P1R- 100417	REG	IRMS	USGS	
10/4/2017		KAFB-106064	106064-P1R-	FD	IRMS	USGS	
10/4/2011			100417-FD 106EX1-P1R-	10	in the second se	0000	
		KAFB-106EX1	100417	REG	IRMS	USGS	
	USGS	KAFB-106EX2	106EX2-P1R- 100417	REG	IRMS	USGS	
		KAFB-106MW1-I	106MW1I-P1R-	REG	IRMS	USGS	
			100417 106MW1S-P1R-				
		KAFB-106MW1-S	100417	REG	IRMS	USGS	
		KAFB-106MW2-I	106MW2I-P1R- 100417	REG	IRMS	USGS	
		KAFB-106MW2-S	106MW2S-P1R-	REG	IRMS	USGS	
			100417 106063-P1R-	DE0		0	
	FLUOR		KAFB-106063	100617	REG	FLUORIMETRIC	CHL
		KAFB-106064	106064-P1R- 100617	REG	FLUORIMETRIC	CHL	
		KAFB-106EX1	106EX1-P1R- 100617	REG	FLUORIMETRIC	CHL	
		KAFB-106EX2	106EX2-P1R-	REG	FLUORIMETRIC	CHL	
			100617 106MW1I-P1R-				
		FLUOR	KAFB-106MW1-I	100617	REG	FLUORIMETRIC	CHL
10/6/2017				106MW1S-P1R- 100617	REG	FLUORIMETRIC	CHL
		KAFB-106MW1-S	106MW1S-P1R-	FD	FLUORIMETRIC	CHL	
			100617-FD 106MW2I-P1R-	DEO		011	
		KAFB-106MW2-I	100617	REG	FLUORIMETRIC	CHL	
		KAFB-106MW2-S	106MW2S-P1R- 100617	REG	FLUORIMETRIC	CHL	
		KAFB-106063	106063-P1R- 100617	REG	IRMS	USGS	
	USGS	KAFB-106064	106064-P1R-	REG	IRMS	USGS	
		KAFB-106EX1	100617 106EX1-P1R-	REG	IRMS	USGS	
			100617 106EX2-P1R-				
		KAFB-106EX2	100617	REG	IRMS	USGS	
10/6/2017	USGS	KAFB-106MW1-I	106MW1I-P1R- 100617	REG	IRMS	USGS	
10/0/2017	0303		106MW1S-P1R- 100617	REG	IRMS	USGS	
		KAFB-106MW1-S	106MW1S-P1R-	FD	IRMS	USGS	
			100617-FD 106MW2I-P1R-				
		KAFB-106MW2-I	100617	REG	IRMS	USGS	

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
10/6/2017	USGS	KAFB-106MW2-S	106MW2S-P1R- 100617	REG	IRMS	USGS
		KAFB-106063	106063-P1R- 100917	REG	FLUORIMETRIC	CHL
		KAFB-106064	106064-P1R- 100917	REG	FLUORIMETRIC	CHL
		KAFB-106EX1	106EX1-P1R- 100917	REG	FLUORIMETRIC	CHL
		KAFB-106EX2	106EX2-P1R- 100917	REG	FLUORIMETRIC	CHL
	FLUOR		106MW1I-P1R- 100917	REG	FLUORIMETRIC	CHL
		KAFB-106MW1-I	106MW1I-P1R- 100917-FD	FD	FLUORIMETRIC	CHL
		KAFB-106MW1-S	106MW1S-P1R- 100917	REG	FLUORIMETRIC	CHL
		KAFB-106MW2-I	106MW2I-P1R- 100917	REG	FLUORIMETRIC	CHL
10/09/2017		KAFB-106MW2-S	106MW2S-P1R- 100917	REG	FLUORIMETRIC	CHL
10/09/2017		KAFB-106063	106063-P1R- 100917	REG	IRMS	USGS
		KAFB-106064	106064-P1R- 100917	REG	IRMS	USGS
	USGS	KAFB-106EX1	106EX1-P1R- 100917	REG	IRMS	USGS
		KAFB-106EX2	106EX2-P1R- 100917	REG	IRMS	USGS
		KAFB-106MW1-I	106MW1I-P1R- 100917	REG	IRMS	USGS
			106MW1I-P1R- 100917-FD	FD	IRMS	USGS
		KAFB-106MW1-S	106MW1S-P1R- 100917	REG	IRMS	USGS
		KAFB-106MW2-I	106MW2I-P1R- 100917	REG	IRMS	USGS
		KAFB-106MW2-S	106MW2S-P1R- 100917	REG	IRMS	USGS
10/12/2017	FLUOR	KAFB-106063	106063-P1R- 101217	REG	FLUORIMETRIC	CHL
10/12/2017	TEOOR	KAFB-106064	106064-P1R- 101217	REG	FLUORIMETRIC	CHL
		KAFB-106EX1	106EX1-P1R- 101217	REG	FLUORIMETRIC	CHL
		KAFB-106EX2	106EX2-P1R- 101217	REG	FLUORIMETRIC	CHL
		KAFB-106MW1-I	106MW1I-P1R- 101217	REG	FLUORIMETRIC	CHL
	FLUOR	KAFB-106MW1-S	106MW1S-P1R- 101217	REG	FLUORIMETRIC	CHL
10/12/2017		KAFB-106MW2-I	106MW2I-P1R- 101217	REG	FLUORIMETRIC	CHL
		KAFB-106MW2-S	106MW2S-P1R- 101217	REG	FLUORIMETRIC	CHL
		131 2 1000002-0	106MW2S-P1R- 101217-FD	FD	FLUORIMETRIC	CHL
	USGS	KAFB-106063	106063-P1R- 101217	REG	IRMS	USGS
	USGS	KAFB-106064	106064-P1R- 101217	REG	IRMS	USGS

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab	
		KAFB-106EX1	106EX1-P1R-	REG	IRMS	USGS	
		KAFB-106EX2	101217 106EX2-P1R- 101217	REG	IRMS	USGS	
		KAFB-106MW1-I	106MW1I-P1R- 101217	REG	IRMS	USGS	
10/12/2017	USGS	KAFB-106MW1-S	106MW1S-P1R- 101217	REG	IRMS	USGS	
		KAFB-106MW2-I	106MW2I-P1R- 101217	REG	IRMS	USGS	
		KAFB-106MW2-S	106MW2S-P1R- 101217	REG	IRMS	USGS	
			106MW2S-P1R- 101217-FD	FD	IRMS	USGS	
		KAFB-106063	106063-P1R- 101617	REG	FLUORIMETRIC	CHL	
		KAFB-106064	106064-P1R- 101617	REG	FLUORIMETRIC	CHL	
		KAFB-106EX1	106EX1-P1R- 101617	REG	FLUORIMETRIC	CHL	
			106EX1-P1R- 101617-FD	FD	FLUORIMETRIC	CHL	
	FLUOR	KAFB-106EX2	106EX2-P1R- 101617	REG	FLUORIMETRIC	CHL	
10/16/2017		KAFB-106MW1-I	106MW1I-P1R- 101617	REG	FLUORIMETRIC	CHL	
	USGS	KAFB-106MW1-S	106MW1S-P1R- 101617	REG	FLUORIMETRIC	CHL	
		KAFB-106MW2-I	106MW2I-P1R- 101617	REG	FLUORIMETRIC	CHL	
		KAFB-106MW2-S	106MW2S-P1R- 101617	REG	FLUORIMETRIC	CHL	
		KAFB-106063	106063-P1R- 101617	REG	IRMS	USGS	
		KAFB-106064	106064-P1R- 101617	REG	IRMS	USGS	
			KAFB-106EX1	106EX1-P1R- 101617	REG	IRMS	USGS
			106EX1-P1R- 101617-FD	FD	IRMS	USGS	
		KAFB-106EX2	106EX2-P1R- 101617	REG	IRMS	USGS	
10/16/2017	USGS	KAFB-106MW1-I	106MW1I-P1R- 101617	REG	IRMS	USGS	
		KAFB-106MW1-S	106MW1S-P1R- 101617	REG	IRMS	USGS	
		KAFB-106MW2-I	106MW2I-P1R- 101617	REG	IRMS	USGS	
		KAFB-106MW2-S	106MW2S-P1R- 101617	REG	IRMS	USGS	
		KAFB-106063	106063-P1R- 102017	REG	FLUORIMETRIC	CHL	
		KAFB-106064	106064-P1R- 102017	REG	FLUORIMETRIC	CHL	
10/20/2017	FLUOR	KAFB-106EX1	106EX1-P1R- 102017	REG	FLUORIMETRIC	CHL	
		KAFB-106EX2	106EX2-P1R- 102017	REG	FLUORIMETRIC	CHL	
		KAFB-106MW1-I	106MW1I-P1R- 102017	REG	FLUORIMETRIC	CHL	

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location,
Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab			
		KAFB-106MW1-S	106MW1S-P1R- 102017	REG	FLUORIMETRIC	CHL			
	FLUOR	KAFB-106MW2-I	106MW2I-P1R- 102017	REG	FLUORIMETRIC	CHL			
		KAFB-106MW2-S	106MW2S-P1R- 102017	REG	FLUORIMETRIC	CHL			
		KAFB-106063	106063-P1R- 102017	REG	IRMS	USGS			
		KAFB-106064	106064-P1R- 102017	REG	IRMS	USGS			
10/20/2017		KAFB-106EX1	106EX1-P1R- 102017	REG	IRMS	USGS			
10/20/2011		KAFB-106EX2	106EX2-P1R- 102017	REG	IRMS	USGS			
	USGS	KAFB-106MW1-I	106MW1I-P1R- 102017	REG	IRMS	USGS			
		KAFB-106MW1-S	106MW1S-P1R- 102017	REG	IRMS	USGS			
		KAFB-106MW2-I	106MW2I-P1R- 102017	REG	IRMS	USGS			
			106MW2I-P1R- 102017-FD	FD	IRMS	USGS			
		KAFB-106MW2-S	106MW2S-P1R- 102017	REG	IRMS	USGS			
		KAFB-106063	106063-P1R- 102417	REG	E300	TASTL			
	160-25239- 1 160-25239- 1	KAFB-106064	106064-P1R- 102417	REG	E300	TASTL			
		KAFB-106EX1	106EX1-P1R- 102417	REG	E300	TASTL			
			106EX1-P1R- 102417-FD	FD	E300	TASTL			
		KAFB-106MW1-S	106MW1S-P1R- 102417	REG	E300	TASTL			
		KAFB-106063	106063-P1R- 102417	REG	E300M RSK-175	APTIM APTIM			
			106064-P1R-	DEC	E300M	APTIM			
		KAFB-106064	102417	REG	RSK-175	APTIM			
	9757		106EX1-P1R-	REG	E300M	APTIM			
		KAFB-106EX1	102417	_	RSK-175	APTIM			
			106EX1-P1R- 102417-FD	FD	E300M RSK-175	APTIM APTIM			
10/24/2017			106MW1S-P1R-		E300M	APTIM			
10/24/2011					KAFB-106MW1-S	102417	REG	RSK-175	APTIM
		KAFB-106063	106063-P1R- 102417	REG	FLUORIMETRIC	CHL			
	FLUOD	KAFB-106064	106064-P1R- 102417	REG	FLUORIMETRIC	CHL			
	FLUOR	KAFB-106EX1	106EX1-P1R- 102417	REG	FLUORIMETRIC	CHL			
		KAFB-106MW1-S	106MW1S-P1R- 102417	REG	FLUORIMETRIC	CHL			
					E353.2	EPLN			
					SM2320B	EPLN			
			106062 010		SM4500PE	EPLN			
		KAFB-106063	106063-P1R- 102417	REG	SW6010C	EPLN			
	KAFB_004		102417		SW8011	EPLN			
					SW8260B	EPLN			
					SW9056A	EPLN			
		KAFB-106064	106064-P1R-	REG	E353.2	EPLN			
		100001	102417	0	SM2320B	EPLN			

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
					SM4500PE	EPLN
			106064-P1R-		SW6010C	EPLN
		KAFB-106064	102417	REG	SW8011	EPLN
			102417		SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106EX1-P1R-		SM4500PE	EPLN
			102417	REG	SW6010C	EPLN
			102411		SW8011	EPLN
					SW8260B	EPLN
	KAFB_004	KAFB-106EX1			SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106EX1-P1R-		SM4500PE	EPLN
			102417-FD	FD	SW6010C	EPLN
					SW8011	EPLN
10/24/2017					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
		KAFB-106MW1-S	106MW1S-P1R-	REG	SM4500PE	EPLN
		KAFD-10010100 1-3	102417	REG	SW6010C	EPLN EDLN
					SW8011 SW8260B	EPLN EPLN
	KAFB_004				SW9056A	EPLN
			106063-P1R-			
	USGS	KAFB-106063	102417	REG	IRMS	USGS
		KAFB-106064	106064-P1R- 102417	REG	IRMS	USGS
		KAFB-106EX1	106EX1-P1R- 102417	REG	IRMS	USGS
		RAPD-100EXT	106EX1-P1R- 102417-FD	FD	IRMS	USGS
		KAFB-106MW1-S	106MW1S-P1R- 102417	REG	IRMS	USGS
		KAFB-106EX2	106EX2-P1R- 102517	REG	E300	TASTL
	160-25239-	KAFB-106MW1-I	106MW1I-P1R- 102517	REG	E300	TASTL
	1	KAFB-106MW2-I	102317 106MW2I-P1R- 102517	REG	E300	TASTL
		KAFB-106MW2-S	106MW2S-P1R-	REG	E300	TASTL
			102517			
		KAFB-106EX2	106EX2-P1R-	REG	E300M	APTIM
			102517		RSK-175	
		KAFB-106MW1-I	106MW1I-P1R-	REG	E300M	
10/25/2017	9758		102517		RSK-175	
		KAFB-106MW2-I	106MW2I-P1R- 102517	REG	E300M RSK-175	APTIM APTIM
			106MW2S-P1R-		E300M	APTIM
		KAFB-106MW2-S	102517	REG	RSK-175	APTIM
		KAFB-106EX2	106EX2-P1R- 102517	REG	FLUORIMETRIC	CHL
		KAFB-106MW1-I	106MW1I-P1R- 102517	REG	FLUORIMETRIC	CHL
	FLUOR	KAFB-106MW2-I	106MW2I-P1R- 102517	REG	FLUORIMETRIC	CHL
		KAFB-106MW2-S	106MW2S-P1R- 102517	REG	FLUORIMETRIC	CHL

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab	
					E353.2	EPLN	
					SM2320B	EPLN	
			106EX2-P1R-		SM4500PE	EPLN	
		KAFB-106EX2	102517	REG	SW6010C	EPLN	
			102017		SW8011	EPLN	
					SW8260B	EPLN	
					SW9056A	EPLN	
					E353.2	EPLN	
					SM2320B	EPLN	
	KAFB_004		106MW1I-P1R-	DEO	SM4500PE	EPLN	
		KAFB-106MW1-I	102517	REG	SW6010C	EPLN EPLN	
					SW8011 SW8260B	EPLN	
					SW9056A	EPLN	
					E353.2	EPLN	
					SM2320B	EPLN	
		KAFB-106MW2-I	106MW2I-P1R-	REG	SM4500PE	EPLN	
10/05/0017			102517		SW6010C	EPLN	
10/25/2017					SW8011	EPLN	
		KAFB-106MW2-I	106MW2I-P1R-	REG	SW8260B	EPLN	
			102517	REG	SW9056A	EPLN	
					E353.2	EPLN	
					SM2320B	EPLN	
	KAFB_004	KAFB-106MW2-S	106MW2S-P1R-		SM4500PE	EPLN	
			102517 REG	REG	SW6010C	EPLN	
					SW8011	EPLN	
					SW8260B SW9056A	EPLN	
				106EX2-P1R-		SW9056A	EPLN
	USGS	KAFB-106EX2	102517	REG	IRMS	USGS	
		KAFB-106MW1-I	106MW1I-P1R- 102517	REG	IRMS	USGS	
			KAFB-106MW2-I	106MW2I-P1R- 102517	REG	IRMS	USGS
		KAFB-106MW2-S	106MW2S-P1R- 102517	REG	IRMS	USGS	
		KAFB-106063	106063-P1R- 110117	REG	FLUORIMETRIC	CHL	
		KAFB-106064	106064-P1R- 110117	REG	FLUORIMETRIC	CHL	
		KAFB-106EX1	106EX1-P1R- 110117	REG	FLUORIMETRIC	CHL	
		KAFB-106EX2	106EX2-P1R- 110117	REG	FLUORIMETRIC	CHL	
	FLUOR		106EX2-P1R- 110117-FD	FD	FLUORIMETRIC	CHL	
11/1/2017		KAFB-106MW1-I	106MW1I-P1R- 110117	REG	FLUORIMETRIC	CHL	
		KAFB-106MW1-S	106MW1S-P1R- 110117	REG	FLUORIMETRIC	CHL	
		KAFB-106MW2-I	106MW2I-P1R- 110117	REG	FLUORIMETRIC	CHL	
		KAFB-106MW2-S	106MW2S-P1R- 110117	REG	FLUORIMETRIC	CHL	
		KAFB-106063	106063-P1R- 110117	REG	IRMS	USGS	
	USGS	KAFB-106064	106064-P1R- 110117	REG	IRMS	USGS	
		KAFB-106EX1	106EX1-P1R- 110117	REG	IRMS	USGS	

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
•			106EX2-P1R-			
11/1/2017		KAFB-106EX2	110117	REG	IRMS	USGS
			106EX2-P1R-	FD	IRMS	USGS
			110117-FD 106MW1I-P1R-			
		KAFB-106MW1-I	110117	REG	IRMS	USGS
11/1/2017	USGS	KAFB-106MW1-S	106MW1S-P1R-	REG	IRMS	USGS
11/1/2017		KAFB-1001VIVV1-5	110117	REG	IRIVIS	0363
		KAFB-106MW2-I	106MW2I-P1R- 110117	REG	IRMS	USGS
			106MW2S-P1R-			
		KAFB-106MW2-S	110117	REG	IRMS	USGS
		KAFB-106063	106063-P1P-	REG	E300	TASTL
			111517 106064-P1P-	_		
		KAFB-106064	111517	REG	E300	TASTL
	160-25627-	KAFB-106MW1-I	106MW1I-P1P-	REG	E300	TASTL
	1		111517	1120	2000	INGTE
		KAFB-106MW1-S	106MW1S-P1P- 111517	REG	E300	TASTL
			106MW2I-P1P-	DEC	F300	тасті
		KAFB-106MW2-I	111517	REG	E300	TASTL
		KAFB-106063	106063-P1P-	REG	E300M	
			111517 106064-P1P-		RSK-175 E300M	APTIM APTIM
		KAFB-106064	111517	REG	RSK-175	APTIM
			106MW1I-P1P-		E300M	APTIM
	9761	KAFB-106MW1-I	111517	REG	RSK-175	APTIM
			106MW1S-P1P-	REG	E300M	APTIM
		KAFB-106MW1-S	111517	REG	RSK-175	APTIM
		KAFB-106MW2-I	106MW2I-P1P- 111517	REG	E300M	APTIM
				1.20	RSK-175	APTIM
		KAFB-106063	106063-P1P- 111517	REG	FLUORIMETRIC	CHL
		KAFB-106064	106064-P1P-	REG	FLUORIMETRIC	CHL
11/15/0017		NAI B-100004	111517	INEG	TEOORIMETRIC	OTIL
11/15/2017	FLUOR	KAFB-106MW1-I	106MW1I-P1P- 111517	REG	FLUORIMETRIC	CHL
			106MW1S-P1P-	550	FULIODIMETRIO	01.11
		KAFB-106MW1-S	111517	REG	FLUORIMETRIC	CHL
		KAFB-106MW2-I	106MW2I-P1P-	REG	FLUORIMETRIC	CHL
			111517		E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106063	106063-P1P-	REG	SW6010C	EPLN
			111517		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
	KAFB_005		106064-P1P-	550	SM4500PE	EPLN
		KAFB-106064	111517	REG	SW6010C	EPLN
					SW8011 SW8260B	EPLN EPLN
					SW8260B SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
		KAFB-106MW1-I	106MW1I-P1P-	REG	SM4500PE	EPLN
			111517		SW6010C	EPLN
I					SW8011	EPLN

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab	
-			106MW1I-P1P-				
11/15/2017	KAFB_005	KAFB-106MW1-I	111517	REG	SW8260B	EPLN	
		KAFB-106MW1-I	106MW1I-P1P-	REG	SW9056A	EPLN	
			111517		E353.2	EPLN	
	KAFB_005		106MW1S-P1P-	550	SM2320B	EPLN	
		KAFB-106MW1-S	111517	REG	SM4500PE	EPLN	
					SW6010C	EPLN	
			106MW1S-P1P-		SW8011	EPLN	
		KAFB-106MW1-S	111517	REG	SW8260B	EPLN	
					SW9056A	EPLN	
					E353.2 SM2320B	EPLN EPLN	
	KAFB_005				SM4500PE	EPLN	
		KAFB-106MW2-I	106MW2I-P1P-	REG	SW6010C	EPLN	
44/45/0047			111517	_	SW8011	EPLN	
11/15/2017					SW8260B	EPLN	
					SW9056A	EPLN	
		KAFB-106063	106063-P1P-	REG	IRMS	USGS	
			111517 106064-P1P-				
		KAFB-106064	111517	REG	IRMS	USGS	
	USGS	KAFB-106MW1-I	106MW1I-P1P-	REG	IRMS	USGS	
	0363		111517	REG	IRIVIS	0363	
		KAFB-106MW1-S	106MW1S-P1P-	REG	IRMS	USGS	
			111517 106MW2I-P1P-				
		KAFB-106MW2-I	111517	REG	IRMS	USGS	
			106EX1-P1P-	550	E 000	-	
			KAFB-106EX1	111617	REG	E300	TASTL
	160-25627- 1	KAFB-106EX2	106EX2-P1P-	REG	E300	TASTL	
		11161/		2000			
			106IN1-P1P- 111617	REG	E300	TASTL	
			106IN1-P1P-				
			111617-FD	FD	E300	TASTL	
			106MW2S-P1P-	DEC	F200	TACTI	
		KAFB-106MW2-S	111617	REG	E300	TASTL	
		KAFB-106EX1	106EX1-P1P-	REG	E300M	APTIM	
			111617 106EX2-P1P-		RSK-175	APTIM	
		KAFB-106EX2	106EX2-PTP- 111617	REG	E300M RSK-175	APTIM APTIM	
			106IN1-P1P-		E300M	APTIM	
	9762		111617	REG	RSK-175	APTIM	
11/16/2017		KAFB-106IN1	106IN1-P1P-	FD	E300M	APTIM	
			111617-FD	FD	RSK-175	APTIM	
		KAFB-106MW2-S	106MW2S-P1P-	REG	E300M	APTIM	
			111617	_	RSK-175	APTIM	
		KAFB-106EX1	106EX1-P1P- 111617	REG	FLUORIMETRIC	CHL	
			106EX2-P1P-				
		KAFB-106EX2	111617	REG	FLUORIMETRIC	CHL	
	FLUOR	KAFB-106IN1	106IN1-P1P-	REG	FLUORIMETRIC	CHL	
			111617	INC G			
		KAFB-106MW2-S	106MW2S-P1P- 111617	REG	FLUORIMETRIC	CHL	
			11017		E353.2	EPLN	
			· · · · · · · · · · · · · · · · · · ·		SM2320B	EPLN	
	KAFB_005	KAFB-106EX1	106EX1-P1P-	REG	SM4500PE	EPLN	
			111617		SW6010C	EPLN	
					SW8011	EPLN	

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location,
Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
11/16/2017			106EX1-P1P-	REC	SW8260B	EPLN
11/16/2017	KAFB_005	KAFB-106EX1	111617	REG	SW9056A	EPLN
11/16/2017					E353.2	EPLN
11/10/2017					SM2320B	EPLN
			106EX2-P1P-		SM4500PE	EPLN
		KAFB-106EX2	111617	REG	SW6010C	EPLN
					SW8011	EPLN
					SW8260B	EPLN
	KAFB_005				SW9056A	EPLN
	_				E353.2	EPLN
					SM2320B	EPLN
			106IN1-P1P-	REG	SM4500PE	EPLN
			111617	REG	SW6010C SW8011	EPLN EPLN
					SW8011 SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106IN1			E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
			106IN1-P1P-	FD	SW6010C	EPLN
			111617-FD		SW8011	EPLN
11/16/0017					SW8260B	EPLN
11/16/2017					SW9056A	EPLN
	KAFB_005				E353.2	EPLN
		KAFB-106MW2-S	106MW2S-P1P-		SM2320B	EPLN
					SM4500PE	EPLN
			111617	REG	SW6010C	EPLN
			111017		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106EX1	106EX1-P1P- 111617	REG	IRMS	USGS
		KAFB-106EX2	106EX2-P1P- 111617	REG	IRMS	USGS
	USGS	S KAFB-106IN1	106IN1-P1P- 111617	REG	IRMS	USGS
		KAFD-100IN1	106IN1-P1P- 111617-FD	FD	IRMS	USGS
		KAFB-106MW2-S	106MW2S-P1P- 111617	REG	IRMS	USGS
		KAFB-106063	106063-P1P- 112817	REG	E300	TASTL
		KAFB-106064	106064-P1P- 112817	REG	E300	TASTL
	160-25791- 1	KAFB-106MW1-I	106MW1I-P1P- 112817	REG	E300	TASTL
11/28/2017		KAFB-106MW1-S	106MW1S-P1P- 112817	REG	E300	TASTL
11/20/2011		KAFB-106MW2-S	106MW2S-P1P- 112817	REG	E300	TASTL
		KAFB-106063	106063-P1P- 112817	REG	QUANTARRAY	МІ
		KAFB-106064	106064-P1P- 112817	REG	QUANTARRAY	МІ
	6_106OK	KAFB-106MW1-I	106MW1I-P1P- 112817	REG	QUANTARRAY	МІ
11/28/2017		KAFB-106MW1-S	106MW1S-P1P- 112817	REG	QUANTARRAY	МІ
1112012011		KAFB-106MW2-S	106MW2S-P1P- 112817	REG	QUANTARRAY	MI

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab	
			106063-P1P-	DEO	E300M	APTIM	
11/28/2017	9764	KAFB-106063	112817	REG	RSK-175	APTIM	
		KAFB-106064	100004-1 11 -	REG	E300M	APTIM	
		KAFB-106064	106064-P1P-	REG	RSK-175	APTIM	
			112817 106MW1I-P1P-		E300M	APTIM	
		KAFB-106MW1-I	112817	REG	RSK-175	APTIM	
	9764		106MW1S-P1P-		E300M	APTIM	
		KAFB-106MW1-S	112817	REG	RSK-175	APTIM	
			106MW2S-P1P-		E300M	APTIM	
11/28/2017		KAFB-106MW2-S	112817	REG	RSK-175	APTIM	
		KAFB-106063	106063-P1P- 112817	REG	FLUORIMETRIC	CHL	
	FLUOR	KAFB-106064	106064-P1P- 112817	REG	FLUORIMETRIC	CHL	
		KAFB-106MW1-I	106MW1I-P1P- 112817	REG	FLUORIMETRIC	CHL	
	FLUOD	KAFB-106MW1-S	106MW1S-P1P- 112817	REG	FLUORIMETRIC	CHL	
	FLUOR	KAFB-106MW2-S	106MW2S-P1P- 112817	REG	FLUORIMETRIC	CHL	
					E353.2	EPLN	
					SM2320B	EPLN	
			106062 010		SM4500PE	EPLN	
		KAFB-106063	106063-P1P-	REG	SW6010C	EPLN	
			112817		SW8011	EPLN	
					SW8260B	EPLN	
					SW9056A	EPLN	
		KAFB-106064	106064-P1P- 112817		E353.2	EPLN	
				REG	SM2320B	EPLN	
					SM4500PE	EPLN	
					SW6010C	EPLN	
					SW8011	EPLN	
					SW8260B	EPLN	
11/28/2017					SW9056A	EPLN	
					E353.2	EPLN	
	KAFB_006				SM2320B	EPLN	
			106MW1I-P1P-		SM4500PE	EPLN	
		KAFB-106MW1-I	112817	REG	SW6010C	EPLN	
			112011		SW8011	EPLN	
					SW8260B	EPLN	
					SW9056A	EPLN	
					E353.2	EPLN	
					SM2320B	EPLN	
			106MW1S-P1P-		SM4500PE	EPLN	
		KAFB-106MW1-S	112817	REG	SW6010C	EPLN	
			0.,		SW8011	EPLN	
					SW8260B	EPLN	
					SW9056A	EPLN	
l .			106MW2S-P1P-	555	E353.2	EPLN	
		KAFB-106MW2-S	112817	REG	SM2320B	EPLN	
						SM4500PE	EPLN

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
					SW6010C	EPLN
			106MW2S-P1P-	DEC	SW8011	EPLN
	KAFB_006	KAFB-106MW2-S	112817	REG	SW8260B	EPLN
		KAFB-106063	106063-P1P- 112817	REG	IRMS	USGS
11/28/2017		KAFB-106064	106064-P1P- 112817	REG	IRMS	USGS
	USGS	KAFB-106MW1-I	106MW1I-P1P- 112817	REG	IRMS	USGS
		KAFB-106MW1-S	106MW1S-P1P- 112817	REG	IRMS	USGS
		KAFB-106MW2-S	106MW2S-P1P- 112817	REG	IRMS	USGS
		KAFB-106EX1	106EX1-P1P- 112917	REG	E300	TASTL
		KAFB-106EX2	106EX2-P1P- 112917	REG	E300	TASTL
	160-25791- 1	KAFB-106IN1	106IN1-P1P- 112917	REG	E300	TASTL
		KAFB-106MW2-I	106MW2I-P1P- 112917	REG	E300	TASTL
			106MW2I-P1P- 112917-FD	FD	E300	TASTL
	6_106OK	KAFB-106EX1	106EX1-P1P- 112917	REG	QUANTARRAY	МІ
		KAFB-106EX2	106EX2-P1P- 112917	REG	QUANTARRAY	МІ
		KAFB-106IN1	106IN1-P1P- 112917	REG	QUANTARRAY	МІ
		KAFB-106MW2-I	106MW2I-P1P- 112917	REG	QUANTARRAY	
		KAFB-106EX1	106EX1-P1P-	REG	E300M	APTIM
		IT B TOOLXI	112917	1120	RSK-175	APTIM
		KAFB-106EX2	106EX2-P1P-	REG	E300M	APTIM
11/29/2017			112917		RSK-175	APTIM
	9765	KAFB-106IN1	106IN1-P1P-	REG	E300M	APTIM
			112917	_	RSK-175	APTIM
			106MW2I-P1P-	REG	E300M	APTIM
		KAFB-106MW2-I	112917	_	RSK-175	APTIM
			106MW2I-P1P-	FD	E300M	APTIM
			112917-FD		RSK-175	APTIM
		KAFB-106EX1	106EX1-P1P- 112917	REG	FLUORIMETRIC	CHL
	FLUOR	KAFB-106EX2	106EX2-P1P- 112917	REG	FLUORIMETRIC	CHL
	1 2001	KAFB-106IN1	106IN1-P1P- 112917	REG	FLUORIMETRIC	CHL
		KAFB-106MW2-I	106MW2I-P1P- 112917	REG	FLUORIMETRIC	CHL
					E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
	KAFB_006	KAFB-106EX1	106EX1-P1P-	REG	SW6010C	EPLN
	_		112917		SW8011	EPLN
					SW8260B	EPLN
				1 1	SW9056A	EPLN

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
					E353.2	EPLN
					SM2320B	EPLN
			106EX2-P1P-		SM4500PE	EPLN
		KAFB-106EX2	112917	REG	SW6010C	EPLN
			112317		SM4500PE EI SW6010C EI SW8011 EI SW8011 EI SW8260B EI SW9056A EI SM2320B EI SM4500PE EI SM4500PE EI SW6010C EI SW8011 EI SW8060B EI SW8260B EI SW8260B EI SW8260B EI SW4500PE EI SW4500PE EI SW6010C EI SW8011 EI SW80010C EI SW8260B EI SW8260B EI SW8260B EI SW4500PE EI SM4500PE EI SM4500PE EI SW4500PE EI SW8011 EI SW8020B EI SW8260B EI SW8260B EI SW8020B EI	EPLN
						EPLN
						EPLN
						EPLN
						EPLN
			106IN1-P1P-			EPLN
		KAFB-106IN1	112917	REG		EPLN
						EPLN
						EPLN
	KAFB_006					EPLN EPLN
						EPLN
						EPLN
			106MW2I-P1P-	REG		EPLN
			112917	ILC .		EPLN
11/29/2017						EPLN
						EPLN
		KAFB-106MW2-I				EPLN
						EPLN
			106MW2I-P1P-			EPLN
				FD	SW6010C SW8011	EPLN
			112917-FD		SW8011	EPLN
					SM2320BEPISM4500PEEPISW6010CEPISW8011EPISW8260BEPISW9056AEPIIRMSUSC	EPLN
						EPLN
	USGS	KAFB-106EX1	106EX1-P1P- 112917	REG	IRMS	USGS
		KAFB-106EX2	106EX2-P1P- 112917	REG	IRMS	USGS
		USGS	KAFB-106IN1	106IN1-P1P- 112917	REG	IRMS
		KAFB-106MW2-I	106MW2I-P1P- 112917	REG	IRMS	USGS
			106MW2I-P1P- 112917-FD	FD	IRMS	USGS
	160-26240-	KAFB-106IN1	106IN1-P2R- 010218-01	REG	E300	TASTL
01/02/2018	1		106IN1-P2R- 010218-02	REG	E300	TASTL
	9767	KAFB-106IN1	106IN1-P2R- 010218-02	REG	E300M	APTIM
		KAFB-106MW1-I	106MW1I-P2R- 010918	REG	E300	TASTL
	160-26240-	KAFB-106MW1-S	106MW1S-P2R- 010918	REG	E300	TASTL
1/9/2018	1	KAFB-106MW2-I	106MW2I-P2R- 010918	REG	E300	TASTL
1/3/2010		KAFB-106MW2-S	106MW2S-P2R- 010918	REG	E300	TASTL
		KAFB-106MW1-I	106MW1I-P2R-	REG	E300M	APTIM
	9768		010918	neg	RSK-175	APTIM
	0100	68 KAFB-106MW1-S	106MW1S-P2R-	REG	E300M	APTIM
			010918	0	RSK-175	APTIM

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
-			106MW2I-P2R-	DEO	E300M	APTIM
	0769	KAFB-106MW2-I	010918	REG	RSK-175	APTIM
	9768		106MW2S-P2R-	DEC	E300M	APTIM
		KAFB-106MW2-S	010918	REG	RSK-175	APTIM
					E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106MW1-I	106MW1I-P2R-	REG	SW6010C	EPLN
			010918		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106MW1S-P2R-		SM4500PE	EPLN
		KAFB-106MW1-S	010918	REG	SW6010C	EPLN
1/9/2018			010910		SW8011	EPLN
1/9/2010					SW8260B	EPLN
	KAFB_007				SW9056A	EPLN
	KAFB_007				E353.2	EPLN
					SM2320B	EPLN
			106MW2I-P2R-		SM4500PE	EPLN
		KAFB-106MW2-I	010918	REG	SW6010C	EPLN
			010918		SW8011 SW8260B SW9056A E353.2 SM2320B	EPLN
						EPLN
						EPLN
					E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106MW2-S	106MW2S-P2R- 010918	REG	SW6010C	EPLN
			010918		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106IN1	106IN1-P2R-	REG		
		KAFD-100IN1	011018	REG		
		KAFB-106063	106063-P2R-	REC	E300	TACTI
		KAFD-100003	011018	REG	E300	TASTL
			106064-P2R-	REC	E300	TACTI
		KAFB-106064	011018	REG	E300	TASTL
			106EX1-P2R-	DEO	E200	TAOTI
	160-26240-	KAFB-106EX1	011018	REG	E300	TASTL
	1		106EX2-P2R-	DEO	E200	TAOTI
		KAFB-106EX2	011018	REG	E300	TASTL
		KAFD-100EAZ	106EX2-P2R-	FD	E200	TACTI
1/10/2019			011018-FD	FD	E300	TASTL
1/10/2018			106IN1-P2R-	DEO	E200	TAOTI
		KAFB-106IN1	011018-03	REG	E300	TASTL
			106063-P2R-	DEC	E300M	APTIM
		KAFB-106063	011018	REG	RSK-175	APTIM
			106064-P2R-	DEC	E300M	APTIM
		KAFB-106064	011018	REG	RSK-175	APTIM
	0760		106EX1-P2R-	BEC	E300M	APTIM
	9769	KAFB-106EX1	011018	REG	RSK-175	APTIM
			106EX2-P2R-	BEC	E300M	APTIM
			011018	REG	RSK-175	APTIM
		KAFB-106EX2	106EX2-P2R-		E300M	APTIM
	1		011018-FD	FD	RSK-175	APTIM
				1		1
	0700		106IN1-P2R-		FOCOL	
	9769	KAFB-106IN1	106IN1-P2R- 011018-03	REG	E300M	APTIM
1/10/2018	9769	KAFB-106IN1	011018-03	REG	E300M E353.2	APTIM EPLN
1/10/2018	9769 KAFB_007	KAFB-106IN1 KAFB-106063		REG REG		

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
1/10/2018	KAFB_007	KAFB-106063	106063-P2R- 011018	REG	SW6010C	EPLN
			106063-P2R-		SW8011	EPLN
		KAFB-106063	011018	REG	SW8260B	EPLN
			011010		SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106064-P2R-		SM4500PE	EPLN
		KAFB-106064	011018	REG	SW6010C	EPLN
			011010		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106EX1-P2R-		SM4500PE	EPLN
		KAFB-106EX1	011018	REG	SW6010C	EPLN
			011010		SW8011	EPLN
1/10/2018	KAFB_007				SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106EX2-P2R- 011018	REG	SM4500PE	EPLN
					SW6010C	EPLN
			011010		SW8011	EPLN
					SW8260B	EPLN
		KAFB-106EX2			SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106EX2-P2R- 011018-FD		SM4500PE	EPLN
				FD	SW6010C	EPLN
					SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106EX1	106EX1-P2R- 011618	REG	E300	TASTL
			106EX1-P2R- 011618-FD	FD	E300	TASTL
	160-26240- 1	KAFB-106EX2	106EX2-P2R- 011618	REG	E300	TASTL
		KAFB-106MW1-I	106MW1I-P2R- 011618	REG	E300	TASTL
1/16/2018		KAFB-106MW2-S	106MW2S-P2R- 011618	REG	E300	TASTL
			106EX1-P2R-	REG	E300M	APTIM
		KAFB-106EX1	011618	0	RSK-175	APTIM
			106EX1-P2R-	FD	E300M	APTIM
			011618-FD	. 2	RSK-175	APTIM
	9772	KAFB-106EX2	106EX2-P2R-	REG	E300M	APTIM
	5.72		011618	0	RSK-175	APTIM
		KAFB-106MW1-I	106MW1I-P2R-	REG	E300M	APTIM
			011618	0	RSK-175	APTIM
		KAFB-106MW2-S	106MW2S-P2R-	REG	E300M	APTIM
			011618	0	RSK-175	APTIM

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
					E353.2	EPLN
					SM2320B	EPLN
			106EX1-P2R-		SM4500PE	EPLN
			011618	REG	SW6010C	EPLN
			011010		SW8011	EPLN
					SW8260B	EPLN
		KAFB-106EX1			SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106EX1-P2R-		SM4500PE	EPLN
			011618-FD	FD	SW6010C	EPLN
					SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106EX2-P2R-		SM4500PE	EPLN
1/16/2018	KAFB_008	KAFB-106EX2	011618	REG	SW6010C	EPLN
			011010		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
		KAFB-106MW1-I	106MW1I-P2R- 011618		SM4500PE	EPLN
				REG	SW6010C	EPLN
					SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
		KAFB-106MW2-S			SM4500PE	EPLN
			106MW2S-P2R- 011618	REG	SW6010C	EPLN
			011010		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106063	106063-P2R- 011818	REG	E300	TASTL
	160-26240-	KAFB-106064	106064-P2R- 011818	REG	E300	TASTL
	1	KAFB-106MW1-S	106MWIS-P2R- 011818	REG	E300	TASTL
		KAFB-106MW2-I	106MW2I-P2R- 011818	REG	E300	TASTL
		KAEP 106062	106063-P2R-	PEC	E300M	APTIM
		KAFB-106063	011818	REG	RSK-175	APTIM
			106064-P2R-	BEO	E300M	APTIM
1/18/2018	0775	KAFB-106064	011818	REG	RSK-175	APTIM
	9775		106MW1S-P2R-	BEO	E300M	APTIM
		KAFB-106MW1-S	011818	REG	RSK-175	APTIM
			106MW2I-P2R-	DEC	E300M	APTIM
		KAFB-106MW2-I	011818	REG	RSK-175	APTIM
					E353.2	EPLN
					SM2320B	EPLN
			106000 505		SM4500PE	EPLN
	KAFB_008	KAFB-106063	106063-P2R-	REG	SW6010C	EPLN
			011818		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
	1			1	011000011	

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab	
					E353.2	EPLN	
					SM2320B	EPLN	
			106064-P2R-		SM4500PE	EPLN	
		KAFB-106064	011818	REG	SW6010C	EPLN	
			011010		SW8011	EPLN	
					SW8260B	EPLN	
					SW9056A	EPLN	
					E353.2	EPLN	
					SM2320B	EPLN	
			106MW1S-P2R-	550	SM4500PE	EPLN	
1/18/2018	KAFB_008	KAFB-106MW1-S	011818	REG	SW6010C	EPLN	
					SW8011	EPLN	
					SW8260B	EPLN	
					SW9056A	EPLN	
					E353.2	EPLN	
					SM2320B SM4500PE	EPLN EPLN	
		KAFB-106MW2-I	106MW2I-P2R-	REG	SW6010C	EPLN	
			011818	NLG	SW8010C	EPLN	
					SW8011 SW8260B	EPLN	
					SW9056A	EPLN	
		106IN1-P2R-		3119030A	EFLIN		
		KAFB-106IN1	012418-04 106MW1I-P2R-	REG	E300	TASTL	
		KAFB-106MW1-I	012418	REG	E300	TASTL	
	160-26515- 1		106MW1I-P2R- 012418-FD	FD	E300	TASTL	
		KAFB-106MW1-S	106MW1S-P2R- 012418	REG	E300	TASTL	
		KAFB-106MW2-I	106MW2I-P2R- 012418	REG	E300	TASTL	
		KAFB-106MW2-S	106MW2S-P2R- 012418	REG	E300	TASTL	
		KAFB-106MW1-I	106MW1I-P2R- 012418	REG	QUANTARRAY	МІ	
	59_055pa	KAFB-106MW1-S	106MW1S-P2R- 012418	REG	QUANTARRAY	МІ	
	59_055pa	KAFB-106MW2-I	106MW2I-P2R- 012418	REG	QUANTARRAY	МІ	
1/24/2018		KAFB-106MW2-S	106MW2S-P2R- 012418	REG	QUANTARRAY	МІ	
		KAFB-106IN1	106IN1-P2R- 012418	REG	E300M	APTIM	
			106MW1I-P2R-	REG	E300M	APTIM	
		KAFB-106MW1-I	012418	C	RSK-175	APTIM	
			106MW1I-P2R-	FD	E300M	APTIM	
	9777		012418-FD	15	RSK-175	APTIM	
		KAFB-106MW1-S	106MW1S-P2R-	REG	E300M	APTIM	
			012418		RSK-175	APTIM	
		KAFB-106MW2-I	106MW2I-P2R-	REG	E300M	APTIM	
			012418	-	RSK-175	APTIM	
		KAFB-106MW2-S	106MW2S-P2R-	REG	E300M	APTIM	
		KAFB-106IN1	012418 106IN1-P2R-	REG	RSK-175 SM4500PE	APTIM EPLN	
			012418-04	0			
	KAFB_009				E353.2	EPLN	
					SM2320B	EPLN	
ļ			106MW1I-P2R-	DEO	SM4500PE	EPLN	
		KAFB-106MW1-I	012418	REG	SW6010C	EPLN	
1/24/2018	KAFB_009				SW8011	EPLN	
					SW8260B	EPLN	
						SW9056A	EPLN

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
					E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106MW1-I	106MW1I-P2R- 012418-FD	FD	SW6010C	EPLN
			012410-FD		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106MW1S-P2R-		SM4500PE	EPLN
		KAFB-106MW1-S	012418	REG	SW6010C	EPLN
			012410		SW8011	EPLN
					SW8260B	EPLN
1/24/2018	KAFB 009				SW9056A	EPLN
1/24/2010					E353.2	EPLN
					SM2320B	EPLN
			106MW2I-P2R-		SM4500PE	EPLN
		KAFB-106MW2-I	012418	REG	SW6010C	EPLN
			012410		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
			106MW2S-P2R-		E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106MW2-S	012418	REG	SW6010C	EPLN
			012410		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106063	106063-P2R- 012518	REG	E300	TASTL
	160-26515-	KAFB-106064	106064-P2R- 012518	REG	E300	TASTL
	1	KAFB-106EX1	106EX1-P2R- 012518	REG	E300	TASTL
		KAFB-106EX2	106EX2-P2R- 012518	REG	E300	TASTL
		KAFB-106063	106063-P2R- 012518	REG	QUANTARRAY	МІ
1/25/2018	59_055pa	KAFB-106064	106064-P2R- 012518	REG	QUANTARRAY	МІ
1/20/2010	00_000pu	KAFB-106EX1	106EX1-P2R- 012518	REG	QUANTARRAY	МІ
		KAFB-106EX2	106EX2-P2R- 012518	REG	QUANTARRAY	МІ
		KAER 106062	106063-P2R-	DEC	E300M	APTIM
		KAFB-106063	012518	REG	RSK-175	APTIM
			106064-P2R-	DEC	E300M	APTIM
	9778	KAFB-106064	012518	REG	RSK-175	APTIM
	9110	KAFB-106EX1	106EX1-P2R-	REG	E300M	APTIM
			012518	NEG	RSK-175	APTIM
		KAFB-106EX2	106EX2-P2R-	REG	E300M	APTIM
			012518	NEO	RSK-175	APTIM

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
					E353.2	EPLN
			400000 000		SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106063	106063-P2R- 012518	REG	SW6010C	EPLN
			012516		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
			106064-P2R-		SM4500PE	EPLN
		KAFB-106064	012518	REG	SW6010C	EPLN
			012010		SW8011	EPLN
					SW8260B	EPLN
1/25/2018	KAFB 009				SW9056A	EPLN
1/20/2010	10 ll D_000				E353.2	EPLN
					SM2320B	EPLN
			106EX1-P2R-		SM4500PE	EPLN
		KAFB-106EX1	012518	REG	SW6010C	EPLN
			0.20.0		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
			106EX2-P2R- 012518	REG	SM2320B	EPLN
		KAFB-106EX2			SM4500PE	EPLN
					SW6010C	EPLN
					SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106063	106063-P2P- 030618	REG	E300	TASTL
		KAFB-106MW1-I	106MW1I-P2P- 030618	REG	E300	TASTL
	160-27155- 1	KAFB-106MW1-S	106MW1S-P2P- 030618	REG	E300	TASTL
			106MW2I-P2P- 030618	REG	E300	TASTL
		KAFB-106MW2-I	106MW2I-P2P- 030618-FD	FD	E300	TASTL
			106063-P2P-	DE0	E300M	APTIM
		KAFB-106063	030618	REG	RSK-175	APTIM
			106MW1I-P2P-	DEC	E300M	APTIM
		KAFB-106MW1-I	030618	REG	RSK-175	APTIM
3/6/2018	9788	KAFB-106MW1-S	106MW1S-P2P-	REG	E300M	APTIM
3/0/2010	9100		030618	REG	RSK-175	APTIM
			106MW2I-P2P-	REG	E300M	APTIM
		KAFB-106MW2-I	030618	INEO	RSK-175	APTIM
			106MW2I-P2P-	FD	E300M	APTIM
			030618-FD		RSK-175	APTIM
					E353.2	EPLN
				[SM2320B	EPLN
			106063-P2P-	[SM4500PE	EPLN
		KAFB-106063	030618	REG	SW6010C	EPLN
	KAFB 010		000010	[SW8011	EPLN
	1010_010				SW8260B	EPLN
					SW9056A	EPLN
			106MW1I-P2P-		E353.2	EPLN
		KAFB-106MW1-I	030618	REG	SM2320B	EPLN
			000010		SM4500PE	EPLN

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab										
-					SW6010C	EPLN										
		KAFB-106MW1-I	106MW1I-P2P-	REG	SW8011	EPLN										
		KAFB-100IVIVV I-I	030618	REG	SW8260B	EPLN										
					SW9056A	EPLN										
					E353.2	EPLN										
					SM2320B	EPLN										
			106MW1S-P2P-		SM4500PE	EPLN										
		KAFB-106MW1-S	030618	REG	SW6010C	EPLN										
			000010		SW8011	EPLN										
					SW8260B	EPLN										
					SW9056A	EPLN										
					E353.2	EPLN										
3/6/2018	KAFB_010				SM2320B	EPLN										
			106MW2I-P2P-		SM4500PE	EPLN										
			030618	REG	SW6010C	EPLN										
					SW8011	EPLN										
					SW8260B	EPLN										
		KAFB-106MW2-I			SW9056A	EPLN										
					E353.2	EPLN										
					SM2320B	EPLN										
			106MW2I-P2P-	55	SM4500PE	EPLN										
			030618-FD	FD	SW6010C	EPLN										
				-	SW8011	EPLN										
					SW8260B	EPLN										
			106064 000		SW9056A	EPLN										
		KAFB-106064	106064-P2P- 030718	REG	E300	TASTL										
		KAFB-106EX1	106EX1-P2P- 030718	REG	E300	TASTL										
	160-27155- 1	KAFB-106EX2	106EX2-P2P- 030718	REG	E300	TASTL										
		KAFB-106IN1	106IN1-P2P- 030718	REG	E300	TASTL										
		KAFB-106MW2-S	106MW2S-P2P- 030718	REG	E300	TASTL										
				KAFB-106064	106064-P2P-	REG	E300M	APTIM								
			030718	1120	RSK-175	APTIM										
		KAFB-106EX1	106EX1-P2P-	REG	E300M	APTIM										
													030718	_	RSK-175	APTIM
	9788	KAFB-106EX2	106EX2-P2P-	REG	E300M	APTIM										
			030718		RSK-175	APTIM										
3/7/2018		KAFB-106IN1	106IN1-P2P-	REG	E300M	APTIM										
			030718		RSK-175											
		KAFB-106MW2-S	106MW2S-P2P-	REG	E300M											
			030718		RSK-175	APTIM										
					E353.2	EPLN										
					SM2320B	EPLN										
		KAFB-106064	106064-P2P-	REG	SM4500PE	EPLN										
		KAFD-100004	030718	REG	SW6010C SW8011	EPLN										
						EPLN										
					SW8260B	EPLN EDLN										
	KAFB_010				SW9056A	EPLN EDLN										
					E353.2	EPLN										
					SM2320B	EPLN										
		KAFB-106EX1	106EX1-P2P-	PEG	SM4500PE	EPLN EDLN										
		NAFD-100EA1	030718	REG	SW6010C	EPLN EDLN										
					SW8011 SW8260B	EPLN EPLN										
					SW9056A	EPLN										

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
-					E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106EX2	106EX2-P2P-	REG	SW6010C	EPLN
			030718		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
3/7/2018	KAFB_010	KAFB-106IN1	106IN1-P2P-	REG	SW6010C	EPLN
	_		030718		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					E353.2	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106MW2-S	106MW2S-P2P- 030718	REG	SW6010C	EPLN
			030716		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106063	106063-P2P-	REG	E300	TASTL
		NAI D-100003	041018	ILC	E300	IAGIE
		KAFB-106064	106064-P2P-	REG	E300	TASTL
160.07	160-27760-		041018 106MW1I-P2P-			
	1	KAFB-106MW1-I	041018	REG	E300	TASTL
			106MW2S-P2P-	DEO	5000	TAOTI
		KAFB-106MW2-S	041018	REG	E300	TASTL
			106MW2S-P2P-	FD	E300	TASTL
			041018-FD	15		
		KAFB-106063	106063-P2P-	REG	E300M	APTIM
			041018		RSK-175	APTIM
		KAFB-106064	106064-P2P-	REG	E300M	APTIM
			041018		RSK-175	APTIM
	9798	KAFB-106MW1-I	106MW1I-P2P-	REG	E300M	
			041018 106MW2S-P2P-		RSK-175	APTIM
				REG	E300M	APTIM
		KAFB-106MW2-S	041018		RSK-175	
4/10/2018			106MW2S-P2P-	FD	E300M	
			041018-FD		RSK-175	APTIM EPLN
					SM2320B SM4500PE	EPLN
			106063 020		014/00/100	551.11
		KAFB-106063	106063-P2P- 041018	REG	SW6010C	EPLN
			041010		SW8011 SW8260B	EPLN EPLN
					SW8260B SW9056A	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
			106064-P2P-		SW6010C	EPLN
	KAFB_011	KAFB-106064	041018	REG	SW8010C SW8011	EPLN
			541010		SW8260B	EPLN
					SW9056A	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
			106MW1I-P2P-		SW6010C	EPLN
		KAFB-106MW1-I	041018	REG	SW8010C	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
				1	0110000A	

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
4/10/2018	KAFB 011	KAFB-106MW2-S	106MW2S-P2P-	REG	SM2320B	EPLN
4/10/2016	KAFB_UTI	KAFD-10010102-3	041018	REG	SM4500PE	EPLN
4/10/2018	KAFB_011	KAFB-106MW2-S	106MW2S-P2P- 041018	REG	SW6010C	EPLN
					SW8011	EPLN
			106MW2S-P2P- 041018	REG	SW8260B	EPLN
			041018		SW9056A	EPLN
					SM2320B	EPLN
4/10/2018	KAFB_011	KAFB-106MW2-S			SM4500PE	EPLN
			106MW2S-P2P-	FD	SW6010C	EPLN
			041018-FD		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106EX1	106EX1-P2P- 041118	REG	E300	TASTL
		KAFB-106EX2	106EX2-P2P- 041118	REG	E300	TASTL
	160-27760- 1	KAFB-106IN1	106IN1-P2P- 041118	REG	E300	TASTL
		KAFB-106MW1-S	106MW1S-P2P- 041118	REG	E300	TASTL
		KAFB-106MW2-I	106MW2I-P2P- 041118	REG	E300	TASTL
		KAFB-106EX1	106EX1-P2P-	REG	E300M	APTIM
		KAFB-100EX1	041118	REG	RSK-175	APTIM
		KAFB-106EX2	106EX2-P2P-	REG	E300M	APTIM
			041118	NLO	RSK-175	APTIM
	9799	KAFB-106IN1	106IN1-P2P-	REG	E300M	APTIM
	0100		041118	I LO	RSK-175	APTIM
		KAFB-106MW1-S	106MW1S-P2P-	REG	E300M	APTIM
			041118	_	RSK-175	APTIM
		KAFB-106MW2-I	106MW2I-P2P-	REG	E300M	APTIM
			041118		RSK-175	APTIM
					SM2320B SM4500PE	EPLN EPLN
			106EX1-P2P-		SW6010C	EPLN
4/11/2018		KAFB-106EX1	041118	REG	SW8011	EPLN
			041110		SW8260B	EPLN
				·	SW9056A	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106EX2	106EX2-P2P-	REG	SW6010C	EPLN
			04118	NLO	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					SM2320B	EPLN
	KAFB_011		40000 -		SM4500PE	EPLN
		KAFB-106IN1	106IN1-P2P-	REG	SW6010C	EPLN
			041118		SW8011	EPLN
					SW8260B	EPLN
					SW9056A SM2320B	EPLN EPLN
				SM2320B SM4500PE	EPLN	
			100101/10 505			
			106MW15-P2P	ľ		
		KAFB-106MW1-S	106MW1S-P2P- 041118	REG	SW6010C	EPLN
		KAFB-106MW1-S		REG	SW6010C SW8011	EPLN EPLN
		KAFB-106MW1-S		REG	SW6010C SW8011 SW8260B	EPLN EPLN EPLN
		KAFB-106MW1-S	041118	REG	SW6010C SW8011 SW8260B SW9056A	EPLN EPLN
		KAFB-106MW1-S KAFB-106MW2-I		REG	SW6010C SW8011 SW8260B	EPLN EPLN EPLN EPLN

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
					SW8011	EPLN
4/11/2018	KAFB_011	KAFB-106MW2-I	106MW2I-P2P-	REG	SW8260B	EPLN
			041118	-	SW9056A	EPLN
		KAFB-106063	106063-P2P- 050818	REG	E300	TASTL
	160-28253-	KAFB-106MW1-I	106MW1I-P2P- 050818	REG	E300	TASTL
	1	KAFB-106MW1-S	106MW1S-P2P- 050818	REG	E300	TASTL
		KAFB-106MW2-I	106MW2I-P2P- 050818	REG	E300	TASTL
		KAFB-106063	106063-P2P- 050818	REG	QUANTARRAY	APTIM
	94 038PE	KAFB-106MW1-I	106MW1I-P2P- 050818	REG	QUANTARRAY	APTIM
	94_030i L	KAFB-106MW1-S	106MW1S-P2P- 050818	REG	QUANTARRAY	APTIM
		KAFB-106MW2-I	106MW2I-P2P- 050818	REG	QUANTARRAY	APTIM
		KAFB-106063	106063-P2P-	REG	E300M	APTIM
		NAI B-100003	050818		RSK-175	APTIM
		KAFB-106MW1-I	106MW1I-P2P-	REG	E300M	APTIM
	9812		050818	_	RSK-175	APTIM
		KAFB-106MW1-S	106MW1S-P2P-	REG	E300M	APTIM
			050818		RSK-175	APTIM
		KAFB-106MW2-I	106MW2I-P2P-	REG	E300M	APTIM
05/08/2018			050818		RSK-175	APTIM
					SM2320B	EPLN
			106062 020		SM4500PE	EPLN
		KAFB-106063	106063-P2P- 050818	REG	SW6010C	EPLN
			050616		SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
			106MW1I-P2P- 050818		SM2320B	EPLN
					SM4500PE SW6010C	EPLN EPLN
		KAFB-106MW1-I		REG		
					SW8011	EPLN
					SW8260B SW9056A	EPLN EPLN
	KAFB_012				SM2320B	
					SM2320B SM4500PE	EPLN EPLN
			106MW1S-P2P-		SW6010C	EPLN
		KAFB-106MW1-S	050818	REG	SW8010C	EPLN
			000010		SW8260B	EPLN
					SW9056A	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
			106MW2I-P2P-		SW6010C	EPLN
		KAFB-106MW2-I	050818	REG	SW8010C	EPLN
			000010		SW8260B	EPLN
					SW9056A	EPLN
			106064-P2P- 050918	REG	E300	TASTL
	160-28253-	KAFB-106064	106064-P2P- 050918-FD	FD	E300	TASTL
5/9/2018	1	KAFB-106EX1	106EX1-P2P- 050918	REG	E300	TASTL
		KAFB-106EX2	106EX2-P2P- 050918	REG	E300	TASTL

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
		KAFB-106IN1	106IN1-P2P-	REG	E300	TASTL
	160-28253-		050918	IXEG	E300	TASTL
5/9/2018	1	KAFB-106MW2-S	106MW2S-P2P- 050918	REG	E300	TASTL
	94_038PE	KAFB-106064	106064-P2P- 050918	REG	QUANTARRAY	APTIM
	94_038PE	KAFB-106EX1	106EX1-P2P- 050918	REG	QUANTARRAY	APTIM
		KAFB-106EX2	106EX2-P2P- 050918	REG	QUANTARRAY	APTIM
	94_038PE	KAFB-106IN1	106IN1-P2P- 050918	REG	QUANTARRAY	APTIM
		KAFB-106MW2-S	106MW2S-P2P- 050918	REG	QUANTARRAY	APTIM
			106064-P2P-	REG	E300M	APTIM APTIM
		KAFB-106064	050918 106064-P2P-		RSK-175 E300M	APTIM
			050918-FD	FD	RSK-175	APTIM
			106EX1-P2P-	DEO	E300M	APTIM
	9813	KAFB-106EX1	050918	REG	RSK-175	APTIM
	9013	KAFB-106EX2	106EX2-P2P-	REG	E300M	APTIM
		KAFB-100EAZ	050918	REG	RSK-175	APTIM
		KAFB-106IN1	106IN1-P2P-	REG	E300M	APTIM
			050918		RSK-175	APTIM
		KAFB-106MW2-S	106MW2S-P2P-	REG	E300M	APTIM
			050918		RSK-175	APTIM EPLN
					SM2320B	EPLN
			106064-P2P-		SM4500PE SW6010C	EPLN
			050918	REG	SW8010C	EPLN
			000010		SW8260B	EPLN
		KAFB-106064			SW9056A	EPLN
					SM2320B	EPLN
5/0/0010					SM4500PE	EPLN
5/9/2018			106064-P2P-	FD	SW6010C	EPLN
			050918-FD	FD	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
				REG	SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106EX1	106EX1-P2P-		SW6010C	EPLN
			050918		SW8011	EPLN
	KAFB_012				SW8260B	EPLN
					SW9056A	EPLN
					SM2320B	EPLN
			106522 020		SM4500PE	EPLN EPLN
		KAFB-106EX2	106EX2-P2P- 050918	REG	SW6010C SW8011	EPLN
			030910		SW8260B	EPLN
					SW9056A	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
			106IN1-P2P-		SW6010C	EPLN
		KAFB-106IN1	050918	REG	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106MW2-S	106MW2S-P2P-	REG	SW6010C	EPLN
		NALD-1001/11/5	050918	REG	SW8011	EPLN
	KAFB_012				SW8260B	EPLN
					SW9056A	EPLN

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
6/12/2018	160-28933-	KAFB-106063	106063-P2P-	REG	E300	TASTL
0,12,2010	1		061218	1.20	2000	in to the
6/12/2018	160-28933-	KAFB-106MW1-I	106MW1I-P2P- 061218	REG	E300	TASTL
0/12/2010	1	KAFB-106MW2-I	106MW2I-P2P- 061218	REG	E300	TASTL
6/12/2018		KAFB-106063	106063-P2P-	REG	E300M	APTIM
0/12/2010		NAI D-100003	061218	NLG	RSK-175	APTIM
	9820	KAFB-106MW1-I	106MW1I-P2P-	REG	E300M	APTIM
			061218	_	RSK-175	APTIM
		KAFB-106MW2-I	106MW2I-P2P-	REG	E300M	
			061218		RSK-175	APTIM EPLN
					SM2320B SM4500PE	EPLN
			106063-P2P-		SW6010C	EPLN
		KAFB-106063	061218	REG	SW8010C	EPLN
			001210		SW8260B	EPLN
					SW9056A	EPLN
011010010					SM2320B	EPLN
6/12/2018					SM4500PE	EPLN
			106MW1I-P2P-	550	SW6010C	EPLN
	KAFB_013	KAFB-106MW1-I	061218	REG	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106MW2-I	106MW2I-P2P-	REG	SW6010C	EPLN
			061218	NLG	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
			106064-P2P- 061418	REG	E300	TASTL
		KAFB-106064	106064-P2P- 061418-FD	FD	E300	TASTL
		KAFB-106EX1	106EX1-P2P- 061418	REG	E300	TASTL
	160-28933- 1	KAFB-106EX2	106EX2-P2P- 061418	REG	E300	TASTL
		KAFB-106IN1	106IN1-P2P- 061418	REG	E300	TASTL
		KAFB-106MW1-S	106MW1S-P2P- 061418	REG	E300	TASTL
6/14/2018		KAFB-106MW2-S	106MW2S-P2P- 061418	REG	E300	TASTL
			106064-P2P-	DEC	E300M	APTIM
		KAFB-106064	061418	REG	RSK-175	APTIM
			106064-P2P-	FD	E300M	APTIM
			061418-FD		RSK-175	APTIM
		KAFB-106EX1	106EX1-P2P-	REG	E300M	APTIM
	9822		061418	0	RSK-175	APTIM
		KAFB-106EX2	106EX2-P2P-	REG	E300M	APTIM
			061418	_	RSK-175	APTIM
		KAFB-106IN1	106IN1-P2P-	REG	E300M	APTIM
			061418		RSK-175	
		KAFB-106MW1-S	106MW1S-P2P-	REG	E300M	
	1		061418		RSK-175	APTIM

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
			106MW2S-P2P-		E300M	APTIM
	9822	KAFB-106MW2-S	061418	REG	RSK-175	APTIM
					SM2320B	EPLN
					SM4500PE	EPLN
			106064-P2P-	550	SW6010C	EPLN
			061418	REG	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106064			SM2320B	EPLN
					SM4500PE	EPLN
			106064-P2P-	FD	SW6010C	EPLN
			061418-FD	FD	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106EX1	106EX1-P2P-	REG	SW6010C	EPLN
		KALD-100EX1	061418	REG	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					SM2320B	EPLN
6/14/2018					SM4500PE	EPLN
0/14/2010	KAFB_013	KAFB-106EX2	106EX2-P2P-	REG	SW6010C	EPLN
		FB_013 KAFB-106EX2	061418	NLO	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106IN1	106IN1-P2P-	REG	SW6010C	EPLN
			061418	1.20	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
		KAFB-106MW1-S			SM2320B	EPLN
			106MW1S-P2P- 061418		SM4500PE	EPLN
				REG	SW6010C	EPLN
				0	SW8011	EPLN
					SW8260B	EPLN
					SW9056A	EPLN
					SM2320B	EPLN
					SM4500PE	EPLN
		KAFB-106MW2-S	106MW2S-P2P-	REG	SW6010C	EPLN
			061418		SW8011	EPLN
					SW8260B	EPLN
			400000441 000		SW9056A	EPLN
		KAFB-106MW1-I	106MW1I-P3P- 080718	REG	E300	TASTL
	160-30041-	KAFB-106MW1-S	106MW1S-P3P- 080718	REG	E300	TASTL
	1	KAFB-106MW2-I	106MW2I-P3P- 080718	REG	E300	TASTL
08/07/2018		KAFB-106MW2-S	106MW2S-P3P- 080718	REG	E300	TASTL
30/01/2010		KAFB-106MW1-I	106MW1I-P3P-	REG	E300M	APTIM
			080718		RSK-175	APTIM
		KAFB-106MW1-S	106MW1S-P3P-	REG	E300M	APTIM
	0007		080718	NLG	RSK-175	APTIM
	9827		40CMMA/0L DOD		E200M	APTIM
	9827	KAFB-106MM/2-1	106MW2I-P3P-	REC	E300M	AFTIN
	9827	KAFB-106MW2-I	080718	REG	RSK-175	APTIM
	9827	KAFB-106MW2-I KAFB-106MW2-S		REG REG		

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
•			106063-P3P-			T 1 0 T
		KAFB-106063	080818	REG	E300	TASTL
		KAFB-106064	106064-P3P-	REG	E300	TASTL
		KAFB-100004	080818	REG	E300	TASTL
	160-30041-	KAFB-106EX1	106EX1-P3P-	REG	E300	TASTL
	1	IN TO TOOLXI	080818	I LO	Looo	INGTE
			106EX2-P3P-	REG	E300	TASTL
		KAFB-106EX2	080818			
			106EX2-P3P- 080818-FD	FD	E300	TASTL
			000010110		SM2320B	TASAC
					SW9056A	TASAC
			106063-P3P-	DEC	SW6010C	TASAV
		KAFB-106063	080818	REG	SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
					SM2320B	TASAC
					SW9056A	TASAC
		KAFB-106064	106064-P3P-	REG	SW6010C	TASAV
		KAFD-100004	080818	REG	SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
		680- 156637-1 KAFB-106EX1			SM2320B	TASAC
			106EX1-P3P- 080818	REG	SW9056A	TASAC
08/08/2018					SW6010C	TASAV
00/00/2010	156637-1			INLO	SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
					SM2320B	TASAC
					SW9056A	TASAC
			106EX2-P3P-	REG	SW6010C	TASAV
			080818	INEO	SW8011	TASAV
					SW8260B	TASAV
		KAFB-106EX2			SW9056A	TASAV
			106EX2-P3P- 080818-FD		SM2320B	TASAC
				FD	SW9056A	TASAC
					SW6010C	TASAV
					SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
		KAFB-106063	106063-P3P-	REG	E300M	APTIM
			080818	-	RSK-175	APTIM
		KAFB-106064	106064-P3P-	REG	E300M	APTIM
					RSK-175	
	9828	KAFB-106EX1	106EX1-P3P-	REG	E300M	APTIM
			080818		RSK-175	
			106EX2-P3P-	REG	E300M	
		KAFB-106EX2	080818		RSK-175	
			106EX2-P3P-	FD	E300M	
			080818-FD		RSK-175	APTIM
		KAFB-106MW1-I	106MW1I-P3P- 081518	REG	E300	TASTL
		<u> </u>	106MW1S-P3P-			
	160-30197-	KAFB-106MW1-S	081518	REG	E300	TASTL
8/15/2018	100-30197-		106MW2I-P3P-			
		KAFB-106MW2-I	081518	REG	E300	TASTL
		106MW2S-P3P-				
		KAFB-106MW2-S	081518	REG	E300	TASTL
L			001010	I		

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab	
					SM2320B	TASAC	
					SW9056A	TASAC	
			106MW1I-P3P-	DEC	SW6010C	TASAV	
		KAFB-106MW1-I	081518	REG	SW8011	TASAV	
					SW8260B	TASAV	
					SW9056A	TASAV	
					SM2320B	TASAC	
					SW9056A	TASAC	
		KAFB-106MW1-S	106MW1S-P3P-	REG	SW6010C	TASAV	
		NAFD-10010100 1-3	081518	REG	SW8011	TASAV	
					SW8260B	TASAV	
	680-				SW9056A	TASAV	
	156725-1				SM2320B	TASAC	
					SW9056A	TASAC	
		KAFB-106MW2-I	106MW2I-P3P-	REG	SW6010C	TASAV	
8/15/2018			081518	INLO	SW8011	TASAV	
0/13/2010					SW8260B	TASAV	
					SW9056A	TASAV	
					SM2320B	TASAC	
					SW9056A	TASAC	
		KAFB-106MW2-S	106MW2S-P3P-	REG	SW6010C	TASAV	
			081518	I LO	SW8011	TASAV	
					SW8260B	TASAV	
					SW9056A	TASAV	
		KAFB-106MW1-I	106MW1I-P3P-	REG	E300M	APTIM	
			081518	I LO	RSK-175	APTIM	
		KAFB-106MW1-S	106MW1S-P3P-	REG	E300M	APTIM	
	9829		081518	I LEO	RSK-175	APTIM	
	0020	KAFB-106MW2-I	106MW2I-P3P-	REG	E300M	APTIM	
			081518		RSK-175	APTIM	
		KAFB-106MW2-S	106MW2S-P3P-	REG	E300M	APTIM	
			081518	1.20	RSK-175	APTIM	
		KAFB-106063	106063-P3P- 081618	REG	E300	TASTL	
				106064-P3P-			
		KAFB-106064	081618	REG	E300	TASTL	
	160-30197-		106EX1-P3P-				
	1	181-	081618	REG	E300	TASTL	
		KAFB-106EX1	106EX1-P3P-				
			081618-FD	FD	E300	TASTL	
			106EX2-P3P-				
		KAFB-106EX2	081618	REG	E300	TASTL	
					SM2320B	TASAC	
					SW9056A	TASAC	
		KAFB-106063	106063-P3P-	REG	SW6010C	TASAV	
8/16/2018			081618	0	SW8011	TASAV	
					SW8260B	TASAV	
					SW9056A	TASAV	
					SM2320B	TASAC	
					SW9056A	TASAC	
	680-	KAFB-106064	106064-P3P-	REG	SW6010C	TASAV	
	156725-1		081618		SW8011	TASAV	
					SW8260B	TASAV	
					SW9056A	TASAV	
					SM2320B	TASAC	
					SW9056A	TASAC	
		KAFB-106EX1	106EX1-P3P-	REG	SW6010C	TASAV	
			081618		SW8011	TASAV	
1					SW8260B	TASAV	

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
8/16/2018					SM2320B	TASAC
					SW9056A	TASAC
			106EX1-P3P-	FD	SW6010C	TASAV
		KAFB-106EX1	081618-FD	FD	SW8011	TASAV
					SW8260B	TASAV
	680- 156725-1				SW9056A	TASAV
		KAFB-106EX2	106EX2-P3P- 081618	REG	SM2320B	TASAC
					SW9056A	TASAC
					SW6010C	TASAV
					SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
		KAFB-106063	106063-P3P- 081618	REG	E300M	APTIM
					RSK-175	APTIM
		KAFB-106064	106064-P3P- 081618	REG	E300M	APTIM
	9830				RSK-175	APTIM
		KAFB-106EX1	106EX1-P3P-	REG	E300M	APTIM
			081618	1.20	RSK-175	APTIM
			106EX1-P3P-	FD	E300M	APTIM
			081618-FD	. 5	RSK-175	APTIM
		KAFB-106EX2	106EX2-P3P-	REG	E300M	APTIM
			081618		RSK-175	APTIM
	0_093PH	KAFB-106MW1-I	106MW1I-P3P- 082118	REG	QUANTARRAY	МІ
8/21/2018		KAFB-106MW1-S	106MW1S-P3P- 082118	REG	QUANTARRAY	МІ
		KAFB-106MW2-I	106MW2I-P3P- 082118	REG	QUANTARRAY	МІ
		KAFB-106MW2-S	106MW2S-P3P- 082118	REG	QUANTARRAY	MI
	160-30327- 1	KAFB-106MW1-I	106MW1I-P3P- 082118	REG	E300	TASTL
			106MW1I-P3P- 082118-FD	FD	E300	TASTL
		KAFB-106MW1-S	106MW1S-P3P- 082118	REG	E300	TASTL
		KAFB-106MW2-I	106MW2I-P3P- 082118	REG	E300	TASTL
		KAFB-106MW2-S	106MW2S-P3P- 082118	REG		
					E300	TASTL
	680- 156910-1	KAFB-106MW1-I	106MW1I-P3P- 082118	REG	SM2320B	TASAC
					SW9056A	TASAC
					SW6010C	TASAV
					SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
			106MW1I-P3P- 082118-FD	FD	SM2320B	TASAC
					SW9056A	TASAC
					SW6010C	TASAV
					SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
		KAFB-106MW1-S	106MW1S-P3P- 082118	REG	SM2320B	TASAC
					SW9056A	TASAC
					SW6010C	TASAV
					SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
8/21/2018					SM2320B	TASAC
					SW9056A	TASAC
		KAFB-106MW2-I	106MW2I-P3P- 082118	REG	SW6010C	TASAV
					SW8011	TASAV
					SW8260B	TASAV
	680-				SW9056A	TASAV
	156910-1	KAFB-106MW2-S	106MW2S-P3P- 082118	REG	SM2320B	TASAC
					SW9056A	TASAC
					SW6010C	TASAV
					SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
			106MW1I-P3P-	REG	E300M	APTIM
		KAFB-106MW1-I	082118 106MW1I-P3P- 082118-FD 106MW1S-P3P-	FD	RSK-175	
	9832				E300M	
					RSK-175 E300M	APTIM APTIM
		KAFB-106MW1-S KAFB-106MW2-I	082118 106MW2I-P3P- 082118	REG REG	RSK-175	APTIM
					E300M	APTIM
					RSK-175	APTIM
			106MW2S-P3P-		E300M	APTIM
		KAFB-106MW2-S	082118	REG	RSK-175	APTIM
	0_093PH	KAFB-106063	106063-P3P- 082218	REG	QUANTARRAY	MI
		KAFB-106064	106064-P3P- 082218	REG	QUANTARRAY	МІ
		KAFB-106EX1	106EX1-P3P- 082218	REG	QUANTARRAY	МІ
		KAFB-106EX2	106EX2-P3P- 082218	REG	QUANTARRAY	МІ
	160-30327- 1	KAFB-106063	106063-P3P- 082218	REG	E300	TASTL
		KAFB-106064	106064-P3P- 082218	REG	E300	TASTL
		KAFB-106EX1	106EX1-P3P- 082218	REG	E300	TASTL
		KAFB-106EX2	106EX2-P3P- 082218	REG	E300	TASTL
	680- 156910-1	KAFB-106063	106063-P3P- 082218	REG	SM2320B	TASAC
					SW9056A	TASAC
8/22/2018					SW6010C SW8011	TASAV TASAV
0/22/2010					SW8011 SW8260B	TASAV
					SW9056A	TASAV
		KAFB-106064		REG	SM2320B	TASAV
					SW9056A	TASAC
			106064-P3P-		SW6010C	TASAV
			082218		SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
		KAFB-106EX1	106EX1-P3P- 082218	REG	SM2320B	TASAC
					SW9056A	TASAC
					SW6010C	TASAV
					SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
		KAFB-106EX2	106EX2-P3P- 082218	REG	SM2320B	TASAC
					SW9056A	TASAC
					SW6010C	TASAV
					SW8011	TASAV
					SW8260B	TASAV

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
•	680-		106EX2-P3P-		-	TAOA)/
8/22/2018	156910-1	KAFB-106EX2	082218	REG	SW9056A	TASAV
		KAFB-106063	106063-P3P-	REG	E300M	APTIM
		101112 100000	082218	I LEO	RSK-175	APTIM
		KAFB-106064	106064-P3P-	REG	E300M	APTIM
8/22/2018	9833		082218		RSK-175	APTIM
		KAFB-106EX1	106EX1-P3P-	REG	E300M	APTIM
			082218		RSK-175	APTIM
		KAFB-106EX2	106EX2-P3P-	REG	E300M	
			082218		RSK-175	APTIM
		KAFB-106MW1-I	106MW1I-P3P- 082818	REG	E300	TASTL
	160-30445-	KAFB-106MW1-S	106MW1S-P3P- 082818	REG	E300	TASTL
	1	KAFB-106MW2-I	106MW2I-P3P- 082818	REG	E300	TASTL
		KAFB-106MW2-S	106MW2S-P3P- 082818	REG	E300	TASTL
			002010		SM2320B	TASAC
					SW9056A	TASAC
			106MW1I-P3P-		SW6010C	TASAV
		KAFB-106MW1-I	082818	REG	SW8011	TASAV
			002010		SW8260B	TASAV
					SW9056A	TASAV
					SM2320B	TASAC
			S 106MW1S-P3P- 082818		SW9056A	TASAC
				REG	SW6010C	TASAV
		KAFB-106MW1-S			SW8011	TASAV
					SW8260B	TASAV
08/28/2018	680-				SW9056A	TASAV
00/20/2010	157217-1	217-1			SM2320B	TASAC
			6MW2-I 106MW2I-P3P- 082818		SW9056A	TASAC
		KAFB-106MW2-I		REG	SW6010C	TASAV
				I LO	SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
					SM2320B	TASAC
		KAFB-106MW2-S			SW9056A	TASAC
			106MW2S-P3P-	REG	SW6010C	TASAV
			082818		SW8011	TASAV
					SW8260B	TASAV
			106MW1I-P3P-		SW9056A E300M	TASAV APTIM
		KAFB-106MW1-I	082818	REG	RSK-175	APTIM
			106MW1S-P3P-		E300M	APTIM
		KAFB-106MW1-S	082818	REG	RSK-175	APTIM
	9834		106MW2I-P3P-		E300M	APTIM
		KAFB-106MW2-I	082818	REG	RSK-175	APTIM
			106MW2S-P3P-		E300M	APTIM
		KAFB-106MW2-S	082818	REG	RSK-175	APTIM
			106063-P3P-	REG	E300	TASTL
		KAFB-106063	082918 106063-P3P-			
	160-30445-		082918-FD 106064-P3P-	FD	E300	TASTL
	1	KAFB-106064	082918	REG	E300	TASTL
8/29/2018		KAFB-106EX1	106EX1-P3P- 082918	REG	E300	TASTL
		KAFB-106EX2	106EX2-P3P- 082918	REG	E300	TASTL

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
					SM2320B	TASAC
	680-		106063-P3P-	550	SW9056A	TASAC
	157273-1	KAFB-106063	082918	REG	SW6010C	TASAV
				•	SW8011	TASAV
			106063-P3P-		SW8260B	TASAV
			082918	REG	SW9056A	TASAV
					SM2320B	TASAC
					SW9056A	TASAC
		KAFB-106063	106063-P3P-		SW6010C	TASAV
			082918-FD	FD ·	SW8011	TASAV
			00201012		SW8260B	TASAV
					SW9056A	TASAV
					SM2320B	TASAC
				•	SW9056A	TASAC
			106064-P3P-	•	SW6010C	TASAC
		KAFB-106064	082918	REG	SW8010C	TASAV
	680-		002910		SW8260B	TASAV
	157273-1					TASAV
	157275-1				SW9056A	
					SM2320B	TASAC
				-	SW9056A	TASAC
		KAFB-106EX1	106EX1-P3P-	REG	SW6010C	TASAV
8/29/2018			082918		SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
					SM2320B	TASAC
					SW9056A	TASAC
		KAFB-106EX2	106EX2-P3P- 082918	REG	SW6010C	TASAV
					SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
			106063-P3P-	REG	E300M	APTIM
		KAFB-106063	082918		RSK-175	APTIM
			106063-P3P-	FD	E300M	APTIM
			082918-FD		RSK-175	APTIM
	9835	KAFB-106064	106064-P3P-	REG	E300M	APTIM
	0000		082918	I LEO	RSK-175	APTIM
		KAFB-106EX1	106EX1-P3P-	REG	E300M	APTIM
			082918	NLO	RSK-175	APTIM
		KAFB-106EX2	106EX2-P3P-	REG	E300M	APTIM
			082918	INLO	RSK-175	APTIM
		KAFB-106MW1-I	106MW1I-P3P- 091118	REG	E300	TASTL
	400 00070	KAFB-106MW1-S	106MW1S-P3P-	REG	E300	TASTL
	160-30672-		091118			
	1	KAFB-106MW2-I	106MW2I-P3P- 091118	REG	E300	TASTL
		KAFB-106MW2-S	106MW2S-P3P- 091118	REG	E300	TASTL
					SM2320B	TASAC
				[SW9056A	TASAC
		KAFB-106MW1-I	106MW1I-P3P-	REG	SW6010C	TASAV
			091118	INC O	SW8011	TASAV
9/11/2018				[SW8260B	TASAV
3/11/2010					SW9056A	TASAV
					SM2320B	TASAC
					SW9056A	TASAC
	680-		106MW1S-P3P-	550	SW6010C	TASAV
	157805-1	KAFB-106MW1-S	091118	REG	SW8011	TASAV
	1010001		091118			
	10/000 1			1	SW8260B	TASAV

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
· · ·			•		SM2320B	TASAC
					SW9056A	TASAC
			106MW2I-P3P-	550	SW6010C	TASAV
		KAFB-106MW2-I	091118	REG	SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
					SM2320B	TASAC
					SW9056A	TASAC
	680-		106MW2S-P3P-	DEO	SW6010C	TASAV
	157805-1	KAFB-106MW2-S	091118	REG	SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
9/11/2018		KAFB-106MW1-I	106MW1I-P3P-	REG	E300M	APTIM
3/11/2010			091118	NLG	RSK-175	APTIM
		KAFB-106MW1-S	106MW1S-P3P-	REG	E300M	APTIM
	9839		091118	NEO	RSK-175	APTIM
	3033	KAFB-106MW2-I	106MW2I-P3P-	REG	E300M	APTIM
			091118	NEO	RSK-175	APTIM
		KAFB-106MW2-S	106MW2S-P3P-	REG	E300M	APTIM
		IN B TOOMWE	091118	I LO	RSK-175	APTIM
		KAFB-106063	106063-P3P- 091218	REG	E300	TASTL
			106064-P3P-	REG	E300	TASTL
	160-30672-	KAFB-106064	091218 106064-P3P-	ED	E300	TACTI
	1		091218-FD 106EX1-P3P-	FD	E300	TASTL
		KAFB-106EX1	091218	REG	E300	TASTL
		KAFB-106EX2	106EX2-P3P- 091218	REG	E300	TASTL
		KAFB-106063	106063-P3P- 091218		SM2320B	TASAC
					SW9056A	TASAC
				REG	SW6010C	TASAV
				INLO	SW8011	TASAV
					SW8260B	TASAV
				REG	SW9056A	TASAV
					SM2320B	TASAC
					SW9056A	TASAC
			106064-P3P-		SW6010C	TASAV
			091218	0	SW8011	TASAV
					SW8260B	TASAV
		KAFB-106064			SW9056A	TASAV
					SM2320B	TASAC
09/12/2018					SW9056A	TASAC
	680-		106064-P3P-	FD	SW6010C	TASAV
	157881-1		091218-FD		SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
					SM2320B	TASAC
					SW9056A	TASAC
		KAFB-106EX1	106EX1-P3P-	REG	SW6010C	TASAV
			091218		SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
					SM2320B	TASAC
					SW9056A	TASAC
		KAFB-106EX2	106EX2-P3P-	REG	SW6010C	TASAV
			091218		SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab		
			106063-P3P-	DEO	E300M	APTIM		
			KAFB-106063	091218	REG	RSK-175	APTIM	
			106064-P3P-	PEC	E300M	APTIM		
	9840	KAFB-106064	091218	REG	RSK-175	APTIM		
	9040	KAFB-106EX1	106EX1-P3P-	REG	E300M	APTIM		
		KAPD-100EX1	091218	REG	RSK-175	APTIM		
		KAFB-106EX2	106EX2-P3P-	REG	E300M	APTIM		
		NAFD-100EAZ	091218	REG	RSK-175	APTIM		
	160-31078-	KAFB-106MW2-I	106MW2I-P3P- 100218	REG	E300	TASTL		
	1	KAFB-106MW2-S	106MW2S-P3P- 100218	REG	E300	TASTL		
					SM2320B	TASAC		
					SW9056A	TASAC		
		KAFB-106MW2-I	106MW2I-P3P-	REG	SW6010C	TASAV		
		NAF D-100101002-1	100218	REG	SW8011	TASAV		
					SW8260B	TASAV		
10/02/2018	680-				SW9056A	TASAV		
10/02/2010	158674-1				SM2320B	TASAC		
					SW9056A	TASAC		
		KAFB-106MW2-S	106MW2S-P3P-	REG	SW6010C	TASAV		
		KAFD-10010102-3	100218	REG	SW8011	TASAV		
					SW8260B	TASAV		
					SW9056A	TASAV		
		KAFB-106MW2-I	106MW2I-P3P-	REG	E300M	APTIM		
	9841		100218	NLG	RSK-175	APTIM		
	9041	KAFB-106MW2-S	106MW2S-P3P-	REG	E300M	APTIM		
		KAFD-10010102-3	100218	REG	RSK-175	APTIM		
		KAFB-106MW1-I	106MW1I-P3P- 100318	REG	E300	TASTL		
	160-31078- 1	'8- KAFB-106MW1-S	106MW1S-P3P- 100318	REG	E300	TASTL		
		KAFD-100101001-3	106MW1S-P3P- 100318-FD	FD	E300	TASTL		
		KAFB-106MW1-I	106MW1I-P3P- 100318		SM2320B	TASAC		
				REG	SW9056A	TASAC		
					SW6010C	TASAV		
					SW8011	TASAV		
					SW8260B	TASAV		
					SW9056A	TASAV		
					SM2320B	TASAC		
	1						SW9056A	TASAC
10/03/2018	680-		106MW1S-P3P-	REG	SW6010C	TASAV		
10/03/2010	158738-1		100318	REG	SW8011	TASAV		
					SW8260B	TASAV		
					SW9056A	TASAV		
		KAFB-106MW1-S			SM2320B	TASAC		
					SW9056A	TASAC		
			106MW1S-P3P-	ED	SW6010C	TASAV		
			100318-FD	FD	SW8011	TASAV		
					SW8260B	TASAV		
					SW9056A	TASAV		
			106MW1I-P3P-	DEO	E300M	APTIM		
		KAFB-106MW1-I	100318	REG	RSK-175	APTIM		
	0044		106MW1S-P3P-	DEO	E300M	APTIM		
	9841		100318	REG	RSK-175	APTIM		
		KAFB-106MW1-S	106MW1S-P3P-		E300M	APTIM		
					FD			

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
10/4/2018	160-31078-	KAFB-106063	106063-P3P-	REG	E300	TASTL
10/4/2018	1	KAFB-100003	100418	REG	E300	TASTL
		KAFB-106064	106064-P3P-	REG	E300	TASTL
			100418	-		
	160-31078-	KAFB-106EX1	106EX1-P3P- 100418	REG	E300	TASTL
10/4/2018	1		106EX2-P3P-			
		KAFB-106EX2	100418	REG	E300	TASTL
		KAFB-106IN1	106IN1-P3P-	REG	E300	TASTL
		KAFB-100INT	100418	REG	E300	TASTL
					SM2320B	TASAC
			106063-P3P-		SW9056A SW6010C	TASAC TASAV
		KAFB-106063	100003-F3F-	REG	SW8010C SW8011	TASAV
			100410		SW8260B	TASAV
					SW9056A	TASAV
					SM2320B	TASAC
					SW9056A	TASAC
			106064-P3P-	DEO	SW6010C	TASAV
		KAFB-106064	100418	REG	SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
					SM2320B	TASAC
					SW9056A	TASAC
	680-	KAFB-106EX1	106EX1-P3P- 100418	REG	SW6010C	TASAV
	158847-1				SW8011	TASAV
					SW8260B	TASAV TASAV
					SW9056A SM2320B	TASAV
				1	SW9056A	TASAC
10/4/2018		KAFB-106EX2	106EX2-P3P-		SW6010C	TASAC
			100418	REG	SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
			106IN1-P3P- 100418		SM2320B	TASAC
					SW9056A	TASAC
		KAFB-106IN1		REG	SW6010C	TASAV
				NEO	SW8011	TASAV
					SW8260B	TASAV
			400000 000		SW9056A	TASAV
		KAFB-106063	106063-P3P- 100418	REG	E300M RSK-175	APTIM APTIM
			106064-P3P-		E300M	APTIM
		KAFB-106064	100418	REG	RSK-175	APTIM
	00.40		106EX1-P3P-	550	E300M	APTIM
	9842	KAFB-106EX1	100418	REG	RSK-175	APTIM
		KAFB-106EX2	106EX2-P3P-	REG	E300M	APTIM
		NAFD-100EAZ	100418	REG	RSK-175	APTIM
		KAFB-106IN1	106IN1-P3P-	REG	E300M	APTIM
			100418	I LO	RSK-175	APTIM
		KAFB-106064	106064-P3P-	REG	E300	TASTL
	400 04000		111418	-		
	160-31863-	KAFB-106MW1-I	106MW1I-P3P- 111418	REG	E300	TASTL
	1		111418 106MW1S-P3P-			
		KAFB-106MW1-S	111418	REG	E300	TASTL
			106064-P3P-			
		KAFB-106064	111418	REG	QUANTARRAY	MI
	50 057		106MW1I-P3P-	DEO		N 41
	50_057	KAFB-106MW1-I	111418	REG	QUANTARRAY	MI
11/14/2018		KAFB-106MW1-S	106MW1S-P3P-	REG	QUANTARRAY	MI
11, 14/2010			111418	NLG		1711

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab	
					SM2320B	TASAC	
					SW9056A	TASAC	
		KAFB-106064	106064-P3P-	REG	SW6010C	TASAV	
		KAFD-100004	111418	REG	SW8011	TASAV	
	680-				SW8260B	TASAV	
	160761-1				SW9056A	TASAV	
					SM2320B	TASAC	
		KAFB-106MW1-I	106MW1I-P3P-	REG	SW9056A	TASAC	
			111418	NLG	SW6010C	TASAV	
					SW8011	TASAV	
		KAFB-106MW1-I	106MW1I-P3P-	REG	SW8260B	TASAV	
			111418		SW9056A	TASAV	
					SM2320B	TASAC	
	680-				SW9056A	TASAC	
	160761-1	KAFB-106MW1-S	106MW1S-P3P-	REG	SW6010C	TASAV	
			111418	_	SW8011	TASAV	
11/14/2018					SW8260B	TASAV	
					SW9056A	TASAV	
		KAFB-106064	106064-P3P-	REG	E300M	APTIM	
			111418		RSK-175	APTIM	
	9843	KAFB-106MW1-I	106MW1I-P3P-	REG	E300M	APTIM	
			111418		RSK-175	APTIM	
		KAFB-106MW1-S	106MW1S-P3P-	REG	E300M	APTIM	
			111418		RSK-175	APTIM	
	160-31892-		KAFB-106063	106063-P3P- 111518	REG	E300	TASTL
		KAFB-106MW2-I	106MW2I-P3P- 111518	REG	E300	TASTL	
	1		106MW2I-P3P- 111518-FD	FD	E300	TASTL	
		KAFB-106MW2-S	106MW2S-P3P- 111518	REG	E300	TASTL	
		KAFB-106063	106063-P3P- 111518	REG	QUANTARRAY	МІ	
	50 057	KAFB-106MW2-I	106MW2I-P3P-	REG	QUANTARRAY	МІ	
		KAFB-106MW2-S	111518 106MW2S-P3P-	REG	QUANTARRAY	МІ	
			111518		01400005	T 1010	
			400000 000		SM2320B	TASAC	
					SW9056A	TASAC	
		KAFB-106063	106063-P3P- 111518	REG	SW6010C SW8011	TASAV TASAV	
11/15/2018			111310		SW8011 SW8260B	TASAV	
11/10/2010					SW9056A	TASAV	
					SM2320B	TASAC	
					SW9056A	TASAC	
			106MW2I-P3P-		SW6010C	TASAV	
			111518	REG	SW8011	TASAV	
					SW8260B	TASAV	
	680-				SW9056A	TASAV	
	160831-1	KAFB-106MW2-I			SM2320B	TASAC	
					SW9056A	TASAC	
			106MW2I-P3P-		SW6010C	TASAV	
			111518-FD	FD	SW8011	TASAV	
					SW8260B	TASAV	
					SW9056A	TASAV	
					SM2320B	TASAC	
					SW9056A	TASAC	
		KAFB-106MW2-S	106MW2S-P3P-	REG	SW6010C	TASAV	
			111518		SW8011	TASAV	

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
	680-	KAFB-106MW2-S	106MW2S-P3P-	REG	SW9056A	TASAV
	160831-1	1041 D-10010102-0	111518	INEO		
		KAFB-106063	106063-P3P- 111518	REG	E300M RSK-175	APTIM APTIM
			106MW2I-P3P-		E300M	APTIM
11/15/2018			111518	REG	RSK-175	APTIM
	9844	KAFB-106MW2-I	106MW2I-P3P-	FD	E300M	APTIM
			111518-FD	FD	RSK-175	APTIM
		KAFB-106MW2-S	106MW2S-P3P-	REG	E300M	APTIM
			111518		RSK-175	APTIM
		KAFB-106EX1	106EX1-P3P- 111918	REG	E300	TASTL
	160-31946- 1	KAFB-106EX2	106EX2-P3P- 111918	REG	E300	TASTL
		KAFB-106IN1	106IN1-P3P- 111918	REG	E300	TASTL
		KAFB-106EX1	106EX1-P3P- 111918	REG	QUANTARRAY	МІ
	50_057	KAFB-106EX2	106EX2-P3P- 111918	REG	QUANTARRAY	МІ
		KAFB-106IN1	106IN1-P3P- 111918	REG	QUANTARRAY	МІ
					SM2320B	TASAC
					SW9056A	TASAC
		KAFB-106EX1	106EX1-P3P-	REG	SW6010C	TASAV
		INTE TOOLXT	111918		SW8011	TASAV
					SW8260B	TASAV
11/19/2018		KAEB-106EX2			SW9056A SM2320B	TASAV TASAC
					SW9056A	TASAC
	680-		106EX2-P3P-		SW6010C	TASAV
	160953-1		111918	REG	SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
		KAFB-106IN1	106IN1-P3P- 111918 106EX1-P3P-		SM2320B	TASAC
					SW9056A	TASAC
				REG	SW6010C	TASAV
					SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV APTIM
		KAFB-106EX1	111918	REG	E300M RSK-175	APTIM
			106EX2-P3P-		E300M	APTIM
	9845	KAFB-106EX2	111918	REG	RSK-175	APTIM
			106IN1-P3P-	550	E300M	APTIM
		KAFB-106IN1	111918	REG	RSK-175	APTIM
		KAFB-106064	106064-P4P- 011619	REG	E300	TASTL
	160-32669- 1	KAFB-106MW1-I	106MW1I-P4P- 011619	REG	E300	TASTL
		KAFB-106MW1-S	106MW1S-P4P- 011619	REG	E300	TASTL
1/16/2019		KAFB-106064	106064-P4P- 011619-FD	FD	QUANTARRAY	MI
	68_038A	KAFB-106MW1-I	106MW1I-P4P- 011619	REG	QUANTARRAY	MI
		KAFB-106MW1-S	106MW1S-P4P- 011619	REG	QUANTARRAY	MI
	680-				SM2320B	TASAC
	163342-1	KAFB-106064		REG	SW9056A	TASAC
	100072 1		106064-P4P-		SW6010C	TASAV

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab				
			011619	oumpio i jpo	SW8011	TASAV				
			011010	REG	SW8260B	TASAV				
				1120	SW9056A	TASAV				
					SM2320B	TASAC				
1/16/2019	680-	KAFB-106064			SW9056A	TASAC				
1110/2010	163342-1		106064-P4P-		SW6010C	TASAV				
			011619-FD	FD	SW8011	TASAV				
			01101012		SW8260B	TASAV				
					SW9056A	TASAV				
					SM2320B	TASAC				
					SW9056A	TASAC				
			106MW1I-P4P-		SW6010C	TASAV				
		KAFB-106MW1-I	011619	REG	SW8011	TASAV				
			011010		SW8260B	TASAV				
	680-				SW9056A	TASAV				
	163342-1				SM2320B	TASAC				
	100012 1				SW9056A	TASAC				
			106MW1S-P4P-		SW6010C	TASAV				
		KAFB-106MW1-S	011619	REG	SW8011	TASAV				
1/16/2019			011010		SW8260B	TASAV				
					SW9056A	TASAV				
			106064-P4P-		E300M	APTIM				
			011619	REG	RSK-175	APTIM				
		KAFB-106064	106064-P4P-		E300M	APTIM				
			011619-FD	FD	RSK-175	APTIM				
	9848		106MW1I-P4P-		E300M	APTIM				
		KAFB-106MW1-I	011619	REG	RSK-175	APTIM				
			106MW1S-P4P-		E300M	APTIM				
		KAFB-106MW1-S	011619	REG	RSK-175	APTIM				
				106063-P4P-		Nort Ho	74 110			
					KAFB-106063	011719	REG	E300	TASTL	
	160-32669-		106MW2I-P4P-							
	1			KAFB-106MW2-I	011719	REG	E300	TASTL		
			·	· ·			106MW2S-P4P-			
		KAFB-106MW2-S	011719	REG	E300	TASTL				
			106063-P4P-							
		KAFB-106063	011719	REG	QUANTARRAY	MI				
			69 0004	60 0004	<u></u>		106MW2I-P4P-	550		
	68_038A	KAFB-106MW2-I	011719	REG	QUANTARRAY	MI				
			106MW2S-P4P-	550						
		KAFB-106MW2-S	011719	REG	QUANTARRAY	MI				
					SM2320B	TASAC				
					SW9056A	TASAC				
1/17/2019		KAFB-106063	106063-P4P-	DEC	SW6010C	TASAV				
1/17/2019		KAFD-100003	011719	REG	SW8011	TASAV				
					SW8260B	TASAV				
					SW9056A	TASAV				
					SM2320B	TASAC				
					SW9056A	TASAC				
	680-		106MW2I-P4P-	BEC	SW6010C	TASAV				
	163418-1	KAFB-106MW2-I	011719	REG	SW8011	TASAV				
					SW8260B	TASAV				
					SW9056A	TASAV				
					SM2320B	TASAC				
					SW9056A	TASAC				
			106MW2S-P4P-		SW6010C	TASAV				
		KAFB-106MW2-S	0111719	REG	SW8011	TASAV				
					SW8260B	TASAV				
					SW9056A	TASAV				
			1		0110000/1	17.07.17				

Appendix I-1 - Table 1. Summary of Samples Collected, Sample Date, Sample Location, Analysis Method, and Sample Delivery Group

Sample Date	SDG	Location	Sample ID	Sample Type	Analytic Method	Lab
			106063-P4P-	REG	E300M	APTIM
		KAFB-106063	011719	REG	RSK-175	APTIM
1/17/2019	9849	KAFB-106MW2-I	106MW2I-P4P-	REG	E300M	APTIM
1/17/2019	9049	KAFD-100101002-1	011719	REG	RSK-175	APTIM
		KAFB-106MW2-S	106MW2S-P4P-	REG	E300M	APTIM
		KAFD-10010102-3	011719	REG	RSK-175	APTIM
		KAFB-106EX1	106EX1-P4P- 012119	REG	E300	TASTL
1/21/2019	160-32669- 1	KAFB-106EX2	106EX2-P4P- 012119	REG	E300	TASTL
		KAFB-106IN1	106IN1-P4P- 012119	REG	E300	TASTL
		KAFB-106EX1	106EX1-P4P- 012119	REG	QUANTARRAY	МІ
	68_038A	KAFB-106EX2	106EX2-P4P- 012119	REG	QUANTARRAY	МІ
		KAFB-106IN1	106IN1-P4P- 012119	REG	QUANTARRAY	МІ
			106EX1-P4P- 012119	REG	SM2320B	TASAC
					SW9056A	TASAC
		KAFB-106EX1			SW6010C	TASAV
		KAPB-106EX1			SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
		680- 3514-1 KAFB-106EX2	106EX2-P4P-		SM2320B	TASAC
				REG	SW9056A	TASAC
1/21/2019					SW6010C	TASAV
1/21/2015	163514-1		012119		SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
					SM2320B	TASAC
					SW9056A	TASAC
		KAFB-106IN1	106IN1-P4P-	REG	SW6010C	TASAV
			012119	NLO	SW8011	TASAV
					SW8260B	TASAV
					SW9056A	TASAV
		KAFB-106EX1	106EX1-P4P-	REG	E300M	APTIM
			012119	NLO	RSK-175	APTIM
	9850) KAFB-106EX2	106EX2-P4P-	REG	E300M	APTIM
	3000		012119	INC O	RSK-175	APTIM
		KAFB-106IN1	106IN1-P4P-	REG	E300M	APTIM
			012119	INE O	RSK-175	APTIM

Notes:

REG : Regular

SDG: Sample Delivery Group

CHL: Crawford Hydrology Lab

EPLN: Empirical Laboratories

MI: Microbial Insights

TASTL: Test America in Earth City

TASAV: Test America in Savannah

TASAC: Test America in West Sacramento

USGS: U.S Geological Survey

Appendix I-1 – Table 2. Data Qualification Flags and Reason Codes

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 Organic Data Review

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 or 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 I-1 – Table 2. Data Qualification Flags and Reason Codes (concluded)

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.
С	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.
Н	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.
М	MS outside control limits.
0	Interference check sample outside acceptance criteria.
Р	Analyte qualified based on the professional judgment of the reviewer.
S	Surrogate recovery outside control limit.
Т	Temperature outside acceptance criteria.
Tr	Value reported detected between the detection limit and LOQ.
W	Pesticide breakdown outside criteria (Level IV).
Х	Raised reporting limit due to matrix interference or high analyte concentration.
Y	Analyte was not confirmed by a second column.

Reason Codes for Data Review and Validation

Notes:

laboratory control sample. limit of quantitation. LCS

LOQ

matrix spike. MS

relative percent difference. relative response factor. RPD

RRF

Appendix I-1 - Table 3. Qualified Data Summary (Field QC Samples)

Sample	Sample Type	Sample Date	Analyte	SDG	Result	LOQ	Units	Qualifier
Reason Code C		•	EPA		•	•		
TB-091917	ТВ	09/19/2017	2-BUTANONE	KAFB_003	5	10.0	µg/L	UJ
TB-091917	ТВ	09/19/2017	2-HEXANONE	KAFB_003	2.5	5.00	µg/L	UJ
TB-091917	ТВ	09/19/2017	4-METHYL-2-PENTANONE	KAFB_003	2.5	5.00	µg/L	UJ
Reason Code C, Tr		-	EPA	Method SW826	0B			
TB-111617	ТВ	11/16/2017	ACETONE	KAFB_005	4.17	10.0	µg/L	J-

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

µg/L - micrograms per liter.

EPA - Unites States Environmental Protection Agency.

LOQ - limit of quantitation.

QC - quality control.

SDG - sample delivery group.

TB - trip blank.

Appendix I-1 - Table 4. Detected Trip Blank Results and Associated Sample Results

SDG	Method	Analyte	Sample Date	Sample Type	Field Sample ID	Result	LOQ	Unit	ValQual	Reason
KAFB_002	SW8260B	ACETONE	08/16/2017	ТВ	TB-081617	2.53	10.0	µg/L		
		ACETONE	08/16/2017	REG	106064-BL-081617	25	25.0	µg/L	UJ	CK3
KAFB_003	SW8260B	CARBON DISULFIDE	09/18/2017	ТВ	TB-091817	0.279	1.00	µg/L		
		CARBON DISULFIDE	09/18/2017	REG	106MW1I-BL-091817	ND	2.00	µg/L	U	
		CARBON DISULFIDE	09/19/2017	ТВ	TB-091917	0.256	1.00	µg/L		
		CARBON DISULFIDE	09/19/2017	REG	106MW1S-BL-091917	ND	200	µg/L	UJ	S
		CARBON DISULFIDE	09/19/2017	FD	106MW2I-BL-FD-091917	ND	2.00	µg/L	U	
		CARBON DISULFIDE	09/26/2017	ТВ	TB-092617	0.289	1.00	µg/L		
		CARBON DISULFIDE	09/26/2017	REG	106EX1-BL-092617	27.2	100	µg/L	J	Tr
KAFB_004	SW8260B	ACETONE	10/25/2017	ТВ	TB-102517	3.27	10.0	µg/L	J	Tr
		ACETONE	10/25/2017	REG	106MW2I-P1R-102517	724	500	µg/L		
KAFB_005	SW8260B	ACETONE	11/16/2017	ТВ	TB-111617	4.17	10.0	µg/L	J-	CTr
		ACETONE	11/16/2017	REG	106MW2S-P1P-111617	272	1000	µg/L	J-	Tr
		ACETONE	11/16/2017	FD	106IN1-P1P-111617-FD	451	1000	µg/L	J-	CTr

Notes:

Please see Table 2 for definitions of qualifiers and reason codes

FD - field duplicate.

ID - identification.

KAFB - Kirtland Air Force Base.

LOQ - limit of quantitation.

ND - not detected.

REG - regular/parent sample.

TB - trip blank.

	Loc	ation Code		KAFB	-106063		
	Sam	ple Number	106063-P3P-08	2918	106063-P3P-082	918-FD	
	S	ample Date	08/29/2018	3	08/29/2018	3	
	Sam	ole Purpose	REG		FD		
	S	ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	6.4		6.1		4.80
REDUCED	ACETYLENE	µg/L	10	U	10	U	NC
GASES	ETHANE	µg/L	4	U	4	U	NC
	ETHYLENE	µg/L	6.4		8.7		30.46
	METHANE	µg/L	15.5		21.7		33.33
	PROPANE	µg/L	6	U	6	U	NC
GENERAL	ACETIC ACID	MG/L	4.8		4.4		8.70
CHEMISTRY	ALKALINITY	MG/L	400		390		2.53
	BROMIDE	MG/L	0.98		0.87		11.89
	BUTYRIC ACID	MG/L	1	U	1	U	NC
-	CHLORIDE	MG/L	52		52		0.00
	FORMIC ACID	MG/L	1	U	1	U	NC
	IODIDE	MG/L	5.3		5		5.83
	LACTIC ACID	MG/L	0.8	J	0.6	J	NC
	NITROGEN, NITRATE- NITRITE	MG/L	0.05	U	0.05	U	NC
	ORTHOPHOSPHATE	MG/L	0.15	U	0.15	U	NC
	PROPIONIC ACID	MG/L	1	U	1	U	NC
	PYRUVIC ACID	MG/L	1	U	1	U	NC
	SULFATE	MG/L	1	U	1	U	NC
	VALERIC ACID	MG/L	1	U	1	U	NC
METALS,	IRON	µg/L	3800		3800		0.00
DISS	MANGANESE	µg/L	4900		4900		0.00
VOLATILES	1,1,2- TRICHLOROETHANE	µg/L	0.5	U	50	U	NC
	1,2,4- TRIMETHYLBENZENE	µg/L	310		330		6.25
	1,2-DIBROMOETHANE	µg/L	8.4	J+	100	U	NC
	1,3,5- TRIMETHYLBENZENE	µg/L	130	J+	140		7.41
	2-BUTANONE	µg/L	6.2	J+	1000	U	NC
	2-CHLOROTOLUENE	µg/L	0.5	U	50	U	NC
	2-HEXANONE	µg/L	38	J+	500	U	NC
	4-METHYL-2-	µg/L	63	J+	500	U	NC
	PENTANONE						
	ACETONE	µg/L		J+	1000		NC
	BENZENE	µg/L	3000		3100		3.28
	CARBON DISULFIDE	µg/L		U	200		NC
	CHLOROMETHANE	µg/L		U	100		NC
	ISOPROPYLBENZENE	µg/L	160		160		0.00
	METHYL TERT-BUTYL ETHER	µg/L	0.48		50		NC
	METHYLENE CHLORIDE	µg/L	5	U	270	J	NC
	NAPHTHALENE	µg/L	140	J+	500	U	NC
	N-BUTYLBENZENE	µg/L	20	J+	100	U	NC
	N-PROPYLBENZENE	µg/L	110	J+	120		8.70

VOLATILES	P-	µg/L	160	J+	140		13.33
	ISOPROPYLTOLUENE	_					
	SEC-BUTYLBENZENE	µg/L	18	J+	100	U	NC
	TERT-BUTYLBENZENE	µg/L	1.5	J+	100	U	NC
	TOLUENE	µg/L	6700		6800		1.48
	TRICHLOROETHENE	µg/L	1	U	100	U	NC
	TRICHLOROFLUOROM ETHANE	µg/L	1	U	100	U	NC
	XYLENES	µg/L	3100		3200		3.17

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

		Location Code		KAFB-	106064		
		Sample Number	106064-P1R-10	106064-P1R-100417		417-FD	
	Sample Date		10/04/2017		10/04/2017		
	Sample Purpose		REG		FD		
	Sample Type		GW		GW		Relative
		Depth					Percent
Test Group			Result	VQ	Result	VQ	Difference
FLUORIMETRIC	FLUORESCEIN	PPB	0.01	U	0.01	U	NC
USGS	DELTA2H	PER MIL	-93.39		-94.11		(0.77)

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

NC - not calculated.

ppb - parts per billion.

REG - regular/parent sample.

USGS - Unites States Geological Survey.

	Loc	ation Code		KAFB	-106064		
	Sam	ple Number	106064-P2P-05	0918	106064-P2P-050	918-FD	
		ample Date	05/09/2018	3	05/09/2018	3	
		ole Purpose	REG		FD	-	
		ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	6.2		10.6		52.38
GASES	ACETYLENE	µg/L	10	U		U	NC
-	ETHANE	µg/L	4.5	-	4.59		1.98
	ETHYLENE	µg/L	11		11.7		6.17
	METHANE	µg/L	601		614		2.14
	PROPANE	µg/L	4.8	J	4.9		NC
GEN	ACETIC ACID	MG/L	119	•	122	-	2.49
CHEMISTRY	ALKALINITY	MG/L	421		402		4.62
	BROMIDE	MG/L	0.597		0.594		0.50
	BUTYRIC ACID	MG/L		U		U	NC
	CHLORIDE	MG/L	51.8	•	52		0.39
	FORMIC ACID	MG/L	0.4	J	0.3		NC
	IODIDE	MG/L	22	-	22		0.00
		MG/L		U		U	NC
	NITRATE	MG/L	0.2		0.2	-	NC
	NITRITE	MG/L	0.2		0.2		NC
	O-PHOSPHATE (AS P)	MG/L	1.28	•	1.27	-	0.78
	PROPIONIC ACID	MG/L	24.3		24.1		0.83
	PYRUVIC ACID	MG/L	0.5			U	NC
	SULFATE	MG/L		U		U	NC
	VALERIC ACID	MG/L		U		U	NC
METALS,	IRON	µg/L	5070	-	4810		5.26
DISS	MANGANESE	µg/L	5620		5410		3.81
VOLATILES	1,1,2-	µg/L	100	U	100		NC
VOL MILLO	TRICHLOROETHANE	~9, -	100	0		Ŭ	
	1,2,4- TRIMETHYLBENZENE	µg/L	404		409		1.23
	1,2-DIBROMOETHANE	µg/L	100	U	100	U	NC
	1,2-DICHLOROETHANE		100		100		NC
	1,3,5-	μg/L	124	1	142	1	NC
	TRIMETHYLBENZENE	µg/∟	124	0	172	Ŭ	110
	2-BUTANONE	µg/L	1000	U	1000	U	NC
	2-CHLOROTOLUENE	µg/L	100	U	100	U	NC
	2-HEXANONE	μg/L	500	U	500		NC
	4-METHYL-2- PENTANONE	µg/L	500		500	U	NC
	ACETONE	µg/L	1000	U	1000	U	NC
	BENZENE	µg/L	3490		3620		3.66
	CARBON DISULFIDE	µg/L	100		100		NC
	CHLOROMETHANE	µg/L	100		100		NC
	DICHLORODIFLUOROM ETHANE		200		200		NC
	ETHYLBENZENE	µg/L	1660		1670	1	0.60
	ISOPROPYLBENZENE	µg/L	202		207		2.44
	METHYL TERT-BUTYL ETHER	µg/L	100		100		NC

VOLATILES	METHYLENE	µg/L	200	U	200	U	NC
	CHLORIDE						
	NAPHTHALENE	µg/L	137	J	137	J	NC
	N-BUTYLBENZENE	µg/L	100	U	100	U	NC
	N-PROPYLBENZENE	µg/L	124	J	117	J	NC
	P-	µg/L	56.1	J	56.2	J	NC
	ISOPROPYLTOLUENE						
	SEC-BUTYLBENZENE	µg/L	100	U	100	U	NC
	TERT-BUTYLBENZENE	µg/L	100	U	100	U	NC
	TOLUENE	µg/L	13900		14000		0.72
	TRICHLOROETHENE	µg/L	100	U	100	U	NC
	TRICHLOROFLUOROM ETHANE	µg/L	200	U	200	U	NC
	XYLENES	µg/L	5130		5220		1.74

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

	Loc	Location Code		KAFB	-106064		
		ole Number	106064-P2P-06	61418	106064-P2P-0614	418-FD	
		ample Date	06/14/2018	3	06/14/2018	}	
		le Purpose	REG		FD		
	-	ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	6.19		6.45		4.11
GASES	ACETYLENE	µg/L	10	UJ	10	UJ	0.00
	ETHANE	µg/L	5.3	J	5.3	J	0.00
	ETHYLENE	µg/L	12.6	J	13.2	J	4.65
	METHANE	µg/L	250	J	266	J	6.20
	PROPANE	µg/L	6	J	6.5	J	8.00
GEN	ACETIC ACID	MG/L	141	J	121	J	15.27
CHEMISTRY	ALKALINITY	MG/L	483	J-	473	J-	2.09
	BROMIDE	MG/L	0.416	J	0.417	J	NC
	BUTYRIC ACID	MG/L	10	UJ	10	UJ	0.00
	CHLORIDE	MG/L	49.3		49.4		0.20
	FORMIC ACID	MG/L	10	UJ	10	UJ	0.00
	IODIDE	MG/L	19		20		5.13
	LACTIC ACID	MG/L	10	UJ	10	UJ	0.00
	NITRATE	MG/L	0.5	U	0.5	U	NC
	NITRITE	MG/L	0.5	U	0.5	U	NC
	O-PHOSPHATE (AS P)	MG/L	1.45		6.73		129.10
	PROPIONIC ACID	MG/L	11.6	J	8.9	J	26.34
	PYRUVIC ACID	MG/L	10	UJ	10	UJ	0.00
	SULFATE	MG/L	5	U	5	U	NC
	VALERIC ACID	MG/L	10	UJ	10	UJ	0.00
METALS, DISS	IRON	µg/L	4230		4110		2.88
	MANGANESE	µg/L	5850		5470		6.71
VOLATILES	1,1,2- TRICHLOROETHANE	µg/L	100	U	100	U	NC
	1,2,4- TRIMETHYLBENZENE	µg/L	367		352		4.17
	1,2-DIBROMOETHANE	µg/L	100	U	100	U	NC
	1,2-DICHLOROETHANE	µg/L	100	U	100	U	NC
	1,3,5- TRIMETHYLBENZENE	µg/L	122	J	123	J	NC
	2-BUTANONE	µg/L	1000		1000		NC
	2-CHLOROTOLUENE	µg/L	100		100		NC
	2-HEXANONE	µg/L	500	U	500	U	NC
	4-METHYL-2- PENTANONE	µg/L	500	U	500	U	NC
	ACETONE	µg/L	657	J	657	J	NC
	BENZENE	µg/L	3820		3820		0.00
	CARBON DISULFIDE	µg/L	100		100		NC
	CHLOROMETHANE	µg/L	100		100		NC
	DICHLORODIFLUOROM ETHANE		200		200	U	NC
	ETHYLBENZENE	µg/L	1370		1390		1.45
	ISOPROPYLBENZENE	µg/L	149	J	158	J	NC
	METHYL TERT-BUTYL ETHER	µg/L	100	U	100	U	NC
L							

VOLATILES	METHYLENE	µg/L	200	U	200	U	NC
	CHLORIDE						
	NAPHTHALENE	µg/L	110	J	113	J	NC
	N-BUTYLBENZENE	µg/L	100	U	100	U	NC
	N-PROPYLBENZENE	µg/L	104	J	112	J	NC
	P-	µg/L	100	U	56.6	J	NC
	ISOPROPYLTOLUENE						
	SEC-BUTYLBENZENE	µg/L	100	U	100	U	NC
	TERT-BUTYLBENZENE	µg/L	100	U	100	U	NC
	TOLUENE	µg/L	13000		12900		0.77
	TRICHLOROETHENE	µg/L	100	U	100	U	NC
	TRICHLOROFLUOROM	µg/L	200	U	200	U	NC
	ETHANE						
	XYLENES	µg/L	4450		4410		0.90

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

	Loc	ation Code		KAFB	-106064		
		ple Number	106064-P3P-09		106064-P3P-091218	8-FD	
		ample Date	09/12/2018		09/12/2018		
		ole Purpose	REG	-	FD		
		ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result V	Q	Difference
EDB	1,2-DIBROMOETHANE	µg/L	1.5		1.7	~	12.50
GASES	ACETYLENE	µg/L	10		10.0		NC
	ETHANE	µg/L	4.2		4.2		0.00
	ETHYLENE	µg/L	10.4		10.4		0.00
	METHANE	µg/L	7053.1		7,090.1		0.52
	PROPANE	µg/L	5.7	J	5.7		NC
GEN	ACETIC ACID	MG/L	50.6		50.1		0.99
CHEMISTRY	ALKALINITY	MG/L	450		460		2.20
	BROMIDE	MG/L	0.78		0.77		1.29
	BUTYRIC ACID	MG/L	1	U	1.0		NC
	CHLORIDE	MG/L	51		51		0.00
	FORMIC ACID	MG/L	1	U	1.0		NC
	IODIDE	MG/L	4.5		5.3		16.33
	LACTIC ACID	MG/L	1	U	1.0		NC
	NITROGEN, NITRATE-	MG/L	0.05	UJ	0.05 U		0.00
	NITRITE						
	ORTHOPHOSPHATE	MG/L	3.9		3.9		0.00
	PROPIONIC ACID	MG/L	74.9		76.1		1.59
	PYRUVIC ACID	MG/L	1	U	1.0		NC
	SULFATE	MG/L	1	U	1 U		NC
	VALERIC ACID	MG/L	1	U	1.0		NC
METALS, DISS	IRON	µg/L	3000		3000		0.00
	MANGANESE	µg/L	6500		6600		1.53
VOLATILES	1,1,2- TRICHLOROETHANE	µg/L	50	U	50 U		NC
	1,2,4- TRIMETHYLBENZENE	µg/L	350		360		2.82
	1,2-DIBROMOETHANE	µg/L	100	U	100 U		NC
	1,3,5- TRIMETHYLBENZENE	µg/L	120		120		0.00
	2-BUTANONE	µg/L	1000	U	1000 U		NC
	2-CHLOROTOLUENE	µg/L	50	U	50 U		NC
	2-HEXANONE	µg/L	500	U	500 U		NC
	4-METHYL-2-	µg/L	500	U	500 U		NC
	PENTANONE						
	ACETONE	µg/L	1000	U	1000 U		NC
	BENZENE	µg/L	3300		3400		2.99
	CARBON DISULFIDE	µg/L	200	U	200 U		NC
	CHLOROMETHANE	µg/L	100	U	100 U		NC
	ISOPROPYLBENZENE	µg/L	100		100		0.00
	METHYL TERT-BUTYL ETHER	µg/L	50	U	50 U		NC
	METHYLENE CHLORIDE	µg/L	500	U	500 U		NC
	NAPHTHALENE	µg/L	500	U	500 U		NC
	N-BUTYLBENZENE	µg/L	100		100 U		NC
	N-PROPYLBENZENE	µg/L	94	J	92 J		NC

VOLATILES	P-	µg/L	64	J	62	J	NC
	ISOPROPYLTOLUENE						
	SEC-BUTYLBENZENE	µg/L	100	U	100	U	NC
	TERT-BUTYLBENZENE	µg/L	100	U	100	U	NC
	TOLUENE	µg/L	11000		11000		0.00
	TRICHLOROETHENE	µg/L	100	U	100	U	NC
	TRICHLOROFLUOROM ETHANE	µg/L	100	U	100	U	NC
	XYLENES	µg/L	3500		3700		5.56

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

	Loc	ation Code		KAFB-	-106064		
	Sam	ple Number	106064-P4P-01	1619	106064-P4P-0116	619-FD	
	S	ample Date	01/16/2019	9	01/16/2019		
	Samp	le Purpose	REG		FD		
	S	ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result		Result	VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	0.028		0.026		7.41
GASES	ACETYLENE	µg/L	10		10	U	NC
	ETHANE	µg/L	4.5		4.5		0.00
	ETHYLENE	µg/L	6.7		6.6		1.50
	METHANE	µg/L	14220.9		15034.6		5.56
	PROPANE	µg/L	5.5		5.3		NC
GEN	ACETIC ACID	MG/L	0.5		0.3	J	NC
CHEMISTRY	ALKALINITY	MG/L	510		510		0.00
	BROMIDE	MG/L	1.1		0.77		35.29
	BUTYRIC ACID	MG/L	1	U	1	U	NC
	CHLORIDE	MG/L	47		48		2.11
	FORMIC ACID	MG/L		U	1	U	NC
	IODIDE	MG/L	4		-NA-		0.00
	LACTIC ACID	MG/L	0.8		0.8		NC
	NITROGEN, NITRATE-	MG/L	0.05	UJ	0.05	UJ	0.00
	ORTHOPHOSPHATE	MG/L	0.14	J	0.12	J	NC
	PROPIONIC ACID	MG/L		U	1		NC
	PYRUVIC ACID	MG/L		U	1		NC
	SULFATE	MG/L	1		1		NC
	VALERIC ACID	MG/L	1	U	1		NC
METALS, DISS	IRON	µg/L	5100		5000	-	1.98
,	MANGANESE	μg/L	7100		6400		10.37
VOLATILES	1,1,2-	µg/L	50		50	U	NC
	TRICHLOROETHANE						
	1,2,4-	µg/L	470		420		11.24
			400		100		NO
	1,2-DIBROMOETHANE	µg/L	100		100	U	NC
	1,3,5- TRIMETHYLBENZENE	µg/L	160		140		13.33
	2-BUTANONE	µg/L	1000	11	1000		NC
	2-CHLOROTOLUENE	μg/L μg/L	50		50		NC
	2-HEXANONE	μg/L	500		500		NC
	4-METHYL-2-	μg/L	500		500		NC
	PENTANONE	м9 [,] С	000	Ŭ	000	0	110
	ACETONE	µg/L	1000	U	1000	U	NC
	BENZENE	µg/L	3400		3200		6.06
	CARBON DISULFIDE	µg/L	200		200	U	NC
	CHLOROMETHANE	µg/L	100		100		NC
	ISOPROPYLBENZENE	µg/L	230		210		9.09
	METHYL TERT-BUTYL	µg/L	50		50	U	NC
	ETHER						
	METHYLENE	µg/L	500	U	500	U	NC
		µg/L	500		500		NC
	N-BUTYLBENZENE	µg/L	100		100	U	NC
	N-PROPYLBENZENE P-	µg/L	160		130		20.69
	P- ISOPROPYLTOLUENE	µg/L	100	U	100	U	NC
	SEC-BUTYLBENZENE	µg/L	100	U	100	U	NC
		""" [–]	100	-	100	-	110

VOLATILES	TERT-BUTYLBENZENE	µg/L	100	U	100	U	NC
	TOLUENE	µg/L	990		930		6.25
	TRICHLOROETHENE	µg/L	100	U	100	U	NC
	TRICHLOROFLUOROM ETHANE	µg/L	100	U	100	U	NC
	XYLENES	µg/L	5000		4500		10.53

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

	Loc	ation Code		KAFB	-106EX1		
	Samp	ole Number	106EX1-P1R-10)2417	106EX1-P1R-102	417-FD	
	Sa	ample Date	10/24/2017	7	10/24/2017	7	
	Samp	le Purpose	REG		FD		
	Sa	ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	53.6		50.4		6.15
FLUORIMETRIC	FLUORESCEIN	PPB	2.625		-NA-		0.00
GASES	ACETYLENE	µg/L	10	U	10	U	NC
	ETHANE	µg/L	4	U	4	U	NC
	ETHYLENE	µg/L	3.07	J	3.53	J	NC
	METHANE	µg/L	1.02	J	1.2	J	NC
	PROPANE	µg/L	6	U	6	U	NC
GEN	ACETIC ACID	MG/L	1	U	1	U	NC
CHEMISTRY	ALKALINITY	MG/L	267		268		0.37
	BROMIDE	MG/L	0.264		0.257		2.69
	BUTYRIC ACID	MG/L	1	U	1	U	NC
	CHLORIDE	MG/L	15.4		15.5		0.65
	FORMIC ACID	MG/L	1	U	1	U	NC
	IODIDE	MG/L	0.75	U	0.75	U	NC
	LACTIC ACID	MG/L		U		U	NC
	NITROGEN, NITRATE- NITRITE	MG/L	0.375	U	0.375	U	NC
	O-PHOSPHATE (AS P)	MG/L	0.0200	U	0.0200	U	NC
	PROPIONIC ACID	MG/L	1	U	1	U	NC
	PYRUVIC ACID	MG/L	1	U	1	U	NC
	SULFATE	MG/L	14.6		14.3		2.08
	VALERIC ACID	MG/L		U		U	NC
METALS, DISS	IRON	µg/L	248		250		0.80
,	MANGANESE	μg/L	1570		1590		1.27
USGS	DELTA2H	PER MIL	-93.32		-94.31		(1.06)
VOLATILES	1,1,2-	µg/L	25.0		25.0		NC
	TRICHLOROETHANE	10					
	1,2,4- TRIMETHYLBENZENE	µg/L	255		220		14.74
	1,2-DIBROMOETHANE	µg/L	57.6		67.8		16.27
	1,2-DICHLOROETHANE	1	25.0	U	25.0	U	NC
	1,3,5- TRIMETHYLBENZENE	µg/L	92.3		81.2		12.80
	2-BUTANONE	µg/L	250	U	148	J	NC
	2-CHLOROTOLUENE	µg/L	25.0	U	25.0	U	NC
	2-HEXANONE	µg/L	103	J	106	J	NC
	4-METHYL-2- PENTANONE	µg/L	125	U	68.6	J	NC
	ACETONE	µg/L	719		853		17.05
	BENZENE	µg/L	2910		2680		8.23
	CARBON DISULFIDE	µg/L	25.0	U	25.0	U	NC
	CHLOROMETHANE	µg/L	25.0	U	25.0	U	NC
	DICHLORODIFLUOROM ETHANE	µg/L	50.0	U	50.0	U	NC
	ETHYLBENZENE	µg/L	688		620		10.40
VOLATILES	ISOPROPYLBENZENE	μg/L	61.4	I	53.0		14.69
	METHYL TERT-BUTYL ETHER	µg/L	25.0		25.0		NC
VOLATILES	METHYLENE CHLORIDE	µg/L	50.0	U	50.0	U	NC

NAPHTHALENE	µg/L	72.4		68.6		5.39
	µg/L	14.6	J	12.9	J	NC
N-PROPYLBENZENE	µg/L	63.9		58.1		9.51
P-	µg/L	25.0	U	13.5	J	NC
ISOPROPYLTOLUENE						
SEC-BUTYLBENZENE	µg/L	25.0	U	13.5	J	NC
TERT-BUTYLBENZENE	µg/L	25.0	U	25.0	U	NC
TOLUENE	µg/L	5610		5060		10.31
TRICHLOROETHENE	µg/L	25.0	U	25.0	U	NC
TRICHLOROFLUOROM	µg/L	50.0	U	50.0	U	NC
ETHANE						
XYLENES	µg/L	2470		2240		9.77

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

		Location Code		KAFB-	106EX1		
		Sample Number	106EX1-P1R-101617		106EX1-P1R-101617-FD		
	Sample Date		10/16/2017		10/16/2017		
	Sample Purpose		REG		FD		
	Sample Type		GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
FLUORIMETRIC	FLUORESCEIN	PPB	0.735		0.773		5.04
USGS	DELTA2H	PER MIL	-92.41		-92.76		(0.38)

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

NC - not calculated.

ppb - parts per billion.

REG - regular/parent sample.

USGS - Unites States Geological Survey.

	Loc	ation Code		KAFB-	106EX1		
	Samp	ole Number	106EX1-P2R-0	11618	106EX1-P2R-0116	18-FD	
	S	ample Date	01/16/2018	3	01/16/2018		1
	Samp	le Purpose	REG		FD		1
	Sa	ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result \	/Q	Difference
EDB	1,2-DIBROMOETHANE	µg/L	62.2		80.0		25.04
GASES	ACETYLENE	µg/L	10.0		10.0 L		NC
	ETHANE	µg/L	2.66		2.71 J	J	NC
	ETHYLENE	µg/L	8.34		7.83		6.31
	METHANE	µg/L	2.92		2.78		4.91
	PROPANE	µg/L	2.68		2.61 J	J	NC
GEN	ACETIC ACID	MG/L	4.45		5.75		25.49
CHEMISTRY	ALKALINITY	MG/L	280		294		4.88
	BROMIDE	MG/L	0.403		0.383 J		5.09
	BUTYRIC ACID	MG/L	1.0		1.0 L	J	NC
	CHLORIDE	MG/L	29.6		29.1		1.70
	FORMIC ACID	MG/L	1.0		1.0 เ		NC
	IODIDE	MG/L	0.58		0.59 J		NC
	LACTIC ACID	MG/L	0.75		0.93 J		NC
	NITROGEN, NITRATE- NITRITE	MG/L	0.375		0.375 L		NC
	O-PHOSPHATE (AS P)	MG/L	0.0200		0.0200 L		NC
	PROPIONIC ACID	MG/L	0.32		0.73 J		NC
	PYRUVIC ACID	MG/L	1.0	U	1.0 L	J	NC
	SULFATE	MG/L	7.21		7.15		0.84
	VALERIC ACID	MG/L	1.0		1.0 L	J	NC
METALS, DISS	IRON	µg/L	535		518		3.23
	MANGANESE	µg/L	2490		2460		1.21
VOLATILES	1,1,2- TRICHLOROETHANE	µg/L	50.0	U	50.0 L	J	NC
	1,2,4- TRIMETHYLBENZENE	µg/L	325		300		8.00
	1,2-DIBROMOETHANE	µg/L	51.0		45.8 J		NC
	1,2-DICHLOROETHANE	µg/L	50.0	U	50.0 L	L	NC
	1,3,5- TRIMETHYLBENZENE	µg/L	114		104		9.17
	2-BUTANONE	µg/L	500	U	500 L	J	NC
	2-CHLOROTOLUENE	µg/L	50.0	U	50.0 L	J	NC
	2-HEXANONE	µg/L	250		250 L		NC
	4-METHYL-2- PENTANONE	µg/L	250	U	250 L	J	NC
	ACETONE	µg/L	356	J	356 J	J	NC
	BENZENE	µg/L	3940		3740		5.21
	CARBON DISULFIDE	µg/L	50.0		50.0 L		NC
	CHLOROMETHANE	µg/L	50.0		50.0 L		NC
	DICHLORODIFLUOROM ETHANE	µg/L	100	U	100 L	J	NC
	ETHYLBENZENE	µg/L	919		842		8.75
	ISOPROPYLBENZENE	µg/L	71.2	J	59.9 J	J	NC
	METHYL TERT-BUTYL ETHER	µg/L	50.0		50.0 L		NC
	METHYLENE CHLORIDE	µg/L	100		100 L		NC
	NAPHTHALENE	µg/L	98.7		86.5 J		NC
	N-BUTYLBENZENE	µg/L	50.0	U	50.0 L	J	NC

VOLATILES	N-PROPYLBENZENE	µg/L	84.6	J	74.5	J	NC
	P-	µg/L	36.9	J	30.9	J	NC
	ISOPROPYLTOLUENE						
	SEC-BUTYLBENZENE	µg/L	50.0	U	50.0	U	NC
	TERT-BUTYLBENZENE	µg/L	50.0	U	50.0	U	NC
	TOLUENE	µg/L	9220		8610		6.84
	TRICHLOROETHENE	µg/L	50.0	U	50.0	U	NC
	TRICHLOROFLUOROM ETHANE	µg/L	100	U	100	U	NC
	XYLENES	µg/L	2860		2640		8.00

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

	Loc	ation Code		KAFB-	106EX1		
	Sam	ple Number	106EX1-P3P-08	81618	106EX1-P3P-081	618-FD	
	S	ample Date	08/16/2018	3	08/16/2018	3	
	Samp	ole Purpose	REG		FD		
	Sa	ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result		Result	VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	19		22		14.63
GASES	ACETYLENE	µg/L	10		10		NC
	ETHANE	µg/L	3.8		3.6		NC
	ETHYLENE	µg/L	13		12.3		5.53
	METHANE	µg/L	9.3		9		3.28
	PROPANE	µg/L	5.5		4.8		NC
GEN	ACETIC ACID	MG/L	28.5		28.6		0.35
CHEMISTRY	ALKALINITY	MG/L	320		330		3.08
	BROMIDE	MG/L	0.71		0.69		2.86
	BUTYRIC ACID	MG/L		U	-	U	NC
	CHLORIDE	MG/L	33		33		0.00
	FORMIC ACID	MG/L		U		U	NC
	IODIDE	MG/L	3.9		3.7		5.26
	LACTIC ACID	MG/L	0.7		0.9		NC
	NITROGEN, NITRATE- NITRITE	MG/L	0.05	U	0.05	U	NC
	ORTHOPHOSPHATE	MG/L	0.15	U	0.15	U	NC
	PROPIONIC ACID	MG/L	1	U	1	U	NC
	PYRUVIC ACID	MG/L	1	U	1	U	NC
	SULFATE	MG/L	6.7		6.7		0.00
	VALERIC ACID	MG/L	1	U	1	U	NC
METALS, DISS	IRON	µg/L	1500		1500		0.00
	MANGANESE	µg/L	4200		4200		0.00
VOLATILES	1,1,2- TRICHLOROETHANE	µg/L	10	U	10	U	NC
	1,2,4- TRIMETHYLBENZENE	µg/L	320		300		6.45
	1,2-DIBROMOETHANE	µg/L	19	.1	20		NC
	1,3,5-	µg/L	110	0	100		9.52
	TRIMETHYLBENZENE						
	2-BUTANONE	µg/L	81		73		NC
	2-CHLOROTOLUENE	µg/L	10		10		NC
	2-HEXANONE	µg/L	88		92		NC
	4-METHYL-2- PENTANONE	µg/L	66	J	70	J	NC
	ACETONE	µg/L	280		280		0.00
	BENZENE	μg/L μg/L	3500		3300		5.88
	CARBON DISULFIDE	μg/L	40		40		NC
	CHLOROMETHANE	µg/∟ µg/L	20		-	U	NC
	ISOPROPYLBENZENE	μg/L μg/L	79		71		10.67
	METHYL TERT-BUTYL	μg/L		U		U	NC
	ETHER						
	METHYLENE CHLORIDE	µg/L	100	U	100	U	NC
	NAPHTHALENE	µg/L	130		120		8.00
	N-BUTYLBENZENE	µg/L	14	J	12	J	NC
	N-PROPYLBENZENE	µg/L	76		68		11.11
	P- ISOPROPYLTOLUENE	µg/L	49		44		10.75
	SEC-BUTYLBENZENE	µg/L	15	J	14	J	NC

VOLATILES	TERT-BUTYLBENZENE	µg/L	20	U	20	U	NC
	TOLUENE	µg/L	9500		9300		2.13
	TRICHLOROETHENE	µg/L	20	U	20	U	NC
	TRICHLOROFLUOROM ETHANE	µg/L	20	U	20	U	NC
	XYLENES	µg/L	2900		2700		7.14

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

	L	ocation Code		KAFB-	106EX2		
	Sa	mple Number	106EX2-P1R-110117		106EX2-P1R-110117-FD		
	Sample Date		11/01/2017		11/01/2017		
	Sample Purpose		REG		FD		
	Sample Type		GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
FLUORIMETRIC	FLUORESCEIN	PPB	8.221		8.337		1.40
USGS	DELTA2H	PER MIL	-84		-83		(1.20)

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

NC - not calculated.

ppb - parts per billion.

REG - regular/parent sample.

USGS - Unites States Geological Survey.

	Loc	ation Code		KAFB-	-106EX2	
	Samp	ole Number	106EX2-P2R-0 ²	11018	106EX2-P2R-011018-FD	
	Sa	ample Date	01/10/2018	3	01/10/2018	
	Samp	le Purpose	REG		FD	
	-	ample Type	GW		GW	Relative
		Depth				Percent
Test Group	Parameter	Units	Result	VQ	Result VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	61.4		70.2	13.37
GASES	ACETYLENE	µg/L	10.0	U	10.0 U	NC
	ETHANE	µg/L	1.56	J	1.65 J	NC
	ETHYLENE	µg/L	3.10	J	3.20 J	NC
	METHANE	µg/L	1.60	J	1.89 J	NC
	PROPANE	µg/L	6.0	U	6.0 U	NC
GEN	ACETIC ACID	MG/L	3.74		7.32	64.74
CHEMISTRY	ALKALINITY	MG/L	350		354	1.14
	BROMIDE	MG/L	0.848		0.844	0.47
	BUTYRIC ACID	MG/L	1.0	U	1.0 U	NC
	CHLORIDE	MG/L	87.5		87.2	0.34
	FORMIC ACID	MG/L	1.0		1.0 U	NC
	IODIDE	MG/L	0.82		0.83 J	NC
	LACTIC ACID	MG/L	0.79	J	1.63	NC
	NITROGEN, NITRATE- NITRITE	MG/L	0.375	U	0.375 U	NC
	O-PHOSPHATE (AS P)	MG/L	0.0172	J	0.0136 J	NC
	PROPIONIC ACID	MG/L	1.52		3.30	73.86
	PYRUVIC ACID	MG/L	1.0	U	1.0 U	NC
	SULFATE	MG/L	23.5		24.0 J+	2.11
	VALERIC ACID	MG/L	1.0		1.0 U	NC
METALS, DISS	IRON	µg/L	352		356	1.13
	MANGANESE	μg/L	2870		2870	0.00
VOLATILES	1,1,2- TRICHLOROETHANE	µg/L	50.0		50.0 U	NC
	1,2,4- TRIMETHYLBENZENE	µg/L	256		273	6.43
	1,2-DIBROMOETHANE	µg/L	118		112	5.22
	1,2-DICHLOROETHANE	µg/L	50.0	U	50.0 U	NC
	1,3,5- TRIMETHYLBENZENE	µg/L	89.8	J	93.0 J	NC
	2-BUTANONE	µg/L	500	U	500 U	NC
	2-CHLOROTOLUENE	µg/L	50.0		50.0 U	NC
	2-HEXANONE	µg/L	231		197 J	NC
	4-METHYL-2- PENTANONE	µg/L	250	U	250 U	NC
	ACETONE	µg/L	954	J	829 J	NC
	BENZENE	µg/L	4260		4240	0.47
	CARBON DISULFIDE	µg/L	50.0	U	50.0 U	NC
	CHLOROMETHANE	µg/L	50.5		61.6	NC
	ETHANE	µg/L	100	U	100 U	NC
	ETHYLBENZENE	µg/L	882		871	1.25
	ISOPROPYLBENZENE	µg/L	66.3		66.9 J	NC
	METHYL TERT-BUTYL ETHER	µg/L	50.0		50.0 U	NC
	METHYLENE CHLORIDE	µg/L	58.0		50.4 J	NC
	NAPHTHALENE	µg/L	101		91.5	9.87
	N-BUTYLBENZENE	µg/L	50.0	U	50.0 U	NC

VOLATILES	N-PROPYLBENZENE	µg/L	69.2	J	67.8	J	NC
	P-	µg/L	28.6	J	27.6	J	NC
	ISOPROPYLTOLUENE						
	SEC-BUTYLBENZENE	µg/L	50.0	U	50.0	U	NC
	TERT-BUTYLBENZENE	µg/L	50.0	U	50.0	U	NC
	TOLUENE	µg/L	8070		8110		0.49
	TRICHLOROETHENE	µg/L	50.0	U	50.0	U	NC
	TRICHLOROFLUOROM ETHANE	µg/L	100	U	100	U	NC
	XYLENES	µg/L	2870		2880		0.35

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

KAFB-106EX2 Location Code Sample Number 106EX2-P3P-080818 106EX2-P3P-080818-FD Sample Date 08/08/2018 08/08/2018 Sample Purpose REG FD Sample Type GW GW Relative Depth ___ ___ Percent Parameter Units Result VQ Result VQ **Test Group** Difference EDB 1,2-DIBROMOETHANE µg/L 10.26 82 74 GASES ACETYLENE µg/L 10 U 10 U NC **ETHANE** µg/L 4.9 4.8 2.06 ETHYLENE µg/L 9 8.5 5.71 2.96 METHANE 10.3 10 µg/L PROPANE 5.4 NC µg/L 5.3 GEN ACETIC ACID MG/L 13.9 14 0.72 CHEMISTRY ALKALINITY 370 MG/L 380 2.67 BROMIDE MG/L 0.00 1.7 1.7 **BUTYRIC ACID** MG/L 1U 1 U NC 90 CHLORIDE MG/L 91 1.10 FORMIC ACID NC MG/L 1 1 U 11 IODIDE MG/L 3.9 4.8 20.69 LACTIC ACID MG/L 1 U 1 U NC NITROGEN, NITRATE-0.00 MG/L 0.05 R 0.05 R NITRITE ORTHOPHOSPHATE MG/L 0.15 R 0.15 R NC PROPIONIC ACID MG/L NC 1U 1 U PYRUVIC ACID MG/L 1 U 1 U NC SULFATE MG/L 28 28 0.00 VALERIC ACID MG/L NC 1U 1U METALS, DISS IRON 1100 1200 8.70 µg/L MANGANESE 4400 4700 6.59 µg/L VOLATILES 1,1,2µg/L 0.5 U 0.5 U NC TRICHLOROETHANE 1.2.4-230 230 µg/L 0.00 TRIMETHYLBENZENE 1,2-DIBROMOETHANE µg/L 78 J+ 85 J+ 8.59 1,3,5µg/L 86 J+ 88 J+ 2.30 TRIMETHYLBENZENE 130 J+ 130 J+ 0.00 2-BUTANONE µg/L 2-CHLOROTOLUENE µg/L 0.5 U 0.5 U NC 2-HEXANONE µg/L 160 J+ 160 J+ 0.00 4-METHYL-2-98 J+ 99 J+ 1.02 µg/L PENTANONE ACETONE µg/L 480 J+ 490 J+ 2.06 BENZENE µg/L 3300 3500 5.88 CARBON DISULFIDE µg/L 2 U 2 U NC CHLOROMETHANE 1 U 1 U NC µg/L **ISOPROPYLBENZENE** µg/L 70 J+ 71 J+ 1.42 µg/L METHYL TERT-BUTYL 0.5 U 0.5 U NC ETHER METHYLENE 5 U 5 U NC µg/L CHLORIDE NAPHTHALENE 120 J+ 130 J+ 8.00 µg/L N-BUTYLBENZENE µg/L 12 J+ 13 J+ 8.00 71 J+ N-PROPYLBENZENE 2.86 µg/L 69 J+

VOLATILES	P-	µg/L	32	J+	33	J+	3.08
	ISOPROPYLTOLUENE	-					
	SEC-BUTYLBENZENE	µg/L	13	J+	13	J+	0.00
	TERT-BUTYLBENZENE	µg/L	1.2	J+	1.1	J+	8.70
	TOLUENE	µg/L	7600	J-	7100	J-	6.80
	TRICHLOROETHENE	µg/L	1	U	1	U	NC
	TRICHLOROFLUOROM	µg/L	1	U	1	U	NC
	ETHANE						
	XYLENES	µg/L	2400		2400		0.00

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

	Loc	ation Code		KAFB	3-106IN1	
		ole Number	106IN1-P1P-11		106IN1-P1P-111617-FD	
		ample Date	11/16/2017		11/16/2017	
		le Purpose	REG		FD	
	-	ample Type	GW		GW	Relative
		Depth				Percent
Test Group	Parameter	Units	Result	VQ	Result VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	19.9		22.1	10.48
FLUORIMETRI C	FLUORESCEIN	PPB	3.338		-NA-	0.00
GASES	ACETYLENE	µg/L	10	U	10 U	NC
	ETHANE	µg/L	4	U	4 U	NC
	ETHYLENE	µg/L	4.04	J	4.03 J	NC
	METHANE	µg/L	18		17.3	3.97
	PROPANE	μg/L	6	U	6 U	NC
GEN	ACETIC ACID	MG/L	108		114	5.41
CHEMISTRY	ALKALINITY	MG/L	314		289	8.29
	BROMIDE	MG/L	0.676		0.683	1.03
	BUTYRIC ACID	MG/L	9.2		10.1	9.33
	CHLORIDE	MG/L	48.8		49.0	0.41
	FORMIC ACID	MG/L		U	1 U	NC
	IODIDE	MG/L	0.75	U	0.75 U	NC
	LACTIC ACID	MG/L		U	10	NC
	NITROGEN, NITRATE- NITRITE	MG/L	0.375		0.375 U	NC
	O-PHOSPHATE (AS P)	MG/L	0.0245	J	0.0171 J	NC
	PROPIONIC ACID	MG/L	21.9		22.7	3.59
	PYRUVIC ACID	MG/L	1	U	1 U	NC
	SULFATE	MG/L	2.00		2.00 U	NC
	VALERIC ACID	MG/L	4.34		4.03	7.41
METALS, DISS		µg/L	25500		24800	2.78
	MANGANESE	μg/L	3090		3060	0.98
USGS	DELTA2H	PER MIL	-88.51		-87.39	(1.27)
VOLATILES	1,1,2- TRICHLOROETHANE	µg/L	50.0		50.0 U	NC
	1,2,4- TRIMETHYLBENZENE	µg/L	194		170	13.19
	1,2-DIBROMOETHANE	µg/L	26.5	J	26.4 J	NC
	1,2-DICHLOROETHANE	µg/L	50.0	U	50.0 U	NC
	1,3,5- TRIMETHYLBENZENE	µg/L	68.7	J	58.3 J	NC
	2-BUTANONE	µg/L	500		500 U	NC
	2-CHLOROTOLUENE	µg/L	50.0	U	50.0 U	NC
	2-HEXANONE	µg/L	250	U	250 U	NC
	4-METHYL-2-	µg/L	250	U	250 U	NC
	PENTANONE					
	ACETONE	µg/L	466		451 J-	NC
	BENZENE	µg/L	2950		2590	13.00
	CARBON DISULFIDE	µg/L	50.0		50.0 U	NC
	CHLOROMETHANE	µg/L	50.0		50.0 U	NC
	DICHLORODIFLUOROM ETHANE	µg/L	100		100 U	NC
	ETHYLBENZENE	µg/L	576		483	17.56
VOLATILES	ISOPROPYLBENZENE	µg/L	57.5	J	49.6 J	NC

METHYL TERT-BUTYL ETHER	µg/L	50.0	U	50.0	U	NC
METHYLENE CHLORIDE	µg/L	100	U	100	U	NC
NAPHTHALENE	µg/L	73.6	J	77.0	J	NC
N-BUTYLBENZENE	µg/L	50.0	U	50.0	U	NC
N-PROPYLBENZENE	µg/L	45.6	J	39.3	J	NC
P- ISOPROPYLTOLUENE	µg/L	50.0	U	50.0	U	NC
SEC-BUTYLBENZENE	µg/L	50.0	U	50.0	U	NC
TERT-BUTYLBENZENE	µg/L	50.0	U	50.0	U	NC
TOLUENE	µg/L	6210		5140		18.85
TRICHLOROETHENE	µg/L	50.0	U	50.0	U	NC
	µg/L	100	U	100	U	NC
XYLENES	µg/L	1790		1520		16.31

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

		Location Code					
		Sample Number 106MW1I-P1R-100917		106MW1I-P1R-100917-FD			
	Sample Date		10/09/2017		10/09/2017		
	Sample Purpose		REG		FD		
	Sample Type		GW		GW		Relative
		Depth	oth				Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
FLUORIMETRIC	FLUORESCEIN	PPB	0.01	U	0.01	U	NC
USGS	DELTA2H	PER MIL	-96.02		-96.54		(0.54)

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

NC - not calculated.

ppb - parts per billion.

REG - regular/parent sample.

USGS - Unites States Geological Survey.

	Loc	ation Code		KAFB-	106MW1-I		
	Samp	ole Number	106MW1I-P2R-0	12418	106MW1I-P2R-0	12418-FD	
	S	ample Date	01/24/2018	3	01/24/202	18	
	Samp	le Purpose	REG		FD		
	Sa	ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	44.2		32.1		31.72
GASES	ACETYLENE	µg/L	10.0		10.0		NC
	ETHANE	µg/L	0.75		0.78		NC
	ETHYLENE	µg/L	3.55		4.05		NC
	METHANE	µg/L	1.31		1.35		NC
	PROPANE	µg/L	6.0		6.0		NC
GEN	ACETIC ACID	MG/L	0.98		0.39		NC
CHEMISTRY	ALKALINITY	MG/L	366		360		1.65
	BROMIDE	MG/L	0.529		0.548		3.53
	BUTYRIC ACID	MG/L	1.0	U	1.0		NC
	CHLORIDE	MG/L	48.5		48.9		0.82
	FORMIC ACID	MG/L	1.0			U	NC
		MG/L	0.56		0.58		NC
		MG/L	0.97		0.39		NC
	NITROGEN, NITRATE- NITRITE	MG/L	0.375	U	0.375	U	NC
	O-PHOSPHATE (AS P)	MG/L	0.0200	11	0.0200		NC
	PROPIONIC ACID	MG/L MG/L	0.0200		1.0		NC
	PYRUVIC ACID	MG/L MG/L	1.0		1.0		NC
	SULFATE	MG/L MG/L	1.73		1.75		NC
	VALERIC ACID	MG/L	1.73		1.0		NC
METALS, DISS		µg/L	6410		6510		1.55
	MANGANESE	μg/L	1090		1050		3.74
VOLATILES	1,1,2-	µg/L	25.0		25.0		NC
	TRICHLOROETHANE	r-9 [,] -	2010	•		•	
	1,2,4- TRIMETHYLBENZENE	µg/L	195		200)	2.53
	1,2-DIBROMOETHANE	µg/L	30.7	J	31.1	J	NC
	1,2-DICHLOROETHANE	µg/L	25.0		25.0		NC
	1,3,5- TRIMETHYLBENZENE	µg/L	98.1		100)	1.92
	2-BUTANONE	µg/L	250	U	250	U	NC
	2-CHLOROTOLUENE	µg/L	25.0		25.0		NC
	2-HEXANONE	µg/L	125		125		NC
	4-METHYL-2- PENTANONE	µg/L	125	U	125	U	NC
	ACETONE	µg/L	193	J	196	i J	NC
	BENZENE	µg/L	1570		1660)	5.57
	CARBON DISULFIDE	µg/L	25.0	U	25.0	U	NC
	CHLOROMETHANE	µg/L	25.0	U	25.0	U	NC
	DICHLORODIFLUOROM ETHANE	µg/L	50.0	U	50.0	U	NC
	ETHYLBENZENE	µg/L	614		634		3.21
	ISOPROPYLBENZENE	µg/L	51.0		49.5	J	2.99
	METHYL TERT-BUTYL ETHER	µg/L	25.0		25.0		NC
	METHYLENE CHLORIDE	µg/L	50.0	U	50.0	U	NC
	NAPHTHALENE	µg/L	55.6		50.6		9.42
	N-BUTYLBENZENE	µg/L	25.0	U	25.0	U	NC

VOLATILES	N-PROPYLBENZENE	µg/L	44.3	J	46.0	J	NC
	P-	µg/L	25.0	U	25.0	U	NC
	ISOPROPYLTOLUENE						
	SEC-BUTYLBENZENE	µg/L	25.0	U	25.0	U	NC
	TERT-BUTYLBENZENE	µg/L	25.0	U	25.0	U	NC
	TOLUENE	µg/L	5000		5090		1.78
	TRICHLOROETHENE	µg/L	25.0	U	25.0	U	NC
	TRICHLOROFLUOROM	µg/L	50.0	U	50.0	U	NC
	ETHANE						
	XYLENES	µg/L	1770		1780		0.56

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

	Loc	ation Code		KAFB-	106MW1-I		
	Sam	ole Number	106MW1I-P3P-0	82118	106MW1I-P3P-08	82118-FD	
	S	ample Date	08/21/2018	3	08/21/202	18	
	Samp	le Purpose	REG		FD		
	Sa	ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	2.7		2.9		7.14
GASES	ACETYLENE	µg/L	10	U	10	U	NC
	ETHANE	µg/L	1.1		1.1	J	NC
	ETHYLENE	µg/L	3.7	J	3.8	J	NC
	METHANE	µg/L	13.9		14.8		6.27
	PROPANE	µg/L	1.3	J	1.2		NC
GEN	ACETIC ACID	MG/L	40.7		39.5		2.99
CHEMISTRY	ALKALINITY	MG/L	400		410		2.47
	BROMIDE	MG/L	0.81		0.8		1.24
	BUTYRIC ACID	MG/L		U	-	U	NC
	CHLORIDE	MG/L	49		49		0.00
	FORMIC ACID	MG/L	0.9			J	NC
	IODIDE	MG/L	13		13		0.00
	LACTIC ACID	MG/L	0.7		1.1		NC
	NITROGEN, NITRATE-	MG/L	0.05		0.05		0.00
	NITRITE						
	ORTHOPHOSPHATE	MG/L	0.15		0.15		NC
	PROPIONIC ACID	MG/L		U		U	NC
	PYRUVIC ACID	MG/L		U	1	U	NC
	SULFATE	MG/L	1.9		2.1		10.00
	VALERIC ACID	MG/L		U	-	U	NC 0.00
METALS, DISS	IRON	µg/L	6900		7100		2.86
	MANGANESE	µg/L	4200		4300		2.35
VOLATILES	1,1,2- TRICHLOROETHANE	µg/L	2.5	U	2.5	U	NC
	1,2,4-	µg/L	350		360		2.82
	TRIMETHYLBENZENE	µg/∟			500		2.02
	1,2-DIBROMOETHANE	µg/L	3.9	J	3.4	J	NC
	1,3,5-	μg/L	110		110		0.00
	TRIMETHYLBENZENE	P 3' -					
	2-BUTANONE	µg/L	44	J	49	J	NC
	2-CHLOROTOLUENE	µg/L	2.5	U	2.5	U	NC
	2-HEXANONE	µg/L	90		82		9.30
	4-METHYL-2-	μg/L	73		76		4.03
	PENTANONE						
	ACETONE	µg/L	190		180		5.41
	BENZENE	µg/L	2800		2900		3.51
	CARBON DISULFIDE	µg/L	10			U	NC
	CHLOROMETHANE	µg/L		U		U	NC
	ISOPROPYLBENZENE	µg/L	120		120		0.00
	METHYL TERT-BUTYL	µg/L	2.5	U	2.5	U	NC
	ETHER						
	METHYLENE	µg/L	25	U	25	U	NC
			440		400	ļ	7 4 4
		µg/L	140		130		7.41
	N-BUTYLBENZENE	µg/L	14		14		0.00
	N-PROPYLBENZENE P-	µg/L	110		110		0.00
	P- ISOPROPYLTOLUENE	µg/L	41		40		2.47
	SEC-BUTYLBENZENE	µg/L	14		13		7.41
	GLO-BOTTLBEINZEINE	P8/⊏	14	l	13		1.41

VOLATILES	TERT-BUTYLBENZENE	µg/L	5	U	5	U	NC
	TOLUENE	µg/L	4900		5100		4.00
	TRICHLOROETHENE	µg/L	5	U	5	U	NC
	TRICHLOROFLUOROM ETHANE	µg/L	5	U	5	U	NC
	XYLENES	µg/L	3100		3300		6.25

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

		Location Code					
		Sample Number 106MW1S-P1R-100617		106MW1S-P1R-100617-FD			
	Sample Date		10/06/2017		10/06/2017		
	Sample Purpose		REG		FD		
	Sample Type		GW		GW		Relative
		Depth	Depth				Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
FLUORIMETRIC	FLUORESCEIN	PPB	0.01	U	0.01	U	NC
USGS	DELTA2H	PER MIL	-96.06		-95.87		(0.20)

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

NC - not calculated.

ppb - parts per billion.

REG - regular/parent sample.

USGS - Unites States Geological Survey.

	Loc	ation Code		KAFB-	106MW1-S		
		ple Number	106MW1S-P3P-1		106MW1S-P3P-1	00318-FD	
		ample Date	10/03/2018		10/03/201		
		ole Purpose	REG		FD		
	-	ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result VQ		Result	VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	3.2		3.9		19.72
GASES	ACETYLENE	µg/L	10	U	10	U	NC
	ETHANE	µg/L	4.9		4.7		4.17
	ETHYLENE	µg/L	13.4		13.3		0.75
	METHANE	µg/L	1436.2		1384		3.70
	PROPANE	µg/L	7.2		7		2.82
GEN	ACETIC ACID	MG/L	105.1		106.6		1.42
CHEMISTRY	ALKALINITY	MG/L	460		470		2.15
	BROMIDE	MG/L	2		2.1		4.88
	BUTYRIC ACID	MG/L	1	U	1	U	NC
	CHLORIDE	MG/L	49		50		2.02
	FORMIC ACID	MG/L	1.6	J	1.5	J	NC
	IODIDE	MG/L	5		5.1		1.98
	LACTIC ACID	MG/L	1	U	1	U	NC
	NITROGEN, NITRATE-	MG/L	0.05	U	0.05	U	NC
	NITRITE						
	ORTHOPHOSPHATE	MG/L	0.15	U	0.15	U	NC
	PROPIONIC ACID	MG/L	57.7		60		3.91
	PYRUVIC ACID	MG/L	1	U	1	U	NC
	SULFATE	MG/L	1	U	1	U	NC
	VALERIC ACID	MG/L	1	U	1	U	NC
METALS, DISS	IRON	µg/L	7300		7500		2.70
	MANGANESE	µg/L	7200		7500		4.08
VOLATILES	1,1,2-	μg/L	50		50	U	NC
	TRICHLOROETHANE						
	1,2,4-	µg/L	430		420		2.35
	TRIMETHYLBENZENE						
	1,2-DIBROMOETHANE	µg/L	100	U	100	U	NC
	1,3,5-	µg/L	140		140		0.00
	TRIMETHYLBENZENE						
	2-BUTANONE	µg/L	1000		1000		NC
	2-CHLOROTOLUENE	µg/L	50		50		NC
	2-HEXANONE	µg/L	500		500		NC
	4-METHYL-2-	µg/L	500	U	500	U	NC
	PENTANONE						
	ACETONE	µg/L	1000		1000		NC
	BENZENE	µg/L	4100		4000		2.47
	CARBON DISULFIDE	µg/L	200		200		NC
	CHLOROMETHANE	µg/L	100		100		NC
	ISOPROPYLBENZENE	µg/L	110		110		0.00
	METHYL TERT-BUTYL ETHER	µg/L	50	U	50	U	NC
	METHYLENE	µg/L	500	U	500	U	NC
	CHLORIDE	, 5					
	NAPHTHALENE	µg/L	500		500		NC
	N-BUTYLBENZENE	µg/L	100		100		NC
	N-PROPYLBENZENE	µg/L	130		120		8.00
	P- ISOPROPYLTOLUENE	µg/L	100	U	100	U	NC
	SEC-BUTYLBENZENE	µg/L	100	U	100	U	NC
	SEC-DOTTEDENZENE	r9′⊏	100	5	100	5	NC

VOLATILES	TERT-BUTYLBENZENE	µg/L	100	U	100	U	NC
	TOLUENE	µg/L	11000		11000		0.00
	TRICHLOROETHENE	μg/L	100	U	100	U	NC
	TRICHLOROFLUOROM ETHANE	µg/L	100	U	100	U	NC
	XYLENES	µg/L	4400		4200		4.65

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

	Loc	ation Code		KAFB-1	06MW2-I		
	Samp	ole Number	106MW2I-BL-07	72417	106MW2I-BL-FD-	-072417	
	S	ample Date	07/24/2017	7	07/24/201	7	
		ie Purpose	REG		FD		
		ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	vo	Result	VQ	Difference
	1,2-DIBROMOETHANE	µg/L	0.019		0.0189		NC
	FLUORESCEIN	PPB	0.01		0.01		NC
		110	0.01	0	0.01	0	NO
	ACETYLENE	µg/L	10			U	NC
1	ETHANE	µg/L		U		U	NC
1	ETHYLENE	µg/L		U		U	NC
1	METHANE	µg/L		U		U	NC
Ī	PROPANE	µg/L	6	U	6	U	NC
GEN /	ACETIC ACID	MG/L	1	U	1	U	NC
CHEMISTRY	ALKALINITY	MG/L	190		186	i	2.13
ī	BROMIDE	MG/L	0.196		0.193		NC
Ī	BUTYRIC ACID	MG/L		U		U	NC
	CHLORIDE	MG/L	20.4		20.4	-	0.00
	FORMIC ACID	MG/L		U		U	NC
	IODIDE	MG/L	0.2		0.2	-	NC
		MG/L		U		U	NC
	NITROGEN, NITRATE-	MG/L MG/L	0.375	-	0.375	-	NC
	NITROGEN, NITRATE-	MG/L	0.375	0	0.375	0	NC
	O-PHOSPHATE (AS P)	MG/L	0.02	11	0.0125		NC
	PROPIONIC ACID	MG/L		U		U	NC
	PYRUVIC ACID	MG/L		U	-	U	NC
		MG/L MG/L		-	•	•	
			23		23.1		0.43
		MG/L		U	-	U	NC
,	RON	µg/L	53		51.4		NC
	MANGANESE	µg/L	154		142		8.11
	DELTA2H	PER MIL	-97.17		-97.04		(0.13)
	1,1,2- TRICHLOROETHANE	µg/L	1	U	1	U	NC
	1,2,4-	µg/L	1	U	1	U	NC
	TRIMETHYLBENZENE	µg/L	I	0	1	0	NC
	1,2-DIBROMOETHANE	ua/l	1	U	1	U	NC
	1,2-DICHLOROETHANE	μg/L		U		U	NC
	1,2-DICHLORUE I HAINE	µg/∟	I	U		0	NC
-	1,3,5-	µg/L	1	U	1	U	NC
-	TRIMETHYLBENZENE						
	2-BUTANONE	µg/L	10			U	NC
	2-CHLOROTOLUENE	µg/L		U		U	NC
	2-HEXANONE	µg/L	5	U	5	U	NC
4	4-METHYL-2-	µg/L	5	U	5	U	NC
1	PENTANONE						
/	ACETONE	µg/L	19.8	J	15.9	J	NC
I	BENZENE	µg/L	1	U	1	U	NC
0	CARBON DISULFIDE	µg/L	1	U	1	U	NC
0	CHLOROMETHANE	µg/L	1	U	1	U	NC
		µg/L	2	U		U	NC
	ETHANE						
	ETHYLBENZENE	µg/L	1	U	1	U	NC
	SOPROPYLBENZENE	µg/L		U		U	NC
	METHYL TERT-BUTYL	µg/L		U		U	NC
	ETHER	r·ə/ —			'		
-		µg/L	2	U	2	U	NC
(CHLORIDE						

NAPHTHALENE	µg/L	1	U	1	U	NC
N-BUTYLBENZENE	µg/L	1	U	1	U	NC
N-PROPYLBENZENE	µg/L	1	U	1	U	NC
	µg/L	1	U	1	U	NC
ISOPROPYLTOLUENE						
	µg/L	1	U	1	U	NC
TERT-BUTYLBENZENE	µg/L	1	U	1	U	NC
TOLUENE	µg/L	1	U	0.69	J	NC
TRICHLOROETHENE	µg/L	1	U	1	U	NC
TRICHLOROFLUOROM ETHANE	µg/L	2	U	2	U	NC
XYLENES	µg/L	3	U	3	U	NC

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

Location Code KAFB-106MW2-I Sample Number 106MW2I-BL-091917 106MW2I-BL-FD-091917 09/19/2017 09/19/2017 Sample Date Sample Purpose REG FD GW GW Sample Type Relative Depth ----Percent Units **Result VQ Result VQ Test Group** Parameter Difference 1,2-DIBROMOETHANE 0.072 0.122 EDB µg/L 51.55 FLUORIMETRI FLUORESCEIN PPB 0.01 U 0.01 U NC С GASES ACETYLENE µg/L 10 U 10 U NC ETHANE 4 U NC µg/L 4 U 5 U 5 U NC **ETHYLENE** µg/L 7.2 METHANE µg/L 6.86 4.84 PROPANE µg/L NC 6 U 6 U GEN ACETIC ACID MG/L 0.59 J 0.31 NC CHEMISTRY ALKALINITY 194 207 6.48 MG/L 0.249 0.287 NC BROMIDE MG/L BUTYRIC ACID MG/L NC 1U 1 U CHLORIDE MG/L 31.6 32.1 1.57 FORMIC ACID MG/L NC 1 U 1 U IODIDE MG/L 0.75 U 0.75 U NC 1.08 LACTIC ACID MG/L 0.97 J 10.73 NITROGEN, NITRATE-0.375 U 0.375 U NC MG/L NITRITE 0.0525 U O-PHOSPHATE (AS P) MG/L 0.0342 U NC PROPIONIC ACID MG/L NC 1U 1U PYRUVIC ACID MG/L 1 U 1 U NC SULFATE MG/L 19.2 19.8 3.08 VALERIC ACID MG/L 1 U 1 U NC METALS, DISS IRON µg/L 955 996 4.20 MANGANESE µg/L 392 405 3.26 USGS DELTA2H PER -96.44 -96.4 (0.04)MILLE VOLATILES 1,1,2µg/L 2.5 U 1 U NC TRICHLOROETHANE 1,2,4-NC 2.5 U U µg/L 1 TRIMETHYLBENZENE 1,2-DIBROMOETHANE 2.5 U NC µg/L 11 1,2-DICHLOROETHANE µg/L 2.5 U 0.78 J NC 1,3,5-2.5 U 1 U NC µg/L TRIMETHYLBENZENE 2-BUTANONE µg/L 25 U 10 J-NC 2-CHLOROTOLUENE 2.5 U NC µg/L 1 U NC 2-HEXANONE 12.5 U 5 UJ µg/L 4-METHYL-2µg/L 12.5 U 5 UJ NC PENTANONE ACETONE 24.6 J 11.3 J NC µg/L 2.5 U BENZENE µg/L 1 U NC 1 U NC CARBON DISULFIDE 2.5 U µg/L CHLOROMETHANE NC µg/L 2.5 U 1 U DICHLORODIFLUOROM µg/L 5 U 2 U NC ETHANE ETHYLBENZENE µg/L 2.5 U 0.619 J NC

VOLATILES	ISOPROPYLBENZENE	µg/L	1.46	J	1.51	J	NC
	METHYL TERT-BUTYL ETHER	µg/L	2.5	U	1	U	NC
	METHYLENE CHLORIDE	µg/L	5	U	2	U	NC
	NAPHTHALENE	µg/L	1.34	J	1	U	NC
	N-BUTYLBENZENE	µg/L	2.5	U	1	U	NC
	N-PROPYLBENZENE	µg/L	2.5	U	1	U	NC
	P- ISOPROPYLTOLUENE	µg/L	1.29	J	1	U	NC
	SEC-BUTYLBENZENE	µg/L	2.5	U	1	U	NC
	TERT-BUTYLBENZENE	µg/L	2.5	U	1	U	NC
	TOLUENE	µg/L	5.61		2.71		69.71
	TRICHLOROETHENE	µg/L	2.5	U	1	U	NC
	TRICHLOROFLUOROM ETHANE	µg/L	5	U	2	U	NC
	XYLENES	µg/L	9.02	J	4.36	J	NC

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

μg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

Location Code KAFB-106MW2-I Sample Number 106MW2I-P1P-112917 106MW2I-P1P-112917 Sample Date 11/29/2017 11/29/2017 Sample Purpose REG FD Sample Purpose REG FD Sample Type GW GW Depth Test Group Parameter Units Result VQ Result VQ EDB 1,2-DIBROMOETHANE µg/L 20.1 17.1 17.1 FLUORIMETRIC FLUORESCEIN PPB 7.694 -NA- GASES ACETYLENE µg/L 10 U 10 U ETHANE µg/L 10 U 10 U 4 U ETHANE µg/L 2.24 1.99 J METHANE µg/L 6 U 6 U GASES ACETYLENE µg/L 2.05 17.6 I I I I I I I I I	Relative Percent
Sample Date 11/29/2017 11/29/2017 Sample Purpose REG FD Sample Type GW GW Depth Parameter Units Result VQ Result VQ EDB 1,2-DIBROMOETHANE µg/L 20.1 17.1 FLUORIMETRIC FLUORESCEIN PPB 7.694 NA- GASES ACETYLENE µg/L 10 U 10 U GASES ACETYLENE µg/L 17.2 16.3 PROPANE µg/L 17.2 16.3 GEN ACETIC ACID MG/L 20.5 17.6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 7.6 U 1.0 1.0	Percent
Sample Purpose REG FD Sample Type GW GW Depth Test Group Parameter Units Result VQ Result VQ EDB 1,2-DIBROMOETHANE µg/L 20.1 17.1 17.1 FLUORIMETRIC FLUORESCEIN PPB 7.694 -NA- GASES ACETYLENE µg/L 10 U 10 U ETHANE µg/L 4 U 4 U 4 U ETHANE µg/L 2.24 J 1.99 J Inside I	Percent
Test Group Gample Type GW GW Parameter Units Result VQ Result VQ EDB 1,2-DIBROMOETHANE µg/L 20.1 17.1 FLUORIMETRIC FLUORESCEIN PPB 7.694 -NA- GASES ACETYLENE µg/L 10 U 10 U ETHANE µg/L 4 U 4 U 4 U ETHYLENE µg/L 2.24 J 1.99 J METHANE µg/L 17.2 16.3 PROPANE µg/L 6 U	Percent
Test Group Parameter Units Result VQ Result VQ EDB 1,2-DIBROMOETHANE µg/L 20.1 17.1 17.1 FLUORIMETRIC FLUORESCEIN PPB 7.694 -NA- GASES ACETYLENE µg/L 10 U 10 U ETHANE µg/L 4 U 4 U 4 U ETHYLENE µg/L 2.24 J 1.99 J METHANE µg/L 17.2 16.3 PROPANE µg/L 6 U </th <th>Percent</th>	Percent
EDB 1,2-DIBROMOETHANE µg/L 20.1 17.1 FLUORIMETRIC FLUORESCEIN PPB 7.694 -NA- GASES ACETYLENE µg/L 10 U 10 U ETHANE µg/L 4 U 4 U 4 U ETHANE µg/L 2.24 J 1.99 J METHANE µg/L 17.2 16.3 PROPANE µg/L 6 U 6 U GEN ACETIC ACID MG/L 20.5 17.6 CHEMISTRY ACETIC ACID MG/L 0.599 0.600 BUTYRIC ACID MG/L 1 U 1 U CHLORIDE MG/L 0.75 0 0.600 0 BUTYRIC ACID MG/L 1 U 1 U 1 U IODIDE MG/L 0.75 U 0.75 U 0.75 U IACTIC ACID MG/L	
FLUORIMETRIC FLUORESCEIN PPB 7.694 -NA- GASES ACETYLENE µg/L 10 U 10 U ETHANE µg/L 4 U 4 U 4 U ETHANE µg/L 2.24 J 1.99 J J 1.99 J METHANE µg/L 17.2 16.3 PROPANE µg/L 6 U 10 U 10	Difference
GASES ACETYLENE µg/L 10 U 10 U ETHANE µg/L 4 U 4 U 4 U ETHYLENE µg/L 2.24 J 1.99 J METHANE µg/L 17.2 16.3 PROPANE µg/L 6 U 6 U GEN ACETIC ACID MG/L 20.5 17.6 CHEMISTRY ALKALINITY MG/L 260 274 BROMIDE MG/L 0.599 0.600 BUTYRIC ACID MG/L 1 U 1 U CHLORIDE MG/L 42.9 42.8 E FORMIC ACID MG/L 0.75 U 0.75 U IODIDE MG/L 0.75 U 0.375 U IODIDE MG/L 0.375 U 0.375 U NITROGEN, NITRATE- MG/L 0.0200 U 0.0200 U	16.13
ETHANE µg/L 4 U 4 U ETHANE µg/L 2.24 J 1.99 J METHANE µg/L 17.2 16.3 PROPANE µg/L 6 U 10 10 10 10 10 10 10 10 10 10 10 10	0.00
ETHYLENE µg/L 2.24 J 1.99 J METHANE µg/L 17.2 16.3 <	NC
METHANE µg/L 17.2 16.3 PROPANE µg/L 6 0 6 0 GEN ACETIC ACID MG/L 20.5 17.6 17.6 CHEMISTRY ALKALINITY MG/L 260 274 10 10 BROMIDE MG/L 0.599 0.600 10 10 10 BROMIDE MG/L 1 0 1 0 10 10 CHLORIDE MG/L 42.9 42.8 10	NC
PROPANE µg/L 6 U GEN GEN ACETIC ACID MG/L 20.5 17.6 Integration of the state of the st	NC
GEN CHEMISTRY ACETIC ACID MG/L 20.5 17.6 ALKALINITY MG/L 260 274 BROMIDE MG/L 0.599 0.600 BUTYRIC ACID MG/L 1 1 1 CHLORIDE MG/L 42.9 42.8 1 FORMIC ACID MG/L 1 1 1 1 IODIDE MG/L 0.75 0 0.75 0 IODIDE MG/L 1 0 1 1 1 NITROGEN, NITRATE- MG/L 0.375 0 0.375 0 O-PHOSPHATE (AS P) MG/L 0.0200 0 0.0200 0 PROPIONIC ACID MG/L 1 0 1 0	5.37
CHEMISTRY ALKALINITY MG/L 260 274 BROMIDE MG/L 0.599 0.600 BUTYRIC ACID MG/L 1 U 1 U CHLORIDE MG/L 42.9 42.8 FORMIC ACID MG/L 1 U 1 U IODIDE MG/L 0.75 U 0.75 U IODIDE MG/L 1 U 1 U INTROGEN, NITRATE- MG/L 0.375 U 0.375 U O-PHOSPHATE (AS P) MG/L 0.0200 U 0.0200 U PROPIONIC ACID MG/L 1 U 1 U	NC
Intervention MG/L Los Los Los BROMIDE MG/L 0.599 0.600 BUTYRIC ACID MG/L 1 U 1 U CHLORIDE MG/L 42.9 42.8 FORMIC ACID MG/L 1 U 1 U IODIDE MG/L 0.75 U 0.75 U IODIDE MG/L 1 U 1 U NITROGEN, NITRATE- MG/L 0.375 U 0.375 U O-PHOSPHATE (AS P) MG/L 0.0200 U 0.0200 U PROPIONIC ACID MG/L 1 U 1 U	15.22
BUTYRIC ACIDMG/L1U1CHLORIDEMG/L42.942.8FORMIC ACIDMG/L1U1IODIDEMG/L0.7500.75LACTIC ACIDMG/L1U1NITROGEN, NITRATE-MG/L0.375U0.375NITRITEMG/L0.0200U0.0200UPROPIONIC ACIDMG/L1U1U	5.24
CHLORIDE MG/L 42.9 42.8 FORMIC ACID MG/L 1 U 1 U IODIDE MG/L 0.75 U 0.75 U LACTIC ACID MG/L 1 U 1 U NITROGEN, NITRATE- MG/L 0.375 U 0.375 U O-PHOSPHATE (AS P) MG/L 0.0200 U 0.0200 U PROPIONIC ACID MG/L 1 U 1 U	0.17
FORMIC ACID MG/L 1 U 1 U IODIDE MG/L 0.75 U 0.75 U LACTIC ACID MG/L 1 U 1 U NITROGEN, NITRATE- MG/L 0.375 U 0.375 U O-PHOSPHATE (AS P) MG/L 0.0200 U 0.0200 U PROPIONIC ACID MG/L 1 U 1 U	NC
IODIDE MG/L 0.75 U 0.75 U LACTIC ACID MG/L 1 U U 1 U	0.23
LACTIC ACID MG/L 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 0.375 U 0.375 U 0.375 U 0.375 U 0.0200 U	NC
NITROGEN, NITRATE- NITRITEMG/L0.375U0.375UO-PHOSPHATE (AS P)MG/L0.0200U0.0200UPROPIONIC ACIDMG/L1U1U	NC
NITROGEN, NITRATE- NITRITEMG/L0.375U0.375UO-PHOSPHATE (AS P)MG/L0.0200U0.0200UPROPIONIC ACIDMG/L1U1U	NC
PROPIONIC ACID MG/L 1 U 1 U	NC
PROPIONIC ACID MG/L 1 U 1 U	NC
	NC
	NC
SULFATE MG/L 2.37 J 2.42 J	NC
VALERIC ACID MG/L 1U 1U	NC
METALS, DISS IRON µg/L 18300 17800	2.77
MANGANESE µg/L 2810 2760	1.80
USGS DELTA2H PER -87.37 -87.91 MILLE	(0.62)
VOLATILES 1,1,2- TRICHLOROETHANE	NC
1,2,4- µg/L 54.9 57.7 TRIMETHYLBENZENE	4.97
1,2-DIBROMOETHANE µg/L 21.7 22.3	2.73
1,2-DICHLOROETHANE µg/L 1.72 J 1.93 J	NC
1,3,5- µg/L 28.6 29.5 TRIMETHYLBENZENE	3.10
2-BUTANONE µg/L 16.6 J 16.8 J	NC
2-CHLOROTOLUENE µg/L 2.50 U 2.50 U	NC
2-HEXANONE µg/L 31.1 34.6	10.65
4-METHYL-2- µg/L 32.6 34.0 PENTANONE	4.20
ACETONE µg/L 97.2 104	6.76
BENZENE µg/L 410 411	0.24
CARBON DISULFIDE µg/L 2.50 U 2.50 U	NC
CHLOROMETHANE µg/L 2.50 U 2.50 U	NC
DICHLORODIFLUOROM µg/L 5.00 U 5.00 U	NC
ETHYLBENZENE µg/L 31.3 32.5	3.76
ISOPROPYLBENZENE µg/L 16.2 16.9	4.23
METHYL TERT-BUTYL µg/L 2.50 U 2.50 U 2.50 U	NC

VOLATILES	METHYLENE	µg/L	5.00	U	5.00	U	NC
	CHLORIDE						
	NAPHTHALENE	µg/L	29.0		31.9		9.52
	N-BUTYLBENZENE	µg/L	1.72	J	1.89	J	NC
	N-PROPYLBENZENE	µg/L	3.59	J	4.06	J	NC
	P-	µg/L	47.0		49.3		4.78
	ISOPROPYLTOLUENE						
	SEC-BUTYLBENZENE	µg/L	1.55	J	1.67	J	NC
	TERT-BUTYLBENZENE	µg/L	2.50	U	2.50	U	NC
	TOLUENE	µg/L	62.6		63.9		2.06
	TRICHLOROETHENE	µg/L	2.50	U	2.50	U	NC
	TRICHLOROFLUOROM ETHANE	µg/L	5.00	U	5.00	U	NC
	XYLENES	µg/L	760		773		1.70

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

μg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

Test Group		Location Code		KAFB-	106MW2-I		
	S	ample Number	106MW2I-P1R-1	02017	106MW2I-P1R-102017-FD		
		Sample Date	10/20/2017		10/20/2017		
	Sample Purpose				FD		
	Sample Type		GW		GW		Relative
	Depth						Percent
	Parameter	Units	Result	VQ	Result	VQ	Difference
FLUORIMETRIC	FLUORESCEIN	PPB	20.097		-NA-		0.00
USGS	DELTA2H	PER MIL	-80.81		-81.53		(0.89)

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

NC - not calculated.

ppb - parts per billion.

REG - regular/parent sample.

USGS - Unites States Geological Survey.

	Loc	ation Code		KAFB	-106MW2-I		
		ole Number	106MW2I-P2P-0		106MW2I-P2P-0	30618-FD	
		ample Date	03/06/2018		03/06/20		
		le Purpose	REG		FD		
		ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	1.98	J+	1.61	J+	20.61
GASES	ACETYLENE	µg/L	10	U		U	NC
	ETHANE	µg/L	0.51	J	4	U	NC
	ETHYLENE	µg/L	2.84	J	3.2		NC
	METHANE	µg/L	211		220		4.18
	PROPANE	µg/L		U		U	NC
GEN	ACETIC ACID	MG/L	26.8		16.8		45.87
CHEMISTRY	ALKALINITY	MG/L	277		283		2.14
	BROMIDE	MG/L	0.251		0.251		0.00
	BUTYRIC ACID	MG/L	1	U	1	U	NC
	CHLORIDE FORMIC ACID	MG/L MG/L	26.4	U	26.5	U	0.38 NC
	IODIDE	MG/L MG/L	2.2	U	2.2	-	0.00
	LACTIC ACID	MG/L MG/L	1.31		0.8		48.34
	NITROGEN, NITRATE-	MG/L MG/L	0.375	11	0.375		40.34 NC
	NITRITE	NIC/L	0.575	Ĭ	0.075	Ĭ	NC
	O-PHOSPHATE (AS P)	MG/L	0.02	U	0.02	U	NC
	PROPIONIC ACID	MG/L	1			U	NC
	PYRUVIC ACID	MG/L	1	U	1	U	NC
	SULFATE	MG/L	1.77	J	1.74	J	NC
	VALERIC ACID	MG/L	1	U	1	U	NC
METALS, DISS	IRON	µg/L	12300		11500		6.72
	MANGANESE	µg/L	1920		1860		3.17
VOLATILES	1,1,2-	µg/L	5	U	5	U	NC
	TRICHLOROETHANE		00.7		40.0		0.05
	1,2,4- TRIMETHYLBENZENE	µg/L	38.7		42.2		8.65
	1,2-DIBROMOETHANE	µg/L	5	U	5	U	NC
	1,2-DICHLOROETHANE	μg/L		U		U	NC
		µ9/ −	0	0		Ũ	110
	1,3,5-	µg/L	23.9		25.6		6.87
	TRIMETHYLBENZENE						
	2-BUTANONE	µg/L	50			U	NC
	2-CHLOROTOLUENE	µg/L		U		U	NC
	2-HEXANONE	µg/L	14.9			J+	NC
	4-METHYL-2-	µg/L	13.6	J	15.2	J	NC
	PENTANONE		40 F	1.	20.2	1.	NO
	ACETONE BENZENE	µg/L	48.5	J+	36.3 439		NC 2.77
	CARBON DISULFIDE	μg/L μg/L		U		U	2.17 NC
	CHLOROMETHANE	μg/L		U		U	NC
	DICHLORODIFLUOROM	µg/L	10			U	NC
	ETHANE	µ9/⊏	10	0	10	Ŭ	
	ETHYLBENZENE	µg/L	89.8		90.5		0.78
	ISOPROPYLBENZENE	μg/L	44.6		45		0.89
	METHYL TERT-BUTYL ETHER	µg/L	5	U	5	U	NC
	METHYLENE CHLORIDE	µg/L	10	U	10	U	NC
	NAPHTHALENE	µg/L	17.5		18.5		5.56
	N-BUTYLBENZENE	μg/L	2.71		2.96		NC
	N-PROPYLBENZENE	µg/L	8.66		8.99		NC
	P- ISOPROPYLTOLUENE	µg/L		U	38.2		NC

VOLATILES	SEC-BUTYLBENZENE	µg/L	2.52	J	2.57	J	NC
	TERT-BUTYLBENZENE	µg/L	5	U	5	U	NC
	TOLUENE	µg/L	217		221		1.83
	TRICHLOROETHENE	µg/L	5	U	5	U	NC
	TRICHLOROFLUOROM	µg/L	10	U	10	U	NC
	ETHANE						
	XYLENES	µg/L	356		369		3.59

Notes:

Please see Table 2 for definitions of qualifiers and reason codes.

FD - field duplicate.

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KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

	Loc	cation Code		KAFB-	106MW2-I		
	Sam	ple Number	106MW2I-P3P-1	11518	106MW2I-P3P-1	11518-FD	
		ample Date	11/15/2018	3	11/15/20	18	
	Sam	ole Purpose	REG		FD		
	S	ample Type	GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
EDB	1,2-DIBROMOETHANE	µg/L	0.24		0.27		11.76
GASES	ACETYLENE	µg/L	10		10		NC
	ETHANE	µg/L	1.1		•	J	NC
	ETHYLENE	µg/L	1.1	J	1.1	-	NC
	METHANE	µg/L	2646		2704.5		2.19
	PROPANE	µg/L	1.1			J	NC
GEN	ACETIC ACID	MG/L	1	U	-	U	NC
CHEMISTRY	ALKALINITY	MG/L	350		350		0.00
	BROMIDE	MG/L	1		1		0.00
	BUTYRIC ACID	MG/L		U		U	NC
	CHLORIDE	MG/L	47		47		0.00
	FORMIC ACID	MG/L	0.5	J	0.5		NC
	IODIDE	MG/L	6.7		6.9		2.94
	LACTIC ACID	MG/L	1.2		1		18.18
	NITROGEN, NITRATE-	MG/L	0.5	U	0.5	U	NC
	NITRITE ORTHOPHOSPHATE	MG/L	0.45		0.15		
			0.15				NC
	PROPIONIC ACID PYRUVIC ACID	MG/L MG/L		U U		U U	NC
	SULFATE	MG/L MG/L		U		U	NC NC
	VALERIC ACID	MG/L MG/L		U		U	NC
METALS, DISS	IRON	µg/L	22000	0	21000		4.65
IVIETALS, DISS	MANGANESE	μg/L μg/L	3900		3800		2.60
VOLATILES	1.1.2-	μg/L μg/L	50	11	50		2.00 NC
VOLATILLS	TRICHLOROETHANE	µg/∟	50	0	50	0	NC
	1,2,4-	µg/L	55	.1	57	.1	NC
	TRIMETHYLBENZENE	M9/ -	00	0		0	
	1,2-DIBROMOETHANE	µg/L	100	U	100	U	NC
	1,3,5-	µg/L	33	J	50	U	NC
	TRIMETHYLBENZENE						
	2-BUTANONE	µg/L	1000		1000	U	NC
	2-CHLOROTOLUENE	µg/L	50		50		NC
	2-HEXANONE	µg/L	500	U	500		NC
	4-METHYL-2-	µg/L	500	U	500	U	NC
	PENTANONE						
	ACETONE	µg/L	1000		1000		NC
	BENZENE	µg/L	630		610		3.23
	CARBON DISULFIDE	µg/L	200		200		NC
	CHLOROMETHANE	µg/L	100		100		NC
	ISOPROPYLBENZENE	µg/L	94		92		NC
	METHYL TERT-BUTYL	µg/L	50	U	50	U	NC
		ug/l	F00				
	METHYLENE CHLORIDE	µg/L	500	U	500	U	NC
	NAPHTHALENE	µg/L	500	11	500		NC
	NAPHTHALENE N-BUTYLBENZENE	μg/L μg/L	100		100		NC
	N-PROPYLBENZENE	μg/L μg/L	100		100		NC
	P-	μg/L μg/L	100		100		NC
	ISOPROPYLTOLUENE	P9/⊏	100		100	Ŭ	NC
	SEC-BUTYLBENZENE	µg/L	100	U	100	U	NC

VOLATILES	TERT-BUTYLBENZENE	µg/L	100	U	100	U	NC
	TOLUENE	µg/L	410		390		5.00
	TRICHLOROETHENE	µg/L	280		98	J	96.30
	TRICHLOROFLUOROM ETHANE	µg/L	100	U	100	U	NC
	XYLENES	µg/L	430		400		7.23

Notes:

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FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

µg/L - micrograms per liter.

mg/L - milligram per liter.

NC - not calculated.

REG - regular/parent sample.

		Location Code		KAFB-	106MW2-S		
		Sample Number	106MW2S-P1R-1	01217	106MW2S-P1R-1	101217-FD	
		Sample Date	10/12/2017		10/12/2017		
	Sample Purpose		REG		FD		
	Sample Type		GW		GW		Relative
		Depth					Percent
Test Group	Parameter	Units	Result	VQ	Result	VQ	Difference
FLUORIMETRIC	FLUORESCEIN	PPB	1.535		1.527		0.52
USGS	DELTA2H	PER MIL	-93.69		-93.42		(0.29)

Notes:

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FD - field duplicate.

GW - groundwater.

KAFB - Kirtland Air Force Base.

NC - not calculated.

ppb - parts per billion.

REG - regular/parent sample.

USGS - Unites States Geological Survey.

	Loc	ation Code		KAFB-1	06MW2-S	I
		ole Number	106MW2S-P2P-0)41018	106MW2S-P2P-041018-FD	
		omula Data	04/10/2018		04/10/2018	-
		ample Date le Purpose	REG)	FD	-
	-	ample Type	GW		GW	-
		Depth				Relative
Test Group	Parameter	Units	Result	VO	Result VQ	Percent Difference
EDB	1,2-DIBROMOETHANE	µg/L	0.154		0.139	10.24
GASES	ACETYLENE	µg/L	10		10 U	NC
0/1020	ETHANE	μg/L	1.02		0.97 J	NC
	ETHYLENE	μg/L	5.5		5.02	9.13
	METHANE	µg/L	11800		11600	1.71
	PROPANE	μg/L	1.39		1.2 J	NC
GEN	ACETIC ACID	MG/L	113.5		118.4	4.23
CHEMISTRY	ALKALINITY	MG/L	399		382	4.35
	BROMIDE	MG/L	0.561		0.567	1.06
	BUTYRIC ACID	MG/L		U	10	NC
	CHLORIDE	MG/L	49.5	-	49.8	0.60
	FORMIC ACID	MG/L	2.1		2.8	28.57
	IODIDE	MG/L	18		19	5.41
	LACTIC ACID	MG/L	1		1	NC
	NITRATE	MG/L	0.2		0.2 U	NC
	NITRITE	MG/L	0.2		0.2 U	NC
	O-PHOSPHATE (AS P)	MG/L	0.623		0.571	8.71
	PROPIONIC ACID	MG/L	25.8		27.9	7.82
	PYRUVIC ACID	MG/L		U	1U	NC
	SULFATE	MG/L		U	2 U	NC
	VALERIC ACID	MG/L	1.1		2.3	70.59
METALS, DISS	IRON	µg/L	12300		12100 J-	1.64
	MANGANESE	µg/L	9470		9420 J+	0.53
VOLATILES	1,1,2-	µg/L	50		50 U	NC
VOLINILLO	TRICHLOROETHANE					
	1,2,4- TRIMETHYLBENZENE	µg/L	194		189	2.61
	1,2-DIBROMOETHANE	µg/L	50	U	50 U	NC
	1,2-DICHLOROETHANE	µg/L	50	U	50 U	NC
	1,3,5- TRIMETHYLBENZENE	µg/L	70.3	J	69.2 J	NC
	2-BUTANONE	µg/L	500	U	500 U	NC
	2-CHLOROTOLUENE	µg/L	50		50 U	NC
	2-HEXANONE	μg/L	250		250 U	NC
	4-METHYL-2- PENTANONE	µg/L	250	U	250 U	NC
	ACETONE	µg/L	379	J	343 J	NC
	BENZENE	µg/L	2360		2210	6.56
	CARBON DISULFIDE	μg/L	50		50 U	NC
	CHLOROMETHANE	µg/L	50		50 U	NC
	DICHLORODIFLUOROM	µg/L	100		100 U	NC
	ETHYLBENZENE	µg/L	628		591	6.07
	ISOPROPYLBENZENE	µg/L	150		150	0.00
	METHYL TERT-BUTYL ETHER	μg/L	50		50 U	NC

VOLATILES	METHYLENE CHLORIDE	µg/L	100	U	100	U	NC
	NAPHTHALENE	µg/L	78.6	J	80.1	J	NC
	N-BUTYLBENZENE	µg/L	50	U	50	U	NC
	N-PROPYLBENZENE	µg/L	52.4	J	50.4	J	NC
	P-	µg/L	83.4	J	81.7	J	NC
	ISOPROPYLTOLUENE						
	SEC-BUTYLBENZENE	µg/L	50	U	50	U	NC
	TERT-BUTYLBENZENE	µg/L	50	U	50	U	NC
	TOLUENE	µg/L	5440		5190		4.70
	TRICHLOROETHENE	µg/L	50	U	50	U	NC
	TRICHLOROFLUOROM ETHANE	µg/L	100	U	100	U	NC
	XYLENES	µg/L	1870		1810		3.26

Notes:

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NC - not calculated.

REG - regular/parent sample.

Analytical Method	Number of Analytes	Number of Samples	Number of Results	Contractually Incompliant Results	Number of Contract Compliant Results	Number of Rejected Results	Number of Useable Results	Contractual Completeness [Goal = 95 %] (percent)	Analytical Completeness [Goal = 90 %] (percent)	Technical Completeness [Goal = 95 %] (percent)	Holding Time Completeness [Goal = 100 %] (percent)
E300	1	193	193	0	193	0	193	100%	94.8%	100%	100%
E300M	7	193	1,351	0	1,351	0	1,351	100%	96.%	100%	100%
E353.2	1	85	85	0	85	0	85	100%	100%	100%	100%
FLUORIMETRIC	1	110	110	0	110	0	110	100%	100%	100%	100%
IRMS	2	114	116 *	0	116	0	116	100%	100%	100%	100%
QUANTARRAY	30	61	1,715 *	0	1,715	0	1,715	100%	100%	100%	100%
RSK-175	5	189	945	0	945	0	945	100%	96.2%	100%	100%
SM2320B	1	186	186	7	179	0	186	96.2%	94.1%	100%	96.2%
SM4500PE	1	116	116	8	108	0	116	93.1%	90.5%	100%	98.3%
SW6010C	2	186	372	28	344	0	372	92.5%	88.4%	100%	100%
SW8011	1	186	186	0	186	0	186	100%	77.4%	100%	100%
SW8260B	28	186	4,995 *	4	4,991	0	4,995	99.9%	96.4%	100%	99.9%
SW9056A	7	186	760 *	16	744	9	760	97.9%	92.8%	98.8%	98.3%

Appendix I-1 - Table 6. Contractual, Analytical, Technical and Holding Time Completeness

Notes:

% - percent.

ACRONYMS AND ABBREVIATIONS

%	percent
%D	percent difference
AFB	Air Force Base
ALS	ALS Laboratories
APTIM	Aptim Federal Services, LLC
CCV	continuing calibration verification
DoD	U.S. Department of Defense
EDB	1,2-dibromoethane/ethylene dibromide
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
ICP	inductively coupled plasma
ICS	interference check sample
KAFB	Kirtland Air Force Base
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LOQ	limit of quantitation
mg/L	milligram per liter
mL	milliliter
MS	matrix spike
MSD	matrix spike duplicate
PDS	post digestion spike
QAPP	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
SOP	standard operating procedure
USACE	U.S. Army Corps of Engineers
VOA	volatile organic analysis
VOC	volatile organic compound

LABORATORY DATA QUALITY ASSESSMENT

This Data Quality Assessment describes the findings of the review of data for the March, May, August, and October 2020 quarterly groundwater monitoring, and is provided to document the quality of the analytical data used in the *Ethylene Dibromide In Situ Biodegradation Pilot Test Report, Bulk Fuels Facility, Solid Waste Management Units ST-106 and SS-11*. Sampling procedures and overall quality control (QC) and quality assurance protocols for the March, May, August and October 2020 quarterly groundwater monitoring events are presented in the *Final Uniform Federal Policy Quality Assurance Project Plan, Bulk Fuels Facility, Solid Waste Management Units ST-106/SS-111, Kirtland Air Force Base, Albuquerque, New Mexico* (QAPP; Kirtland Air Force Base [AFB], 2020).

The Data Quality Assessment focuses on the data quality and data usability of the samples collected from the following sampling events:

- March 2020 quarterly groundwater monitoring at monitoring wells (KAFB-106064, KAFB- 106063, KAFB-106MW1-I, KAFB-106MW1-S, KAFB-106MW2-I, KAFB- 106MW2-S, KAFB-106IN1, and KAFB-106EX1);
- May 2020 quarterly groundwater monitoring at monitoring wells (KAFB-106064, KAFB- 106063, KAFB-106MW1-I, KAFB-106MWI-S, KAFB-106MW2-I, KAFB- 106MW2-S, KAFB-106IN1, and KAFB-106EX1);
- August 2020 quarterly groundwater monitoring at monitoring wells (KAFB-106064, KAFB- 106063, KAFB-106MW1-I, KAFB-106MWI-S, KAFB-106MW2-I, KAFB- 106MW2-S, KAFB-106IN1, KAFB-106EX1, and KAFB-106EX2); and
- October 2020 quarterly groundwater monitoring at monitoring wells (KAFB-106064, KAFB- 106063, KAFB-106MW1-I, KAFB-106MWI-S, KAFB-106MW2-I, KAFB- 106MW2-S, KAFB-106IN1, KAFB-106EX1, and KAFB-106EX2).

All quarterly groundwater samples from the listed wells were analyzed for the following of parameters:

- Volatile organic compounds (VOCs) U.S. Environmental Protection Agency (EPA) Method SW8260C
- 1,2-Dibromethane (EDB) EPA Method SW8011
- Total lead and dissolved iron and manganese EPA Method SW6020A
- Anions (chloride, sulfate, bromide, nitrate and nitrite as nitrogen) EPA Method SW9056A
- Dissolved ortho-phosphate by Standard Method (SM) 4500 PE/EPA 365.3
- Alkalinity SM2320B

- Iodide EPA Method 300
- Dissolved gases RSK 175
- Fatty acids EPA Method 300 Modified
- Quant Array Chlor Laboratory Standard Operating Procedure (SOP)

All quarterly groundwater samples were shipped to off-site laboratories for analysis. Groundwater samples for quant array chlor analysis were performed by Microbial Insights in Knoxville, Tennessee. The analysis of dissolved gases and fatty acids was conducted by Aptim Federal Services, LLC (APTIM) Lawrenceville, New Jersey; while the analysis of iodide was completed by ALS Laboratories (ALS) in Middletown Pennsylvania. Microbial Insights, Lawrenceville, and ALS in Middletown are not U.S. Department of Defense (DoD) accredited laboratories. The remaining listed analyses for the quarterly groundwater samples were performed by ALS in Houston, Texas. ALS in Houston Texas holds a current DoD Environmental Laboratory Accreditation Program (ELAP) certification version 5.3.

All analytical results from the March, May, August, and October 2020 quarterly groundwater monitoring events were reported by the off-site laboratories and received in sample delivery groups (SDGs). Appendix B-1 – Table 1 (provided at the end of this report) summarizes sample collection dates, sample numbers, sample locations, laboratories, sample types, sample matrix, analysis methods, and SDG numbers. Laboratory data packages for the four quarterly groundwater monitoring events are provided in Appendix B-2. Stage 2B data validation was performed for all analytical results obtained from the March, May, August, and October 2020 quarterly groundwater monitoring events.

The following QC elements were included in the Stage 2B data validation:

- Sample preservation and sample extraction and analysis holding times
- Laboratory method blanks
- Initial and continuing calibration blanks (metals and anions 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)
- Post digestion spike (PDS) recoveries (metals analysis only)
- Sample confirmation (EDB analysis only)
- Field blanks
- Field duplicates

The Stage 2B data validation was performed in accordance with the guidelines and control criteria

specified in the following documents:

- QAPP (Kirtland AFB, 2020)
- DoD Quality Systems Manual for Environmental Laboratories, Version 5.3 (2019)
- 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)
- USEPA Contract Laboratory Program, National Functional Guidelines for Organic Superfund Methods Data Review, Final (EPA, 2017a)
- USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Superfund Methods Data Review, Final (EPA, 2017b)
- DoD General Data Validation Guidelines (2018)

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 QAPP (USACE, 2020) and DoD Quality Systems Manual (QSM). When the acceptance criteria are not available in the QAPP 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 Stage 2B data validation findings. The discussion summarizes data quality exceedances and their potential impact on the quality and usability of analytical results. Appendix B-1 – Table 2 presents definitions of data qualification and reason codes applied to the analytical results. Appendix B-1 – Table 3 summarizes the qualified data. For informational purposes, qualified field QC data are also presented in this table.

1.1 Data Quality Outliers

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 laboratories and were held within the required 0 to 6 degrees Celsius, and when required, were chemically preserved in accordance with EPA and SM preservation requirements.

Sample holding times were evaluated by comparing the sample collection dates to the sample extraction and analysis dates. Extraction and analysis holding times were reviewed for all samples to determine the validity of the sample results. Holding time exceedances were reported for samples analyzed for VOCs, ortho-phosphate, nitrate and nitrite as nitrogen, and iodide. The affected sample numbers, analyses, holing time outliers, and holding time requirements are summarized below.

May 2020 Quarterly Groundwater Monitoring Event					
Sample Number	EPA Method	Analysis	Holding Time Outlier	Holding Time Requirement	Data Qualification
106064-LTM-051920	SM4500 PE	Ortho-phosphate	51 hours	48 hours	J-
106064-LTM-051920	SW9056A	Nitrate and Nitrite as Nitrogen	56 hours	48 hours	J-/UJ
106063-LTM-051920	SM4500 PE	Ortho-phosphate	51 hours	48 hours	UJ
106063-LTM-051920	SW9056A	Nitrate and Nitrite as Nitrogen	56 hours	48 hours	J-/UJ
106063-LTM-051920- FD	SM4500 PE	Ortho-phosphate	51 hours	48 hours	UJ
106063-LTM-051920- FD	SW9056A	Nitrate and Nitrite as Nitrogen	56 hours	48 hours	J-/UJ
106063-LTM-051920	300	lodide	49 days	28 days	J-

May 2020 Quarterly Gro	undwater Monito	ring Event			
Sample Number	EPA Method	Analysis	Holding Time Outlier	Holding Time Requirement	Data Qualification
106063-LTM-051920- FD	300	lodide	49 days	28 days	J-
TB-052020	SW8260C	VOCs	23 days	14 days	UJ
October 2020 Quarterly Groundwater Monitoring Event					
106MW2I-LTM-101420	SW9056A	Nitrate and Nitrite as Nitrogen	57.5 hours	48 hours	J-/UJ
106IN1-LTM-102820	365.3	Ortho-phosphate	52.5 hours	48 hours	J-
106IN1-LTM-102820	SW9056A	Nitrate and Nitrite as Nitrogen	71.5 hours	48 hours	J-/UJ

On May 19, 2020, four groundwater samples were collected and shipping to the laboratory. Due to a FedEx delivery delay, the coolers were not received by the laboratory until 2 days later. Upon sample receipt, the temperatures of the coolers were recorded by the laboratory at 2 degree Celsius and within the temperature preservation requirement and the samples contained within the coolers were received in good condition. However, the three listed samples for ortho-phosphate and nitrate and nitrite as nitrogen were received outside the holding time requirement. The laboratory analyzed the affected samples as soon as the samples were received. As a result of the holding time exceedances, the detected results of orthophosphate and nitrate and nitrate and nitrate as nitrogen in the affected samples were qualified as estimated (J-) and the non-detected results were qualified as estimated (UJ). The results of orthophosphate and nitrate anitrate and nitrate and nitrate and nitrate and nitrate ani

The original analysis of iodide in the listed primary sample and its duplicate was completed within the holding time requirement. During the data review process, it was observed that iodide in the primary sample was detected well above the limit of quantitation (LOQ) but not detected in the duplicate. As requested, the laboratory re-analyzed the duplicate pair after the samples were expired. The re-analysis indicated that the results of iodide the primary sample and its duplicate compared well, and were also consistent with the results reported from the previous sampling events. As a result of the holding time exceedance, the results of iodide from the re-analysis were qualified as estimated (J-) and are presented in this report.

Due to a laboratory oversight, one trip blank from the May 2020 quarterly groundwater monitoring event was not logged into the system for analysis. The trip blank was analyzed as soon as the login error was discovered, however the sample was analyzed after the holding time had expired. Due to the holding time exceedance, the results of the trip blank were qualified as estimated (UJ). The qualified data is considered usable as all other QC results associated with the trip blank met the accuracy, precision and calibration requirements.

The initial analysis of nitrate and nitrite as nitrogen in one groundwater sample (106MW2I-LTM-101420) from the October 2020 quarterly groundwater monitoring event was completed within the holding time requirement. Due to non-compliant calibration results, the sample was re-analyzed after the sample was expired. The results of nitrate and nitrite from the re-analysis were qualified as estimated (J-/UJ) and are reported in this report. With the exception of the holding time exceedance, all other QC results from the re-analysis met the acceptance criteria.

As a result of laboratory capacity issues, the analysis of ortho-phosphate and nitrate and nitrite as nitrogen in one groundwater sample (106IN1-LTM-102820) from the October sampling event was completed a few hours outside the holding time requirement. Consequently, the results of ortho-phosphate and nitrate and nitrite as nitrogen in the affected sample were qualified as estimated (J-/UJ). Ortho-phosphate and nitrate were detected in the sample and their reported concentrations were similar to the previously reported values.

In all cases, the holding time exceedances were within two times their respective holding time requirements. Since other QC results met the acceptance criteria, the qualified data is considered usable.

Except as noted above, the extraction and analysis holding time requirements were achieved for all other samples and for all other methods.

1.1.2 Laboratory Method Blanks (Reason Code B1)

The field sample results were evaluated with respect to the laboratory method blank prepared and analyzed for each analytical batch and for each analytical method. No target compounds were detected above the limit of detection in the laboratory method blanks for all analyses.

1.1.3 Initial and Continuing Calibration Blanks (Reason Code B2)

In addition to the laboratory method blanks for metals and anions analyses, initial and continuing calibration blank results were reviewed to ensure that the instrument was free of contamination prior to the analyses. All initial and continuing calibration blanks were free of metals and anions.

1.1.4 Surrogate Recoveries (Reason Code S)

Surrogate standards are organic compounds added to field and laboratory QC samples for organic analysis to evaluate the matrix effect and method performance on an individual sample basis. With the exception of one sample below, surrogates in all other samples analyzed for VOCs were recovered within the accuracy specifications. The following table presents the affected sample, non-compliant surrogate recovery and surrogate recovery control criteria.

October 2020 Quarterly Groundwater Monitoring Event				
EPA Method	Data Qualification			
SW8260C	106IN1-LTM-102820	4-bromofluorobenzene: 116	85-114	J+

VOC in the listed sample was analyzed at one-time and 25-time dilution factors. In the one-time dilution run, the surrogate 4-bromofluorobenzene was recovered marginally above the upper control limit; while the recoveries of the remaining surrogates 1,2-dichloroethane-d4, dibromofluoromethane, and toluene-d8 in the same sample were acceptable. As a result of the minor surrogate recovery exceedance, the detected VOC results from the one-time dilution run were qualified as estimated (J+). The high biased surrogate recovery did not affect the non-detected data and did not lead to any data qualification.

In the same sample, target compounds ethylbenzene, m, p-xylene, o-xylene and total xylenes were reanalyzed at a 25-time dilution factor in order to quantify the sample results within the instrument calibration range. The recoveries for all surrogates in the 25-time run met the acceptance criteria. The results ethylbenzene, m,p-xylene, o-xylene and total xylenes were not qualified and are reported in this report.

1.1.5 Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries and Precisions (Reason Codes L, D3, and D1)

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 LCS results met the bias and precision acceptance criteria for all batches and analyses.

1.1.6 Matrix Spike/Matrix Spike Duplicate Recoveries and Precisions and Post Digestion Spike Recoveries (Reason Codes M and D2)

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

In accordance with the site-specific QAPP requirements (Kirtland AFB, 2020), the MS/MSD samples are to be collected at a rate of 1 per 20 groundwater samples or 5%. During each quarterly monitoring event, one MS/MSD sample was collected thus achieving the 5% MS/MSD sample frequency. Although additional MS/MSD sample volumes were not provided to the laboratory, the laboratory performed MS/MSD analyses on site-specific samples to meet their internal QC frequency requirements and to verify the presence of a matrix effect and its potential impact on the precision and bias of the analytical results.

Well Location	Sample Number	MS/MSD Analysis		
March 2020 Quarterly Groundwater Monitoring Event				
KAFB-106064	106064-LTM-031120	Dissolved metals and dissolved ortho-phosphate		
KAFB-106MW2-I	106MW2I-LTM-031120	Dissolved gases		
KAFB-106MW1-S	106MW1S-LTM-031220	VOCs, total and dissolved metals, EDB, anions, and dissolved ortho-phosphate		
May 2020 Quarterly G	roundwater Monitoring Eve	ent		
KAFB-106064	106064-LTM-051920	EDB and dissolved gases		
KAFB-106MW1-S	106MW1S-LTM-052020	Fatty acids		
KAFB-106MW2-S	106MW2S-LTM-052020	VOCs, total and dissolved metals, EDB, anions, and dissolved ortho-phosphate		
August 2020 Quarter	y Groundwater Monitoring	Event		
KAFB-106IN1	106IN1-LTM-080420	Anions		
KAFB-106064	106064-LTM-080420	Dissolved gases and fatty acids		
KAFB-106063	106063-LTM-080420	Dissolved ortho-phosphate		
KAFB-106MW2-I	106MW2I-LTM-080520	VOCs, EDB, total and dissolved metals, anions, dissolved ortho-phosphate, and iodide		
KAFB-106EX2	106EX2-LTM-081220	Anions, dissolved gases and fatty acids		
October 2020 Quarter	ly Groundwater Monitoring	y Event		
KAFB-106MW1-I	106MW1I-LTM-101320	VOCs		
KAFB-106MW2-I	106MW2I-LTM-101420	VOCs, EDB, total and dissolved metals, anions, and dissolved ortho-phosphate, and iodide		
KAFB-106IN1	106IN1-LTM-102820	Dissolved metals and iodide		
KAFB-106064	106064-LTM-101420	Dissolved gases		
KAFB-106MW1-S	106MW1S-LTM-101320	Fatty acids		
KAFB-106EX1	106EX1-LTM-101520	Fatty acids		
KAFB-106IN1	106IN1-LTM-102820	Dissolved gases and fatty acids		

The following site-specific groundwater samples were spiked for MS/MSD analysis:

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

Analytical Method	Spiked Sample	MS Recovery Outlier (%)	Control Limit (%)	Data Qualification
March Quarterly	Groundwater Monitoring Event			
SW6020A	106064-LTM-031120	Manganese: 360/120	83-118	No qualification
SW8260C	106MW1S-LTM-031220	1,2,4-Trichlorobenzene: 66/82	69-120	UJ
		Benzene: 122/91	79-120	J+
	106MW1S-LTM-031220	Toluene: 137/84	80-121	No qualification
SW6020A	106MW1S-LTM-031220	Manganese, 984/1310	83-118	No qualificatiion
SW8011	106MW1S-LTM-031220	EDB: 98/174	60-140	No qualificaition
May Quarterly G	roundwater Monitoring Event			
SW8260C	106MW2S-LTM-052020	Benzene: 94/61	79-120	No Qualificaition
SW6020A	106MW2S-LTM-052020	Manganese: -233/-329	83-118	No qualificaition
August Quarterly	Groundwater Monitoring Even	t		
SW9056A	106EX2-LTM-081220	Chloride: 59/65	87-111	No qualification
SW9056A	106MW2I-LTM-080520	Chloride: 59/55	87-111	No qualification
SW6020A	106MW2I-LTM-080520	Manganese: 305/316	87-115	No qualification
SW8260C	106MW2I-LTM-080520	Ethylbenzene: 125/116	79-121	UJ
October Quarterly Groundwater Monitoring Event				
SW8260C	106MW1I-LTM-101320	4-isopropyltouene: 149/103	77-127	No qualification
		Benzene: 132/104	79-120	J+

Analytical Method	Spiked Sample	MS Recovery Outlier (%)	Control Limit (%)	Data Qualification
SW8260C	106MW1I-LTM-101320	Ethylbenzene: 145/70.5	79-121	No qualification
		Isopropyl benzene: 138/101	80-121	J+
		m,p-xylene: 132/116	80-121	J+
		Naphthalene: 144/166	61-128	J+
		n-butylbenzene: 141/125	75-128	J+
		n-propyl benzene: 149/125	76-126	J+
		o-xylene: 132/117	78-122	J+
		sec-butylbenzene: 148/128	77-126	J+
		Toluene: 133/123	80-121	J+
		Total xylenes: 132/116	78-122	J+
SW8260C	106MW2I-LTM-101420	Ethylbenzene: 122/118	79-121	J+
		Tert-butyl benzene: 124/126	78-124	J+
SW6020A	106MW2I-LTM-101420	Manganese: -173/-31	83-138	No qualification
SW9056A	106MW2I-LTM-101420	Chloride: 74/98.2	87-111	No qualification
SW6020A	106IN1-LTM-102820	Manganese: -690/618	83-138	No qualification

Due to the above MS/MSD recovery outliers, data qualification was applied to the detected results and non-detected results of the listed VOCs as estimated (J+) and (UJ), respectively. This data qualification was applied to the results of the VOCs in the spiked samples only.

For the August quarterly groundwater monitoring event, high biased MS recovery and trip blank detection were reported for one sample (106MW2I-LTM-080520). As a result of both QC exceedances, the positive result of ethylbenzene was qualified as non-detected with an overall qualifier (UJ). This data qualification was applied to the result of ethylbenzene in the spiked sample only.

In all cases, the degree of the MS recovery exceedances was small, and therefore the data usability of the qualified data is not affected. It should be noted that the LCS results associated with the non-complaint batches met the bias and precision control criteria, which demonstrated that acceptable batch bias and precision were achieved for all VOC samples in the batch.

High biased MS results were also reported for other VOCs for both August and October quarterly groundwater monitoring events. No data qualification was applied to any samples as the VOCs in the spiked samples were not detected and were not affected by the high biased MS/MSD recoveries.

In addition to above, the reported MS recoveries were outside the accuracy specifications for:

- Manganese in the spiked samples (106064-LTM-031120, 106MW1S-LTM-031220, 106MW2S-LTM-052020, 106MW2I-LTM-080520, 106MW2I-LTM-101420, and 106IN1-LTM-102820);
- Toluene in the spiked sample (106MW1S-LTM-031220);
- EDB in the spiked sample (106MW1S-LTM-031220);
- Benzene in the spiked sample (106MW2S-LTM-052020);
- 4-Isoproplybenzene in the spiked sample (106MW1I-LTM-101320);
- Ethylbenzene in the spiked sample (106MW1I-LTM-101320); and
- Chloride in the spiked samples (106EX2-LTM-081220, 106MW2I-LTM-080520, and 106MW2I-LTM-101420).

These non-compliant MS results could be attributed to a matrix effect. In the spiked samples, the parent

concentrations of manganese, EDB, VOCs, and chloride exceeded four times their respective spiked

levels. The elevated sample concentrations produced matrix interference, which affected the accuracy of

the MS analysis. Because the parent concentrations were greater than four times the spiked levels, no data

qualification was applied to the results of the manganese, EDB, listed VOCs, and chloride.

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

PDS analysis is performed when MS/MSD results for metals analysis are outside the established control range and when the parent sample concentrations are less than four times the spiked levels. The PDS data is used to further evaluate if matrix interference may introduce a bias in sample quantitation. PDS analysis was performed on the following site-specific groundwater samples:

Sampling Event	PDS Sample Number	PDS Analysis
March Quarterly Groundwater Monitoring	106064-LTM-031120	Dissolved metals
	106MW1S-LTM-031220	Total and dissolved metals
May Quarterly Groundwater Monitoring	106MW2S-LTM-052020	Total and dissolved metals
August Quarterly Groundwater Monitoring	106MW2I-LTM-080520	Dissolved metals
October Quarterly Groundwater Monitoring	106MW2I-LTM-101420	Dissolved metals
· · · · · · · · · · · · · · · · · · ·	106IN1-LTM-102820	Dissolved metals

The review indicated that the results of the PDS analysis met the established accuracy requirements for total and dissolved metals and for all the PDS samples.

1.1.7 Initial Calibration (Reason Code G)

Instrument calibration is performed for VOCs, EDB, metals, anions, dissolved gases, and fatty acids 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 were acceptable for all the listed analyses.

Immediately after the initial calibration for each analysis, initial calibration verification 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 initial calibration verification results for all target analytes.

1.1.8 Continuing Calibration Verification (Reason Code C)

Routinely during sample analysis, the stability of the analytical system is monitored by analysis of continuing calibration standards at concentrations near the mid-point of the instrument calibration range. The percent difference (%D) values between the relative response factor (RRF) in the initial calibration and the RRF in the continuing calibration met the continuing calibration requirements for VOCs, EDB, metals, anions, dissolved gases, and fatty acids analyses.

1.1.9 Interference Check Samples (Reason Code O)

The ICS verifies the inter-element and background correction factors. An ICS was analyzed at the required frequencies, and all ICS results were within the established control limit for EPA Method SW6020A for the Mach, May, August, and October 2020 quarterly groundwater monitoring events.

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. When the concentration of an analyte exceeds 50 times the method detection limit, an ICP

serial dilution is performed at a five-fold dilution and the results between the original analysis and the diluted analysis are compared. The results of the ICP serial dilution are deemed acceptable when a percent difference between the original analysis and the diluted analysis is less than or equal to 10%. ICP serial dilution analysis was performed on the quarterly groundwater samples listed below:

Sampling Event	ICP Serial Dilution Sample Number
March Quarterly Groundwater Monitoring	106064-LTM-031120
	106MW1S-LTM-031220
May Quarterly Groundwater Monitoring	106MW2S-LTM-052020
August Quarterly Groundwater Monitoring	106MW2I-LTM-080520
October Quarterly Groundwater Monitoring	106MW2I-LTM-101420
	106IN1-LTM-102820

The ICP serial dilution results met the accuracy requirement for total and dissolved metals and for the above listed 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 highperformance liquid chromatography method, all positive results, with the exception of total petroleum hydrocarbons as gasoline and diesel, must be confirmed by a second column or a different detector. As indicated in all SDGs for the March, May, August, and October 2020 quarterly groundwater monitoring events, all positive EDB results reported 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 exception:

Analytical Method	Sample Number	Primary/Secondary Column (ug/L)	RPD(%)	Control Limit (%)	Data Qualification						
August 2020 Qua	August 2020 Quarterly Groundwater Monitoring Event										
SW8011	106MW2S-LTM-080520	EDB: 0.024/0.045	68.8	40	J						

As shown above, EDB was detected above the LOQ in the primary column and its detection was confirmed by the secondary column; however the precision between the two columns was observed at 68.8% exceeding the precision control limit. As a result of the precision outlier, the result of EDB from the primary column was qualified as estimated (J) and reported in this report. The precision outlier did not affect the data usability as all other QC elements such as holding time, method blanks, LCS bias and precision, and calibration results were within their respective control criteria.

1.1.12 Trip Blanks (Reason Code K3)

Trip blanks were prepared by the laboratory and stored with the groundwater samples collected for VOCs analysis. In accordance with the site-specific QAPP requirements (Kirtland AFB, 2020), one trip blank is to be collected at a rate of one per cooler when sampling groundwater samples for VOCs analysis. With the exception of March 11, 2020, one trip blank was submitted with VOCs samples collected on each day during the March, May, August, and October 2020 quarterly monitoring events, which resulted in a total of eight trip blanks. Due to a field oversight, no trip blank was not shipped with the VOCs samples collected on March 11, 2020.

Appendix B-1 – Table 4 presents detected trip blank results and associated groundwater sample results. As shown on the table, VOC contaminants were reported in one trip blank. Specific contaminants in the blank, the detected levels, and the LOQs are summarized as follows:

August 2020 Quarter Groundwater Monitoring Event										
Analytical Method	Sample Number	Contaminant	Contaminant Level (ug/L)	LOQ (ug/L)	Data Qualification					
SW8260C	TB-080520	Ethylbenzene	0.69	1	UJ					
			Toluene	2	1	U				
		M,p-xylene	1.9	2	None					
		Total Xylenes	1.9	1	None					

As a result of the trip blank detections, the results of toluene in two groundwater samples were qualified as non-detected (U). In addition, due to a combination of non-compliant MS recovery discussed in the previous section and trip blank detections, the result of ethylbenzene in one groundwater sample was qualified as non-detected with an overall qualifier (UJ). This data qualification was applied to all groundwater samples shipped with the trip blank when the concentrations of target compounds in samples were less than or equal to five times (or ten times for common contaminants such as acetone and methylene chloride) the level observed in the trip blank. As presented on Appendix B-1 Table 4, results of ethylbenzene, toluene, m,p-xylene and total xylenes in all other samples were not affected by the trip blank detections as these VOCs were either not detected in samples or their concentrations in samples far exceeded five times the trip blank detections. With the exception of ethylbenzene, toluene, m,p-xylene and total xylenes in the trip blank (TB-080520), no other VOCs were detected in the blank. The remaining seven trip blanks collected from the March, May, August, and October quarterly groundwater monitoring events were free of VOCs and acceptable.

1.1.13 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.

In accordance with the site-specific QAPP requirements (Kirtland AFB, 2020), no equipment rinse blanks will be collected when dedicated or disposable sampling equipment is used to collect groundwater samples. When non-dedicated or non-disposable sampling equipment is used, one equipment rinse blank will be collected at a rate of one per day. During the March, May, August, and October 2020 quarterly groundwater monitoring events, dedicated sampling equipment was used to collect groundwater samples. As no cross-contamination between wells or samples could occur, no equipment rinse blanks were necessary in these cases.

1.1.14 Field Duplicates

In accordance with the site-specific QAPP requirements (Kirtland AFB, 2020), 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 at or above the LOQ.

One field duplicate pairs were collected during each of the quarterly groundwater monitoring event, thereby achieving the 10% of the field duplicate sample frequency requirement. The duplicate pairs were collected following the same sampling and preservation procedures and analyzed for the same analytical parameters as the associated parent samples. Appendix B-1 – Table 5 presents the field duplicate results from the March, May, August, and October 2020 quarterly groundwater monitoring. The field precision results are also summarized below:

Sampling Event	Well Location	Field RPD(%) for Detected Parameters
March Quarterly Groundwater Monitoring	KAFB-106064	0-14.81
May Quarterly Groundwater Monitoring	KAFB-106063	0-22.22
August Quarterly Groundwater Monitoring	KAFB-106IN1	0-19.96
October Quarterly Groundwater	KAFB-106MW1-S	0-26.95
Monitoring		

As indicated in Appendix B-1 - Table 5 and above, the field RPDs met the 35% precision goal for all 4 duplicate pairs and for all analyses. The field duplicate results demonstrate acceptable overall field sampling and analytical precisions for all methods.

1.2 Completeness

The following sections present a discussion of technical and holding time completeness for the March,

May, August, and October 2020 quarterly groundwater monitoring events. Completeness results are

calculated for project samples that will be used for project decisions. For information purposes, completes

results are also calculated for field QC samples. Completeness results for both project samples and field QC samples are presented in Appendix B-1 – Table 6.

1.2.1 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 established at equal to or greater than 90%. The technical completeness calculation considers all data that are not rejected to be usable. The technical completeness is calculated as follows:

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

Despite the exceedances discussed in the previous sections, all qualified data is still considered usable. The technical completeness was 100% for all methods exceeding the 90% technical completeness objective. Therefore, the project data quality objectives were achieved for all methods for the March, May, August, and October 2020 quarterly groundwater monitoring events.

1.2.2 Holding Time Completeness

Holding time completeness is a quantitative determination of the number of samples extracted and analyzed within their respective holding times to the total number of samples collected. The holding time completeness goal is 100% for each method. Holding time completeness is calculated as follows:

% Holding Time Completeness = Number of Holding Time Compliant Results × 100 Total Number of Results

The 100% holding time completeness objective was missed for the following methods:

- Ortho-phosphate by EPA Method 365.3: 95%
- Ortho-phosphate by SM4500 PE: 83.3%
- Anions by SW9056A: 94.7%

- Iodide by EPA Method 300: 94.7%
- VOCs by EPA Method SW8260C: 87.5% (trip blanks)

With the exceptions of above, the 100% holding time completeness objective was achieved for all other methods. As discussed in the previous sections, due to a FedEx delivery delay, laboratory login error, sample precision outlier, and capacity issues, the results of ortho-phosphate in four samples, and nitrate and nitrites nitrogen in five groundwater samples, iodide in two groundwater samples, and VOCs in one trip blank were analyzed outside their respective holding time requirements. The affected results were qualified as estimated, the data usability however is not affected.

1.3 Representativeness and Comparability

During sampling, samplers followed the approved site-specific QAPP requirements (Kirtland AFB, 2020) and established sampling SOPs to collect, preserve, document, and ship samples to off-site laboratories, thus ensuring the representativeness of the groundwater samples collected for the events.

From each groundwater monitoring well, VOCs samples were collected in three 40-milliliter (mL) volatile organic analysis (VOA) vials preserved with hydrochloric acid, and EDB samples by EPA Method SW8011 were stored in three 40-mL VOA vials preserved with ice only. Upon sample receipt, the laboratory reviewed sample conditions to ensure that sample containers, preservatives (when applicable), and requested analyses matched the chain-of-custody requirements. The laboratory also inspected VOA vials to verify the presence or absence of any headspace. As documented on the laboratory sample receipt form, a pea-size headspace was present in 2 VOC vials (106IN1-LTM-031220) and 1 VOC vial (106IN1-LTM-102820). Following EPA guidance and laboratory SOP requirements, the laboratory selected available vials without any headspace for the requested analysis to ensure that the reported data were representative. With the exception of these two VOC sample (106IN1-LTM-031220 and 106IN1-LTM-102820), all other VOA vials were free of headspace.

ALS in Houston is DoD ELAP certified and adhered to the most current EPA Method and SM requirements, project QAPP (Kirtland AFB, 2020), and DoD QSM (2019) requirements to prepare, analyze, and report the data. This ensures the comparability of the analytical results between different samples and different sampling events. The Stage 2B data validation was performed on 100% of the groundwater data to verify that the laboratories complied with the DoD QSM, project QAPP, and method requirements. Analytical results that were outside the established QC requirements were qualified and the data quality and usability were discussed in the previous sections. Based on a review of the completed sample collection logs, chain-of-custody forms, sample receipt forms, and laboratory data packages, the analytical data reported for the March, May, August, and October 2020 quarterly groundwater monitoring events has met the comparability requirements.

1.4 Summary

The analytical data reported for the four quarterly groundwater monitoring events have been reviewed for precision, bias, representativeness, comparability, and completeness. Data quality exceedances consisted of holding time outliers, non-compliant surrogate and MS/MSD recoveries, non-compliant precisions between primary and secondary columns, and low-level field blank contamination. The affected data were qualified as estimated or non-detected. The 90% technical completeness goal was exceeded for all methods for the March, May, August, and October 2020 quarterly groundwater monitoring events. All data are usable for their intended purposes.

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Appendix I-2 - Table 1.
Summary of Samples Collected, Sample Location, Sample Date, Analysis Method and SDG Number
March, May, August and October 2020 Groundwater Monitoring

			, way, <i>r</i>	l			FATTY				METALS,	1	
		Samplo			Purpose	BACTERIA	EDB	ACIDS	GASES	GEN CHEMISTRY	METALS	DISS	VOC
Event	Location	Sample Date	Sample ID	Matrix	Method	SOP	SW8011	EPA300	RKS175	SW9056A/SM2320B/EPA 300/EPA365.3/SM4500PE	SW6020A	SW6020A	SW8260C
					Lab	MI	ALS	APTIM	APTIM	ALS	ALS	ALS	ALS
March 2020	KAFB-106063	3/11/2020	106063-LTM-031120	WG	REG	057RC	HS20030521	9887	9887	HS20030521	HS20030521	HS20030521	HS20030521
March 2020	KAFB-106064	3/11/2020	106064-LTM-031120	WG	REG	057RC	HS20030521	9887	9887	HS20030521	HS20030521	HS20030521	HS20030521
March 2020	KAFB-106EX1	3/12/2020	106EX1-LTM-031220	WG	REG	057RC	HS20030586	9888	9888	HS20030586	HS20030586	HS20030586	HS20030586
March 2020	KAFB-106IN1	3/12/2020	106IN1-LTM-031220	WG	REG	057RC	HS20030586	9888	9888	HS20030586	HS20030586	HS20030586	HS20030586
March 2020	KAFB-106MW1-I	3/12/2020	106MW1I-LTM-031220	WG	REG	057RC	HS20030586	9888	9888	HS20030586	HS20030586	HS20030586	HS20030586
March 2020	KAFB-106MW1-S	3/12/2020	106MW1S-LTM-031220	WG	REG	057RC	HS20030586	9888	9888	HS20030586	HS20030586	HS20030586	HS20030586
March 2020	KAFB-106MW2-I	3/11/2020	106MW2I-LTM-031120	WG	REG	057RC	HS20030521	9887	9887	HS20030521	HS20030521	HS20030521	HS20030521
March 2020	KAFB-106MW2-S	3/11/2020	106MW2S-LTM-031120	WG	REG	057RC	HS20030521	9887	9887	HS20030521	HS20030521	HS20030521	HS20030521
March 2020	KAFB-106064	3/11/2020	106064-LTM-031120-FD	WG	FD	-	HS20030521	9887	9887	HS20030521	HS20030521	HS20030521	HS20030521
March 2020	FIELDQC	3/12/2020	TRIP BLANK-031220	WQ	TB	-	-	-	-	-	-	-	HS20030586
May 2020	KAFB-106063	5/19/2020	106063-LTM-051920	WG	REG	98_064RE	HS20050793	9897	9897	HS20050793	HS20050793	HS20050793	HS20050793
May 2020	KAFB-106064	5/19/2020	106064-LTM-051920	WG	REG	98_064RE	HS20050793	9897	9897	HS20050793	HS20050793	HS20050793	HS20050793
May 2020	KAFB-106EX1	5/20/2020	106EX1-LTM-052020	WG	REG	98_064RE	HS20050797	9898	9898	HS20050797	HS20050797	HS20050797	HS20050797
May 2020	KAFB-106IN1	5/19/2020	106IN1-LTM-051920	WG	REG	98_064RE	HS20050793	9897	9897	HS20050793	HS20050793	HS20050793	HS20050793
May 2020	KAFB-106MW1-I	5/19/2020	106MW1I-LTM-051920	WG	REG	98_064RE	HS20050793	9897	9897	HS20050793	HS20050793	HS20050793	HS20050793
May 2020	KAFB-106MW1-S	5/20/2020	106MW1S-LTM-052020	WG	REG	98_064RE	HS20050797	9898	9898	HS20050797	HS20050797	HS20050797	HS20050797
May 2020	KAFB-106MW2-I	5/20/2020	106MW2I-LTM-052020	WG	REG	98_064RE	HS20050797	9898	9898	HS20050797	HS20050797	HS20050797	HS20050797
May 2020	KAFB-106MW2-S	5/20/2020	106MW2S-LTM-052020	WG	REG	98_064RE	HS20050797	9898	9898	HS20050797	HS20050797	HS20050797	HS20050797
May 2020	KAFB-106063	5/19/2020	106063-LTM-051920-FD	WG	FD	-	HS20050793	9897	9897	HS20050793	HS20050793	HS20050793	HS20050793
May 2020	FIELDQC	5/20/2020	TB-052020	WQ	TB	-	-	-	-	-	-	-	HS20050797
May 2020	FIELDQC	5/19/2020	TB-0651920	WQ	TB	-	-	-	-	-	-	-	HS20050793
August 2020	KAFB-106063	8/4/2020	106063-LTM-080420	WG	REG	011RH	HS20080125	9906	9906	HS20080125	HS20080125	HS20080125	HS20080125
August 2020	KAFB-106064	8/4/2020	106064-LTM-080420	WG	REG	011RH	HS20080125	9906	9906	HS20080125	HS20080125	HS20080125	HS20080125
August 2020	KAFB-106EX1	8/4/2020	106EX1-LTM-080420	WG	REG	011RH	HS20080125	9906	9906	HS20080125	HS20080125	HS20080125	HS20080125
August 2020	KAFB-106EX2	8/12/2020	106EX2-LTM-081220	WG	REG	011RH	HS20080519	9909	9909	HS20080519	HS20080519	HS20080519	HS20080519
August 2020	KAFB-106IN1	8/4/2020	106IN1-LTM-080420	WG	REG	011RH	HS20080125	9906	9906	HS20080125	HS20080125	HS20080125	HS20080125
August 2020	KAFB-106MW1-I	8/5/2020	106MW1I-LTM-080520	WG	REG	011RH	HS20080198	9907	9907	HS20080198	HS20080198	HS20080198	HS20080198
August 2020	KAFB-106MW1-S	8/5/2020	106MW1S-LTM-080520	WG	REG	011RH	HS20080198	9907	9907	HS20080198	HS20080198	HS20080198	HS20080198
August 2020	KAFB-106MW2-I	8/5/2020	106MW2I-LTM-080520	WG	REG	011RH	HS20080198	9907	9907	HS20080198	HS20080198	HS20080198	HS20080198
August 2020	KAFB-106MW2-S	8/5/2020	106MW2S-LTM-080520	WG	REG	011RH	HS20080198	9907	9907	HS20080198	HS20080198	HS20080198	HS20080198
August 2020	KAFB-106IN1	8/4/2020	106IN1-LTM-080420-FD	WG	FD	-	HS20080125	9906	9906	HS20080125	HS20080125	HS20080125	HS20080125
August 2020	FIELDQC	8/4/2020	TB-080420	WQ	TB	-	-	-	-	-	-	-	HS20080125
August 2020	FIELDQC	8/5/2020	TB-080520	WQ	TB	-	-	-	-	-	-	-	HS20080198
August 2020	FIELDQC	8/12/2020	TB-081220	WQ	TB	-	-	-	-	-	-	-	HS20080519
October 2020	KAFB-106063	10/14/2020	106063-LTM-101420	WG	REG	051RJ	HS20100780	9914	9914	HS20100780	HS20100780	HS20100780	HS20100780
October 2020	KAFB-106064	10/14/2020	106064-LTM-101420	WG	REG	051RJ	HS20100780	9914	9914	HS20100780	HS20100780	HS20100780	HS20100780
October 2020	KAFB-106EX1	10/15/2020	106EX1-LTM-101520	WG	REG	051RJ	HS20100872	9915	9915	HS20100872	HS20100872	HS20100872	HS20100872
October 2020	KAFB-106EX2	10/15/2020	106EX2-LTM-101520	WG	REG	051RJ	HS20100872	9915	9915	HS20100872	HS20100872	HS20100872	HS20100872
October 2020	KAFB-106IN1	10/28/2020	106IN1-LTM-102820	WG	REG	051RJ	HS20101457	9916	9916	HS20101457	HS20101457	HS20101457	HS20101457
October 2020	KAFB-106MW1-I	10/13/2020	106MW1I-LTM-101320	WG	REG	051RJ	HS20100714	9914	9914	HS20100714	HS20100714	HS20100714	HS20100714

Appendix I-2 - Table 1. Summary of Samples Collected, Sample Location, Sample Date, Analysis Method and SDG Number March, May, August and October 2020 Groundwater Monitoring

Event Location		0			Purpose	BACTERIA	EDB	FATTY ACIDS	GASES	GEN CHEMISTRY	METALS	METALS, DISS	VOC
	Location	Sample Date	Sample ID	Matrix	Method	SOP	SW8011	EPA300	RKS175	SW9056A/SM2320B/EPA 300/EPA365.3/SM4500PE	SW6020A	SW6020A	SW8260C
					Lab	МІ	ALS	APTIM	APTIM	ALS	ALS	ALS	ALS
October 2020	KAFB-106MW1-S	10/13/2020	106MW1S-LTM-101320	WG	REG	051RJ	HS20100714	9914	9914	HS20100714	HS20100714	HS20100714	HS20100714
October 2020	KAFB-106MW2-I	10/14/2020	106MW2I-LTM-101420	WG	REG	051RJ	HS20100780	9914	9914	HS20100780	HS20100780	HS20100780	HS20100780
October 2020	KAFB-106MW2-S	10/14/2020	106MW2S-LTM-101420	WG	REG	051RJ	HS20100780	9914	9914	HS20100780	HS20100780	HS20100780	HS20100780
October 2020	KAFB-106MW1-S	10/13/2020	106MW1S-LTM-101320-FD	WG	FD	-	HS20100714	9914	9914	HS20100714	HS20100714	HS20100714	HS20100714
October 2020	FIELDQC	10/13/2020	TB-101320	WQ	TB	-	-	-	-	-	-	-	HS20100714
October 2020	FIELDQC	10/15/2020	TB-101420	WQ	TB	-	-	-	-	-	-	-	HS20100780
Materi													

Notes:

-: not applicable

ALS: ALS Environmental Laboratories, Inc

EDB: 1,2-dibromoethane

FD: Field duplicate

MI: Microbial Insights Laboratory

REG: regular sample

SDG: sample delivery group

SOP: standard operating procedure

TB: trip blank

VOC: volatile organic compound

WG: groundwater

WQ: water quality

Appendix I-2 – Table 2. Data Qualification Flags and Reason Codes

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 LOQ.
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 LOQ. However, the reported LOQ is approximate and may or may not represent the actual LOQ necessary to accurately and precisely measure the analyte in the sample.
X	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 Organic Data Review

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 LOQ 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 LOQ.
X	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 B-1 – Table 2. Data Qualification Flags and Reason Codes (concluded)

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.
С	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	LCSD 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.
0	Interference check sample outside acceptance criteria.
Р	Analyte qualified based on the professional judgment of the reviewer.
S	Surrogate recovery outside control limit.
Т	Temperature outside acceptance criteria.
Tr	Value reported detected between the detection limit and LOQ.
W	Pesticide breakdown outside criteria (Level IV).
Х	Raised reporting limit due to matrix interference or high analyte concentration.
Y	Analyte was not confirmed by a second column.

Reason Codes for Data Review and Validation

	Sample	Sample						
Sample ID	Туре	Date	Analyte	SDG	Result	LOQ	Units	Qualifier
Reason Code D		Method SV	V8011					
106MW2S-LTM-080520	REG	08/05/2020	1,2-DIBROMOETHANE	HS20080198	0.024	0.021	μg/L	J
Reason Code H		Method E3	00					
106063-LTM-051920-FD	FD	05/19/2020	IODIDE	2005546	7	0.20	mg/L	J-
106063-LTM-051920	REG	05/19/2020	IODIDE	2005546	7	0.20	mg/L	J-
Reason Code H		Method E3	65.3					
106IN1-LTM-102820	REG	10/28/2020	PHOSPHORUS	HS20101457	3.68	0.250	mg/L	J-
Reason Code H		Method SM	14500PE	•				
106063-LTM-051920	REG	05/19/2020	PHOSPHORUS	HS20050793	0.025	0.0500	mg/L	UJ
106063-LTM-051920-FD	FD	05/19/2020	PHOSPHORUS	HS20050793	0.025	0.0500	mg/L	UJ
Reason Code H, Tr	•	Method SM	14500PE			•		•
106064-LTM-051920	REG	05/19/2020	PHOSPHORUS	HS20050793	0.029	0.0500	mg/L	J-
Reason Code H		Method SV	V9056A					
106064-LTM-051920	REG	05/19/2020	NITROGEN, NITRATE-NITRITE	HS20050793	0.1	0.100	mg/L	UJ
106063-LTM-051920	REG	05/19/2020	NITROGEN, NITRATE-NITRITE	HS20050793	0.1	0.100	mg/L	UJ
106063-LTM-051920-FD	FD	05/19/2020	NITROGEN, NITRATE-NITRITE	HS20050793	0.1	0.100	mg/L	UJ
106MW2I-LTM-101420	REG	10/14/2020	NITROGEN, NITRATE-NITRITE	HS20100780	0.1	0.100	mg/L	UJ
106MW2I-LTM-101420	REG	10/14/2020	NITRATE	HS20100780	0.1	0.100	mg/L	UJ
106IN1-LTM-102820	REG	10/28/2020	NITROGEN, NITRATE-NITRITE	HS20101457	0.1	0.100	mg/L	UJ
Reason Code H, Tr		Method SV	V9056A					
106064-LTM-051920	REG	05/19/2020	NITRATE	HS20050793	0.0718	0.100	mg/L	J-
106063-LTM-051920	REG	05/19/2020	NITRATE	HS20050793	0.0668	0.100	mg/L	J-
106063-LTM-051920-FD	FD	05/19/2020	NITRATE	HS20050793	0.0656	0.100	mg/L	J-
106IN1-LTM-102820	REG	10/28/2020	NITRATE	HS20101457	0.052	0.100	mg/L	J-
Reason Code K3		Method SV	V8260C					
106MW2S-LTM-080520	REG	08/05/2020	TOLUENE	HS20080198	5	1.0	μg/L	U
106MW1I-LTM-080520	REG	08/05/2020		HS20080198	3.4	1.0	μg/L	U
Reason Code K3, M		Method SV						
106MW2I-LTM-080520	REG		ETHYLBENZENE	HS20080198	0.65	1.0	μg/L	UJ
Reason Code M		Method SV	V8260C					

	Sample	Sample						
Sample ID	Туре	Date	Analyte	SDG	Result	LOQ	Units	Qualifier
106MW1S-LTM-031220	REG	03/12/2020	BENZENE	HS20030586	5300	100	μg/L	J+
106MW1S-LTM-031220	REG	03/12/2020	1,2,4-TRICHLOROBENZENE	HS20030586	5	10	μg/L	UJ
106MW1I-LTM-101320	REG	10/13/2020	BENZENE	HS20100714	65	1.0	μg/L	J+
106MW1I-LTM-101320	REG	10/13/2020	NAPHTHALENE	HS20100714	18	1.0	μg/L	J+
106MW1I-LTM-101320	REG	10/13/2020	M,P-XYLENES	HS20100714	17	2.0	μg/L	J+
106MW1I-LTM-101320	REG	10/13/2020	O-XYLENE	HS20100714	11	1.0	μg/L	J+
106MW1I-LTM-101320	REG	10/13/2020	N-PROPYLBENZENE	HS20100714	23	1.0	μg/L	J+
106MW1I-LTM-101320	REG	10/13/2020	N-BUTYLBENZENE	HS20100714	8	1.0	μg/L	J+
106MW1I-LTM-101320	REG	10/13/2020	XYLENES	HS20100714	28	1.0	μg/L	J+
106MW1I-LTM-101320	REG	10/13/2020	TOLUENE	HS20100714	1.5	1.0	μg/L	J+
106MW1I-LTM-101320	REG	10/13/2020	SEC-BUTYLBENZENE	HS20100714	12	1.0	μg/L	J+
106MW1I-LTM-101320	REG	10/13/2020	ISOPROPYLBENZENE	HS20100714	70	1.0	μg/L	J+
106MW2I-LTM-101420	REG	10/14/2020	TERT-BUTYLBENZENE	HS20100780	1	1.0	μg/L	J+
106MW2I-LTM-101420	REG	10/14/2020	ETHYLBENZENE	HS20100780	7.6	1.0	μg/L	J+
Reason Code S		Method SV	V8260C					
106IN1-LTM-102820	REG	10/28/2020	N-PROPYLBENZENE	HS20101457	72	1.0	μg/L	J+
106IN1-LTM-102820	REG	10/28/2020	SEC-BUTYLBENZENE	HS20101457	12	1.0	μg/L	J+
106IN1-LTM-102820	REG	10/28/2020	P-ISOPROPYLTOLUENE	HS20101457	56	1.0	μg/L	J+
106IN1-LTM-102820	REG	10/28/2020	ACETONE	HS20101457	24	2.0	μg/L	J+
106IN1-LTM-102820	REG	10/28/2020	TOLUENE	HS20101457	5.2	1.0	μg/L	J+
106IN1-LTM-102820	REG	10/28/2020	ISOPROPYLBENZENE	HS20101457	110	1.0	μg/L	J+
106IN1-LTM-102820	REG	10/28/2020	2-BUTANONE	HS20101457	3.5	2.0	μg/L	J+
106IN1-LTM-102820	REG	10/28/2020	1,3,5-TRIMETHYLBENZENE	HS20101457	52	1.0	μg/L	J+
106IN1-LTM-102820	REG	10/28/2020	NAPHTHALENE	HS20101457	68	1.0	μg/L	J+
106IN1-LTM-102820	REG	10/28/2020	METHYL TERT-BUTYL ETHER	HS20101457	1.5	1.0	μg/L	J+

Notes:

Please see Appendix I-2, Table 2 for definitions of qualifiers and reason code

FD: field duplicate

LOQ: limit of quantitation

mg/L: milligrams per liter

REG: regular sample

SDG: sample delivery group

TB: trip blank

ug/L: micrograms per liter

	Sample	Sample						
Sample ID	Туре	Date	Analyte	SDG	Result	LOQ	Units	Qualifier
Reason Code	H	Method S	N8260C				•	
TB-052020	ТВ	05/20/2020	SEC-BUTYLBENZENE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	ACETONE	HS20050797	1	2.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	1,2-DICHLOROETHANE	HS20050797	0.5	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	TETRACHLOROETHENE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	N-PROPYLBENZENE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	CHLOROMETHANE	HS20050797	0.5	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	TERT-BUTYLBENZENE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	ETHYLBENZENE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	M,P-XYLENES	HS20050797	1	2.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	METHYLENE CHLORIDE	HS20050797	1	2.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	BENZENE	HS20050797	0.5	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	O-XYLENE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	2-CHLOROTOLUENE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	TOLUENE	HS20050797	0.5	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	P-ISOPROPYLTOLUENE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	1,1,2-TRICHLOROETHANE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	2-BUTANONE	HS20050797	1	2.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	2-HEXANONE	HS20050797	2	2.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	TRICHLOROFLUOROMETHANE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	VINYL CHLORIDE	HS20050797	0.5	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	N-BUTYLBENZENE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	XYLENES	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	TRICHLOROETHENE	HS20050797	0.5	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	METHYL TERT-BUTYL ETHER	HS20050797	0.5	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	1,3,5-TRIMETHYLBENZENE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	TRANS-1,2-DICHLOROETHENE	HS20050797	0.5	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	ISOPROPYLBENZENE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	CARBON DISULFIDE	HS20050797	1	2.0	μg/L	UJ

	Sample	Sample						
Sample ID	Туре	Date	Analyte	SDG	Result	LOQ	Units	Qualifier
TB-052020	ТВ	05/20/2020	DICHLORODIFLUOROMETHANE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	4-METHYL-2-PENTANONE	HS20050797	2	2.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	CIS-1,2-DICHLOROETHENE	HS20050797	0.5	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	NAPHTHALENE	HS20050797	1	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	1,2-DIBROMOETHANE	HS20050797	0.5	1.0	μg/L	UJ
TB-052020	ТВ	05/20/2020	1,2,4-TRICHLOROBENZENE	HS20050797	1	1.0	μg/L	UJ

Notes:

Please see Appendix I-2, Table 2 for definitions of qualifiers and reason code

FD: field duplicate

LOQ: limit of quantitation

mg/L: milligrams per liter

REG: regular sample

SDG: sample delivery group

TB: trip blank

ug/L: micrograms per liter

Appendix I-2 - Table 4.

Detected Trip Blank Results and Associated Sample Results March, May, August, and October 2020 Groundwater Monitoring

	Sample								Reason
Sample ID	Туре	Sample Date	Method	Analyte	Result	LOQ	Units	Qualifier	Code
TB-080520	ТВ	08/05/2020	SW8260C	ETHYLBENZENE	0.69	1.0	µg/L	J	Tr
106MW1I-LTM-080520	REG	08/05/2020	SW8260C	ETHYLBENZENE	520	10	µg/L		
106MW1S-LTM-080520	REG	08/05/2020	SW8260C	ETHYLBENZENE	1300	10	µg/L		
106MW2I-LTM-080520	REG	08/05/2020	SW8260C	ETHYLBENZENE	ND	1.0	µg/L	UJ	K3
106MW2S-LTM-080520	REG	08/05/2020	SW8260C	ETHYLBENZENE	590	25	µg/L		
TB-080520	ТВ	08/05/2020	SW8260C	TOLUENE	2	1.0	µg/L		
106MW1I-LTM-080520	REG	08/05/2020	SW8260C	TOLUENE	ND	1.0	µg/L	U	K3
106MW1S-LTM-080520	REG	08/05/2020	SW8260C	TOLUENE	4600	100	µg/L		
106MW2I-LTM-080520	REG	08/05/2020	SW8260C	TOLUENE	ND	1.0	µg/L	U	
106MW2S-LTM-080520	REG	08/05/2020	SW8260C	TOLUENE	ND	1.0	µg/L	U	K3
TB-080520	ТВ	08/05/2020	SW8260C	XYLENES	1.9	1.0	µg/L		
106MW1I-LTM-080520	REG	08/05/2020	SW8260C	XYLENES	640	10	µg/L		
106MW1S-LTM-080520	REG	08/05/2020	SW8260C	XYLENES	4500	10	µg/L		
106MW2I-LTM-080520	REG	08/05/2020	SW8260C	XYLENES	ND	1.0	µg/L	U	
106MW2S-LTM-080520	REG	08/05/2020	SW8260C	XYLENES	2000	25	µg/L		
TB-080520	ТВ	08/05/2020	SW8260C	M,P-XYLENES	1.9	2.0	µg/L	J	Tr
106MW1I-LTM-080520	REG	08/05/2020	SW8260C	M,P-XYLENES	400	20	µg/L		
106MW1S-LTM-080520	REG	08/05/2020	SW8260C	M,P-XYLENES	3100	20	µg/L		
106MW2I-LTM-080520	REG	08/05/2020	SW8260C	M,P-XYLENES	ND	2.0	µg/L	U	
106MW2S-LTM-080520	REG	08/05/2020	SW8260C	M,P-XYLENES	1300	50	µg/L		

Notes:

Please see Appendix I-2, Table 2 for definitions of qualifiers and reason codes.

ID: identifier

LOQ: limit of quantitation

ND: not detected

REG: regular sample

TB: trip blank

ug/L: micrograms per liter

			ocation Code			B-106063		
		Sa	mple Number					Relative
			Sample Date		20	05/19/2020		Percent
		Sar	nple Purpose			FD	Difference	
			Sample Type			WG		(%)
Test Group	Parameter	Units	Filtered	Result	VQ	Result	VQ	
EDB	1,2-DIBROMOETHANE	µg/L	Ν	0.01	U	0.01	U	NC
FATTY ACIDS	ACETIC ACID	mg/L	Ν	5.7	J	6.2	J	NC
	BUTYRIC ACID	mg/L	Ν	10	U	10	U	NC
	FORMIC ACID	mg/L	Ν	0.5	J	0.2	J	NC
	LACTIC ACID	mg/L	Ν	10	U	10	U	NC
	PROPIONIC ACID	mg/L	Ν	10	U	10	U	NC
	PYRUVIC ACID	mg/L	N	10	U	10	U	NC
	VALERIC ACID	mg/L	N	10	U	10	U	NC
GASES	ACETYLENE	µg/L	N	10	U	10	U	NC
	ETHANE	µg/L	N	1.5	J	1.4	J	NC
	ETHYLENE	µg/L	N	14.7		14.8		0.68
	METHANE	µg/L	N	7891.9		7565.4		4.22
	PROPANE	µg/L	N	0.9	J	1	J	NC
GENERAL	ALKALINITY, TOTAL	mg/L	N	566		569		0.53
CHEMISTRY	BROMIDE	mg/L	N	0.929		0.923		0.65
	CHLORIDE	mg/L	N	51.5		50.9		1.17
	IODIDE	mg/L	N	7	J-	7	J-	0.00
	NITRATE	mg/L	N	0.0668	J-	0.0656	J-	NC
	NITROGEN, NITRATE-NITRITE	mg/L	N	0.1	UJ	0.1	UJ	NC
	PHOSPHORUS	mg/L	Y	0.025	UJ	0.025	UJ	NC
	SULFATE	mg/L	Ν	0.5	U	0.5	U	NC
METALS	LEAD	mg/L	N	0.001	U	0.001	U	NC
METALS, DISS	IRON	mg/L	Y	6.41		6.75		5.17
	MANGANESE	mg/L	Y	6.07		6.62		8.67

		L	ocation Code		KAF	B-106063		
		Sa	mple Number	106063-LTM	-051920	106063-LTM-	051920-FD	Relative
			Sample Date		20	05/19/2	2020	Percent
			nple Purpose			FD		Difference
			Sample Type			WO		(%)
Test Group	Parameter	Units	Filtered	Result	VQ	Result	VQ	
VOLATILES	1,1,2-TRICHLOROETHANE	µg/L	Ν	10	U	10	U	NC
	1,2,4-TRICHLOROBENZENE	µg/L	Ν	10	U	10	U	NC
	1,2-DIBROMOETHANE	µg/L	Ν	5	U	5	U	NC
	1,2-DICHLOROETHANE	µg/L	Ν	5	U	5	U	NC
	1,3,5-TRIMETHYLBENZENE	µg/L	Ν	160		140		13.33
	2-BUTANONE	µg/L	Ν	10	U	10	U	NC
	2-CHLOROTOLUENE	µg/L	Ν	10	U	10	U	NC
	2-HEXANONE	µg/L	Ν	20	U	20	U	NC
	4-METHYL-2-PENTANONE	µg/L	Ν	84		83		1.20
	ACETONE	µg/L	Ν	10	U	10	U	NC
	BENZENE	µg/L	Ν	5200		5100		1.94
	CARBON DISULFIDE	µg/L	Ν	10	U	10	U	NC
	CHLOROMETHANE	µg/L	Ν	5	U	5	U	NC
	CIS-1,2-DICHLOROETHENE	µg/L	Ν	5	U	5	U	NC
	DICHLORODIFLUOROMETHANE	µg/L	Ν	10	U	10	U	NC
	ETHYLBENZENE	µg/L	Ν	1700		1600		6.06
	ISOPROPYLBENZENE	µg/L	Ν	200		180		10.53
	M,P-XYLENES	µg/L	N	3400		3000		12.50
	METHYL TERT-BUTYL ETHER	µg/L	N	5	U	5	U	NC
	METHYLENE CHLORIDE	µg/L	Ν	10	U	10	U	NC
	NAPHTHALENE	µg/L	Ν	150		120		22.22
	N-BUTYLBENZENE	µg/L	N	25	1	20		22.22
	N-PROPYLBENZENE	µg/L	Ν	150		130		14.29
	O-XYLENE	µg/L	Ν	1600		1400		13.33

			ocation Code mple Number			B-106063 106063-LTM-	051920-FD	Relative
			Sample Date			05/19/2020		Percent
		Sar	nple Purpose	REG		FD		Difference
			Sample Type		WG		ì	(%)
Test Group	Parameter	Units	Filtered	Result	VQ	Result	VQ	
VOLATILES	P-ISOPROPYLTOLUENE	µg/L	Ν	10	U	10	U	NC
	SEC-BUTYLBENZENE	µg/L	N	25		21		17.39
	TERT-BUTYLBENZENE	µg/L	N	10	U	10	U	NC
	TETRACHLOROETHENE	µg/L	N	10	U	10	U	NC
	TOLUENE	µg/L	N	18000		17000		5.71
	TRANS-1,2-DICHLOROETHENE	µg/L	N	5	U	5	U	NC
	TRICHLOROETHENE	µg/L	Ν	5	U	5	U	NC
	TRICHLOROFLUOROMETHANE	µg/L	N	10	U	10	U	NC
	VINYL CHLORIDE	µg/L	N	5	U	5	U	NC
	XYLENES	µg/L	N	4900		4500		8.51

Notes:

Please see Appendix I-2, Table 2 for definitions of qualifiers and reason codes

mg/L: milligrams per liter

µg/L: micrograms per liter

FD: field duplicate

N: not filtered

NC: Not calculated

REG: regular sample

VQ: validation qualifier

WG: groundwater

Y: filtered

Field precision is only calculated when the analyte concentration is reported at or above the limit of quantitation in both the primary and the duplicate sample

Precision formula = 100 x |Primary Result - Duplicate Result| / ((Primary Result + Duplicate Result) / 2)

			Location Code		KAF	B-106064		
			Sample Number	106064-LTM-	031120	106064-LTM-	031120-FD	Relative
			Sample Date	03/11/2020		03/11/2020		Percent
		Sample Purpose Sample Type		se REG		FD		Difference (%)
					WG		WG	
Test Group	Parameter	Units	Filtered	Result	VQ	Result	VQ	
EDB	1,2-DIBROMOETHANE	UG/L	Ν	0.01	U	0.01	U	NC
FATTY ACIDS	ACETIC ACID	MG/L	Ν	0.5	J	1	U	NC
	BUTYRIC ACID	MG/L	Ν	1	U	1	U	NC
	FORMIC ACID	MG/L	Ν	0.9	J	0.5	J	NC
	LACTIC ACID	MG/L	Ν	1.5	J	1.4	J	NC
	PROPIONIC ACID	MG/L	Ν	1	U	1	U	NC
	PYRUVIC ACID	MG/L	Ν	1	U	1	U	NC
	VALERIC ACID	MG/L	Ν	1	U	1	U	NC
GASES	ACETYLENE	UG/L	Ν	10	U	10	U	NC
	ETHANE	UG/L	Ν	1.5	J	1.7	J	NC
	ETHYLENE	UG/L	Ν	5	U	5	U	NC
	METHANE	UG/L	Ν	2626.3		2942.2		11.35
	PROPANE	UG/L	Ν	6	U	6	U	NC
GEN	ALKALINITY, TOTAL	MG/L	Ν	599		607		1.33
CHEMISTRY	BROMIDE	MG/L	Ν	0.832		0.837		0.60
	CHLORIDE	MG/L	Ν	49		48.1		1.85
	IODIDE	MG/L	Ν	4.1		3.8		7.59
	NITRATE	MG/L	Ν	0.0572	J	0.0758	J	NC
	NITROGEN, NITRATE-NITRITE	MG/L	N	0.1	U	0.1	U	NC
	PHOSPHORUS	MG/L	D	0.011	J	0.017	J	NC
	SULFATE	MG/L	N	0.5	U	0.5	U	NC
METALS	LEAD	MG/L	N	0.001	U	0.001	U	NC
METALS, DISS	IRON	MG/L	D	6.59		6.51		1.22
	MANGANESE	MG/L	D	6.4		6.17		3.66

			Location Code		KAF	B-106064		
			Sample Number	106064-LTM-(031120	106064-LTM-0	31120-FD	Relative Percent
			Sample Date	03/11/202	03/11/2020		03/11/2020	
			Sample Purpose		REG		FD	
		Sample Type				WG		(%)
Test Group	Parameter	Units	Filtered	Result	VQ	Result	VQ	
VOLATILES	1,1,2-TRICHLOROETHANE	UG/L	Ν	2.5	U	2.5	U	NC
	1,2,4-TRICHLOROBENZENE	UG/L	Ν	2.5	U	2.5	U	NC
	1,2-DIBROMOETHANE	UG/L	N	2.5	U	2.5	U	NC
	1,2-DICHLOROETHANE	UG/L	N	2.5	U	2.5	U	NC
	1,3,5-TRIMETHYLBENZENE	UG/L	Ν	110		110		0.00
	2-BUTANONE	UG/L	Ν	5	U	5	U	NC
	2-CHLOROTOLUENE	UG/L	Ν	2.5	U	2.5	U	NC
	2-HEXANONE	UG/L	Ν	5	U	5	U	NC
	4-METHYL-2-PENTANONE	UG/L	Ν	5	U	5	U	NC
	ACETONE	UG/L	N	5	U	5	U	NC
	BENZENE	UG/L	N	2800		2900		3.51
	CARBON DISULFIDE	UG/L	N	5	U	5	U	NC
	CHLOROMETHANE	UG/L	N	2.5	U	2.5	U	NC
	CIS-1,2-DICHLOROETHENE	UG/L	N	2.5	U	2.5	U	NC
	DICHLORODIFLUOROMETHANE	UG/L	N	2.5	U	2.5	U	NC
	ETHYLBENZENE	UG/L	N	1300		1300		0.00
	ISOPROPYLBENZENE	UG/L	Ν	160		160		0.00
	M,P-XYLENES	UG/L	N	2600		2700		3.77
	METHYL TERT-BUTYL ETHER	UG/L	N	2.5	U	2.5	U	NC
	METHYLENE CHLORIDE	UG/L	N	5	U	5	U	NC
	NAPHTHALENE	UG/L	N	89		100		11.64
	N-BUTYLBENZENE	UG/L	N	14		15		6.90
	N-PROPYLBENZENE	UG/L	N	100	1	100	1	0.00
	O-XYLENE	UG/L	N	1200	1	1200		0.00

			Location Code		KAFE	3-106064		
			Sample Number	106064-LTM-0	106064-LTM-031120		31120-FD	Relative
		Sample Date Sample Purpose		03/11/2020		03/11/2020		Percent
				REG		FD		Difference
			Sample Type	WG		WG		(%)
Test Group	Parameter	Units	Filtered	Result	VQ	Result	VQ	
VOLATILES	P-ISOPROPYLTOLUENE	UG/L	Ν	2.5	U	2.5	U	NC
	SEC-BUTYLBENZENE	UG/L	Ν	15		17		12.50
	TERT-BUTYLBENZENE	UG/L	Ν	2.5	U	2.5	U	NC
	TETRACHLOROETHENE	UG/L	Ν	2.5	U	2.5	U	NC
	TOLUENE	UG/L	N	29		25		14.81
	TRANS-1,2-DICHLOROETHENE	UG/L	N	2.5	U	2.5	U	NC
	TRICHLOROETHENE	UG/L	N	2.5	U	2.5	U	NC
	TRICHLOROFLUOROMETHANE	UG/L	N	2.5	U	2.5	U	NC
	VINYL CHLORIDE	UG/L	Ν	2.5	U	2.5	U	NC
	XYLENES	UG/L	Ν	3800		3900		2.60

Notes:

Please see Appendix I-2, Table 2 for definitions of qualifiers and reason codes

mg/L: milligrams per liter

µg/L: micrograms per liter

FD: field duplicate

N: not filtered

NC: Not calculated

REG: regular sample

VQ: validation qualifier

WG: groundwater

Y: filtered

Field precision is only calculated when the analyte concentration is reported at or above the limit of quantitation in both the primary and the duplicate sample

Precision formula = 100 x |Primary Result - Duplicate Result| / ((Primary Result + Duplicate Result) / 2)

		Lo	cation Code		KA	AFB-106IN1		
		San	ple Number	106IN1-L	TM-080420	106IN1-L	FM-080420-FD	Relative
			Sample Date			08/	Percent Difference	
			ple Purpose			FD		(%)
- 10			Sample Type				WG	
Test Group EDB	Parameter 1,2-DIBROMOETHANE	Units	Filtered	Result 0.011	VQ U	Result 0.01	VQ	NC
EDB FATTY ACIDS	ACETIC ACID	µg/L	N N	10	-	10	-	NC
FATTY ACIDS		mg/L		-	U		U	
		mg/L	N	10	U	10	U	NC
		mg/L	N	4.1	J	4.6	J	NC
		mg/L	N	10	U	10	U	NC
	PROPIONIC ACID	mg/L	Ν	10	U	10	U	NC
	PYRUVIC ACID	mg/L	Ν	10	U	10	U	NC
	VALERIC ACID	mg/L	Ν	10	U	10	U	NC
GASES	ACETYLENE	µg/L	Ν	10	U	10	U	NC
	ETHANE	µg/L	Ν	4	U	4	U	NC
	ETHYLENE	µg/L	Ν	5	U	5	U	NC
	METHANE	µg/L	Ν	4693.6		3841.8		19.96
	PROPANE	µg/L	Ν	6	U	6	U	NC
GENERAL	ALKALINITY, TOTAL	mg/L	N	2340		2290		2.16
CHEMISTRY	BROMIDE	mg/L	Ν	1.24		1.31		5.49
	CHLORIDE	mg/L	Ν	75.6		76.9		1.70
	IODIDE	mg/L	N	4.3		5.1		17.02
	NITRATE	mg/L	N	0.0479	J	0.0565	J	NC
	NITROGEN, NITRATE-NITRITE	mg/L	N	0.1	U	0.1	U	NC
	PHOSPHORUS	mg/L	Y	7.39		7.43		0.54
	SULFATE	mg/L	N	1.35		1.48		9.19
METALS	LEAD	mg/L	N	0.00446	J	0.0052		NC
METALS, DISS	IRON	mg/L	Y	5.45		4.6		16.92
METALS, DISS		mg/L	Y	6.3		5.51		13.38
VOLATILES	1,1,2-TRICHLOROETHANE	µg/L	N	5	U	5	U	NC
	1,2,4-TRICHLOROBENZENE	µg/L	N	5	U	5	U	NC

		Lo	cation Code		KA	FB-106IN1		
		Sam	ple Number	106IN1-LT	M-080420	106IN1-LT	M-080420-FD	Relative
		S	Sample Date			08/04	Percent Difference	
			ple Purpose			I	(%)	
Test	Demonster		ample Type				VG	(70)
Test Group VOLATILES	Parameter 1,2-DIBROMOETHANE	Units	Filtered N	Result 2.5	VQ U	Result 2.5	VQ	NC
VOLATILES	1,2-DICHLOROETHANE	µg/L	N	2.5	U	2.5	U	NC
	1,3,5-TRIMETHYLBENZENE	µg/L	N	35	0	37	0	5.56
	2-BUTANONE	µg/L	N	35 5	U	5	U	0.00 NC
	2-CHLOROTOLUENE	µg/L	N	5	U	5	U	NC
		µg/L			-		-	
		µg/L	N	10	U	10	U	NC
	4-METHYL-2-PENTANONE	µg/L	N	10	U	10	U	NC
	ACETONE	µg/L	N	38		41		7.59
	BENZENE	µg/L	N	760		780		2.60
	CARBON DISULFIDE	µg/L	Ν	5	U	5	U	NC
	CHLOROMETHANE	µg/L	Ν	2.5	U	2.5	U	NC
	CIS-1,2-DICHLOROETHENE	µg/L	Ν	2.5	U	2.5	U	NC
	DICHLORODIFLUOROMETHANE	µg/L	Ν	5	U	5	U	NC
	ETHYLBENZENE	µg/L	Ν	290		300		3.39
	ISOPROPYLBENZENE	µg/L	Ν	69		73		5.63
	M,P-XYLENES	µg/L	Ν	460		470		2.15
	METHYL TERT-BUTYL ETHER	µg/L	N	2.5	U	2.5	U	NC
	METHYLENE CHLORIDE	µg/L	N	5	U	5	U	NC
	NAPHTHALENE	µg/L	N	57		57		0.00
	N-BUTYLBENZENE	µg/L	N	5.4		5.9		8.85
	N-PROPYLBENZENE	µg/L	N	44		47		6.59
	O-XYLENE	µg/L	N	240		250		4.08
	P-ISOPROPYLTOLUENE	µg/L	N	33		36		8.70
	SEC-BUTYLBENZENE	µg/L	N	6.5		7	1	7.41
	TERT-BUTYLBENZENE	µg/L	N	5	U	5	U	NC
	TETRACHLOROETHENE	µg/L	N	5	U	5	U	NC

		Location Code Sample Number Sample Date						
				100IN 1-L 1 M-080420		106IN1-LTM-080420-FD 08/04/2020		Relative Percent Difference
		Sam	ple Purpose	Purpose REG		FD		(%)
			Sample Type		WG		WG	
Test Group	Parameter	Units	Filtered	Result	VQ	Result	VQ	
VOLATILES	TOLUENE	µg/L	Ν	6.1		6.3		3.23
	TRANS-1,2-DICHLOROETHENE	µg/L	N	2.5	U	2.5	U	NC
	TRICHLOROETHENE	µg/L	N	2.5	U	2.5	U	NC
	TRICHLOROFLUOROMETHANE	µg/L	Ν	5	U	5	U	NC
	VINYL CHLORIDE	µg/L	N	2.5	U	2.5	U	NC
	XYLENES	µg/L	Ν	710		730		2.78

Notes:

Please see Appendix I-2, Table 2 for definitions of qualifiers and reason codes

mg/L: milligrams per liter

µg/L: micrograms per liter

FD: field duplicate

N: not filtered

NC: Not calculated

REG: regular sample

VQ: validation qualifier

WG: groundwater

Y: filtered

Field precision is only calculated when the analyte concentration is reported at or above the limit of quantitation in both the primary and the duplicate sample

Precision formula = 100 x |Primary Result - Duplicate Result| / ((Primary Result + Duplicate Result) / 2)

		Location Code						
		Sar	nple Number	106MW1S-LTM-101320		106MW1S-LTM-101320-FD		Itolativo
		Sample Date Sample Purpose Sample Type		REG WG		10/13/2020 FD WG		Percent Difference (%)
Test Group	Parameter	Units	Filtered	Result	VQ	Result	VQ	
EDB	1,2-DIBROMOETHANE	µg/L	N	0.01		0.011	U	NC
FATTY ACIDS	ACETIC ACID	mg/L	Ν	10	U	10		NC
	BUTYRIC ACID	mg/L	Ν	10	U	10	U	NC
	FORMIC ACID	mg/L	Ν	1.6	J	2.05	J	NC
	LACTIC ACID	mg/L	Ν	0.6	J	1.08	J	NC
	PROPIONIC ACID	mg/L	Ν	10	U	10	U	NC
	PYRUVIC ACID	mg/L	N	10	U	10	U	NC
	VALERIC ACID	mg/L	Ν	10	U	10	U	NC
GASES	ACETYLENE	µg/L	N	10	U	10	U	NC
	ETHANE	µg/L	N	2.1		1.63		NC
	ETHYLENE	µg/L	N	2.9		2.19		NC
	METHANE	µg/L	N	3672		2800		26.95
	PROPANE	µg/L	N	2.9	J	2.37		NC
GENERAL	ALKALINITY, TOTAL	mg/L	N	484		482		0.41
CHEMISTRY	BROMIDE	mg/L	N	1.84		1.89		2.68
	CHLORIDE	mg/L	N	48.6		50.4		3.64
	IODIDE	mg/L	N	4.7		5		6.19
	NITRATE	mg/L	N	0.0764	J	0.531		NC
	NITROGEN, NITRATE-NITRITE	mg/L	N	0.1	U	0.1	U	NC
	PHOSPHORUS	mg/L	Y	0.012	J	0.025	U	NC
	SULFATE	mg/L	N	0.469	J	0.232	J	NC
METALS	LEAD	mg/L	N	0.001	U	0.001	U	NC
METALS, DISS	IRON	mg/L	Y	8.85		8		10.09
	MANGANESE	mg/L	Y	5.72		4.92		15.04

		Sample Date Sample Purpose Sample Type						
				10/13/2020 REG WG		106MW1S-LTM-101320-FD 10/13/2020 FD WG		Relative Percent Difference (%)
Test Group	Parameter	Units	Filtered	Result	VQ	Result	VQ	
VOLATILES	1,1,2-TRICHLOROETHANE	µg/L	Ν	10	U	5	U	NC
	1,2,4-TRICHLOROBENZENE	µg/L	Ν	10	U	10	U	NC
	1,2-DIBROMOETHANE	µg/L	Ν	5	U	5	U	NC
	1,2-DICHLOROETHANE	µg/L	Ν	5	U	5	U	NC
	1,3,5-TRIMETHYLBENZENE	µg/L	Ν	170		170		0.00
	2-BUTANONE	µg/L	Ν	10	U	10	U	NC
	2-CHLOROTOLUENE	µg/L	Ν	10	U	10	U	NC
	2-HEXANONE	µg/L	Ν	20	U	20	U	NC
	4-METHYL-2-PENTANONE	µg/L	Ν	20	U	20	U	NC
	ACETONE	µg/L	Ν	10	U	10	U	NC
	BENZENE	µg/L	Ν	2700		3100		13.79
	CARBON DISULFIDE	µg/L	Ν	20	U	20	U	NC
	CHLOROMETHANE	µg/L	Ν	5	U	5	U	NC
	CIS-1,2-DICHLOROETHENE	µg/L	Ν	5	U	5	U	NC
	DICHLORODIFLUOROMETHANE	µg/L	N	10	U	5	U	NC
	ETHYLBENZENE	µg/L	N	1200		1200		0.00
	ISOPROPYLBENZENE	µg/L	N	98		100		2.02
	M,P-XYLENES	µg/L	N	2900		2900		0.00
	METHYL TERT-BUTYL ETHER	µg/L	N	5	U	5	U	NC
	METHYLENE CHLORIDE	µg/L	Ν	10	U	10	U	NC
	NAPHTHALENE	µg/L	N	150		170		12.50
	N-BUTYLBENZENE	µg/L	Ν	10	U	39		NC
	N-PROPYLBENZENE	µg/L	Ν	100		100		0.00
	O-XYLENE	µg/L	Ν	1300		1300		0.00

		Location Code Sample Number						
				106MW1S-LTM-101320		106MW1S-LTM-101320-FD		Relative
		Sample Date		10/13/2020		10/13/2020		Percent
		Sample Purpose		REG		FD		Difference
		Sample Type		WG		WG		(%)
Test Group	Parameter	Units Filtered		Result	VQ	Result	VQ	
VOLATILES	P-ISOPROPYLTOLUENE	µg/L	Ν	5	U	10	U	NC
	SEC-BUTYLBENZENE	µg/L	Ν	22		22		0.00
	TERT-BUTYLBENZENE	µg/L	N	5	U	5	U	NC
	TETRACHLOROETHENE	µg/L	N	10	U	5	U	NC
	TOLUENE	µg/L	Ν	1000		1000		0.00
	TRANS-1,2-DICHLOROETHENE	µg/L	N	5	U	5	U	NC
	TRICHLOROETHENE	µg/L	N	5	U	5	U	NC
	TRICHLOROFLUOROMETHANE	µg/L	N	5	U	10	U	NC
	VINYL CHLORIDE	µg/L	N	5	U	5	U	NC
	XYLENES	µg/L	Ν	4200		4300		2.35

Notes:

Please see Appendix I-2, Table 2 for definitions of qualifiers and reason codes

mg/L: milligrams per liter

μg/L: micrograms per liter

FD: field duplicate

N: not filtered

NC: Not calculated

REG: regular sample

VQ: validation qualifier

WG: groundwater

Y: filtered

Field precision is only calculated when the analyte concentration is reported at or above the limit of quantitation in both the primary and the duplicate sample

Precision formula = 100 x |Primary Result - Duplicate Result| / ((Primary Result + Duplicate Result) / 2)

Appendix I-2 - Table 6. Technical and Holding Time Completeness March, May, August, and October 2020 Groundwater Monitoring

				Number	Number of	Technical	Holding Time
	Number	Number	Number	of	Noncompliant	Completeness	Completeness
Analytical	of	of	of	Useable	Holding Time	[Goal = 95%]	[Goal = 100%]
Method	Analytes	Samples	Results	Results	Results		
Environmental Samples							
E300	1	38	38	38	2	100.%	94.7%
E300M	7	38	266	266	0	100.%	100.%
E365.3	1	20	20	20	1	100.%	95.%
QUANTARRAY	29	34	986	986	0	100.%	100.%
RSK-175	5	38	190	190	0	100.%	100.%
SM2320B	1	38	38	38	0	100.%	100.%
SM4500PE	1	18	18	18	3	100.%	83.3%
SW6020A	1	38	38	38	0	100.%	100.%
SW6020A-DISS	2	38	76	76	0	100.%	100.%
SW8011	1	38	38	38	0	100.%	100.%
SW8260C	34	38	1292	1292	0	100.%	100.%
SW9056A	5	38	190	190	10	100.%	94.7%
Field QC Samples							
SW8260C	34	8	272	272	34	100	87.5%

Notes

Results in bold did not meet the completeness objective.

%: percent

QC: quality control

Prepared by CB&I Federal Services LLC 2440 Louisiana Blvd. NE, Suite 300 Albuquerque, NM 87110 Tel: +1 505 262 8800 Fax: +1 505 262 8855 www.CBl.com

February 6, 2017

Ms. Katrina Wheelock 377 MSG/CEIE 2050 Wyoming Blvd SE Kirtland Air Force Base, NM 87117-5270

Subject:Disposal of Soil Drill Cuttings from the Installation of Groundwater Monitoring
Well KAFB-106MW1, Kirtland AFB, New Mexico
USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Dear Ms. Wheelock:

CB&I is requesting permission to dispose of nonhazardous soil drill cuttings and plastic liners used in rolloff containers to the Kirtland Air Force Base (AFB) Construction and Demolition (C&D) debris landfill. The generation of and analyses performed on the soil drill cuttings are discussed below.

During January 2017, CB&I began installation on one nested groundwater monitoring well (KAFB-106MW1) for the Kirtland AFB Rapid Response Contract. KAFB-106MW1 is located in a undeveloped lot located just south of Randolph Avenue between Fuels Drive and the National Guard Building. The groundwater monitoring well was drilled using air rotary casing hammer drilling methods. Drill cuttings were containerized in plastic lined steel rolloffs pending laboratory analysis for waste characterization. Approximately 10 to 15 cubic yards of soil drill cuttings were generated for each 20-cubic yard rolloff container. Three rolloffs were sampled for KAFB-106MW1 and included in this letter.

The geologist collected a small amount of soil from each depth as the sediment exited the cyclone separator and was deposited in the rolloff; resulting in one composite sample for each rolloff. Three rolloffs were filled from KAFB-106MW1. The three composite samples were sent to Gulf Coast Analytical Laboratory for testing. The samples were analyzed for the required parameters per the Kirtland AFB Landfill Acceptance Memorandum (January 2009). The analytical results for the composite samples confirm that the drill cuttings are not considered to be hazardous waste and meet the requirements for disposal at the Kirtland C&D landfill.

CB&I requests your review of the attached analytical data and determination for disposal at Kirtland AFB C&D landfill. All three rolloff containers are owned by Advanced Chemical Transport and the numbers on the containers for disposal include –6607 (106MW1-IDW01), 0543 (106MW1-IDW02), and 0128 (106MW1-IDW03). Upon receiving notification of Kirtland AFB's acceptance of the soil and plastic, CB&I will coordinate transport of the rolloffs and disposal of the waste with Advanced Chemical Transport.

If you have any questions regarding this request, please contact me at (303) 486-2503. Thank you for your assistance.

Sincerely,

Cattlin Q. La Chune

Caitlin LaChance Geologist

Enclosures:

Empirical Laboratories, LLC Report No. 1701081 – Analytical Results for Drill Cuttings from Nested Groundwater Monitoring Well KAFB-106MW1 (106MW1-IDW01 through IDW03)

J1-2



9 February 2017

MEMORANDUM FOR: AFCEC/CZO

FROM: 377 MSG/CEIE (Solid Waste Program Manager)

SUBJECT: Landfill Disposal

Reference: CB&I Federal Services, LLC, letter dated: 6 February 2017 USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Disposal of Soil from the Installation of Groundwater Monitoring Well KAFB-106MW1, Kirtland AFB, New Mexico

1. Authorization is granted to CB&I to dispose of soil from the installation of groundwater monitoring well KAFB-106MW1, in support of the Bulk Fuels Facility project, at the Kirtland AFB construction and demolition landfill. Debris will be delivered to the landfill by Advanced Chemical Transport, and will be in three Advanced Chemical Transport roll-offs, numbered 6607, 0543, and 0128. Debris will consist of excavated soil and plastic liners from roll-offs. Lab results are on file in the Solid Waste Management office. CB&I shall be issued a Kirtland AFB landfill pass for this disposal action. A copy of this letter will accompany each roll-off and be left with the gate keeper at the landfill.

2. Please direct questions to me at 853-2486.

February 16, 2017

Ms. Katrina Wheelock 377 MSG/CEIE 2050 Wyoming Blvd SE Kirtland Air Force Base, NM 87117-5270

Subject:Disposal of Soil Drill Cuttings from the Installation of Groundwater Monitoring
Wells KAFB-106MW1 and KAFB-106MW2, Kirtland AFB, New Mexico
USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Dear Ms. Wheelock:

CB&I is requesting permission to dispose of nonhazardous soil drill cuttings and plastic liners used in rolloff containers to the Kirtland Air Force Base (AFB) Construction and Demolition (C&D) debris landfill. The generation of and analyses performed on the soil drill cuttings are discussed below.

During January 2017, CB&I began installation on two groundwater monitoring wells (KAFB-106MW1 and KAFB-106MW2) for the Kirtland AFB Rapid Response Contract. Both wells are located in an undeveloped lot located just south of Randolph Avenue between Fuels Drive and the National Guard Building. The groundwater monitoring wells were drilled using air rotary casing hammer drilling methods. Drill cuttings were containerized in plastic lined steel rolloffs pending laboratory analysis for waste characterization. Approximately 10 to 15 cubic yards of soil drill cuttings were generated for each 20-cubic yard rolloff container. One additional rolloff was sampled for KAFB-106MW1 and two rolloffs were sampled for KAFB-106MW2, and are included in this letter.

The geologist collected a small amount of soil from each depth as the sediment exited the cyclone separator and was deposited in the rolloff; resulting in one composite sample for each rolloff. One additional rolloff from KAFB-106MW1 and two rolloffs from KAFB-106MW2 were filled. The three composite samples were sent to Empirical Laboratories, LLC for testing. The samples were analyzed for the required parameters per the Kirtland AFB Landfill Acceptance Memorandum (January 2009). The analytical results for the composite samples confirm that the drill cuttings are not considered to be hazardous waste and meet the requirements for disposal at the Kirtland C&D landfill.

CB&I requests your review of the attached analytical data and determination for disposal at Kirtland AFB C&D landfill. All three rolloff containers are owned by Advanced Chemical Transport and the numbers on the containers for disposal include –9926 (106MW1-IDW04), 0129 (106MW2-IDW01), and 9823 (106MW2-IDW02). Upon receiving notification of Kirtland AFB's acceptance of the soil and plastic, CB&I will coordinate transport of the rolloffs and disposal of the waste with Advanced Chemical Transport.

2

Sincerely,

Cattin Q. Xal have

Caitlin LaChance Geologist

Enclosures:

Empirical Laboratories, LLC Report No. 1701168 – Analytical Results for Drill Cuttings from Nested Groundwater Monitoring Wells KAFB-106MW1 (106MW1-IDW04) and KAFB-106MW2 (106MW2-IDW01 and IDW02)



23 February 2017

MEMORANDUM FOR: AFCEC/CZO

FROM: 377 MSG/CEIE (Solid Waste Program Manager)

SUBJECT: Landfill Disposal

Reference: CB&I Federal Services, LLC, letter dated: 16 February 2017 USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Disposal of Soil from the Installation of Groundwater Monitoring Wells KAFB-106MW1 and KAFB-106MW2, Kirtland AFB, New Mexico

1. Authorization is granted to CB&I to dispose of soil from the installation of groundwater monitoring well KAFB-106MW1 and KAFB-106MW2, in support of the Bulk Fuels Facility project, at the Kirtland AFB construction and demolition landfill. Debris will be delivered to the landfill by Advanced Chemical Transport, and will be in three Advanced Chemical Transport roll-offs, numbered 9926, 0129, and 9823. Debris will consist of excavated soil and plastic liners from roll-offs. Lab results are on file in the Solid Waste Management office. CB&I shall be issued a Kirtland AFB landfill pass for this disposal action. A copy of this letter will accompany each roll-off and be left with the gate keeper at the landfill.

2. Please direct questions to me at 853-2486.

February 21, 2017

Ms. Katrina Wheelock 377 MSG/CEIE 2050 Wyoming Blvd SE Kirtland Air Force Base, NM 87117-5270

Subject:Disposal of Soil Drill Cuttings from the Installation of Groundwater Monitoring
Well KAFB-106MW2, Kirtland AFB, New Mexico
USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Dear Ms. Wheelock:

CB&I is requesting permission to dispose of nonhazardous soil drill cuttings and plastic liners used in rolloff containers to the Kirtland Air Force Base (AFB) Construction and Demolition (C&D) debris landfill. The generation of and analyses performed on the soil drill cuttings are discussed below.

During January 2017, CB&I began installation on one groundwater monitoring well (KAFB-106MW2) for the Kirtland AFB Rapid Response Contract. KAFB-106MW2 is located in an undeveloped lot located just south of Randolph Avenue between Fuels Drive and the National Guard Building. The groundwater monitoring well was drilled using air rotary casing hammer drilling methods. Drill cuttings were containerized in plastic lined steel rolloffs pending laboratory analysis for waste characterization. Approximately 10 to 15 cubic yards of soil drill cuttings were generated and placed in each 20-cubic yard rolloff container. Two additional rolloffs were sampled for KAFB-106MW2 and are included in this letter.

The geologist collected a small amount of soil from each depth as the sediment exited the cyclone separator and was deposited in the rolloff; resulting in one composite sample for each rolloff. Two additional rolloffs from KAFB-106MW2 were filled. The two composite samples were sent to Empirical Laboratories, LLC for testing. The samples were analyzed for the required parameters per the Kirtland AFB Landfill Acceptance Memorandum (January 2009). The analytical results for the composite samples confirm that the drill cuttings are not hazardous waste and meet the requirements for disposal at the Kirtland C&D landfill.

CB&I requests your review of the attached analytical data and determination for disposal at Kirtland AFB C&D landfill. Both rolloff containers are owned by Advanced Chemical Transport and the numbers on the containers for disposal are: 0519 (106MW2-IDW03) and 9901 (106MW2-IDW04). Upon receiving notification of Kirtland AFB's acceptance of the soil and plastic, CB&I will coordinate transport of the rolloffs and disposal of the waste with Advanced Chemical Transport.

Sincerely,

Cattlin Q. La Chuue

Caitlin LaChance Geologist

Enclosures:

Empirical Laboratories, LLC Report No. 1701242 – Analytical Results for Drill Cuttings from Nested Groundwater Monitoring Well KAFB-106MW2 (106MW2-IDW03 and IDW04)

J1-8



23 February 2017

MEMORANDUM FOR: AFCEC/CZO

FROM: 377 MSG/CEIE (Solid Waste Program Manager)

SUBJECT: Landfill Disposal

Reference: CB&I Federal Services, LLC, letter dated: 21 February 2017 USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Disposal of Soil from the Installation of Groundwater Monitoring Well KAFB-106MW2, Kirtland AFB, New Mexico

1. Authorization is granted to CB&I to dispose of soil from the installation of groundwater monitoring well KAFB-106MW2, in support of the Bulk Fuels Facility project, at the Kirtland AFB construction and demolition landfill. Debris will be delivered to the landfill by Advanced Chemical Transport, and will be in two Advanced Chemical Transport roll-offs, numbered 0519 and 9901. Debris will consist of excavated soil and plastic liners from roll-offs. Lab results are on file in the Solid Waste Management office. CB&I shall be issued a Kirtland AFB landfill pass for this disposal action. A copy of this letter will accompany each roll-off and be left with the gate keeper at the landfill.

2. Please direct questions to me at 853-2486.

March 7, 2017

Ms. Katrina Wheelock 377 MSG/CEIE 2050 Wyoming Blvd SE Kirtland Air Force Base, NM 87117-5270

Subject:Disposal of Soil Drill Cuttings from the Installation of Groundwater Monitoring
Well KAFB-106MW2, Kirtland AFB, New Mexico
USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Dear Ms. Wheelock:

CB&I is requesting permission to dispose of nonhazardous soil drill cuttings and plastic liners used in rolloff containers to the Kirtland Air Force Base (AFB) Construction and Demolition (C&D) debris landfill. The generation of and analyses performed on the soil drill cuttings are discussed below.

During January 2017, CB&I began installation on groundwater monitoring well (KAFB-106MW2) for the Kirtland AFB Rapid Response Contract. KAFB-106MW2 is located in an undeveloped lot located just south of Randolph Avenue between Fuels Drive and the National Guard Building. The groundwater monitoring well was drilled using air rotary casing hammer drilling methods. Drill cuttings were containerized in plastic lined steel rolloffs pending laboratory analysis for waste characterization. Approximately 10 to 15 cubic yards of soil drill cuttings were generated and placed in each 20-cubic yard rolloff container. On February 14, 2017, two additional rolloffs were sampled for KAFB-106MW2 and are included in this letter.

The geologist collected a small amount of soil from each depth as the sediment exited the cyclone separator and was deposited in the rolloff; resulting in one composite sample for each rolloff. Two additional rolloffs from KAFB-106MW2 were filled. The two composite samples were sent to Empirical Laboratories, LLC for testing. Empirical Laboratories sent soil samples for total petroleum hydrocarbons – gasoline range organics to Microbac Laboratories for analysis, thus results are included in a separate laboratory report. The samples were analyzed for the required parameters per the Kirtland AFB Landfill Acceptance Memorandum (January 2009). The analytical results for the composite samples confirm that the drill cuttings are not hazardous waste and meet the requirements for disposal at the Kirtland C&D landfill.

CB&I requests your review of the attached analytical data and determination for disposal at Kirtland AFB C&D landfill. Both rolloff containers are owned by Advanced Chemical Transport and the numbers on the containers for disposal are: HTBIN1 (106MW2-IDW05) and 2057 (106MW2-IDW06). Upon receiving notification of Kirtland AFB's acceptance of the soil and plastic, CB&I will coordinate transport of the rolloffs and disposal of the waste with Advanced Chemical Transport.

Sincerely,

Cattin Q. N. have

Caitlin LaChance Geologist

Enclosures:

Empirical Laboratories, LLC Report No. 1702112 – Analytical Results for Drill Cuttings from Nested Groundwater Monitoring Well KAFB-106MW2 (106MW2-IDW05 and IDW06)

Microbac Laboratories Report No. L17021003 – Analytical Results for TPH-GRO Analysis for Drill Cutting from Nested Groundwater Monitoring Well KAFB-106MW2 (106MW2-IDW05 and IDW06)

J1-11



15 March 2017

MEMORANDUM FOR: AFCEC/CZO

FROM: 377 MSG/CEIE (Solid Waste Program Manager)

SUBJECT: Landfill Disposal

Reference: CB&I Federal Services, LLC, letter dated: 7 March 2017 USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Disposal of Soil from the Installation of Groundwater Monitoring Well KAFB-106MW2, Kirtland AFB, New Mexico

1. Authorization is granted to CB&I to dispose of soil from the installation of groundwater monitoring well KAFB-106MW2, in support of the Bulk Fuels Facility project, at the Kirtland AFB construction and demolition landfill. Debris will be delivered to the landfill by Advanced Chemical Transport, and will be in two Advanced Chemical Transport roll-offs, numbered HTBIN1 and 2057. Debris will consist of excavated soil and plastic liners from roll-offs. Lab results are on file in the Solid Waste Management office. CB&I shall be issued a Kirtland AFB landfill pass for this disposal action. A copy of this letter will accompany each roll-off and be left with the gate keeper at the landfill.

2. Please direct questions to me at 853-2486.

March 20, 2017

Ms. Katrina Wheelock 377 MSG/CEIE 2050 Wyoming Blvd SE Kirtland Air Force Base, NM 87117-5270

Subject: Disposal of Soil Drill Cuttings from the Installation of Groundwater Monitoring Well KAFB-106MW2 and Extraction Well KAFB-106EX2, Kirtland AFB, New Mexico USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Dear Ms. Wheelock:

CB&I is requesting permission to dispose of nonhazardous soil drill cuttings and plastic liners used in rolloff containers to the Kirtland Air Force Base (AFB) Construction and Demolition (C&D) debris landfill. The generation of and analyses performed on the soil drill cuttings are discussed below.

During January and February 2017, CB&I began installation on groundwater monitoring well KAFB-106MW2 and extraction well KAFB-106EX2 for the Kirtland AFB Rapid Response Contract. Both wells are located in an undeveloped lot located just south of Randolph Avenue between Fuels Drive and the Air National Guard Building. Both wells were drilled using air rotary casing hammer drilling methods. Drill cuttings were containerized in plastic lined steel rolloffs pending laboratory analysis for waste characterization. Approximately 10 to 15 cubic yards of soil drill cuttings were generated and placed in each 20-cubic yard rolloff container. On February 23, 2017, two additional rolloffs were sampled for KAFB-106MW2 and one rolloff was sampled for KAFB-106EX2; all three of which are included in this letter.

The geologist collected a small amount of soil from each depth as the sediment exited the cyclone separator and was deposited in the rolloff; resulting in one composite sample for each rolloff. Two additional rolloffs from KAFB-106MW2 and one rolloff from KAFB-106EX2 were filled. The three composite samples were sent to Empirical Laboratories, LLC for testing. The samples were analyzed for the required parameters per the Kirtland AFB Landfill Acceptance Memorandum (January 2009). The analytical results for the composite samples confirm that the drill cuttings are not hazardous waste and meet the requirements for disposal at the Kirtland C&D landfill.

CB&I requests your review of the attached analytical data and determination for disposal at Kirtland AFB C&D landfill. The three rolloff containers are owned by Advanced Chemical Transport and the numbers on the containers for disposal are: 20B-26 (106MW2-IDW07), HTBIN2 (106MW2-IDW08), and 0128 (106EX2-IDW01). Upon receiving notification of Kirtland AFB's acceptance of the soil and plastic, CB&I will coordinate transport of the rolloffs and disposal of the waste with Advanced Chemical Transport.

Sincerely,

attin Q Une

Caitlin LaChance Geologist

Enclosures:

Empirical Laboratories, LLC Report No. 1702210 – Analytical Results for Drill Cuttings from Nested Groundwater Monitoring Well KAFB-106MW2 (106MW2-IDW07 and IDW08) and Extraction Well KAFB-106EX2 (106EX2-IDW01)

IDW Soil Analytical Data Table for Samples 106MW2-IDW07, 106MW2-IDW08, and 106EX2-IDW01

J1-14



21 March 2017

MEMORANDUM FOR: AFCEC/CZO

FROM: 377 MSG/CEIE (Solid Waste Program Manager)

SUBJECT: Landfill Disposal

Reference: CB&I Federal Services, LLC, letter dated: 20 March 2017 USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Disposal of Soil Drill Cuttings from the Installation of Groundwater Monitoring Well KAFB-106MW2 and Extraction Well KAFB-106EX2, Kirtland AFB, New Mexico

1. Authorization is granted to CB&I to dispose of soil from the installation of groundwater monitoring well KAFB-106MW2 and extraction well KAFB-106EX2, in support of the Bulk Fuels Facility project, at the Kirtland AFB construction and demolition landfill. Debris will be delivered to the landfill by Advanced Chemical Transport, and will be in three Advanced Chemical Transport roll-offs, numbered 20B-26, HTBIN2, and 0128. Debris will consist of excavated soil and plastic liners from roll-offs. Lab results are on file in the Solid Waste Management office. CB&I shall be issued a Kirtland AFB landfill pass for this disposal action. A copy of this letter will accompany each roll-off and be left with the gate keeper at the landfill.

2. Please direct questions to me at 853-2486.

March 28, 2017

Ms. Katrina Wheelock 377 MSG/CEIE 2050 Wyoming Blvd SE Kirtland Air Force Base, NM 87117-5270

Subject: Disposal of Soil Drill Cuttings from the Installation of Extraction Well KAFB-106EX2, Kirtland AFB, New Mexico USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Dear Ms. Wheelock:

CB&I is requesting permission to dispose of nonhazardous soil drill cuttings and plastic liners used in rolloff containers to the Kirtland Air Force Base (AFB) Construction and Demolition (C&D) debris landfill. The generation of and analyses performed on the soil drill cuttings are discussed below.

During February 2017, CB&I began installation on extraction well KAFB-106EX2 for the Kirtland AFB Rapid Response Contract. KAFB-106EX2 is located in an undeveloped lot located just south of Randolph Avenue between Fuels Drive and the Air National Guard Building. The extraction well was drilled using air rotary casing hammer drilling methods. Drill cuttings were containerized in plastic lined steel rolloffs pending laboratory analysis for waste characterization. Approximately 10 to 15 cubic yards of soil drill cuttings were generated and placed in each 20-cubic yard rolloff container. On March 2, 2017, two additional rolloffs were sampled for KAFB-106EX2 and are included in this letter.

The geologist collected a small amount of soil from each depth as the sediment exited the cyclone separator and was deposited in the rolloff; resulting in one composite sample for each rolloff. Two additional rolloffs from KAFB-106EX2 were filled. The two composite samples were sent to Empirical Laboratories, LLC for testing. The samples were analyzed for the required parameters per the Kirtland AFB Landfill Acceptance Memorandum (January 2009). The analytical results for the composite samples confirm that the drill cuttings are not hazardous waste and meet the requirements for disposal at the Kirtland C&D landfill.

CB&I requests your review of the attached analytical data and determination for disposal at Kirtland AFB C&D landfill. The two rolloff containers are owned by Advanced Chemical Transport and the numbers on the containers for disposal are: 0543 (106EX2-IDW02) and 0607 (106EX2-IDW03). Upon receiving notification of Kirtland AFB's acceptance of the soil and plastic, CB&I will coordinate transport of the rolloffs and disposal of the waste with Advanced Chemical Transport.

2

Sincerely,

Cattlin Q. La Churre

Caitlin LaChance Geologist

Enclosures:

Empirical Laboratories, LLC Report No. 1703043 – Analytical Results for Drill Cuttings from Extraction Well KAFB-106EX2 (106EX2-IDW02 and 106EX2-IDW03)

IDW Soil Analytical Data Table for Samples 106EX2-IDW02 and 106EX2-IDW03



06 April 2017

MEMORANDUM FOR: AFCEC/CZO

FROM: 377 MSG/CEIE (Solid Waste Program Manager)

SUBJECT: Landfill Disposal

Reference: CB&I Federal Services, LLC, letter dated: 28 March 2017 USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Disposal of Soil Drill Cuttings from the Installation of Extraction Well KAFB-106EX2, Kirtland AFB, New Mexico

1. Authorization is granted to CB&I to dispose of soil from the installation of extraction well KAFB-106EX2, in support of the Bulk Fuels Facility project, at the Kirtland AFB construction and demolition landfill. Debris will be delivered to the landfill by Advanced Chemical Transport, and will be in two Advanced Chemical Transport roll-offs, numbered 0543 and 0607. Debris will consist of excavated soil and plastic liners from roll-offs. Lab results are on file in the Solid Waste Management office. CB&I shall be issued a Kirtland AFB landfill pass for this disposal action. A copy of this letter will accompany each roll-off and be left with the gate keeper at the landfill.

2. Please direct questions to me at 853-2486.

April 5, 2017

Ms. Katrina Wheelock 377 MSG/CEIE 2050 Wyoming Blvd SE Kirtland Air Force Base, NM 87117-5270

Subject: Disposal of Soil Drill Cuttings from the Installation of Extraction Well KAFB-106EX1, Kirtland AFB, New Mexico USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Dear Ms. Wheelock:

CB&I is requesting permission to dispose of nonhazardous soil drill cuttings and plastic liners used in rolloff containers to the Kirtland Air Force Base (AFB) Construction and Demolition (C&D) debris landfill. The generation of and analyses performed on the soil drill cuttings are discussed below.

During March 2017, CB&I began installation on extraction well KAFB-106EX1 for the Kirtland AFB Rapid Response Contract. KAFB-106EX1 is located in an undeveloped lot located just south of Randolph Avenue between Fuels Drive and the Air National Guard Building. The extraction well was drilled using air rotary casing hammer drilling methods. Drill cuttings were containerized in plastic lined steel rolloffs pending laboratory analysis for waste characterization. Approximately 10 to 15 cubic yards of soil drill cuttings were generated and placed in each 20-cubic yard rolloff container. On March 13, 2017, four rolloffs were sampled for KAFB-106EX1 and are included in this letter.

The geologist collected a small amount of soil from each depth as the sediment exited the cyclone separator and was deposited in the rolloff; resulting in one composite sample for each rolloff. Four rolloffs from KAFB-106EX1 were filled. The four composite samples were sent to Empirical Laboratories, LLC for testing. The samples were analyzed for the required parameters per the Kirtland AFB Landfill Acceptance Memorandum (January 2009). The analytical results for the composite samples confirm that the drill cuttings are not hazardous waste and meet the requirements for disposal at the Kirtland C&D landfill.

CB&I requests your review of the attached analytical data and determination for disposal at Kirtland AFB C&D landfill. The four rolloff containers are owned by Advanced Chemical Transport and the numbers on the containers for disposal are: 9901 (106EX1-IDW01), 9823 (106EX1-IDW02), 0129 (106EX1-IDW03), and 9926 (106EX1-IDW04). Upon receiving notification of Kirtland AFB's acceptance of the soil and plastic, CB&I will coordinate transport of the rolloffs and disposal of the waste with Advanced Chemical Transport.

Sincerely,

Cattlin Q. La Churre

Caitlin LaChance Geologist

Enclosures:

Empirical Laboratories, LLC Report No. 1703136 – Analytical Results for Drill Cuttings from Extraction Well KAFB-106EX1 (106EX1-IDW01 through 106EX1-IDW04)

IDW Soil Analytical Data Table for Samples 106EX1-IDW01 through 106EX1-IDW04



06 April 2017

MEMORANDUM FOR: AFCEC/CZO

FROM: 377 MSG/CEIE (Solid Waste Program Manager)

SUBJECT: Landfill Disposal

Reference: CB&I Federal Services, LLC, letter dated: 5 April 2017 USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Disposal of Soil Drill Cuttings from the Installation of Extraction Well KAFB-106EX1, Kirtland AFB, New Mexico

1. Authorization is granted to CB&I to dispose of soil from the installation of extraction well KAFB-106EX1, in support of the Bulk Fuels Facility project, at the Kirtland AFB construction and demolition landfill. Debris will be delivered to the landfill by Advanced Chemical Transport, and will be in four Advanced Chemical Transport roll-offs, numbered 9901, 9823, 0129, and 9926. Debris will consist of excavated soil and plastic liners from roll-offs. Lab results are on file in the Solid Waste Management office. CB&I shall be issued a Kirtland AFB landfill pass for this disposal action. A copy of this letter will accompany each roll-off and be left with the gate keeper at the landfill.

2. Please direct questions to me at 853-2486.

April 12, 2017

Ms. Katrina Wheelock 377 MSG/CEIE 2050 Wyoming Blvd SE Kirtland Air Force Base, NM 87117-5270

Subject: Disposal of Soil Drill Cuttings from the Installation of Injection Well KAFB-106IN1, Kirtland AFB, New Mexico USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Dear Ms. Wheelock:

CB&I is requesting permission to dispose of nonhazardous soil drill cuttings and plastic liners used in rolloff containers to the Kirtland Air Force Base (AFB) Construction and Demolition (C&D) debris landfill. The generation of and analyses performed on the soil drill cuttings are discussed below.

During March 2017, CB&I began installation on injection well KAFB-106IN1 for the Kirtland AFB Rapid Response Contract. KAFB-106IN1 is located in an undeveloped lot located just south of Randolph Avenue between Fuels Drive and the Air National Guard Building. The injection well was drilled using air rotary casing hammer drilling methods. Drill cuttings were containerized in plastic lined steel rolloffs pending laboratory analysis for waste characterization. Approximately 10 to 15 cubic yards of soil drill cuttings were generated and placed in each 20-cubic yard rolloff container. On March 20, 2017, four rolloffs were sampled for KAFB-106IN1 and are included in this letter.

The geologist collected a small amount of soil from each depth as the sediment exited the cyclone separator and was deposited in the rolloff; resulting in one composite sample for each rolloff. Four rolloffs from KAFB-106IN1 were filled. The four composite samples were sent to Empirical Laboratories, LLC for testing. The samples were analyzed for the required parameters per the Kirtland AFB Landfill Acceptance Memorandum (January 2009). The analytical results for the composite samples confirm that the drill cuttings are not hazardous waste and meet the requirements for disposal at the Kirtland C&D landfill.

CB&I requests your review of the attached analytical data and determination for disposal at Kirtland AFB C&D landfill. The four rolloff containers are owned by Advanced Chemical Transport and the numbers on the containers for disposal are: 2082 (106IN1-IDW01), HTBIN1 (106IN1-IDW02), 2057 (106IN1-IDW03), and 9713 (106IN1-IDW04). Upon receiving notification of Kirtland AFB's acceptance of the soil and plastic, CB&I will coordinate transport of the rolloffs and disposal of the waste with Advanced Chemical Transport.

Sincerely,

Cattlin Q. La Churre

Caitlin LaChance Geologist

Enclosures:

Empirical Laboratories, LLC Report No. 1703187 – Analytical Results for Drill Cuttings from Injection Well KAFB-106IN1 (106IN1-IDW01 through 106IN1-IDW04)

IDW Soil Analytical Data Table for Samples 106IN1-IDW01 through 106IN1-IDW04



14 April 2017

MEMORANDUM FOR: AFCEC/CZO

FROM: 377 MSG/CEIE (Solid Waste Program Manager)

SUBJECT: Landfill Disposal

Reference: CB&I Federal Services, LLC, letter dated: 12 April 2017 USACE Contract No. W9128F-12-D-003, Delivery Order 0025

Disposal of Soil Drill Cuttings from the Installation of Injection Well KAFB-106IN1, Kirtland AFB, New Mexico

1. Authorization is granted to CB&I to dispose of soil from the installation of injection well KAFB-106IN1, in support of the Bulk Fuels Facility project, at the Kirtland AFB construction and demolition landfill. Debris will be delivered to the landfill by Advanced Chemical Transport, and will be in four Advanced Chemical Transport roll-offs, numbered 2082, HTNIB1, 2057, and 9713. Debris will consist of excavated soil and plastic liners from roll-offs. Lab results are on file in the Solid Waste Management office. CB&I shall be issued a Kirtland AFB landfill pass for this disposal action. A copy of this letter will accompany each roll-off and be left with the gate keeper at the landfill.

2. Please direct questions to me at 853-2486.

Prepared by CB&I Federal Services LLC

2440 Louisiana Blvd. NE, Suite 300 Albuquerque, NM 87110 Tel: +1 505 262 8800 Fax: +1 505 262 8855 www.CBl.com

February 9, 2017

Subject: Corrective Action Report for Accidental Soil Release Kirtland Air Force Base, New Mexico

This Corrective Action Report is submitted pursuant to the requirements specified in Section 1.27 of the Kirtland Air Force Base's (AFB) Hazardous Waste Treatment Facility Operating Permit, (Environmental Protection Agency [EPA] Identification Number NM9570024423) and Section 20.6.2.1203 of the New Mexico Administrative Code. This Report describes the release of semi-saturated soil to the ground surface, the corrective actions implemented, and discusses analytical results from the post-removal confirmation and characterization samples.

Background Information

Facility Owner:

Eric H. Froehlich, Colonel, USAF 377 ABW/CC 2000 Wyoming Boulevard SE Kirtland AFB NM 87117-5600

Facility Operator:

CB&I Federal Services, LLC

Kathleen Romalia, Project Manager; Tara Kunkel, Task Lead; and Bruce Burke, Construction Manager 2440 Louisiana Boulevard NE, Suite 300 Albuquerque, NM 87110 Phone: (505) 262-8800

Facility:

Construction Area, In situ Bioremediation Pilot Test, Kirtland AFB, New Mexico. The construction area is located just south of Randolph Road, between Fuels Drive and the National Guard Building in an undeveloped lot.

Description of Release

On January 25, 2017 at 12:30 p.m. approximately ¹/₄ to ¹/₂ cubic yards of semi-saturated soil was released to the ground surface at the Kirtland AFB in situ bioremediation pilot test construction area, located immediately south of Randolph Road. The spilled soil covered an area of approximately 30 inches wide by 10 feet long and 6 inches deep. Attachment 1 shows the pilot test area and location of the spilled soil. The spill was reported both verbally and in written format to the New Mexico Environment Department (NMED) Hazardous Waste Bureau within twenty-four hours.

While attempting to move a roll-off bin, the waste transportation and disposal company tipped up the front end of the bin and the semi-saturated soil spilled over the roll-off tailgate and onto the ground surface within the fenced construction area. The silt fence installed along the southern edge of the construction site stopped the spilled soil from migrating beyond the construction area fencing. Once the spill was noticed, the driver immediately lowered the roll-off bin so that it was parallel to ground surface.

The roll-off bin contained soil cuttings generated during drilling of groundwater monitoring well KAFB-106MW2 and Hydrosorb® polymer material (powdery solid) that was placed in the roll-off bin for the purpose of adsorbing free liquids in the saturated soil prior to disposal. The Safety Data Sheet for the Hydrosorb® is included as Attachment 2. Hydrosorb® is used as an industry standard material for the

purpose of dehydrating saturated soil and can be disposed of at any approved solid waste landfill as identified in Section XIII of the attached Safety Data Sheet. A waste characterization sample had been collected previously from the roll-off prior to the soil spill for disposal purposes; however, analytical results are still pending. The chemical composition of the soil cuttings at the time of the spill was unknown. The roll-off bin from which the spill occurred contained soil cuttings from the depth interval of 500 to 557 feet below ground surface. A subsequent characterization sample was collected from the roll-off bin and is discussed in the sections below.

Corrective Action

The spilled soil was removed from the ground surface using a vacuum truck and was placed back into the same lined roll-off bin. The exterior boundary of the spill area was identified and barricaded off. The native soil beneath the spill footprint was excavated to a depth of approximately 2 to 3 inches to ensure any impacted soil was removed. Excavated soil was containerized within the same roll-off. Photos of the spilled soil and cleaned up site are included in Attachment 3. The roll-off was further dehydrated by thoroughly mixing the semi-saturated cuttings with additional drying agents and a secondary internal linear was installed under the roll-off tarp prior to relocating the bin.

Three soil samples were collected using Encore® samplers on January 31, 2017 upon completion of excavation activities. Samples were collected from the following locations: 1) a characterization sample from the roll-off containing the spilled material, 2) a confirmation sample from the excavated spill footprint, and 3) a background sample located parallel to the spill site, outside of the fenced construction area. Attachment 1 shows the location of the confirmation and background samples. The purpose of the confirmation sample was to determine if all potentially impacted soil had been removed. A background soil sample was collected from a location outside of the construction area to determine if there are any existing constituents in the soil unrelated to the spilled soil. The soil samples were submitted to Empirical Laboratories LLC in Nashville, Tennessee for analysis of Volatile Organic Compounds (VOCs) (EPA Method SW8260), Semi-Volatile Organic Compounds (SVOCs) (EPA Method SW8270), and metals (iron, manganese, and lead) (EPA Method SW6010).

Analytical Results

Analytical results are provided in Attachment 4, which includes a summary analytical data table of detected analytes and the final laboratory report. Analytical results from the soil samples were compared to the NMED residential soil screening levels (SSLs) (NMED, 2015).

Roll-off Characterization Soil Sample

A representative soil sample was collected from the roll-off bin from which the spill occurred to characterize any potential constituents of concern. The spilled soil does not contain any constituents that exceed the NMED residential SSLs. Results are presented below.

- No VOCs were detected in the soil sample collected from the spilled soil.
- Two SVOCs, di-n-butylphthalate and bis(2-ethylhexyl)phthalate, were detected in the soil sample with concentrations of 0.379 mg/kg and 0.186 mg/kg, respectively. Both of these results were J-qualified and below NMED residential SSLs.
- Iron, lead, and manganese were all detected in the spilled soil sample with concentrations of 6,120, 2.29, and 109 mg/kg, respectively, which are below respective NMED residential SSLs.

Post-Removal Confirmation Soil Sample

One post-removal confirmation soil sample was collected in the center of the excavated spill footprint. The confirmation soil sample does not contain any constituents that exceed the NMED residential SSLs. Results are presented below.

• No VOCs were detected in the confirmation soil sample.

- Six SVOCs were detected in the confirmation sample: benzo(b)fluoranthene, di-n-butylphthalate, bis(2-ethylhexyl)phthalate, fluoranthene, phenanthrene, and pyrene. All detected SVOC results were J-qualified below NMED residential SSLs.
- Iron, lead, and manganese were all detected in the confirmation soil sample with concentrations of 7,590, 13.5, and 117 mg/kg, respectively, which are below respective NMED residential SSLs.

Background Soil Sample

One background soil sample was collected from a location outside of the fenced construction area, approximately 45 feet to the west of the confirmation sample location. The background soil sample does not contain any constituents that exceed the NMED residential SSLs. Results are presented below.

- No VOCs were detected in the background soil sample.
- Seven SVOCs were detected in the background soil sample: benzo(b)fluoranthene, chrysene, din-butylphthalate, bis(2-ethylhexyl)phthalate, fluoranthene, phenanthrene, and pyrene. All detected SVOC results were J-qualified, with the exception of bis(2-ethylhexyl)phthalate, which had no qualifier and was detected at a concentration of 0.685 mg/kg. All detected SVOC results were below NMED residential SSLs.
- Iron, lead, and manganese were all detected in the background soil sample with concentrations of 7,680, 16.5, and 125 mg/kg, respectively, which were below respective NMED residential SSLs.

Analytical Results Conclusions

Two SVOCs, di-n-butylphthalate and bis(2-ethylhexyl)phthalate, were detected with very low concentrations in all three soil samples. These SVOCs are commonly found in many plastic products such as disposable sample gloves, soil scoops, and laboratory equipment.

All detectable SVOCs in the post-removal confirmation soil sample were also detected in the background soil sample. Of the seven detected SVOCs, four are polynuclear aromatic hydrocarbons (PAHs): benzo(b)fluoranthene, chrysene, fluoranthene, and pyrene. Detectable concentrations of PAHs likely originated from an outside source that was not connected with the construction site, as they were not detected in the sample collected from the spilled soil. Randolph Road is located approximately 30 to 40 feet from the northern extent of the construction area. Prior to the initiation of construction activities the undeveloped lot was used as an overflow parking lot for the National Guard during weekend activities. Runoff from the asphalt road or from vehicle exhaust are the likely sources of PAH compounds in the background and confirmation soil samples.

Detected analytes in all samples were below NMED residential SSLs.

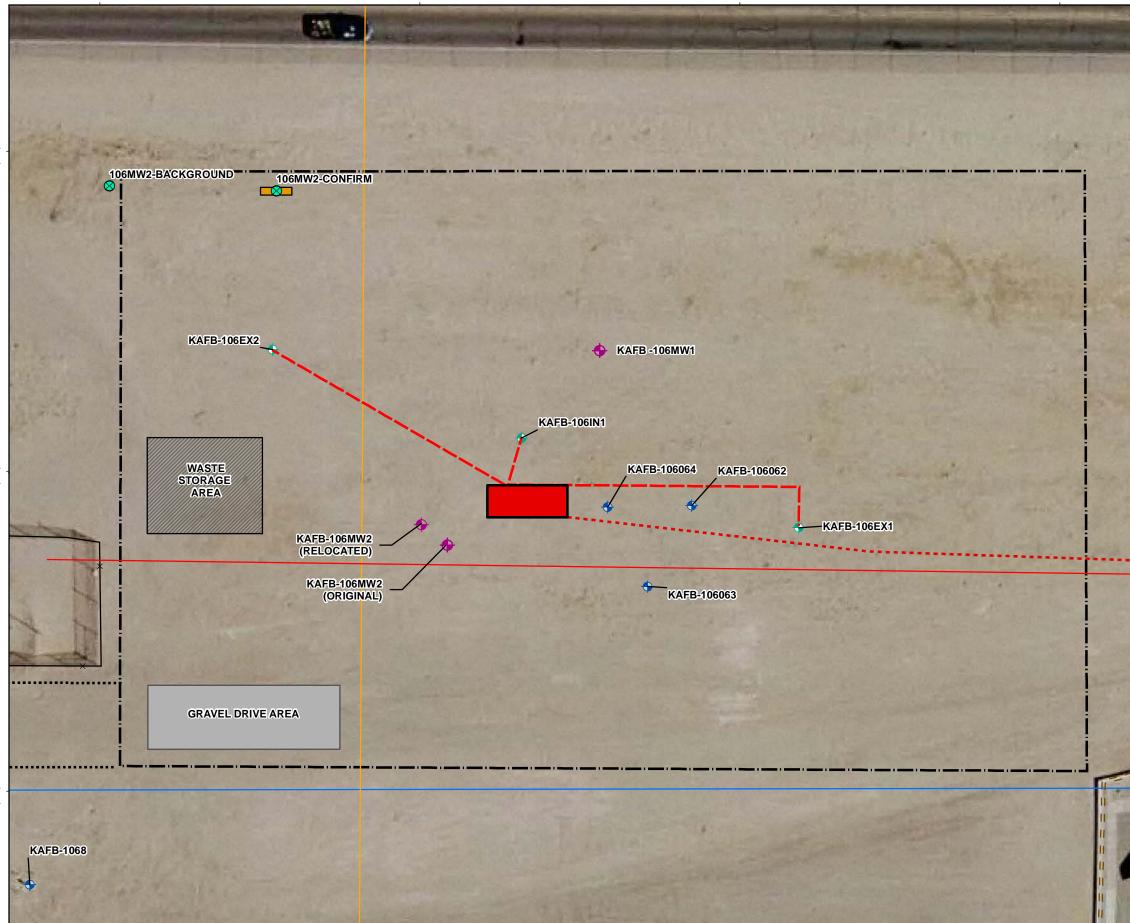
Proposed Actions to Further Prevent Discharges of this Nature

All roll-off bins containing saturated soil cuttings must be sufficiently "dewatered" using Hydrosorb® and allowed to stabilize, typically 2 to 3 days, prior to moving the roll-off bins. Additionally, Hydrosorb® will be placed in the roll-off bin prior to placement of saturated soil to begin immediate adsorption of the water once waste is placed in container.

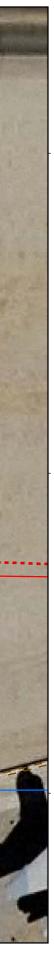
ATTACHMENT 1

Soil Spill and Characterization Sample Locations

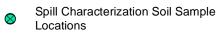
1,473,900



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Legend



• Monitoring Well

• Pilot Test Injection/Extraction Well

 \bullet Pilot Test Monitoring Well

Wall Line _ _

- Natural Gas Line

Wastewater Line

Water Line

Electrical Cable Line

Impacted Soil

Construction Fence Area

..... Truck Exit Route

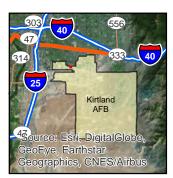
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Ν

Pilot Test Trench Location for
 Water Pipe and Subsurface Electrical

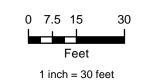
Pilot Test System Location

- Pilot Test Existing Electrical Tie-in
- •••••• Proposed Electrical Service Line



SITE LOCATION

Revision Date: 02/08/17



Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

ATTACHMENT 1

SOIL SPILL AND SAMPLE LOCATIONS

ATTACHMENT 2

Safety Data Sheet Hydrosorb®



M² Polymer Technologies, Inc.

PO Box 365 West Dundee, IL 60118 USA Tel. 847-836-1393 Fax. 847-836-6483

SAFETY DATA SHEET:	May	be	used	to	comply	with	OSHA's	Hazard	Communication	Standard,	29	CFR
	1910	.120	0. Sta	Inda	ard must	be coi	nsulted for	rspecific	requirements.			

EFFECTIVE DATE:

SECTION I CHEMICAL PRODUCT & SUPPLIER'S IDENTIFICATION

January 2, 2014

Product Name: Chemical Name: Waste Lock[®] 770 Sodium Polyacrylate, Crosslinked

M² Polymer Technologies, Inc. P.O. Box 365 West Dundee, IL 60118

Telephone Number for Information: 847/836-1393 Last Update : January 2, 2014

SECTION II

HAZARD IDENTIFICATION

Component Information/Information on Non-Hazardous Components

The components of this product are not regulated as hazardous under 29 CFR and 49 CFR. However, the manufacturer recognizes the potential for respiratory tract irritation as a result of inhalation of this material as a respirable dust. See Sections 8, 11, 14 and 15 for further information.

Emergency Overview

Sodium polyacrylate is a white, granular, odorless polymer that forms a gel-like material with water. It is insoluble in water and causes slippery conditions when wet. Although not regulated as a hazardous material, the respirable dust is a potential respiratory tract irritant. An eight-hour exposure limit of 0.05 mg/m³ is recommended.

Potential Health Effects - Eyes

Dust may cause burning, drying, itching and other discomfort resulting in reddening of the eyes.

Potential Health Effects - Skin

Dust exposure, such as in manufacturing, may aggravate existing skin conditions due to drying.

Potential Health Effects - Ingestion

Not a likely route of entry. Tests show that polyacrylate absorbents are non-toxic if ingested. However, as in the instance of any non-food consumption, seek medical attention in the event of any adverse symptoms.

Potential Health Effects - Inhalation

Respirable dust exposure may cause respiratory tract & lung irritation and may aggravate existing respiratory conditions.

HMIS Ratings: Health 1 Fire 1 Reactivity 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe *=Chronic Hazard

SECTION III COMPOSITION / INGREDIENT INFORMATION

CAS #	Component	Percent
09003-04-7	Sodium polyacrylate	>99 %
Not Available	Post Treated – Trade Secret	< 0.5 %

HMIS Ratings: Health 1 Fire 1 Reactivity 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe *=Chronic Hazard

SECTION IV FIRST AID MEASURES

First Aid - Eyes

Immediately flush eyes with water for at least 15 minutes.

First Aid - Skin

Remove polyacrylate absorbent dust from skin using soap and water.

First Aid - Ingestion

Non-toxic. However, if adverse symptoms appear, seek medical attention.

Firs Aid - Inhalation

If inhaled, move to source of fresh air. Seek medical attention if symptoms persist.

Page 1 of 4 (SDS Waste Lock® 770)

SECTION V

FIRE FIGHTING MEASURES

General Fire Hazards

No recognized fire hazards associated with the product.

Upper Flammable Limit (UFL):	NE
Lower Flammable Limit (LFL):	NE
Method Used:	None
Flash Point:	None
Flammability Classification:	None

Hazardous Combustion Products

None known. Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog. Slippery conditions are created if spilled products comes in contact with water.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus,

NFPA Ratings: Health=1 Fire=1 Reactivity=0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

ACCIDENTAL RELEASE MEASURES

Containment Procedures

Sweep or vacuum material when possible and shovel into a waste container.

Clean Up Procedures

SECTION VI

Use caution if product comes in contact with water as slippery conditions may result. Waste residual may be flushed down a drain with water for normal wastewater treatment. This is a non-hazardous waste suitable for disposal in any approved solid waste landfill.

Evacuation Procedures

None required.

Special Procedures

Avoid respirable dust. Wear a nuisance style dust mask if dusty conditions occur.

SECTION VII

HANDLING AND STORAGE

Handling Procedures

Handle as an eye and respiratory tract irritant.

Storage Procedures

Store in a dry, closed container.

SECTION VIII

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

I. General Product Information

- The product is not regulated as a hazardous material. There is however a potential for respiratory tract irritation and an eight-hour exposure limit of 0.05 mg/m³ is recommended.
- II. Component Exposure Limits No information is available.

Engineering Controls

Provide local exhaust ventilation to maintain exposure to < 0.05 mg/m³ over eight hours.

Personal Protective Equipment – Eyes & Face

Safety glasses with side shields or goggles.

Personal Protective Equipment – Skin

Use impervious gloves when handling the product in a manufacturing environment.

Personal Protective Equipment – Respiratory

Wear a nuisance style dust mask for mild dusty conditions or a high efficiency filter if particulate concentrations exceed 0.05 mg/m³.

Personal Protective Equipment – General

Follow normal safety precautions and maintain good housekeeping. Wash thoroughly after handling.

Page 2 of 4 (SDS Waste Lock[®] 770)

SECTION IX

PHYSICAL & CHEMICAL PROPERTIES

Appearance: Physical State: Vapor Pressure: Boiling Point: Solubility (H₂O): Evaporation Rate: White granular powder Solid <10 mm Hg N.A. Not soluble < 1.0

Odor: pH: Vapor Density: Melting Point: Specific Gravity: 0.4 to 0.7 g/cc

None 5.5 to 6.5 (1% in water) N.E. > 390°F (> 199°C)

CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability

SECTION X

Product is stabile. **Chemical Stability: Conditions to Avoid** None Incompatibility None **Hazardous Decomposition** None **Hazardous Polymerization** None

TOXICOLOGICAL INFORMATION

General Product Information

Acute inhalation of respirable dust may cause irritation of upper respiratory tract and lungs.

Acute Toxicity – LD50/LC50

Sodium polyacrylate (CAS 09003-04-7)

LD50: Oral Rat 40 grams/kilogram

Carcinogenicity

SECTION XI

None

Component Carcinogenicity

No information is available.

Chronic Toxicity

Chronic exposure to rats for a two-year lifetime using Sodium Polyacrylate that had been micronized to a respirable size (< 10 µm) produced non-specific inflammation and chronic lung injury at 0.2 mg/m³ and 0.8 mg/m³. Also at 0.8 mg/m³, tumors were seen in some test animals. In the absence of chronic inflammation, tumors are not expected. There were no adverse effects detected at 0.05 mg/m3.

Mutagenicity

Sodium polyacrylate had no effect in mutagencity tests.

SECTION XII

ECOLOGICAL INFORMATION

Ecotoxicity

General Product Information

Composted polyacrylate absorbents are nontoxic to aquatic or terrestrial organisms at predicted exposure levels from current application rates.

Component Analysis – Ecotoxicity & Aquatic Toxicity

No information available

Environmental Fate

Polyacrylate absorbents are largely inert in aerobic and anaerobic conditions. They are immobile in landfills and soils systems with the mobile fraction showing biodegradability. They are also compatible with incineration of municipal solid waste. Incidental drain disposal of small quantities of polyacrylate absorbents will not affect the performance of wastewater treatment systems.

SECTION XIII DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

General Product Information

Product is non-hazardous waste material suitable for approved solid waste landfills.

Component Waste Numbers

Page 3 of 4 (SDS Waste Lock[®] 770)

No EPA Waste Numbers are applicable for this product's components

Disposal Instructions

Dispose of in accordance with Local, State and Federal regulations.

SECTION XIV

TRANSPORTATION INFORMATION

International Transportation Regulations

The product is not transport regulated.

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REGULATORY INFORMATION

U.S. Federal Regulations General Product Information The product is not Federally regulated as a hazardous material. **Clean Air Act** No information available. **Component Analysis** No information available. Food & Drug Administration Code of Federal Regulations (CFR) references the following regulated components: Sodium Polyacrylate (CAS 09003-04-7) Direct Food Additives: 173.73, 173.310 Indirect Food Additives: 175.105 State Regulations **General Product Information** The product is not regulated by any State as a hazardous material. **Component Analysis - State** None of the components are listed on State lists from CA, FL, MA, MN, NJ or PA. Component Analysis – WHMIS IDL None of the components are listed in the WHMIS IDL. **Component Analysis - Inventory**

Component	CAS #	TSCA	CAN	EEC
Sodium Polyacrylate	09003-04-7	Yes	DSL	No

SECTION XVI

OTHER INFORMATION

Other Information

The information presented in this document is presented in good faith and is believed to be accurate as to the effective date given. However, no warranty, expressed or implied is given. It is the buy's responsibility to ensure that its activities comply with Federal, State or provincial and local laws.

ATTACHMENT 3

Photo Documentation



Photo 1. Site immediately after semi-saturated soil spilled, looking east.

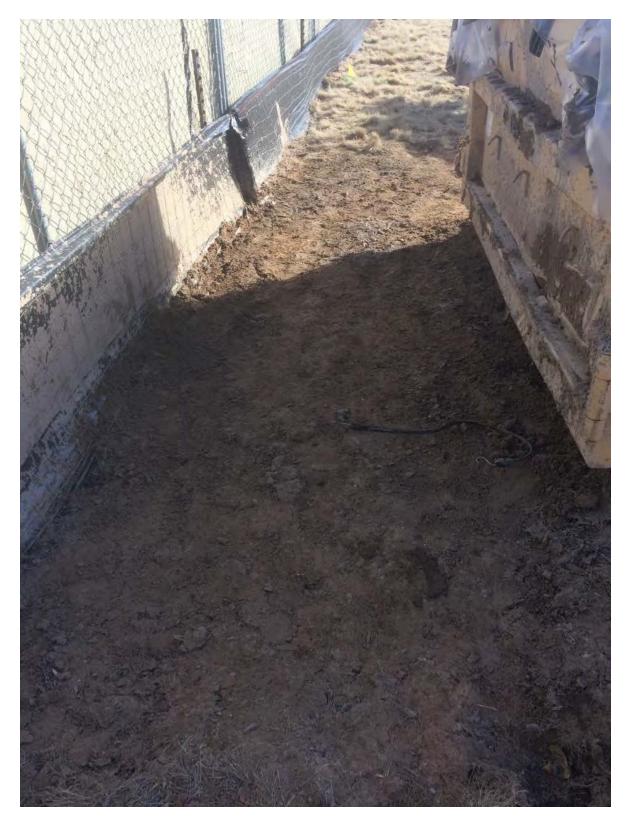


Photo 2. After soil spillage was cleaned up and native soil under spill removed, looking east.

ATTACHMENT 4

Analytical Results Summary Table and Laboratory Analytical Data Package

Attachment 4 - Detected Analytical Results

Allachment + - Delected Analy			1				1				1			
		Location Name		106MW2	-Rolloff			106MW	2-Confirm			106MW2-Bac	kground	
		Sample ID		170200	05-01			1702	005-02			1702005	-03	
		Sample Date		31-Ja	n-17			31-J	an-17			31-Jan-	17	
		Sample Purpose	Spill	ed Soil Charac	terization Sa	mple	Po	st-Removal Co	onfirmation Sa	mple	B	ackground Gro	und Sample	;
Chemical Class & Analytical Method	Parameter	NMED Residential Soil Screening Level	Result	Validation Qual.	DL	LOQ	Result	Validation Qual.	DL	LOQ	Result	Validation Qual.	DL	LOQ
SVOCs (mg/Kg), Method SW8270D	Di-n-butylphthalate	6,160	0.376	J	0.1	0.401	0.346	J	0.0871	0.348	0.333	J	0.0895	0.358
SVOCs (mg/Kg), Method SW8270D	Bis(2-ethylhexyl)phthalate	380	0.186	J	0.1	0.401	0.127	J	0.0871	0.348	0.685		0.0895	0.358
SVOCs (mg/Kg), Method SW8270D	Benzo(b)fluoranthene	1.53	ND	U	0.1	0.401	0.0895	J	0.0871	0.348	0.116	J	0.0895	0.358
SVOCs (mg/Kg), Method SW8270D	Flouranthene	2,320	ND	U	0.1	0.401	0.157	J	0.0871	0.348	0.175	J	0.0895	0.358
SVOCs (mg/Kg), Method SW8270D	Phenanthrene	1,740	ND	U	0.1	0.401	0.122	J	0.0871	0.348	0.125	J	0.0895	0.358
SVOCs (mg/Kg), Method SW8270D	Pyrene	1,740	ND	U	0.1	0.401	0.15	J	0.0871	0.348	0.176	J	0.0895	0.358
SVOCs (mg/Kg), Method SW8270D	Chrysene	153	ND	U	0.1	0.401	ND	U	0.0871	0.348	0.104	J	0.0895	0.358
Metals (mg/kg), Method SW6010C	Iron	54,800	6,120		6.64	22.1	7,590		4.86	16.2	7,680		5.4	18
Metals (mg/kg), Method SW6010C	Lead	400	2.29		0.332	1.11	13.5		0.243	0.811	16.5		0.27	0.9
Metals (mg/kg), Method SW6010C	Manganese	10,500	109		0.664	3.32	117		0.486	2.43	125		0.54	2.7

DL - detection limit

ID - Identification

J - Estimated value, concentration is less than the LOQ but greater than the DL

LOQ - limit of quantitation

mg/kg - milligrams per kilogram

ND - not detected

NMED - New Mexico Environment Department

SVOCs - Semi-volatile organic compounds

U - Analyte was not detected at a value exceeding the DL



621 Mainstream Drive, Suite 270 Nashville, TN 37228 615.345.1115 Phone 866.417.0548 Fax

08 February 2017

Susan Huang CB&I 4005 Port Chicago Highway Concord, CA 94520 RE: Kirtland Rapid Response (Laboratory WorkOrder # 1702005)

Enclosed are the results of analyses for samples received by the laboratory on 02/01/2017 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Data Qualifiers

As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

- **DL:** The detection limit (DL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The DL is supported by the method detection limit (MDL) which is determined from analysis of a sample containing the analyte in a given matrix.
- LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.
- LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM as the lowest concentration that produces a quantitative result within specified limits of precision and bias.
- *: Exceeding quality control criteria are associated with the reported result.
- **B:** The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.
- **D:** When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".
- E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound. For Metals, the qualifier indicates that the serial dilution was outside of the control limits and the compound should be considered estimated due to the presence of interference.
- H1: The result was analyzed outside of the EPA recommended holding time.
- H2: The result was extracted outside of the EPA recommended holding time
- H3: The sample for this analyte was received outside of the EPA recommended holding time .
- J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the LOQ. One should feel confident that the result is greater than zero and less than the LOQ.
- M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters DL/LOD/LOQ have been raised.
- N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.
- P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.
- Q: The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.
- S: The associated internal standard exceeded criteria.
- U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.
- X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.
- Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.
- Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

Client Sample ID: 106MW2-Rolloff

Sample Collection Date/Time: 01/31/2017 14:45 Sample Received Date/Time: 02/01/2017 09:30

Sample Matrix: Solid

Lab Sample ID: 1702005-01

Analyte	Result	DL	LOD	LOQ	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Paramete	rs									
% Solids	82	1.0	1.0	1.0	%	1	02/05/17 12:35	SM2540B	7B03416	
Volatile Organic Compounds b	by GC/MS									
Acetone	ND	6.33	12.7	25.3	ug/Kg dry	r 1	02/07/17 09:17	SW8260B	7B07001	U
Benzene	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Bromobenzene	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Bromochloromethane	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Bromodichloromethane	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Bromoform	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Bromomethane	ND	3.16	6.33	12.7	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
2-Butanone	ND	3.16	6.33	12.7	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
n-Butylbenzene	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
sec-Butylbenzene	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
tert-Butylbenzene	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Carbon disulfide	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Carbon tetrachloride	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Chlorobenzene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Chloroethane	ND	3.16	6.33	12.7	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Chloroform	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Chloromethane	ND	3.16	6.33	12.7	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
2-Chlorotoluene	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
4-Chlorotoluene	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Cyclohexane	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
1,2-Dibromo-3-chloropropane	ND	3.16	6.33	12.7	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Dibromochloromethane	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
1,2-Dibromoethane (EDB)	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Dibromomethane	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
1,2-Dichlorobenzene	ND	1.58	3.16		ug/Kg dry		02/07/17 09:17	SW8260B	7B07001	U
1,4-Dichlorobenzene	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
1,3-Dichlorobenzene	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
Dichlorodifluoromethane	ND	3.16	6.33	12.7	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
1,1-Dichloroethane	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
1,2-Dichloroethane	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
1,1-Dichloroethene	ND	1.58	3.16		ug/Kg dry		02/07/17 09:17	SW8260B	7B07001	U
cis-1,2-Dichloroethene	ND	1.58	3.16	6.33	ug/Kg dry	· 1	02/07/17 09:17	SW8260B	7B07001	U
trans-1,2-Dichloroethene	ND	1.58	3.16	6.33	ug/Kg dry	v 1	02/07/17 09:17	SW8260B	7B07001	U
1,2-Dichloropropane	ND	1.58	3.16		ug/Kg dry		02/07/17 09:17	SW8260B	7B07001	U
1,3-Dichloropropane	ND	1.58	3.16		ug/Kg dry		02/07/17 09:17	SW8260B	7B07001	U
2,2-Dichloropropane	ND	1.58	3.16		ug/Kg dry		02/07/17 09:17	SW8260B	7B07001	U
1,1-Dichloropropene	ND	1.58	3.16		ug/Kg dry		02/07/17 09:17	SW8260B	7B07001	U
cis-1,3-Dichloropropene	ND	1.58	3.16		ug/Kg dry		02/07/17 09:17	SW8260B	7B07001	U
trans-1,3-Dichloropropene	ND	1.58	3.16		ug/Kg dry		02/07/17 09:17	SW8260B	7B07001	U
Ethylbenzene	ND	1.58	3.16		ug/Kg dry		02/07/17 09:17	SW8260B	7B07001	U

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Client Sample ID: 106MW2-Rolloff

Lab Sample ID: 1702005-01

Sample Matrix: Solid

Sample Collection Date/Time: 01/31/2017 14:45 Sample Received Date/Time: 02/01/2017 09:30

Analyte	Result	DL	LOD	LOQ	Units	Dilution	Analyzed	Method	Batch	Notes
Volatile Organic Compounds by	GC/MS									
Hexachlorobutadiene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
2-Hexanone	ND	3.16	6.33	12.7	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Isopropylbenzene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
p-Isopropyltoluene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Methyl Acetate	ND	3.16	6.33	12.7	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Methylcyclohexane	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Methylene chloride	ND	3.16	6.33	12.7	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
4-Methyl-2-pentanone	ND	3.16	6.33	12.7	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Methyl t-Butyl Ether	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Naphthalene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
n-Propylbenzene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Styrene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
1,1,2,2-Tetrachloroethane	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Tetrachloroethene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Toluene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
1,2,3-Trichlorobenzene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
1,2,4-Trichlorobenzene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
1,3,5-Trichlorobenzene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
1,1,1-Trichloroethane	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
1,1,2-Trichloroethane	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Trichloroethene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Trichlorofluoromethane	ND	3.16	6.33	12.7	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.16	6.33	12.7	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Vinyl chloride	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
m,p-Xylene	ND	3.16	6.33	12.7	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
o-Xylene	ND	1.58	3.16	6.33	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Xylenes (total)	ND	4.75	9.49	19.0	ug/Kg dry	1	02/07/17 09:17	SW8260B	7B07001	U
Surrogate: Bromofluorobenzene				98.5 %	79-119		02/07/17 09:17	SW8260B	7B07001	
Surrogate: Dibromofluoromethane				94.5 %	78-119		02/07/17 09:17	SW8260B	7B07001	
Surrogate: 1.2-Dichloroethane-d4				93.6 %	71-136		02/07/17 09:17	SW8260B	7B07001	
Surrogate: Toluene-d8				101 %	85-116		02/07/17 09:17	SW8260B	7B07001	

Client Sample ID: 106MW2-Rolloff

Lab Sample ID: 1702005-01

Sample Matrix: Solid

Sample Collection Date/Time: 01/31/2017 14:45 Sample Received Date/Time: 02/01/2017 09:30

Analyte	Result	DL	LOD	LOQ	Units	Dilution	Analyzed	Method	Batch	Notes
Semivolatile Organic Compo	unds by GC/MS	5								
Acenaphthene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Acenaphthylene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Acetophenone	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Aniline	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Anthracene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Atrazine	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Benzaldehyde	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Benzidine	ND	100	2010	4010	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Benzo(a)anthracene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Benzo(a)pyrene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Benzo(b)fluoranthene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Benzo(g,h,i)perylene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Benzoic acid	ND	100	803	1600	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	QNU
Benzo(k)fluoranthene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Benzyl alcohol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
1,1-Biphenyl	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
4-Bromophenyl-phenylether	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Butylbenzylphthalate	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Caprolactam	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Carbazole	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	NU
4-Chloro-3-methylphenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
4-Chloroaniline	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	NU
Bis(2-chloroethoxy)methane	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Bis(2-chloroethyl)ether	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2,2'-Oxybis-1-chloropropane	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2-Chloronaphthalene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2-Chlorophenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
4-Chlorophenyl phenyl ether	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Chrysene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Dibenz(a,h)anthracene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Dibenzofuran	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Di-n-butylphthalate	376	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	JB
1,4-Dichlorobenzene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
1,3-Dichlorobenzene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
1,2-Dichlorobenzene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
3,3'-Dichlorobenzidine	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2,6-Dichlorophenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2,4-Dichlorophenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Diethylphthalate	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2,4-Dimethylphenol	ND	401	803		ug/Kg dry		02/07/17 18:23	SW8270D	7B06012	U
Dimethyl phthalate	ND	100	201		ug/Kg dry		02/07/17 18:23	SW8270D	7B06012	U
4,6-Dinitro-2-methylphenol	ND	1000	2010		ug/Kg dry		02/07/17 18:23	SW8270D	7B06012	U
2,4-Dinitrophenol	ND	1000	2010		ug/Kg dry		02/07/17 18:23	SW8270D	7B06012	NU
-										

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Client Sample ID: 106MW2-Rolloff

Lab Sample ID: 1702005-01

Sample Matrix: Solid

Sample Collection Date/Time: 01/31/2017 14:45 Sample Received Date/Time: 02/01/2017 09:30

Analyte	Result	DL	LOD	LOQ	Units	Dilution	Analyzed	Method	Batch	Notes
Semivolatile Organic Compou	inds by GC/MS									
2,4-Dinitrotoluene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2,6-Dinitrotoluene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Di-n-octylphthalate	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
1,4-Dioxane	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
1,2-Diphenylhydrazine (as Azobenzene)	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Bis(2-ethylhexyl)phthalate	186	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	J
Fluoranthene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Fluorene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Hexachlorobenzene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Hexachlorobutadiene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Hexachlorocyclopentadiene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Hexachloroethane	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Indeno(1,2,3-cd)pyrene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Isophorone	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
1-Methylnaphthalene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2-Methylnaphthalene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2-Methylphenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
3-Methylphenol/4-Methylphenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
3-Methylphenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
4-Methylphenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Naphthalene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
4-Nitroaniline	ND	401	803	1600	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	NU
3-Nitroaniline	ND	401	803	1600	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	NU
2-Nitroaniline	ND	401	803	1600	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Nitrobenzene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
4-Nitrophenol	ND	401	803	1600	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2-Nitrophenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
N-Nitrosodimethylamine	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
N-Nitrosodiphenylamine	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
N-Nitroso-di-n-propylamine	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Pentachlorophenol	ND	401	803	1600	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Phenanthrene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Phenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Pyrene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
1,2,4,5-Tetrachlorobenzene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2,3,4,6-Tetrachlorophenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
1,2,4-Trichlorobenzene	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2,4,6-Trichlorophenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
2,4,5-Trichlorophenol	ND	100	201	401	ug/Kg dry	1	02/07/17 18:23	SW8270D	7B06012	U
Surrogate: 2-Fluorobiphenvl				76.5 %	44-114		02/07/17 18:23	SW8270D	7B06012	
Surrogate: 2-Fluorophenol				71.1 %	35-115		02/07/17 18:23	SW8270D	7B06012	
Surrogate: Nitrobenzene-d5				55.3 %	37-122		02/07/17 18:23	SW8270D	7B06012	

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Client Sample ID: 106MW2-Rolloff Sample Collection Date/Time: 01/31/2017 14:45 Lab Sample ID: 1702005-01 Sample Received Date/Time: 02/01/2017 09:30 Sample Matrix: Solid LOD LOQ Units Dilution Batch Notes DL Analyzed Method Analyte Result Semivolatile Organic Compounds by GC/MS Surrogate: Phenol-d6 67.7 % 7B06012 33-122 02/07/17 18:23 SW8270D Surrogate: Terphenvl-d14 79.3 % 54-127 02/07/17 18:23 7B06012 SW8270D Surrogate: 2,4,6-Tribromophenol 65.2 % 7B06012 39-132

02/07/17 18:23

SW8270D

Client Sample ID: 106MW2-Confirm

Lab Sample ID: 1702005-02

Sample Matrix: Solid

Sample Collection Date/Time: 01/31/2017 14:35 Sample Received Date/Time: 02/01/2017 09:30

Analyte	Result	DL	LOD	LOQ	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Paramete	ers									
% Solids	95	1.0	1.0	1.0	%	1	02/05/17 12:35	SM2540B	7B03416	
Volatile Organic Compounds	by GC/MS									
Acetone	ND	4.41	8.81	17.6	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
Benzene	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
Bromobenzene	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Bromochloromethane	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
Bromodichloromethane	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
Bromoform	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
Bromomethane	ND	2.20	4.41	8.81	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
2-Butanone	ND	2.20	4.41	8.81	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
n-Butylbenzene	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
sec-Butylbenzene	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
tert-Butylbenzene	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
Carbon disulfide	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Carbon tetrachloride	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
Chlorobenzene	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Chloroethane	ND	2.20	4.41	8.81	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Chloroform	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Chloromethane	ND	2.20	4.41	8.81	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
2-Chlorotoluene	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
4-Chlorotoluene	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
Cyclohexane	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
1,2-Dibromo-3-chloropropane	ND	2.20	4.41	8.81	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
Dibromochloromethane	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
1,2-Dibromoethane (EDB)	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
Dibromomethane	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
1,2-Dichlorobenzene	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
1,4-Dichlorobenzene	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
1,3-Dichlorobenzene	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
Dichlorodifluoromethane	ND	2.20	4.41		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
1,1-Dichloroethane	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
1,2-Dichloroethane	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
1,1-Dichloroethene	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
cis-1,2-Dichloroethene	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
trans-1,2-Dichloroethene	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
1,2-Dichloropropane	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
1,3-Dichloropropane	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
2,2-Dichloropropane	ND	1.10	2.20				02/07/17 09:43	SW8260B	7B07001	U
1,1-Dichloropropene	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
cis-1,3-Dichloropropene	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
trans-1,3-Dichloropropene	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
Ethylbenzene	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U
Hexachlorobutadiene	ND	1.10	2.20		ug/Kg dry		02/07/17 09:43	SW8260B	7B07001	U

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Client Sample ID: 106MW2-Confirm

Lab Sample ID: 1702005-02

Sample Matrix: Solid

Sample Collection Date/Time: 01/31/2017 14:35 Sample Received Date/Time: 02/01/2017 09:30

Analyte	Result	DL	LOD	LOQ	Units	Dilution	Analyzed	Method	Batch	Notes
Volatile Organic Compounds by	GC/MS									
2-Hexanone	ND	2.20	4.41	8.81	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
Isopropylbenzene	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
p-Isopropyltoluene	ND	1.10	2.20	4.41	ug/Kg dry	· 1	02/07/17 09:43	SW8260B	7B07001	U
Methyl Acetate	ND	2.20	4.41	8.81	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Methylcyclohexane	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Methylene chloride	ND	2.20	4.41	8.81	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
4-Methyl-2-pentanone	ND	2.20	4.41	8.81	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Methyl t-Butyl Ether	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Naphthalene	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
n-Propylbenzene	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Styrene	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
1,1,2,2-Tetrachloroethane	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Tetrachloroethene	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Toluene	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
1,2,3-Trichlorobenzene	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
1,2,4-Trichlorobenzene	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
1,3,5-Trichlorobenzene	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
1,1,1-Trichloroethane	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
1,1,2-Trichloroethane	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Trichloroethene	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Trichlorofluoromethane	ND	2.20	4.41	8.81	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.20	4.41	8.81	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Vinyl chloride	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
m,p-Xylene	ND	2.20	4.41	8.81	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
o-Xylene	ND	1.10	2.20	4.41	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Xylenes (total)	ND	3.31	6.61	13.2	ug/Kg dry	1	02/07/17 09:43	SW8260B	7B07001	U
Surrogate: Bromofluorobenzene				94.0 %	79-119		02/07/17 09:43	SW8260B	7B07001	
Surrogate: Dibromofluoromethane				97.3 %	78-119		02/07/17 09:43	SW8260B	7B07001	
Surrogate: 1,2-Dichloroethane-d4				97.6 %	71-136		02/07/17 09:43	SW8260B	7B07001	
Surrogate: Toluene-d8				99.4 %	85-116		02/07/17 09:43	SW8260B	7B07001	

Client Sample ID: 106MW2-Confirm

Lab Sample ID: 1702005-02

Sample Matrix: Solid

Sample Collection Date/Time: 01/31/2017 14:35 Sample Received Date/Time: 02/01/2017 09:30

Analyte	Result	DL	LOD	LOQ Uni	ts Dilution	Analyzed	Method	Batch	Notes
Semivolatile Organic Compo	ounds by GC/M	S							
Acenaphthene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Acenaphthylene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Acetophenone	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Aniline	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Anthracene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Atrazine	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Benzaldehyde	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Benzidine	ND	87.1	1750	3480 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Benzo(a)anthracene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Benzo(a)pyrene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Benzo(b)fluoranthene	89.5	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	J
Benzo(g,h,i)perylene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Benzoic acid	ND	87.1	697	1390 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	QU
Benzo(k)fluoranthene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Benzyl alcohol	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
1,1-Biphenyl	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
4-Bromophenyl-phenylether	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Butylbenzylphthalate	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Caprolactam	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Carbazole	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
4-Chloro-3-methylphenol	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
4-Chloroaniline	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Bis(2-chloroethoxy)methane	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Bis(2-chloroethyl)ether	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
2,2'-Oxybis-1-chloropropane	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
2-Chloronaphthalene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
2-Chlorophenol	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
4-Chlorophenyl phenyl ether	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Chrysene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Dibenz(a,h)anthracene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Dibenzofuran	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Di-n-butylphthalate	346	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	JB
1,4-Dichlorobenzene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
1,3-Dichlorobenzene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
1,2-Dichlorobenzene	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
3,3'-Dichlorobenzidine	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
2,6-Dichlorophenol	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
2,4-Dichlorophenol	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
Diethylphthalate	ND	87.1	175	348 ug/Kg	g dry 1	02/07/17 19:47	SW8270D	7B06012	U
2,4-Dimethylphenol	ND	348	697	1390 ug/Kg		02/07/17 19:47	SW8270D	7B06012	U
Dimethyl phthalate	ND	87.1	175	348 ug/Kg		02/07/17 19:47	SW8270D	7B06012	U
4,6-Dinitro-2-methylphenol	ND	871	1750	3480 ug/Kg		02/07/17 19:47	SW8270D	7B06012	U
2,4-Dinitrophenol	ND	871	1750	3480 ug/Kş	g dry 1	02/07/17 19:47	SW8270D	7B06012	U

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Client Sample ID: 106MW2-Confirm

Lab Sample ID: 1702005-02

Sample Matrix: Solid

Sample Collection Date/Time: 01/31/2017 14:35 Sample Received Date/Time: 02/01/2017 09:30

Analyte	Result	DL	LOD	LOQ	Units	Dilution	Analyzed	Method	Batch	Notes
Semivolatile Organic Compour	nds by GC/MS	5								
2,4-Dinitrotoluene	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
2,6-Dinitrotoluene	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Di-n-octylphthalate	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
1,4-Dioxane	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
1,2-Diphenylhydrazine (as Azobenzene)	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Bis(2-ethylhexyl)phthalate	127	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	J
Fluoranthene	157	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	J
Fluorene	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Hexachlorobenzene	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Hexachlorobutadiene	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Hexachlorocyclopentadiene	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Hexachloroethane	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Indeno(1,2,3-cd)pyrene	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Isophorone	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
1-Methylnaphthalene	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
2-Methylnaphthalene	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
2-Methylphenol	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
3-Methylphenol/4-Methylphenol	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
3-Methylphenol	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
4-Methylphenol	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Naphthalene	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
4-Nitroaniline	ND	348	697	1390	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
3-Nitroaniline	ND	348	697	1390	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
2-Nitroaniline	ND	348	697	1390	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Nitrobenzene	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
4-Nitrophenol	ND	348	697	1390	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
2-Nitrophenol	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
N-Nitrosodimethylamine	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
N-Nitrosodiphenylamine	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
N-Nitroso-di-n-propylamine	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Pentachlorophenol	ND	348	697	1390	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Phenanthrene	122	87.1	175		ug/Kg dry		02/07/17 19:47	SW8270D	7B06012	J
Phenol	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
Pyrene	150	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	J
1,2,4,5-Tetrachlorobenzene	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
2,3,4,6-Tetrachlorophenol	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
1,2,4-Trichlorobenzene	ND	87.1	175		ug/Kg dry		02/07/17 19:47	SW8270D	7B06012	U
2,4,6-Trichlorophenol	ND	87.1	175	348	ug/Kg dry	1	02/07/17 19:47	SW8270D	7B06012	U
2,4,5-Trichlorophenol	ND	87.1	175		ug/Kg dry		02/07/17 19:47	SW8270D	7B06012	U
Surrogate: 2-Fluorobiphenvl				68.1 %	44-114		02/07/17 19:47	SW8270D	7B06012	
Surrogate: 2-Fluorophenol				63.8 %	35-115		02/07/17 19:47	SW8270D	7B06012	
Surrogate: Nitrobenzene-d5				49.4 %	37-122		02/07/17 19:47	SW8270D	7B06012	

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Client Sample ID: 106MW2-Confirm Sample Collection Date/Time: 01/31/2017 14:35 Lab Sample ID: 1702005-02 Sample Received Date/Time: 02/01/2017 09:30 Sample Matrix: Solid LOD LOQ Units Dilution Batch Notes DL Analyzed Method Analyte Result Semivolatile Organic Compounds by GC/MS Surrogate: Phenol-d6 61.4 % 7B06012 33-122 02/07/17 19:47 SW8270D Surrogate: Terphenvl-d14 73.4 % 54-127 02/07/17 19:47 7B06012 SW8270D Surrogate: 2,4,6-Tribromophenol 58.4 % 7B06012 39-132

02/07/17 19:47

SW8270D

LOQ

Units Dilution

Client Sample ID: 106MW2-Background

Lab Sample ID: 1702005-03

Sample Matrix: Solid

Sample Collection Date/Time: 01/31/2017 14:55 Sample Received Date/Time: 02/01/2017 09:30

Analyzed

Method

Batch

Notes

LOD DL Analyte Result **Classical Chemistry Parameters** ٦ ŀ F F

% Solids	93	1.0	1.0	1.0 %	1	02/05/17 13:17	SM2540B	7B03417	
Volatile Organic Compounds	by GC/MS								
Acetone	ND	5.70	11.4	22.8 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Benzene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Bromobenzene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Bromochloromethane	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Bromodichloromethane	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Bromoform	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Bromomethane	ND	2.85	5.70	11.4 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
2-Butanone	ND	2.85	5.70	11.4 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
n-Butylbenzene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
sec-Butylbenzene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
tert-Butylbenzene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Carbon disulfide	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Carbon tetrachloride	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Chlorobenzene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Chloroethane	ND	2.85	5.70	11.4 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Chloroform	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Chloromethane	ND	2.85	5.70	11.4 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
2-Chlorotoluene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
4-Chlorotoluene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Cyclohexane	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,2-Dibromo-3-chloropropane	ND	2.85	5.70	11.4 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Dibromochloromethane	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,2-Dibromoethane (EDB)	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Dibromomethane	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,2-Dichlorobenzene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,4-Dichlorobenzene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,3-Dichlorobenzene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Dichlorodifluoromethane	ND	2.85	5.70	11.4 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,1-Dichloroethane	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,2-Dichloroethane	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,1-Dichloroethene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
cis-1,2-Dichloroethene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
trans-1,2-Dichloroethene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,2-Dichloropropane	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,3-Dichloropropane	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
2,2-Dichloropropane	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,1-Dichloropropene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
cis-1,3-Dichloropropene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
trans-1,3-Dichloropropene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Ethylbenzene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Hexachlorobutadiene	ND	1.42	2.85	5.70 ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Client Sample ID: 106MW2-Background

Lab Sample ID: 1702005-03

Sample Matrix: Solid

Sample Collection Date/Time: 01/31/2017 14:55 Sample Received Date/Time: 02/01/2017 09:30

Analyte	Result	DL	LOD	LOQ	Units	Dilution	Analyzed	Method	Batch	Notes
Volatile Organic Compounds by	GC/MS									
2-Hexanone	ND	2.85	5.70	11.4	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Isopropylbenzene	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
p-Isopropyltoluene	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Methyl Acetate	ND	2.85	5.70	11.4	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Methylcyclohexane	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Methylene chloride	ND	2.85	5.70	11.4	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
4-Methyl-2-pentanone	ND	2.85	5.70	11.4	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Methyl t-Butyl Ether	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Naphthalene	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
n-Propylbenzene	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Styrene	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,1,2,2-Tetrachloroethane	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Tetrachloroethene	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Toluene	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,2,3-Trichlorobenzene	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,2,4-Trichlorobenzene	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,3,5-Trichlorobenzene	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,1,1-Trichloroethane	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,1,2-Trichloroethane	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Trichloroethene	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Trichlorofluoromethane	ND	2.85	5.70	11.4	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.85	5.70	11.4	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Vinyl chloride	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
m,p-Xylene	ND	2.85	5.70	11.4	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
o-Xylene	ND	1.42	2.85	5.70	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Xylenes (total)	ND	4.27	8.55	17.1	ug/Kg dry	1	02/07/17 10:08	SW8260B	7B07001	U
Surrogate: Bromofluorobenzene				97.1 %	79-119		02/07/17 10:08	SW8260B	7B07001	
Surrogate: Dibromofluoromethane				99.0 %	78-119		02/07/17 10:08	SW8260B	7B07001	
Surrogate: 1,2-Dichloroethane-d4				99.1 %	71-136		02/07/17 10:08	SW8260B	7B07001	
Surrogate: Toluene-d8				101 %	85-116		02/07/17 10:08	SW8260B	7B07001	

Work Order: 1702005

Client Sample ID: 106MW2-Background

Lab Sample ID: 1702005-03

Sample Matrix: Solid

Sample Collection Date/Time: 01/31/2017 14:55 Sample Received Date/Time: 02/01/2017 09:30

Analyte	Result	DL	LOD	LOQ	Units	Dilution	Analyzed	Method	Batch	Notes
Semivolatile Organic Compo	unds by GC/MS	5								
Acenaphthene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Acenaphthylene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Acetophenone	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Aniline	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Anthracene	ND	89.5	179		ug/Kg dry		02/07/17 20:16	SW8270D	7B06012	U
Atrazine	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Benzaldehyde	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Benzidine	ND	89.5	1790	3580	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Benzo(a)anthracene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Benzo(a)pyrene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Benzo(b)fluoranthene	116	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	J
Benzo(g,h,i)perylene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Benzoic acid	ND	89.5	716	1430	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	QU
Benzo(k)fluoranthene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Benzyl alcohol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
1,1-Biphenyl	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
4-Bromophenyl-phenylether	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Butylbenzylphthalate	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Caprolactam	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Carbazole	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
4-Chloro-3-methylphenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
4-Chloroaniline	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Bis(2-chloroethoxy)methane	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Bis(2-chloroethyl)ether	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2,2'-Oxybis-1-chloropropane	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2-Chloronaphthalene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2-Chlorophenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
4-Chlorophenyl phenyl ether	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Chrysene	104	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	J
Dibenz(a,h)anthracene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Dibenzofuran	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Di-n-butylphthalate	333	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	JB
1,4-Dichlorobenzene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
1,3-Dichlorobenzene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
1,2-Dichlorobenzene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
3,3'-Dichlorobenzidine	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2,6-Dichlorophenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2,4-Dichlorophenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Diethylphthalate	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2,4-Dimethylphenol	ND	358	716	1430	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Dimethyl phthalate	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
4,6-Dinitro-2-methylphenol	ND	895	1790	3580	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2,4-Dinitrophenol	ND	895	1790	3580	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Client Sample ID: 106MW2-Background

Lab Sample ID: 1702005-03

Sample Matrix: Solid

Sample Collection Date/Time: 01/31/2017 14:55 Sample Received Date/Time: 02/01/2017 09:30

Analyte	Result	DL	LOD	LOQ	Units	Dilution	Analyzed	Method	Batch	Notes
Semivolatile Organic Compou	inds by GC/MS									
2,4-Dinitrotoluene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2,6-Dinitrotoluene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Di-n-octylphthalate	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
1,4-Dioxane	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
1,2-Diphenylhydrazine (as Azobenzene)	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Bis(2-ethylhexyl)phthalate	685	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	
Fluoranthene	175	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	J
Fluorene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Hexachlorobenzene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Hexachlorobutadiene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Hexachlorocyclopentadiene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Hexachloroethane	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Indeno(1,2,3-cd)pyrene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Isophorone	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
1-Methylnaphthalene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2-Methylnaphthalene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2-Methylphenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
3-Methylphenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
3-Methylphenol/4-Methylphenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
4-Methylphenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Naphthalene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
4-Nitroaniline	ND	358	716	1430	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
3-Nitroaniline	ND	358	716	1430	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2-Nitroaniline	ND	358	716	1430	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Nitrobenzene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
4-Nitrophenol	ND	358	716	1430	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2-Nitrophenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
N-Nitrosodimethylamine	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
N-Nitrosodiphenylamine	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
N-Nitroso-di-n-propylamine	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Pentachlorophenol	ND	358	716	1430	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Phenanthrene	125	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	J
Phenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Pyrene	176	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	J
1,2,4,5-Tetrachlorobenzene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2,3,4,6-Tetrachlorophenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
1,2,4-Trichlorobenzene	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2,4,6-Trichlorophenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
2,4,5-Trichlorophenol	ND	89.5	179	358	ug/Kg dry	1	02/07/17 20:16	SW8270D	7B06012	U
Surrogate: 2-Fluorobiphenvl				57.7 %	44-114		02/07/17 20:16	SW8270D	7B06012	
Surrogate: 2-Fluorophenol				54.1 %	35-115		02/07/17 20:16	SW8270D	7B06012	
Surrogate: Nitrobenzene-d5				41.8 %	37-122		02/07/17 20:16	SW8270D	7B06012	

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Client Sample ID: 106MW2-Background Sample Collection Date/Time: 01/31/2017 14:55 Lab Sample ID: 1702005-03 Sample Received Date/Time: 02/01/2017 09:30 Sample Matrix: Solid LOD LOQ Units Dilution Batch Notes DL Analyzed Method Analyte Result Semivolatile Organic Compounds by GC/MS Surrogate: Phenol-d6 51.0% 7B06012 33-122 02/07/17 20:16 SW8270D Surrogate: Terphenvl-d14 64.1~%54-127 02/07/17 20:16 7B06012 SW8270D Surrogate: 2.4.6-Tribromophenol 48.5 % 7B06012 39-132 02/07/17 20:16 SW8270D

Analyte	Result	DL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7B07001												
Blank			р	renared	& Analyz	red: 02/07	7/2017					
Acetone	ND	5.00	10.0	20.0	ug/Kg		2017					U
Benzene	ND	1.25	2.50	5.00	wet ug/Kg							U
Bromobenzene	ND	1.25	2.50	5.00	wet ug/Kg wet							U
Bromochloromethane	ND	1.25	2.50	5.00	ug/Kg wet							U
Bromodichloromethane	ND	1.25	2.50	5.00	ug/Kg wet							U
Bromoform	ND	1.25	2.50	5.00	ug/Kg wet							U
Bromomethane	ND	2.50	5.00	10.0	ug/Kg wet							U
2-Butanone	ND	2.50	5.00	10.0	ug/Kg wet							U
n-Butylbenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
sec-Butylbenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
tert-Butylbenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
Carbon disulfide	ND	1.25	2.50	5.00	ug/Kg wet							U
Carbon tetrachloride	ND	1.25	2.50	5.00	ug/Kg wet							U
Chlorobenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
Chloroethane	ND	2.50	5.00	10.0	ug/Kg wet							U
Chloroform	ND	1.25	2.50	5.00	ug/Kg wet							U
Chloromethane	ND	2.50	5.00	10.0	ug/Kg wet							U
2-Chlorotoluene	ND	1.25	2.50	5.00	ug/Kg wet							U
4-Chlorotoluene	ND	1.25	2.50	5.00	ug/Kg wet							U
Cyclohexane	ND	1.25	2.50	5.00	ug/Kg wet							U
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	10.0	ug/Kg wet							U
Dibromochloromethane	ND	1.25	2.50	5.00	ug/Kg wet							U
1,2-Dibromoethane (EDB)	ND	1.25	2.50	5.00	ug/Kg wet							U
Dibromomethane	ND	1.25	2.50	5.00	ug/Kg wet							U
1,2-Dichlorobenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
1,4-Dichlorobenzene	ND	1.25	2.50	5.00	ug/Kg wet							U

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Analyta	D. 14	DI	LOD	100	1114	Spike	Source	0/850	%REC	בתם	RPD Limit	N-4
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B07001												
Blank				-		ed: 02/07	7/2017					
1,3-Dichlorobenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
Dichlorodifluoromethane	ND	2.50	5.00	10.0	ug/Kg wet							U
1,1-Dichloroethane	ND	1.25	2.50	5.00	ug/Kg wet							U
1,2-Dichloroethane	ND	1.25	2.50	5.00	ug/Kg wet							U
1,1-Dichloroethene	ND	1.25	2.50	5.00	ug/Kg wet							U
cis-1,2-Dichloroethene	ND	1.25	2.50	5.00	ug/Kg wet							U
trans-1,2-Dichloroethene	ND	1.25	2.50	5.00	ug/Kg wet							U
1,2-Dichloropropane	ND	1.25	2.50	5.00	ug/Kg wet							U
1,3-Dichloropropane	ND	1.25	2.50	5.00	ug/Kg wet							U
2,2-Dichloropropane	ND	1.25	2.50	5.00	ug/Kg wet							U
1,1-Dichloropropene	ND	1.25	2.50	5.00	ug/Kg wet							U
cis-1,3-Dichloropropene	ND	1.25	2.50	5.00	ug/Kg wet							U
trans-1,3-Dichloropropene	ND	1.25	2.50	5.00	ug/Kg wet							U
Ethylbenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
Hexachlorobutadiene	ND	1.25	2.50	5.00	ug/Kg wet							U
2-Hexanone	ND	2.50	5.00	10.0	ug/Kg wet							U
Isopropylbenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
p-Isopropyltoluene	ND	1.25	2.50		ug/Kg wet							U
Methyl Acetate	ND	2.50	5.00	10.0	ug/Kg wet							Y, U
Methylcyclohexane	ND	1.25	2.50	5.00	ug/Kg wet							U
Methylene chloride	ND	2.50	5.00	10.0	ug/Kg wet							U
4-Methyl-2-pentanone	ND	2.50	5.00	10.0	ug/Kg wet							U
Methyl t-Butyl Ether	ND	1.25	2.50	5.00	ug/Kg wet							U
Naphthalene	ND	1.25	2.50	5.00	ug/Kg wet							U
n-Propylbenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
Styrene	ND	1.25	2.50	5.00	ug/Kg wet							U

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B07001												
Blank			Р	repared	& Analy	zed: 02/07	7/2017					
1,1,2,2-Tetrachloroethane	ND	1.25	2.50	5.00	ug/Kg wet							U
Tetrachloroethene	ND	1.25	2.50	5.00	ug/Kg wet							U
Toluene	ND	1.25	2.50	5.00	ug/Kg wet							U
1,2,3-Trichlorobenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
1,2,4-Trichlorobenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
1,3,5-Trichlorobenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
1,1,1-Trichloroethane	ND	1.25	2.50	5.00	ug/Kg wet							U
1,1,2-Trichloroethane	ND	1.25	2.50	5.00	ug/Kg wet							U
Trichloroethene	ND	1.25	2.50	5.00	ug/Kg wet							U
Trichlorofluoromethane	ND	2.50	5.00	10.0	ug/Kg wet							U
1,1,2-Trichloro-1,2,2-trifluoroethan e	ND	2.50	5.00	10.0	ug/Kg wet							U
Vinyl chloride	ND	1.25	2.50	5.00	ug/Kg wet							U
m,p-Xylene	ND	2.50	5.00	10.0	ug/Kg wet							U
o-Xylene	ND	1.25	2.50	5.00	ug/Kg wet							U
Xylenes (total)	ND	3.75	7.50	15.0	ug/Kg wet							U
Surrogate: Bromofluorobenzene	29.3	2			ug/Kg wet	30.00		97.7	79-119			
Surrogate: Dibromofluoromethane	29.1	3			ug/Kg wet	30.00		97.1	78-119			
Surrogate: 1,2-Dichloroethane-d4	28.1	3			ug/Kg wet	30.00		93.8	71-136			
Surrogate: Toluene-d8	30.1	6			ug/Kg wet	30.00		101	85-116			
Blank			р	renared	& Analy	zed: 02/07	7/2017					
Acetone	ND	5.00	10.0	20.0	ug/Kg		,					U
Benzene	ND	1.25	2.50	5.00	wet ug/Kg							U
Bromobenzene	ND	1.25	2.50	5.00	wet ug/Kg							U
Bromochloromethane	ND	1.25	2.50	5.00	wet ug/Kg							U
Bromodichloromethane	ND	1.25	2.50	5.00	wet ug/Kg							U
Bromoform	ND	1.25	2.50	5.00	wet ug/Kg wet							U
EMPIRICAL LABORATORIES, LLC	Work Ord	der: 170	2005	Repo	rt Date:	02/08/20	17					

Analyte	Result	DL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7B07001												
Blank			р	renared	& Analyz	red: 02/07	7/2017					
Bromomethane	ND	2.50	5.00	10.0	ug/Kg	.cu. 02/07	//2017					U
2-Butanone	ND	2.50	5.00	10.0	wet ug/Kg							U
2-Butanone	ND	2.50	5.00	10.0	wet							0
n-Butylbenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
sec-Butylbenzene	ND	1.25	2.50	5.00	ug/Kg							U
tert-Butylbenzene	ND	1.25	2.50	5.00	wet ug/Kg							U
tert-Duty ioenzene	ND	1.23	2.50	5.00	wet							
Carbon disulfide	ND	1.25	2.50	5.00	ug/Kg wet							U
Carbon tetrachloride	ND	1.25	2.50	5.00	ug/Kg							U
Chlorobenzene	ND	1.25	2.50	5.00	wet ug/Kg							U
Chlorobelizene	ND	1.23	2.50	5.00	wet							0
Chloroethane	ND	2.50	5.00	10.0	ug/Kg wet							U
Chloroform	ND	1.25	2.50	5.00	ug/Kg							U
Chloromethane	ND	2.50	5.00	10.0	wet ug/Kg							U
Chloromethane	ND	2.50	5.00	10.0	wet							0
2-Chlorotoluene	ND	1.25	2.50	5.00	ug/Kg wet							U
4-Chlorotoluene	ND	1.25	2.50	5.00	ug/Kg							U
Cyclohexane	ND	1.25	2.50	5.00	wet ug/Kg							U
Cyclonexane	ND	1.23	2.50	5.00	wet							0
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	10.0	ug/Kg wet							U
Dibromochloromethane	ND	1.25	2.50	5.00	ug/Kg							U
1,2-Dibromoethane (EDB)	ND	1.25	2.50	5.00	wet ug/Kg							U
1,2 Dioromoentane (DDD)		1.20	2.50		wet							0
Dibromomethane	ND	1.25	2.50	5.00	ug/Kg wet							U
1,2-Dichlorobenzene	ND	1.25	2.50	5.00	ug/Kg							U
1,4-Dichlorobenzene	ND	1.25	2.50	5.00	wet ug/Kg							U
					wet							
1,3-Dichlorobenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
Dichlorodifluoromethane	ND	2.50	5.00	10.0	ug/Kg							U
1,1-Dichloroethane	ND	1.25	2.50	5.00	wet ug/Kg							U
					wet							
1,2-Dichloroethane	ND	1.25	2.50	5.00	ug/Kg wet							U
1,1-Dichloroethene	ND	1.25	2.50	5.00	ug/Kg							U
cis-1,2-Dichloroethene	ND	1.25	2.50	5.00	wet ug/Kg							U
	112	1.20	2.00	2.00	wet							0

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Angleda	n li	DI	LOD	100	T I. '4	Spike	Source	0/050	%REC	DPD	RPD	Net
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B07001												
Blank			Р	repared	& Analyz	ed: 02/07	7/2017					
trans-1,2-Dichloroethene	ND	1.25	2.50	5.00	ug/Kg wet							U
1,2-Dichloropropane	ND	1.25	2.50	5.00	ug/Kg wet							U
1,3-Dichloropropane	ND	1.25	2.50	5.00	ug/Kg wet							U
2,2-Dichloropropane	ND	1.25	2.50	5.00	ug/Kg wet							U
1,1-Dichloropropene	ND	1.25	2.50	5.00	ug/Kg wet							U
cis-1,3-Dichloropropene	ND	1.25	2.50	5.00	ug/Kg wet							U
trans-1,3-Dichloropropene	ND	1.25	2.50	5.00	ug/Kg wet							U
Ethylbenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
Hexachlorobutadiene	ND	1.25	2.50	5.00	ug/Kg wet							U
2-Hexanone	ND	2.50	5.00	10.0	ug/Kg wet							U
Isopropylbenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
p-Isopropyltoluene	ND	1.25	2.50	5.00	ug/Kg wet							U
Methyl Acetate	ND	2.50	5.00	10.0	ug/Kg wet							Y, U
Methylcyclohexane	ND	1.25	2.50	5.00	ug/Kg wet							U
Methylene chloride	ND	2.50	5.00	10.0	ug/Kg wet							U
4-Methyl-2-pentanone	ND	2.50	5.00	10.0	ug/Kg wet							U
Methyl t-Butyl Ether	ND	1.25	2.50	5.00	ug/Kg wet							U
Naphthalene	ND	1.25	2.50		ug/Kg wet							U
n-Propylbenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
Styrene	ND	1.25	2.50	5.00	ug/Kg wet							U
1,1,2,2-Tetrachloroethane	ND	1.25	2.50	5.00	ug/Kg wet							U
Tetrachloroethene	ND	1.25	2.50	5.00	ug/Kg wet							U
Toluene	ND	1.25	2.50	5.00	ug/Kg wet							U
1,2,3-Trichlorobenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
1,2,4-Trichlorobenzene	ND	1.25	2.50	5.00	ug/Kg wet							U
1,3,5-Trichlorobenzene	ND	1.25	2.50	5.00	ug/Kg wet							U

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						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B07001												
Blank						zed: 02/07	/2017					
1,1,1-Trichloroethane	ND	1.25	2.50	5.00	ug/Kg							U
1,1,2-Trichloroethane	ND	1.25	2.50	5.00	wet ug/Kg wet							U
Trichloroethene	ND	1.25	2.50	5.00	ug/Kg wet							U
Trichlorofluoromethane	ND	2.50	5.00	10.0	ug/Kg wet							U
1,1,2-Trichloro-1,2,2-trifluoroethan e	ND	2.50	5.00	10.0	ug/Kg wet							U
Vinyl chloride	ND	1.25	2.50	5.00	ug/Kg wet							U
m,p-Xylene	ND	2.50	5.00	10.0	ug/Kg wet							U
o-Xylene	ND	1.25	2.50	5.00	ug/Kg wet							U
Xylenes (total)	ND	3.75	7.50	15.0	ug/Kg wet							U
Surrogate: Bromofluorobenzene	27.6	57			ug/Kg	30.00		92.2	79-119			
Surrogate: Dibromofluoromethane	28.3	2			wet ug/Kg	30.00		94.4	78-119			
Surrogate: 1,2-Dichloroethane-d4	29.3	9			wet ug/Kg	30.00		98.0	71-136			
Surrogate: Toluene-d8	31.2	21			wet ug/Kg wet	30.00		104	85-116			
LCS			P	renared	& Analy	zed: 02/07	/2017					
Acetonitrile	406.1	10.0	25.0	50.0	ug/Kg wet	500.0	/2017	81.2	54-143			
Acrolein	216.1	5.00	10.0	20.0	ug/Kg wet	250.0		86.4	47-155			
Acrylonitrile	217.2	5.00	10.0	20.0	ug/Kg wet	250.0		86.9	65-134			
Allyl chloride	50.20	1.25	2.50	5.00	ug/Kg wet	50.00		100	68-135			
Benzene	48.66	1.25	2.50	5.00	ug/Kg wet	50.00		97.3	77-121			
Bromobenzene	50.17	1.25	2.50	5.00	ug/Kg wet	50.00		100	78-121			
Bromochloromethane	48.52	1.25	2.50	5.00	ug/Kg wet	50.00		97.0	78-125			
Bromodichloromethane	49.91	1.25	2.50	5.00	ug/Kg wet	50.00		99.8	75-127			
Bromoform	51.74	1.25	2.50	5.00	ug/Kg wet	50.00		103	67-132			
Bromomethane	55.03	2.50	5.00	10.0	ug/Kg wet	50.00		110	53-143			
2-Butanone	128.3	2.50	5.00	10.0	ug/Kg wet	100.0		128	51-148			
tert-Butyl alcohol	194.9	5.00	10.0	20.0	ug/Kg wet	250.0		78.0	68-133			
EMPIRICAL LABORATORIES, LLC	Work Or	der: 170	2005		rt Date: 2-38	02/08/20	17					

						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B07001												
LCS			P	repared	& Analyz	ed: 02/07	/2017					
n-Butylbenzene	51.16	1.25	2.50	5.00	ug/Kg wet	50.00		102	70-128			
sec-Butylbenzene	49.89	1.25	2.50	5.00	ug/Kg wet	50.00		99.8	73-126			
tert-Butylbenzene	51.33	1.25	2.50	5.00	ug/Kg wet	50.00		103	73-125			
Carbon disulfide	46.76	1.25	2.50	5.00	ug/Kg wet	50.00		93.5	63-132			
Carbon tetrachloride	49.24	1.25	2.50	5.00	ug/Kg wet	50.00		98.5	70-135			
Chlorobenzene	54.64	1.25	2.50	5.00	ug/Kg wet	50.00		109	79-120			
Chloroethane	48.34	2.50	5.00	10.0	ug/Kg wet	50.00		96.7	59-139			
2-Chloroethyl vinyl ether	145.9	25.0	50.0	100	ug/Kg wet	100.0		146	43-149			
Chloroform	46.17	1.25	2.50	5.00	ug/Kg wet	50.00		92.3	78-123			
1-Chlorohexane	54.04	1.25	2.50	5.00	ug/Kg	50.00		108	71-130			
Chloromethane	46.25	2.50	5.00	10.0	wet ug/Kg wet	50.00		92.5	50-136			
Chloroprene	47.05	1.25	2.50	5.00	ug/Kg	50.00		94.1	65-133			
2-Chlorotoluene	49.58	1.25	2.50	5.00	wet ug/Kg	50.00		99.2	75-122			
4-Chlorotoluene	51.48	1.25	2.50	5.00	wet ug/Kg	50.00		103	72-124			
Cyclohexane	48.51	1.25	2.50	5.00	wet ug/Kg	50.00		97.0	67-131			
1,2-Dibromo-3-chloropropane	47.04	2.50	5.00	10.0	wet ug/Kg	50.00		94.1	61-132			
Dibromochloromethane	51.07	1.25	2.50	5.00	wet ug/Kg	50.00		102	74-126			
1,2-Dibromoethane (EDB)	51.44	1.25	2.50	5.00	00	50.00		103	78-122			
Dibromomethane	48.71	1.25	2.50	5.00	wet ug/Kg wet	50.00		97.4	78-125			
1,4-Dichloro-2-butene (total)	47.75	2.50	5.00	10.0	ug/Kg wet				43-146			
cis-1,4-Dichloro-2-butene	47.75	1.25	2.50	5.00	ug/Kg	50.00		95.5	69-143			
trans-1,4-Dichloro-2-butene	45.58	1.25	2.50	5.00	wet ug/Kg	50.00		91.2	62-136			
1,2-Dichlorobenzene	50.13	1.25	2.50	5.00	wet ug/Kg	50.00		100	78-121			
1,4-Dichlorobenzene	50.90	1.25	2.50	5.00	wet ug/Kg	50.00		102	75-120			
1,3-Dichlorobenzene	51.64	1.25	2.50	5.00	wet ug/Kg	50.00		103	77-121			
Dichlorodifluoromethane	51.37	2.50	5.00	10.0	wet ug/Kg wet	50.00		103	29-149			

EMPIRICAL LABORATORIES, LLC

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						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B07001												
LCS			P	repared	& Analyz	ed: 02/07	/2017					
1,1-Dichloroethane	46.78	1.25	2.50	5.00	ug/Kg wet	50.00		93.6	76-125			
1,2-Dichloroethane	45.98	1.25	2.50	5.00	ug/Kg wet	50.00		92.0	73-128			
1,1-Dichloroethene	49.05	1.25	2.50	5.00	ug/Kg wet	50.00		98.1	70-131			
1,2-Dichloroethene (total)	98.72	2.50	5.00	10.0	ug/Kg wet	100.0		98.7	78-122			
cis-1,2-Dichloroethene	49.72	1.25	2.50	5.00	ug/Kg wet	50.00		99.4	77-123			
trans-1,2-Dichloroethene	49.00	1.25	2.50	5.00	ug/Kg wet	50.00		98.0	74-125			
1,2-Dichloropropane	47.40	1.25	2.50	5.00	ug/Kg wet	50.00		94.8	76-123			
1,3-Dichloropropane	53.04	1.25	2.50	5.00	ug/Kg wet	50.00		106	77-121			
2,2-Dichloropropane	48.95	1.25	2.50	5.00	ug/Kg wet	50.00		97.9	67-133			
1,1-Dichloropropene	46.62	1.25	2.50	5.00	ug/Kg wet	50.00		93.2	76-125			
1,3-Dichloropropene (total)	101.3	2.50	5.00	10.0	ug/Kg wet	100.0		101	77-126			
cis-1,3-Dichloropropene	51.54	1.25	2.50	5.00	ug/Kg wet	50.00		103	74-126			
trans-1,3-Dichloropropene	49.75	1.25	2.50	5.00	ug/Kg	50.00		99.5	71-130			
Diethyl ether	45.73	1.25	2.50	5.00	wet ug/Kg	50.00		91.5	71-129			
1,4-Dioxane	866.3	40.0	100	200	wet ug/Kg	1000		86.6	55-138			
Ethylbenzene	53.66	1.25	2.50	5.00	wet ug/Kg	50.00		107	76-122			
Ethyl Methacrylate	51.62	1.25	2.50	5.00	wet ug/Kg	50.00		103	69-129			
Hexachlorobutadiene	45.32	1.25	2.50	5.00	wet ug/Kg	50.00		90.6	61-135			
Hexane	46.52	1.25	2.50	5.00	wet ug/Kg	50.00		93.0	45-142			
2-Hexanone	120.7	2.50	5.00	10.0	wet ug/Kg	100.0		121	53-145			
Iodomethane	45.79	5.00	10.0	20.0	wet ug/Kg	50.00		91.6	71-131			
Isobutyl alcohol	863.1	20.0	40.0	100	wet ug/Kg	1000		86.3	60-135			
Isopropylbenzene	52.08	1.25	2.50	5.00	wet ug/Kg	50.00		104	68-134			
p-Isopropyltoluene	52.07	1.25	2.50	5.00	wet ug/Kg	50.00		104	73-127			
Methacrylonitrile	474.6	10.0	25.0	50.0	wet ug/Kg	500.0		94.9	66-132			
Methyl Acetate	44.44	2.50	5.00	10.0	wet ug/Kg wet	50.00		88.9	53-144			

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						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B07001												
LCS			Р	repared	& Analyz	ed: 02/07	7/2017					
Methylcyclohexane	50.83	1.25	2.50	5.00	ug/Kg wet	50.00		102	66-133			
Methylene chloride	44.92	2.50	5.00	10.0	ug/Kg wet	50.00		89.8	70-128			
Methyl Methacrylate	44.71	1.25	2.50	5.00	ug/Kg wet	50.00		89.4	63-134			
4-Methyl-2-pentanone	95.64	2.50	5.00	10.0	ug/Kg wet	100.0		95.6	65-135			
Methyl t-Butyl Ether	47.33	1.25	2.50	5.00	ug/Kg wet	50.00		94.7	73-125			
Naphthalene	44.54	1.25	2.50	5.00	ug/Kg wet	50.00		89.1	62-129			
Propionitrile	434.0	10.0	25.0	50.0	ug/Kg wet	500.0		86.8	68-134			
n-Propylbenzene	51.48	1.25	2.50	5.00	ug/Kg	50.00		103	73-125			
Styrene	50.60	1.25	2.50	5.00	wet ug/Kg	50.00		101	76-124			
1,1,1,2-Tetrachloroethane	51.75	1.25	2.50	5.00	wet ug/Kg	50.00		104	78-125			
1,1,2,2-Tetrachloroethane	48.98	1.25	2.50	5.00	wet ug/Kg	50.00		98.0	70-124			
Tetrachloroethene	56.07	1.25	2.50	5.00	wet ug/Kg	50.00		112	73-128			
Tetrahydrofuran	48.36	2.50	5.00	10.0	wet ug/Kg	50.00		96.7	61-135			
Toluene	54.40	1.25	2.50	5.00	wet ug/Kg	50.00		109	77-121			
1,2,3-Trichlorobenzene	46.00	1.25	2.50	5.00	wet ug/Kg	50.00		92.0	66-130			
1,2,4-Trichlorobenzene	46.13	1.25	2.50	5.00	wet ug/Kg	50.00		92.3	67-129			
1,3,5-Trichlorobenzene	48.89	1.25	2.50	5.00	wet ug/Kg	50.00		97.8	71-128			
1,1,1-Trichloroethane	50.11	1.25	2.50	5.00	wet ug/Kg	50.00		100	73-130			
1,1,2-Trichloroethane	50.53	1.25	2.50	5.00	wet ug/Kg	50.00		101	78-121			
Trichloroethene	50.35	1.25	2.50	5.00	wet ug/Kg	50.00		101	77-123			
Trichlorofluoromethane	49.72	2.50	5.00	10.0	wet ug/Kg	50.00		99.4	62-140			
1,2,3-Trichloropropane	50.13	1.25	2.50	5.00	wet ug/Kg	50.00		100	73-125			
1,1,2-Trichloro-1,2,2-trifluoroethan	46.63	2.50	5.00	10.0	wet ug/Kg	50.00		93.3	66-136			
e					wet							
1,2,4-Trimethylbenzene	46.91	1.25	2.50	5.00	ug/Kg wet	50.00		93.8	75-123			
1,3,5-Trimethylbenzene	46.92	1.25	2.50	5.00	ug/Kg wet	50.00		93.8	73-124			
Vinyl acetate	87.99	2.50	5.00	10.0	ug/Kg wet	100.0		88.0	50-151			
-					wet ug/Kg							

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Analyte	Result	DL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	DL	LOD	LOQ	Units	Level	Kesuit	/0KEC	Linits	KFD	Liiiit	Notes
Batch 7B07001												
LCS			Р	repared	& Analyz	ed: 02/07	/2017					
Vinyl chloride	49.45	1.25	2.50	5.00	ug/Kg wet	50.00		98.9	56-135			
m,p-Xylene	109.9	2.50	5.00	10.0	ug/Kg wet	100.0		110	77-124			
o-Xylene	54.04	1.25	2.50	5.00	ug/Kg wet	50.00		108	77-123			
Xylenes (total)	164.0	3.75	7.50	15.0	ug/Kg wet	150.0		109	78-124			
Surrogate: Bromofluorobenzene	31.4	13			ug/Kg wet	30.00		105	79-119			
Surrogate: Dibromofluoromethane	28.9	20			ug/Kg wet	30.00		96.3	78-119			
Surrogate: 1,2-Dichloroethane-d4	28.2	28			ug/Kg wet	30.00		94.3	71-136			
Surrogate: Toluene-d8	30.6	51			ug/Kg wet	30.00		102	85-116			
LCS			Р	repared	& Analyz	ed: 02/07	/2017					
Acetone	70.13	5.00	10.0	20.0	ug/Kg wet	100.0		70.1	36-164			
Surrogate: Bromofluorobenzene	28.9	98			ug/Kg wet	30.00		96.6	79-119			
Surrogate: Dibromofluoromethane	27.7	70			ug/Kg wet	30.00		92.3	78-119			
Surrogate: 1,2-Dichloroethane-d4	26.4	1			ug/Kg wet	30.00		88.0	71-136			
Surrogate: Toluene-d8	30.8	81			ug/Kg wet	30.00		103	85-116			

Analyte	Result	DL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	itesuit	22	202	204	emb	20101	result	, und e	Linno	iu b	2	110000
Batch 7B06012							1	- /2 0 / -				
Blank Acenaphthene	ND	83.3	167	repared: 333	02/06/20 ug/Kg	17 Analy	zed: 02/0	//2017				U
reenaphinene	T(D)	05.5	107	555	wet							0
Acenaphthylene	ND	83.3	167	333	ug/Kg wet							U
Acetophenone	ND	83.3	167	333	ug/Kg							U
Aniline	ND	83.3	167	333	wet ug/Kg							U
Annine	ND	83.3	107	333	wet							0
Anthracene	ND	83.3	167	333	ug/Kg							U
Atrazine	ND	83.3	167	333	wet ug/Kg							U
~					wet							
Benzaldehyde	ND	83.3	167	333	ug/Kg wet							U
Benzidine	ND	83.3	1670	3330	ug/Kg							U
Benzo(a)anthracene	ND	83.3	167	333	wet ug/Kg							U
					wet							
Benzo(a)pyrene	ND	83.3	167	333	ug/Kg wet							U
Benzo(b)fluoranthene	ND	83.3	167	333	ug/Kg							U
Benzo(g,h,i)perylene	ND	83.3	167	333	wet ug/Kg							U
Benzo(g,n,1)peryrene	ND	85.5	107	555	wet							
Benzoic acid	ND	83.3	667	1330	ug/Kg wet							Q, U
Benzo(k)fluoranthene	ND	83.3	167	333	ug/Kg							U
Danzyl alaahal	ND	83.3	167	222	wet							U
Benzyl alcohol	ND	85.5	107	333	ug/Kg wet							0
1,1-Biphenyl	ND	83.3	167	333	ug/Kg							U
4-Bromophenyl-phenylether	ND	83.3	167	333	wet ug/Kg							U
					wet							
Butylbenzylphthalate	ND	83.3	167	333	ug/Kg wet							U
Caprolactam	ND	83.3	167	333	ug/Kg							U
Carbazole	ND	83.3	167	333	wet ug/Kg							U
					wet							
4-Chloro-3-methylphenol	ND	83.3	167	333	ug/Kg wet							U
4-Chloroaniline	ND	83.3	167	333	ug/Kg							U
Bis(2-chloroethoxy)methane	ND	83.3	167	333	wet ug/Kg							U
					wet							
Bis(2-chloroethyl)ether	ND	83.3	167	333	ug/Kg wet							U
2,2'-Oxybis-1-chloropropane	ND	83.3	167	333	ug/Kg							U
2-Chloronaphthalene		02.2	1(7		wet							U
2-Cinoronaphinaiene	ND	83.3	167	333	ug/Kg wet							U

EMPIRICAL LABORATORIES, LLC

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	~ ·	N ²	1.07	100	** ·	Spike	Source	0/757	%REC	DDD	RPD	N T -
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B06012												
Blank			Р	repared	02/06/20	17 Analy	zed: 02/0	7/2017				
2-Chlorophenol	ND	83.3	167	333	ug/Kg							U
4-Chlorophenyl phenyl ether	ND	83.3	167	333	wet ug/Kg wet							Ŭ
Chrysene	ND	83.3	167	333	ug/Kg wet							Ŭ
Dibenz(a,h)anthracene	ND	83.3	167	333	ug/Kg wet							U
Dibenzofuran	ND	83.3	167	333	ug/Kg wet							Ŭ
Di-n-butylphthalate	429	83.3	167	333	ug/Kg wet							
1,4-Dichlorobenzene	ND	83.3	167	333	ug/Kg wet							U
1,3-Dichlorobenzene	ND	83.3	167	333	ug/Kg wet							U
1,2-Dichlorobenzene	ND	83.3	167	333	ug/Kg wet							U
3,3'-Dichlorobenzidine	ND	83.3	167	333	ug/Kg wet							Ŭ
2,6-Dichlorophenol	ND	83.3	167	333	ug/Kg wet							U
2,4-Dichlorophenol	ND	83.3	167	333	ug/Kg wet							U
Diethylphthalate	ND	83.3	167	333	ug/Kg wet							Ŭ
2,4-Dimethylphenol Dimethyl phthalate	ND ND	333 83.3	667 167	1330 333	ug/Kg wet ug/Kg							U U
4,6-Dinitro-2-methylphenol	ND	833	1670	3330	wet ug/Kg							Ŭ
2,4-Dinitrophenol	ND	833	1670	3330	wet ug/Kg							τ
2,4-Dinitrotoluene	ND	83.3	167		wet ug/Kg							Ŭ
2,6-Dinitrotoluene	ND	83.3	167	333	wet ug/Kg							Ŭ
Di-n-octylphthalate	ND	83.3	167	333	wet ug/Kg							Ŭ
1,4-Dioxane	ND	83.3	167	333	wet ug/Kg							Ŭ
1,2-Diphenylhydrazine (as	ND	83.3	167	333	wet ug/Kg							U
Azobenzene) Bis(2-ethylhexyl)phthalate	ND	83.3	167	333	wet ug/Kg wet							Ŭ
Fluoranthene	ND	83.3	167	333	ug/Kg wet							Ŭ
Fluorene	ND	83.3	167	333	ug/Kg wet							U
Hexachlorobenzene	ND	83.3	167	333	ug/Kg wet							U

EMPIRICAL LABORATORIES, LLC

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						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B06012												
Blank			Р	repared:	02/06/20	17 Analy	zed: 02/0	7/2017				
Hexachlorobutadiene	ND	83.3	167	333	ug/Kg							U
Hexachlorocyclopentadiene	ND	83.3	167	333	wet ug/Kg wet							U
Hexachloroethane	ND	83.3	167	333	ug/Kg wet							U
Indeno(1,2,3-cd)pyrene	ND	83.3	167	333	ug/Kg wet							U
Isophorone	ND	83.3	167	333	ug/Kg wet							U
1-Methylnaphthalene	ND	83.3	167	333	ug/Kg wet							U
2-Methylnaphthalene	ND	83.3	167	333	ug/Kg wet							U
2-Methylphenol	ND	83.3	167	333	ug/Kg wet							U
3-Methylphenol	ND	83.3	167	333	ug/Kg wet							U
3-Methylphenol/4-Methylphenol	ND	83.3	167	333	ug/Kg wet							U
4-Methylphenol	ND	83.3	167	333	ug/Kg wet							U
Naphthalene	ND	83.3	167	333	ug/Kg wet							U
4-Nitroaniline	ND	333	667	1330	ug/Kg wet							U
3-Nitroaniline	ND	333	667	1330	ug/Kg wet							U
2-Nitroaniline	ND	333	667	1330	ug/Kg wet							U
Nitrobenzene	ND	83.3	167	333	ug/Kg wet							U
4-Nitrophenol	ND	333	667	1330	ug/Kg wet							U
2-Nitrophenol	ND	83.3	167	333	ug/Kg wet							U
N-Nitrosodimethylamine	ND	83.3	167	333	ug/Kg wet							U
N-Nitrosodiphenylamine	ND	83.3	167	333	ug/Kg wet							U
N-Nitroso-di-n-propylamine	ND	83.3	167	333	ug/Kg wet							U
Pentachlorophenol	ND	333	667	1330	ug/Kg wet							U
Phenanthrene	ND	83.3	167	333	ug/Kg wet							U
Phenol	ND	83.3	167	333	ug/Kg wet							U
Pyrene	ND	83.3	167	333	ug/Kg wet							U
1,2,4,5-Tetrachlorobenzene	ND	83.3	167	333	ug/Kg wet							U

EMPIRICAL LABORATORIES, LLC

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		DI			.	Spike	Source	WEEG	%REC		RPD	NX .	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 7B06012													
Blank 2,3,4,6-Tetrachlorophenol	ND	83.3	P 167	repared: 333	02/06/20 ug/Kg)17 Analy	zed: 02/0	red: 02/07/2017					
2,5,4,0-10100000000000	ND	65.5	107	333	wet							U	
1,2,4-Trichlorobenzene	ND	83.3	167	333	ug/Kg wet							U	
2,4,6-Trichlorophenol	ND	83.3	167	333	ug/Kg wet							U	
2,4,5-Trichlorophenol	ND	83.3	167	333	ug/Kg wet							U	
					wet								
Surrogate: 2-Fluorobiphenyl	203	9			ug/Kg wet	3333		61.2	44-114				
Surrogate: 2-Fluorophenol	396	0			ug/Kg wet	6667		59.4	35-115				
Surrogate: Nitrobenzene-d5	152	9			wei ug/Kg wet	3333		45.9	37-122				
Surrogate: Phenol-d6	372	4			wei ug/Kg wet	6667		55.9	33-122				
Surrogate: Terphenyl-d14	214	8			wei ug/Kg wet	3333		64.4	54-127				
Surrogate: 2,4,6-Tribromophenol	335	5			wei ug/Kg wet	6667		50.3	39-132				
			п			17 4		7/2017					
LCS Acenaphthene	2834	83.3	P 167	333	ug/Kg	017 Analy 3333	zeu. 02/0	85.0	40-123				
Acenaphthylene	2731	83.3	167	333	wet ug/Kg	3333		81.9	32-132				
					wet				00.115				
Acetophenone	1884	83.3	167	333	ug/Kg wet	3333		56.5	33-115				
Aniline	1828	83.3	167	333	ug/Kg wet	3333		54.8	36-110				
Anthracene	2293	83.3	167	333	ug/Kg wet	3333		68.8	47-123				
Atrazine	2007	83.3	167	333	ug/Kg wet	3333		60.2	47-127				
Benzaldehyde	2057	83.3	167	333	ug/Kg wet	3333		61.7	55-110				
Benzidine	866.3	83.3	1670	3330	ug/Kg wet	3333		26.0	0-110			J	
Benzo(a)anthracene	2509	83.3	167	333	ug/Kg wet	3333		75.3	49-126				
Benzo(a)pyrene	2267	83.3	167	333	ug/Kg wet	3333		68.0	45-129				
Benzo(b)fluoranthene	2318	83.3	167	333	ug/Kg wet	3333		69.5	45-132				
Benzo(g,h,i)perylene	2443	83.3	167	333	ug/Kg wet	3333		73.3	43-134				
Benzoic acid	2013	83.3	667	1330	ug/Kg wet	6667		30.2	41-136				
Benzo(k)fluoranthene	2350	83.3	167	333	ug/Kg wet	3333		70.5	47-132				
Benzyl alcohol	2095	83.3	167	333	ug/Kg wet	3333		62.9	29-122				
EMPIRICAL LABORATORIES, LLC	Work Order: 1702005				rt Date:	02/08/20	17						

						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B06012												
LCS			Р	-		17 Analy	zed: 02/0	7/2017				
1,1-Biphenyl	2718	83.3	167	333	ug/Kg wet	3333		81.5	40-117			
4-Bromophenyl-phenylether	2145	83.3	167	333	ug/Kg wet	3333		64.4	46-124			
Butylbenzylphthalate	2742	83.3	167	333	ug/Kg wet	3333		82.3	48-132			
Caprolactam	2073	83.3	167	333	ug/Kg wet	3333		62.2	46-117			
Carbazole	2440	83.3	167	333	ug/Kg wet	3333		73.2	50-123			
4-Chloro-3-methylphenol	3766	83.3	167	333	ug/Kg wet	6667		56.5	45-122			
4-Chloroaniline	2032	83.3	167	333	ug/Kg wet	3333		61.0	17-106			
Bis(2-chloroethoxy)methane	1995	83.3	167	333	ug/Kg wet	3333		59.9	36-121			
Bis(2-chloroethyl)ether	1956	83.3	167	333	ug/Kg wet	3333		58.7	31-120			
2,2'-Oxybis-1-chloropropane	1991	83.3	167	333	ug/Kg wet	3333		59.7	33-131			
2-Chloronaphthalene	2609	83.3	167	333	ug/Kg wet	3333		78.3	41-114			
2-Chlorophenol	4517	83.3	167	333	ug/Kg wet	6667		67.8	34-121			
4-Chlorophenyl phenyl ether	2528	83.3	167	333	ug/Kg wet	3333		75.8	45-121			
Chrysene	2601	83.3	167	333	ug/Kg wet	3333		78.0	50-124			
Dibenz(a,h)anthracene	2432	83.3	167	333	ug/Kg wet	3333		73.0	45-134			
Dibenzofuran	2592	83.3	167	333	ug/Kg wet	3333		77.8	44-120			
Di-n-butylphthalate	2935	83.3	167	333	ug/Kg wet	3333		88.1	51-128			В
1,4-Dichlorobenzene	1950	83.3	167	333	ug/Kg wet	3333		58.5	31-115			
1,3-Dichlorobenzene	1959	83.3	167	333	ug/Kg wet	3333		58.8	30-115			
1,2-Dichlorobenzene	1975	83.3	167	333	ug/Kg wet	3333		59.3	33-117			
3,3'-Dichlorobenzidine	1772	83.3	167	333	ug/Kg wet	3333		53.2	22-121			
2,6-Dichlorophenol	1970	83.3	167	333	ug/Kg	3333		59.1	41-117			
2,4-Dichlorophenol	4162	83.3	167	333	wet ug/Kg wet	6667		62.4	40-122			
Diethylphthalate	2719	83.3	167	333	ug/Kg wet	3333		81.6	50-124			
2,4-Dimethylphenol	3926	333	667	1330	ug/Kg wet	6667		58.9	30-127			
Dimethyl phthalate	2598	83.3	167	333	ug/Kg wet	3333		77.9	48-124			

EMPIRICAL LABORATORIES, LLC

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						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B06012												
LCS			P	repared:	02/06/20	17 Analy	zed: 02/0'	7/2017				
4,6-Dinitro-2-methylphenol	4420	833	1670	3330	ug/Kg wet	6667		66.3	29-132			
2,4-Dinitrophenol	5572	833	1670	3330	ug/Kg wet	6667		83.6	48-113			
2,4-Dinitrotoluene	2514	83.3	167	333	ug/Kg wet	3333		75.4	48-126			
2,6-Dinitrotoluene	2444	83.3	167	333	ug/Kg wet	3333		73.3	46-124			
Di-n-octylphthalate	2659	83.3	167	333	ug/Kg wet	3333		79.8	45-140			
1,4-Dioxane	1751	83.3	167	333	ug/Kg wet	3333		52.5	43-110			
1,2-Diphenylhydrazine (as Azobenzene)	2077	83.3	167	333	ug/Kg wet	3333		62.3	41-125			
Bis(2-ethylhexyl)phthalate	2827	83.3	167	333	ug/Kg wet	3333		84.8	51-133			
Fluoranthene	2265	83.3	167	333	ug/Kg wet	3333		67.9	50-127			
Fluorene	2657	83.3	167	333	ug/Kg wet	3333		79.7	43-125			
Hexachlorobenzene	2171	83.3	167	333	ug/Kg wet	3333		65.1	45-122			
Hexachlorobutadiene	1975	83.3	167	333	ug/Kg wet	3333		59.2	32-123			
Hexachlorocyclopentadiene	2802	83.3	167	333	ug/Kg wet	3333		84.0	42-110			
Hexachloroethane	1851	83.3	167	333	ug/Kg wet	3333		55.5	28-117			
Indeno(1,2,3-cd)pyrene	2325	83.3	167	333	ug/Kg wet	3333		69.7	45-133			
Isophorone	1895	83.3	167	333	ug/Kg wet	3333		56.9	30-122			
1-Methylnaphthalene	1988	83.3	167	333	ug/Kg wet	3333		59.6	40-119			
2-Methylnaphthalene	2102	83.3	167	333	ug/Kg wet	3333		63.1	38-122			
2-Methylphenol	4246	83.3	167	333	ug/Kg wet	6667		63.7	32-122			
3-Methylphenol/4-Methylphenol	4150	83.3	167	333	ug/Kg wet	6667		62.3	34-119			
3-Methylphenol	4155	83.3	167	333	ug/Kg	6667		62.3	34-119			
4-Methylphenol	4152	83.3	167	333	wet ug/Kg	6667		62.3	42-126			
Naphthalene	2143	83.3	167	333	wet ug/Kg	3333		64.3	35-123			
4-Nitroaniline	2921	333	667	1330	wet ug/Kg	3333		87.6	73-112			
3-Nitroaniline	2562	333	667	1330	wet ug/Kg	3333		76.9	33-119			
2-Nitroaniline	2374	333	667	1330	wet ug/Kg wet	3333		71.2	44-127			

EMPIRICAL LABORATORIES, LLC

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			Units	Level	Result	%REC	Limits	RPD	Limit	Notes			
Prepared: 02/06/2017 Analyzed: 02/07/2017 1737 83.3 167 333 ug/Kg 3333 52.1 34-122													
83.3	167	333	ug/Kg	3333		52.1	34-122						
333	667	1330	wet ug/Kg wet	6667		67.9	30-132						
83.3	167	333	ug/Kg wet	6667		64.5	36-123						
83.3	167	333	ug/Kg wet	3333		58.3	23-120						
83.3	167	333	ug/Kg wet	3333		57.1	38-127						
83.3	167	333	ug/Kg wet	3333		54.9	36-120						
333	667	1330	ug/Kg wet	6667		76.2	25-133						
83.3	167	333	ug/Kg wet	3333		70.1	50-121						
83.3	167	333	ug/Kg wet	6667		55.0	34-121						
83.3	167	333	ug/Kg wet	3333		75.1	47-127						
83.3	167	333	ug/Kg wet	3333		55.5	37-119						
83.3	167	333	ug/Kg wet	3333		63.6	44-125						
83.3	167	333	ug/Kg wet	3333		59.4	34-118						
83.3	167	333	ug/Kg wet	6667		75.3	39-126						
83.3	167	333	ug/Kg wet	6667		78.3	41-124						
2323			ug/Kg	3333		69.7	44-114						
4537			ug/Kg	6667		68.0	35-115						
1716			ug/Kg	3333		51.5	37-122						
4232			ug/Kg	6667		63.5	33-122						
2397			ug/Kg	3333		71.9	54-127						
4095			ug/Kg wet	6667		61.4	39-132						
: 1702005-0	1 F	Prepared:	02/06/20	17 Analy	zed: 02/0'	7/2017							
	203	404	ug/Kg	4044	ND	90.8	40-123						
101	203	404	ug/Kg	4044	ND	87.0	32-132						
101	203	404	ug/Kg	4044	ND	59.9	33-115						
101	203	404	ug/Kg	4044	ND	55.2	36-110						
	83.3 2323 4537 1716 4232 2397 4095 : 1702005-0 101 101 101	83.3 167 2323 4537 1716 4232 2397 4095 : 1702005-01 F 101 203 101 203 101 203	83.3 167 333 2323 4537 1716 4232 2397 4095 : 1702005-01 Prepared: 101 203 404 101 203 404 101 203 404	83.3 167 333 wet ug/Kg wet 2323 ug/Kg wet 4537 ug/Kg wet 1716 ug/Kg wet 1716 ug/Kg wet 2323 ug/Kg wet 1716 ug/Kg wet 2397 ug/Kg wet 2397 ug/Kg wet 101 203 404 ug/Kg dry 101 203 404 ug/Kg	wet wet wet 83.3 167 333 ug/Kg 6667 2323 ug/Kg 3333 wet 2323 ug/Kg 3333 wet 4537 ug/Kg 6667 wet 1716 ug/Kg 3333 wet 4232 ug/Kg 6667 wet 2397 ug/Kg 3333 wet 4095 ug/Kg 6667 wet 101 203 404 ug/Kg 4044 dry 101 203 404 ug/Kg 4044	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	83.3 167 333 wet ug/Kg 6667 78.3 2323 ug/Kg 3333 69.7 4537 ug/Kg 6667 68.0 4537 ug/Kg 6667 68.0 1716 ug/Kg 3333 51.5 4232 ug/Kg 6667 63.5 2397 ug/Kg 6667 61.4 4095 ug/Kg 6667 61.4 wet ug/Kg 4044 ND 90.8 101 203 404 ug/Kg 4044 ND 90.9 101 203 404 ug/Kg 4044 ND 59.9 101 203 404 ug/Kg 4044 ND	83.3167333wet ug/Kg666778.341-1242323 ug/Kg 333369.744-114 wet4537 ug/Kg 666768.035-115 wet1716 ug/Kg 333351.537-122 wet4232 ug/Kg 666763.533-122 wet2397 ug/Kg 666761.439-132 wet2397 ug/Kg 666761.439-132 wet101203404ug/Kg4044ND90.840-123 dry101203404ug/Kg4044ND87.032-132 dry101203404ug/Kg4044ND59.933-115 dry101203404ug/Kg4044ND59.933-115 dry101203404ug/Kg4044ND59.933-115 dry101203404ug/Kg4044ND59.933-115 dry	83.3167333wet ug/Kg666778.341-1242323 ug/Kg 333369.744-114 wet4537 ug/Kg 666768.035-115 wet1716 ug/Kg 333351.537-122 wet4232 ug/Kg 666763.533-122 wet2397 ug/Kg 666763.533-122 wet2397 ug/Kg 666761.439-132wet ug/Kg 666761.439-132101203404 ug/Kg 4044ND90.840-123 dry101203404 ug/Kg 4044ND59.933-115 dry101203404 ug/Kg 4044ND59.933-115 dry101203404 ug/Kg 4044ND59.933-115 dry101203404 ug/Kg 4044ND59.933-115 dry101203404 ug/Kg 4044ND59.933-115 dry101203404 ug/Kg 4044ND59.933-115 dry	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			

EMPIRICAL LABORATORIES, LLC

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						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B06012												
Matrix Spike	Source: 17	02005-01		repared:			zed: 02/0	7/2017				
Anthracene	3072	101	203	404	ug/Kg dry	4044	ND	76.0	47-123			
Atrazine	2576	101	203	404	ug/Kg dry	4044	ND	63.7	47-127			
Benzaldehyde	2684	101	203	404	ug/Kg dry	4044	ND	66.4	55-110			
Benzidine	ND	101	2030	4040	ug/Kg dry	4044	ND		0-110			U
Benzo(a)anthracene	3369	101	203	404	ug/Kg dry	4044	ND	83.3	49-126			
Benzo(a)pyrene	3042	101	203	404	ug/Kg dry	4044	ND	75.2	45-129			
Benzo(b)fluoranthene	3137	101	203	404	ug/Kg dry	4044	ND	77.6	45-132			
Benzo(g,h,i)perylene	3238	101	203	404	ug/Kg dry	4044	ND	80.1	43-134			
Benzoic acid	505.9	101	809	1610	ug/Kg dry	8089	ND	6.25	41-136			Q, J
Benzo(k)fluoranthene	3185	101	203	404	ug/Kg dry	4044	ND	78.8	47-132			
Benzyl alcohol	2655	101	203	404	ug/Kg dry	4044	ND	65.6	29-122			
1,1-Biphenyl	3494	101	203	404	ug/Kg dry	4044	ND	86.4	40-117			
4-Bromophenyl-phenylether	2880	101	203	404	ug/Kg dry	4044	ND	71.2	46-124			
Butylbenzylphthalate	3756	101	203	404	ug/Kg dry	4044	ND	92.9	48-132			
Caprolactam	2811	101	203	404	ug/Kg dry	4044	ND	69.5	46-117			
Carbazole	2223	101	203	404	ug/Kg dry	4044	ND	55.0	50-123			
4-Chloro-3-methylphenol	4873	101	203	404	ug/Kg dry	8089	ND	60.2	45-122			
4-Chloroaniline	2443	101	203	404	ug/Kg dry	4044	ND	60.4	17-106			
Bis(2-chloroethoxy)methane	2548	101	203	404	ug/Kg dry	4044	ND	63.0	36-121			
Bis(2-chloroethyl)ether	2520	101	203	404	ug/Kg dry	4044	ND	62.3	31-120			
2,2'-Oxybis-1-chloropropane	2542	101	203	404	ug/Kg dry	4044	ND	62.8	33-131			
2-Chloronaphthalene	3299	101	203	404	ug/Kg dry	4044	ND	81.6	41-114			
2-Chlorophenol	5560	101	203	404	ug/Kg dry	8089	ND	68.7	34-121			
4-Chlorophenyl phenyl ether	3285	101	203	404	ug/Kg dry	4044	ND	81.2	45-121			
Chrysene	3548	101	203	404	ug/Kg dry	4044	ND	87.7	50-124			
Dibenz(a,h)anthracene	3236	101	203	404	ug/Kg dry	4044	ND	80.0	45-134			

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B06012												
Matrix Spike	Source: 1'	702005-01	Р	repared	02/06/20)17 Analy	zed: 02/0	7/2017				
Dibenzofuran	3348	101	203	404	ug/Kg dry	4044	ND	82.8	44-120			
Di-n-butylphthalate	3865	101	203	404	ug/Kg dry	4044	375.9	86.3	51-128			В
1,4-Dichlorobenzene	2468	101	203	404	ug/Kg dry	4044	ND	61.0	31-115			
1,3-Dichlorobenzene	2481	101	203	404	ug/Kg dry	4044	ND	61.3	30-115			
1,2-Dichlorobenzene	2489	101	203	404	ug/Kg dry	4044	ND	61.5	33-117			
3,3'-Dichlorobenzidine	985.7	101	203	404	ug/Kg dry	4044	ND	24.4	22-121			
2,6-Dichlorophenol	2531	101	203	404	ug/Kg dry	4044	ND	62.6	41-117			
2,4-Dichlorophenol	5395	101	203	404	ug/Kg dry	8089	ND	66.7	40-122			
Diethylphthalate	3544	101	203	404	ug/Kg dry	4044	ND	87.6	50-124			
2,4-Dimethylphenol	4869	404	809	1610	ug/Kg dry	8089	ND	60.2	30-127			
Dimethyl phthalate	3312	101	203	404	ug/Kg dry	4044	ND	81.9	48-124			
4,6-Dinitro-2-methylphenol	4913	1010	2030	4040	ug/Kg dry	8089	ND	60.7	29-132			
2,4-Dinitrophenol	3751	1010	2030	4040	ug/Kg dry	8089	ND	46.4	48-113			J
2,4-Dinitrotoluene	3303	101	203	404	ug/Kg dry	4044	ND	81.7	48-126			
2,6-Dinitrotoluene	3216	101	203	404	ug/Kg dry	4044	ND	79.5	46-124			
Di-n-octylphthalate	3594	101	203	404	ug/Kg dry	4044	ND	88.9	45-140			
1,4-Dioxane	2076	101	203	404	ug/Kg dry	4044	ND	51.3	43-110			
1,2-Diphenylhydrazine (as Azobenzene)	2721	101	203	404	ug/Kg dry	4044	ND	67.3	41-125			
Bis(2-ethylhexyl)phthalate	3941	101	203	404	ug/Kg dry	4044	186.3	92.8	51-133			
Fluoranthene	3075	101	203	404	ug/Kg dry	4044	ND	76.0	50-127			
Fluorene	3383	101	203	404	ug/Kg dry	4044	ND	83.7	43-125			
Hexachlorobenzene	2911	101	203	404	ug/Kg dry	4044	ND	72.0	45-122			
Hexachlorobutadiene	2495	101	203	404	ug/Kg dry	4044	ND	61.7	32-123			
Hexachlorocyclopentadiene	3427	101	203	404	ug/Kg dry	4044	ND	84.7	42-110			
Hexachloroethane	2310	101	203	404	ug/Kg dry	4044	ND	57.1	28-117			
Indeno(1,2,3-cd)pyrene	3065	101	203	404	ug/Kg dry	4044	ND	75.8	45-133			

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Report Date: 02/08/2017

						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B06012												
Matrix Spike	Source: 17	02005-01	Р	repared:	02/06/20	17 Analy	zed: 02/0	7/2017				
Isophorone	2473	101	203	404	ug/Kg dry	4044	ND	61.1	30-122			
1-Methylnaphthalene	2554	101	203	404	ug/Kg dry	4044	ND	63.1	40-119			
2-Methylnaphthalene	2690	101	203	404	ug/Kg dry	4044	ND	66.5	38-122			
2-Methylphenol	5414	101	203	404	ug/Kg dry	8089	ND	66.9	32-122			
3-Methylphenol	5283	101	203	404	ug/Kg dry	8089	ND	65.3	34-119			
3-Methylphenol/4-Methylphenol	5277	101	203	404	ug/Kg dry	8089	ND	65.2	34-119			
4-Methylphenol	5279	101	203	404	ug/Kg dry	8089	ND	65.3	42-126			
Naphthalene	2722	101	203	404	ug/Kg dry	4044	ND	67.3	35-123			
4-Nitroaniline	2590	404	809	1610	ug/Kg dry	4044	ND	64.0	73-112			
3-Nitroaniline	2241	404	809	1610	ug/Kg dry	4044	ND	55.4	33-119			
2-Nitroaniline	3118	404	809	1610	ug/Kg dry	4044	ND	77.1	44-127			
Nitrobenzene	2238	101	203	404	ug/Kg dry	4044	ND	55.3	34-122			
4-Nitrophenol	5778	404	809	1610	ug/Kg dry	8089	ND	71.4	30-132			
2-Nitrophenol	5596	101	203	404	ug/Kg dry	8089	ND	69.2	36-123			
N-Nitrosodimethylamine	2468	101	203	404	ug/Kg dry	4044	ND	61.0	23-120			
N-Nitrosodiphenylamine	2486	101	203	404	ug/Kg dry	4044	ND	61.5	38-127			
N-Nitroso-di-n-propylamine	2322	101	203	404	ug/Kg dry	4044	ND	57.4	36-120			
Pentachlorophenol	6165	404	809	1610	ug/Kg dry	8089	ND	76.2	25-133			
Phenanthrene	3134	101	203	404	ug/Kg dry	4044	ND	77.5	50-121			
Phenol	4608	101	203	404	ug/Kg dry	8089	ND	57.0	34-121			
Pyrene	3412	101	203	404	ug/Kg dry	4044	ND	84.4	47-127			
1,2,4,5-Tetrachlorobenzene	2355	101	203	404	ug/Kg dry	4044	ND	58.2	37-119			
2,3,4,6-Tetrachlorophenol	2765	101	203	404	ug/Kg dry	4044	ND	68.4	44-125			
1,2,4-Trichlorobenzene	2528	101	203	404	ug/Kg dry	4044	ND	62.5	34-118			
2,4,6-Trichlorophenol	6433	101	203	404	ug/Kg dry	8089	ND	79.5	39-126			
2,4,5-Trichlorophenol	6869	101	203	404	ug/Kg dry	8089	ND	84.9	41-124			

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Report Date: 02/08/2017

Analyte	Result	DL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7B06012												
Matrix Spike	Source: 17	02005-01	D	ranarad	02/06/20	17 Analy	zad: 02/0'	7/2017				
Surrogate: 2-Fluorobiphenyl	2969		Г	-	ug/Kg dry	4044	zeu. 02/0	73.4	44-114			
Surrogate: 2-Fluorophenol	5695				ug/Kg dry	8089		70.4	35-115			
Surrogate: Nitrobenzene-d5	2232				ug/Kg dry	4044		55.2	37-122			
Surrogate: Phenol-d6	5408				ug/Kg dry	8089		66.9	33-122			
Surrogate: Terphenyl-d14	3292				ug/Kg dry	4044		81.4	54-127			
Surrogate: 2,4,6-Tribromophenol	5485				ug/Kg dry	8089		67.8	39-132			
Matrix Spike Dup	Source: 17	02005-01	Р	repared	02/06/20	17 Analy	zed: 02/0'	7/2017				
Acenaphthene	3632	101	202	402	ug/Kg dry	4026	ND	90.2	40-123	1.16	20	
Acenaphthylene	3594	101	202	402	dry ug/Kg dry	4026	ND	89.3	32-132	2.09	20	
Acetophenone	2401	101	202	402	ug/Kg dry	4026	ND	59.6	33-115	0.973	20	
Aniline	2030	101	202	402	ug/Kg dry	4026	ND	50.4	36-110	9.49	20	
Anthracene	3059	101	202	402	ug/Kg dry	4026	ND	76.0	47-123	0.437	20	
Atrazine	2414	101	202	402	ug/Kg dry	4026	ND	60.0	47-127	6.51	20	
Benzaldehyde	2682	101	202	402	ug/Kg dry	4026	ND	66.6	55-110	0.0701	20	
Benzidine	ND	101	2020	4020	ug/Kg dry	4026	ND		0-110		20	U
Benzo(a)anthracene	3303	101	202	402	ug/Kg dry	4026	ND	82.1	49-126	1.96	20	
Benzo(a)pyrene	3028	101	202	402	ug/Kg dry	4026	ND	75.2	45-129	0.486	20	
Benzo(b)fluoranthene	3145	101	202	402	ug/Kg dry	4026	ND	78.1	45-132	0.242	20	
Benzo(g,h,i)perylene	3193	101	202	402	ug/Kg dry	4026	ND	79.3	43-134	1.39	20	
Benzoic acid	483.5	101	806	1610	ug/Kg dry	8051	ND	6.01	41-136	4.51	20	Q, J
Benzo(k)fluoranthene	3121	101	202	402	ug/Kg dry	4026	ND	77.5	47-132	2.02	20	
Benzyl alcohol	2648	101	202	402	ug/Kg dry	4026	ND	65.8	29-122	0.253	20	
1,1-Biphenyl	3505	101	202	402	ug/Kg dry	4026	ND	87.1	40-117	0.329	20	
4-Bromophenyl-phenylether	2817	101	202	402	ug/Kg dry	4026	ND	70.0	46-124	2.20	20	
Butylbenzylphthalate	3654	101	202	402	ug/Kg dry	4026	ND	90.8	48-132	2.74	20	
Caprolactam	2717	101	202	402	ug/Kg dry	4026	ND	67.5	46-117	3.40	20	
Carbazole	1559	101	202	402	ug/Kg dry	4026	ND	38.7	50-123	35.1	20	
4-Chloro-3-methylphenol	4940	101	202	402	ug/Kg dry	8051	ND	61.4	45-122	1.37	20	
4-Chloroaniline	1836	101	202	402	ug/Kg dry	4026	ND	45.6	17-106	28.4	20	
EMPIRICAL LABORATORIES, LLC	Work Ord	er: 1702	005	Repo	rt Date:	02/08/20	17					

J2-53

						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B06012												
Matrix Spike Dup	Source: 1	702005-01	Р	repared:	02/06/20	17 Analy	zed: 02/0	7/2017				
Bis(2-chloroethoxy)methane	2567	101	202	402	ug/Kg dry	4026	ND	63.8	36-121	0.763	20	
Bis(2-chloroethyl)ether	2553	101	202	402	ug/Kg dry	4026	ND	63.4	31-120	1.31	20	
2,2'-Oxybis-1-chloropropane	2547	101	202	402	ug/Kg dry	4026	ND	63.3	33-131	0.194	20	
2-Chloronaphthalene	3344	101	202	402	ug/Kg dry	4026	ND	83.1	41-114	1.35	20	
2-Chlorophenol	5738	101	202	402	ug/Kg dry	8051	ND	71.3	34-121	3.15	20	
4-Chlorophenyl phenyl ether	3329	101	202	402	ug/Kg dry	4026	ND	82.7	45-121	1.33	20	
Chrysene	3458	101	202	402	ug/Kg dry	4026	ND	85.9	50-124	2.57	20	
Dibenz(a,h)anthracene	3196	101	202	402	ug/Kg dry	4026	ND	79.4	45-134	1.27	20	
Dibenzofuran	3351	101	202	402	ug/Kg dry	4026	ND	83.2	44-120	0.0915	20	
Di-n-butylphthalate	3783	101	202	402	ug/Kg dry	4026	375.9	84.6	51-128	2.13	20	В
1,4-Dichlorobenzene	2482	101	202	402	ug/Kg dry	4026	ND	61.6	31-115	0.568	20	
1,3-Dichlorobenzene	2492	101	202	402	ug/Kg dry	4026	ND	61.9	30-115	0.459	20	
1,2-Dichlorobenzene	2539	101	202	402	ug/Kg dry	4026	ND	63.1	33-117	2.00	20	
3,3'-Dichlorobenzidine	950.4	101	202	402	ug/Kg dry	4026	ND	23.6	22-121	3.64	20	
2,6-Dichlorophenol	2542	101	202	402	ug/Kg dry	4026	ND	63.1	41-117	0.418	20	
2,4-Dichlorophenol	5283	101	202	402	ug/Kg dry	8051	ND	65.6	40-122	2.10	20	
Diethylphthalate	3549	101	202	402	ug/Kg dry	4026	ND	88.2	50-124	0.129	20	
2,4-Dimethylphenol	4916	402	806	1610	ug/Kg dry	8051	ND	61.1	30-127	0.971	20	
Dimethyl phthalate	3362	101	202	402	ug/Kg dry	4026	ND	83.5	48-124	1.50	20	
4,6-Dinitro-2-methylphenol	4365	1010	2020	4020	ug/Kg dry	8051	ND	54.2	29-132	11.8	20	
2,4-Dinitrophenol	2111	1010	2020	4020	ug/Kg dry	8051	ND	26.2	48-113	56.0	20	J
2,4-Dinitrotoluene	3348	101	202	402	ug/Kg dry	4026	ND	83.2	48-126	1.37	20	
2,6-Dinitrotoluene	3246	101	202	402	ug/Kg dry	4026	ND	80.6	46-124	0.936	20	
Di-n-octylphthalate	3581	101	202	402	ug/Kg dry	4026	ND	89.0	45-140	0.375	20	
1,4-Dioxane	2033	101	202	402	ug/Kg dry	4026	ND	50.5	43-110	2.07	20	
1,2-Diphenylhydrazine (as Azobenzene)	2675	101	202	402	ug/Kg dry	4026	ND	66.4	41-125	1.73	20	

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Report Date: 02/08/2017

						Spike	Source		%REC		RPD	
Analyte	Result	DL	LOD	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7B06012												
Matrix Spike Dup	Source: 17	02005-01	Р	repared:	02/06/20)17 Analy	zed: 02/0	7/2017				
Bis(2-ethylhexyl)phthalate	3902	101	202	402	ug/Kg dry	4026	186.3	92.3	51-133	0.984	20	
Fluoranthene	3022	101	202	402	ug/Kg dry	4026	ND	75.1	50-127	1.74	20	
Fluorene	3441	101	202	402	ug/Kg dry	4026	ND	85.5	43-125	1.69	20	
Hexachlorobenzene	2861	101	202	402	ug/Kg dry	4026	ND	71.1	45-122	1.71	20	
Hexachlorobutadiene	2569	101	202	402	ug/Kg dry	4026	ND	63.8	32-123	2.90	20	
Hexachlorocyclopentadiene	3491	101	202	402	ug/Kg dry	4026	ND	86.7	42-110	1.87	20	
Hexachloroethane	2365	101	202	402	ug/Kg dry	4026	ND	58.7	28-117	2.32	20	
Indeno(1,2,3-cd)pyrene	3032	101	202	402	ug/Kg dry	4026	ND	75.3	45-133	1.09	20	
Isophorone	2453	101	202	402	ug/Kg dry	4026	ND	60.9	30-122	0.825	20	
1-Methylnaphthalene	2582	101	202	402	ug/Kg dry	4026	ND	64.1	40-119	1.08	20	
2-Methylnaphthalene	2758	101	202	402	ug/Kg dry	4026	ND	68.5	38-122	2.51	20	
2-Methylphenol	5480	101	202	402	ug/Kg dry	8051	ND	68.1	32-122	1.21	20	
3-Methylphenol/4-Methylphenol	5265	101	202	402	ug/Kg dry	8051	ND	65.4	34-119	0.227	20	
3-Methylphenol	5271	101	202	402	ug/Kg dry	8051	ND	65.5	34-119	0.227	30	
4-Methylphenol	5267	101	202	402	ug/Kg dry	8051	ND	65.4	42-126	0.227	30	
Naphthalene	2774	101	202	402	ug/Kg dry	4026	ND	68.9	35-123	1.88	20	
4-Nitroaniline	2166	402	806	1610	ug/Kg dry	4026	ND	53.8	73-112	17.9	20	
3-Nitroaniline	954.8	402	806	1610	ug/Kg dry	4026	ND	23.7	33-119	80.5	20	J
2-Nitroaniline	3123	402	806	1610	ug/Kg dry	4026	ND	77.6	44-127	0.180	20	
Nitrobenzene	2250	101	202	402	ug/Kg dry	4026	ND	55.9	34-122	0.495	20	
4-Nitrophenol	5749	402	806	1610	ug/Kg dry	8051	ND	71.4	30-132	0.500	20	
2-Nitrophenol	6336	101	202	402	ug/Kg dry	8051	ND	78.7	36-123	12.4	20	
N-Nitrosodimethylamine	2416	101	202	402	ug/Kg dry	4026	ND	60.0	23-120	2.10	20	
N-Nitrosodiphenylamine	2144	101	202	402	ug/Kg dry	4026	ND	53.3	38-127	14.8	20	
N-Nitroso-di-n-propylamine	2323	101	202	402	ug/Kg dry	4026	ND	57.7	36-120	0.0426	20	
Pentachlorophenol	5402	402	806	1610	ug/Kg dry	8051	ND	67.1	25-133	13.2	20	

EMPIRICAL LABORATORIES, LLC

Work Order: 1702005

Report Date: 02/08/2017

Analyte Batch 7B06012	Result	DL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup	Source: 170	2005-01	P	repared:	02/06/201	7 Analy	zed: 02/0	7/2017				
Phenanthrene	3043	101	202	402	ug/Kg dry	4026	ND	75.6	50-121	2.95	20	
Phenol	4580	101	202	402	ug/Kg dry	8051	ND	56.9	34-121	0.606	20	
Pyrene	3336	101	202	402	ug/Kg dry	4026	ND	82.9	47-127	2.26	20	
1,2,4,5-Tetrachlorobenzene	2382	101	202	402	ug/Kg dry	4026	ND	59.2	37-119	1.17	20	
2,3,4,6-Tetrachlorophenol	2710	101	202	402	ug/Kg dry	4026	ND	67.3	44-125	1.99	20	
1,2,4-Trichlorobenzene	2533	101	202	402	ug/Kg dry	4026	ND	62.9	34-118	0.208	20	
2,4,6-Trichlorophenol	6392	101	202	402	ug/Kg dry	8051	ND	79.4	39-126	0.637	20	
2,4,5-Trichlorophenol	6842	101	202	402	ug/Kg dry	8051	ND	85.0	41-124	0.397	20	
Surrogate: 2-Fluorobiphenyl	3017				ug/Kg dry	4026		74.9	44-114			
Surrogate: 2-Fluorophenol	5646				ug/Kg dry	8051		70.1	35-115			
Surrogate: Nitrobenzene-d5	2225				ug/Kg dry	4026		55.3	37-122			
Surrogate: Phenol-d6	5412				ug/Kg dry	8051		67.2	33-122			
Surrogate: Terphenyl-d14	3234				ug/Kg dry	4026		80.3	54-127			
Surrogate: 2,4,6-Tribromophenol	5469				ug/Kg dry	8051		67.9	39-132			





CHAIN OF CUSTODY

Reference Document #

500433EDBPT-SoilSpill

aw Environmental and Infrastructure Inc., a CB&				ct Number:			FOTOD	Requested Analyses						
106MW2 Soil	Investigation					P-Car	esponse ESTCP			Rec		alyses		
Project Mana	_{ger:} Kathleen Romalia					31/17					6			
	To: Susan Huang ber: 925-288-2099	UPS Number: 126616900190909297									Pb) (SW6010)			
	ess: 4005 Port Chicago Hwy City: Concord, CA 94520 susan.huang@cbifederalservices.com				Mon-Sa 621 Mai Nashvill	at DELIVI Instream D e, TN 372 ne Walke	Drive, Suite 270 28	VOCs (SW8260)	EDB (SW8260)	SVOCs (SW8270)	Metals (Fe, Mn, Pb) (
		-				lers	Preservative				Ice			
Sample ID Number	Location	Date	Time	Method	Matrix	# of contair	Container	4 oz ja	r/Encore	4 oz jar	4 oz jar			
✓ 106MW2-Rolloff	KAFB-106MW2, R/O# 9901	1/31/17	1445	G	50	2		X	X	X	X			a ka K
106MW2-Confirm	Confirmation, Inside Spill Area	1/31/17	1435	G	SO	4		x] x	X	X			
106MW2-Background	Background Location	1/31/17	1455	G	50	4"		X	X	X	X			
		e linestiller i		00	L									
				12	1/17									
		Level Of QC Re	auired:		1.1.	\		The second	1 1 1					
urnaround Time: 5 Day	☐ 24-hr ☐ 48-hr ods ☐ 3-day	1	II			IV	Project Specific: unless IV	/ requeste	d					
relinquished By:		1/31/17	Received By:	\langle		\checkmark	Date: Time:		/					
Relinquished By:	Time: Date: Time:		Received By:		T	7	Time: Date: Time:	2/1/	17					

Ŭ	II. EMPIRICAL LABORATORIES Cooler Received/Opened On: 2/1/17@08560(30 Cooler Received/Opened On: 2/1/17@08560(30	
1.	Tracking # QL&7 (last 4 digits, FedEx)	
5	Courier: FedEX UPS Temperature of rep. sample or temp blank when opened: 5% °C + correction factor (-0.1) = 5.7 °C	
	(Temp Fluke#1 SN17680086) If Item #2 temperature is 0°C or less. was the representative sample or temp blank frozon? VFS (NO NA	
4		
	1 front	
5.	Were the seals intact, signed, and dated correctly?	
6.	Were custody papers inside cooler?	
<u>1</u> .	I certify that I opened the cooler and answered questions 1-6 (initial/date) T 2/1/17 VES NO No	
	eetly? YESNO	
8	Packing material used? Bubble-wrap Rastic bag Peanuts Vermiculite Foam Insert Paper Other None	
9.	Cooling process:	
10.	. Did all containers arrive in good condition (unbroken)?	
11.	. Were all container labels complete (#, date, signed, pres., etc.)?	
12.	. Did all container labels and tags agree with custody papers?	
13.	. a. Were VOA vials received?	
	b. Was there observable headspace present in any VOA vial (>5mm-6mm)? YESNO.(NA)	
14.	. Was there a Trip Blank in this cooler (custody seals present/intact)? YESNONAComments If multiple coolers, sequence #	
I	I certify that I unloaded the cooler and answered questions 7-14 (initial/date)	
15.	. a. On preserved bottles, did pH test strips suggest preservation reached the correct pH level? YESNO(NA)	
	b. Did the bottle labels indicate that the correct preservatives were used?	
16.	. Was residual chlorine present for Cyanide "Effluent" samples? If so, treated/documented? YESNO.(NA)	
17.	For 608 Pest/PCB samples, was pH <5 or >9? Was residual chlorine present? If either, adjusted/docun	
<u>I</u>	I certify that I checked for chlorine and pH as per SOP and answered questions 15-17 (initial/date)	
18.	. Were custody papers properly filled out (ink, signed, etc.)?	
19.	. Did you sign the custody papers in the appropriate place?	
20.	. Were correct containers used for the analysis requested? (ES., NO., NA If not, PM notified? YES., NO., NA	
21.	. Was sufficient amount of sample sent in each container? (ES)NONA If not, PM notified? YESNONA	
22.	Were there Non-Conformance issues at login? YESNO)NCR#	
11	I certify that I entered this project into LIMS and answered questions 18-22 (initial/date) 2/1/17 I certify that I attached a unique LIMS number label with matching sample name to each container (initial/date)	2/1/17
1	I certify that I notified the laboratory of any short holding time or RUSH parameters (initial/date)	

QS10_R23_20151202_CoolerReceiptForm.docx

Page 1 of 1

Empirical Laboratories, LLC Certifications/Approvals (Revised 01/18/2017)

DoD ELAP QSM5.0, Certificate Number L2226

- Aqueous
- Non-aqueous
- Expires: 11/30/2018

State of Florida, Department of Health – NELAP Primary, Lab ID: E87646

- Clean Water Act
- RCRA/CERCLA
- Expires: 06/30/2017

State of Georgia, Environmental Protection Agency - NELAP, Self Certification

• Expires: 06/30/2017

Commonwealth of Kentucky, Energy and Environment Cabinet - WWLCP, Laboratory Number: 98017

- Wastewater
- Expires: 12/31/2017

Commonwealth of Kentucky, Department of Environmental Protection - UST, Certificate Number: 77

- Aqueous
- Non-aqueous
- Expires: 06/30/2017

State of New Jersey, Department of Environmental Protection - NELAP, Lab ID: TN473

- Water Pollution
- Solid and Hazardous Waste
- Expires: 06/30/2017

State of North Carolina, Department of Environment and Natural Resources - Certificate Number: 643

- Aqueous
- Non-aqueous
- Expires: 12/31/2017

State of Texas, Commission on Environmental Quality - NELAP, Certificate Number: T104704307-16-14

- Aqueous
- Non-aqueous
- Expires: 12/31/2017

State of Utah, Department of Health - NELAP, Certificate Number: TN0042016-8

- Aqueous
- Non-aqueous
- Expires: 07/31/2017

Commonwealth of Virginia, Department of General Services – NELAP, Certificate Number: 8924, Lab ID: 460243

- Aqueous
- Non-aqueous
- Expires: 12/14/2017

State of Washington, Department of Ecology - NELAP, Lab ID: C934-16

- Groundwater
- Solid and Hazardous Waste
- Expires: 03/18/2017

LIQUID ENVIRONMENTAL SOLUTIONS NON-HAZARDOUS WASTE MANIFEST 92155												
001011					Profile Number							
					212532							
Generator Name	Name: Kutland An Ford Lace Phone: (SCS) SUC-9613	Generator Address			re: 1.1. Zip: 57/17							
	h your state and local regulatory agencies f agencies require records to be kept on-si		retention requ	ireme	nts. NOTE: Many							
Waste Type	Grease Trap Grit Trap Septic/Ch	emical Toilet	Non-Industrial		Industrial Special							
material ("Exc solvent or oil a Compensation rule, whether of any costs incur expressly agree	I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pusuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.											
Generator Rep. Name (please print)	ScottClark	Generator Rep. Signature	Sart	Mexage								
Transporter Name	Name: (515) 577-4353	Transporter Address	Address: 7777		and the second second							
Waste	nen Det Aquilater Mitam	Date		Tim	e							
Removed (Gallons)	(4900 (martinet)	8/7/1	17	09	30							
	the information above is accurate, and that only th vehicle. I am aware that falsification of this manif			he Gen	erator is contained in							
Driver Name (please print)	Mike Wille	Driver Signature	. All									
Disposal Facility	Liquid Environmental Solutions of Arizona	Address	a contraction of the second		n Buren Street AZ 85043							
Waste Received		Date		Tim	e							
(Gallons)												
Facility Rep. Name (please print)		Facility Rep. Signature										

WHITE - Generator Final Copy YELLOW - Liquid Environmental Solutions Copy GOLDENROD - Transporter Copy PINK - Generator 1st Copy

TELE POTT 170863601											
LIQUID ENVIRONMENTAL SOLUTIONS 92156											
ENVIRONA	IU NON-HAZARDOUS V	WASTE MA	NIFEST	V in th V V							
SOLUTI				Profile Number							
				212532							
Generator	Name: "There An Force 1050	Generator	2150 00								
Name	Phone: (25)546-9017	Address	Address:	State: NW Zip: 57117							
Check with	your state and local regulatory agencies f	for manifest									
regulatory	agencies require records to be kept on-si	te and availa	ble to review fo	or up to 3 years.							
Waste		emical Toilet	Non-Industrial	Industrial Special							
Type	Used Cooking Oil	not contain ann	Recyclable Used								
material ("Excl	e waste material removed from the above premises does luded Waste"). The term "hazardous material" is defin a defined in an augurat to the Bacaunae Conservation on	ed as any one or	more pollutant, toxi	c substance, hazardous substance,							
Compensation	s defined in or pusuant to the Resource Conservation an and Liability Act, the Federal Clean Water Act, or any o	other federal, sta	te or local environme	ental law, regulation, ordinance, or							
any costs incur	xisting as of the date of this agreement or subsequently or red by the Transporter or Disposal Facility in handling	or proper dispos	al of any hazardous	waste and that the Generator							
expressly agree	es to defend, indemnify and hold harmless the Transport or arising out of any such hazardous waste.	er from and agai	inst any and all dama	ages, costs, fines and liabilities							
Generator		Generator	a construction of the second second								
Rep. Name (please print)	Soft bik	Rep. Signature		and the second design of the s							
	1 1		and and a family	annan armenenett							
Transporter Name	Name: the auto Transport Inc Phone: (05) 577-4353	Transporter Address	Address:	State: Zip: 2165							
Waste	New Dot Key htad Materia 1	Date		Time							
Removed	(un the west water)	8/9/.	7	15 45							
(Gallons)											
	the information above is accurate, and that only th vehicle. I am aware that falsification of this manife			he Generator is contained in							
Driver	M.K.C. Wary	Driver	NII								
Name (please print)		Signature	Luc								
Disposal Facility	Liquid Environmental Solutions of Arizona	Address		est Van Buren Street							
Facility			Ph	benix, AZ 85043							
Waste Received		Date		Time							
(Gallons)											
Facility Rep. Name		Facility Rep.	Second see								
(please print)		Signature									
WHITE - Generato	or Final Copy YELLOW - Liquid Environmental Solutio	0 001 0	DENROD - Transporte	er Copy PINK - Generator 1st Copy							

Liquid Environmental Solutions of Arizona 5159 West Van Buren Street Phoenix, AZ 85043 (866) 694-7327 <u>www.liquidenviro.com</u>

LIQUID ENVIRONMENTAL SOLUTIONS 92157											
NON-HAZARDOUS WASTE MANIFEST											
SOLUTI	ONS			Profile Number							
	100			212,532							
Generator Name	Name: Mitherd An Ford Base Phone: 605) 846 - 9017	Generator Address	Address: 2050 La	<u>Howerthdithy 2005</u> State: 2011 Zip: 5711 7							
	your state and local regulatory agencies f agencies require records to be kept on-si										
Waste Type	Grease Trap Grit Trap Septic/Ch	emical Toilet	Non-Industrial	Industrial Special							
material ("Exc solvent or oil a Compensation rule, whether of any costs incur expressly agree	he waste material removed from the above premises does luded Waste"). The term "hazardous material" is defin s defined in or pusuant to the Resource Conservation an and Liability Act, the Federal Clean Water Act, or any of existing as of the date of this agreement or subsequently red by the Transporter or Disposal Facility in handling es to defend, indemnify and hold harmless the Transport or arising out of any such hazardous waste.	ed as any one or d Recovery Act, t other federal, sta enacted. I also ac or proper dispos	more pollutant, toxic the Comprehensive E te or local environme :knowledge that the (al of any hazardous v	e substance, hazardous substance, Environmental Response ental law, regulation, ordinance, or Generator shall be responsible for vaste and that the Generator							
Generator Rep. Name (please print)	Sott Clark	Generator Rep. Signature	- Be	9							
Transporter Name	Name: Comment Trans port Phone: (45) 577-41353	Transporter Address	Address:	State: Tip: STICS							
Waste	NEN DET Regulate Material	Date		Time							
Removed (Gallons)	baker tark (EX2) 4800 gal. more fit steen invite love the call?	8/11/	2	6 PH 6 77-							
		1									
	the information above is accurate, and that only th vehicle. I am aware that falsification of this manif			he Generator is contained in							
the servicing				he Generator is contained in							
the servicing Driver Name		est may result i Driver	n prosecution.	he Generator is contained in Test Van Buren Street Denix, AZ 85043							
the servicing Driver Name (please print) Disposal	vehicle. I am aware that falsification of this manif	est may result i Driver Signature	n prosecution.	est Van Buren Street							

Liquid Environmental Solutions of Arizona 5159 West Van Buren Street Phoenix, AZ 85043 (866) 694-7327 <u>www.liquidenviro.com</u>

LIQUID ENVIRONMENTAL SOLUTIONS 92159													
	ENVIRONMENTAL SOLUTIONS 10000 NON-HAZARDOUS WASTE MANIFEST 92159												
SOLUTI	ONS				Profile Number								
					212532								
Generator Name	Name: Kallen An Face Rose Phone: (505) 846-9017	Generator Address			Blvdf lkg 20685 e: NM Zip: 57117								
	h your state and local regulatory agencies f agencies require records to be kept on-si												
Waste Type	Grease Trap Grit Trap Septic/Ch	emical Toilet	Non-Industrial		ndustrial 🗌 Special								
material ("Exc solvent or oil a Compensation rule, whether of any costs incur expressly agree	I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pusuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.												
Generator Rep. Name (please print)	Scott Clark	Generator Rep. Signature											
Transporter Name	Name: (1-c, 116. tors EIN. Serv Phone: (205) 584-2277	Transporter Address	Address: 2720 City: Muguerg	State	14 14 Zip: 57177								
Waste	non bet kynteted the it	Date		Time	•								
Removed (Gallons)	(non Hoz wast water)	8-1-	7-17	9	ODAM								
	the information above is accurate, and that only th vehicle. I am aware that falsification of this manife			ne Gene	erator is contained in								
Driver Name (please print)	John Figuerac	Driver Signature	Jih S)									
Disposal Facility	Liquid Environmental Solutions of Arizona	Address			n Buren Street AZ 85043								
Waste Received (Gallons)		Date		Time	3								
Facility Rep. Name (please print)		Facility Rep. Signature											
WHITE - Genera	tor Final Copy YELLOW - Liquid Environmental Solutio	ns Copy GOLI	DENROD - Transporte	er Copy	PINK - Generator 1st Copy								

Liquid Environmental Solutions of Arizona 5159 West Van Buren Street Phoenix, AZ 85043 (866) 694-7327 <u>www.liquidenviro.com</u>

NON-HAZARDOUS WASTE MANIFEST

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American Labelmart Co. - Chicago, IL 60646

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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID N NM9570024423	lo.		Manifest Document No	D235372	2. Page 1 of
I	3. Generator's Name and Mailing Address						
	2050 WYOMING BLVD SE BLDO	3 20685. ENVIRONMEN	VTAL				
	KIRTLAND AIR FORCE BASE, N	MA 87117					
L	4. Generator's Phone ()						
ſ	5. Transporter 1 Company Name	c./DBA ACTENVIRO ^{6.}	US EPA ID Number)	A. State Trans	sporter's ID	
			0.11000070070	·	B. Transporte	r 1 Phone	
	7. Transporter 2 Company Name	8.	US EPA ID Number		C. State Trans	sporter's ID	
					D. Transporte	r 2 Phone	
	A9 Designated Facility Name and Site Address 6133 Edith Bayd NE	10.	US EPA ID Number		E. State Facili	ity's ID	
L	Albuquerque, NM 87107		NMD00220862	7			
	505-349-5220				F. Facility's Pl	hone	
ŀ	11. WASTE DESCRIPTION					1 10	
				No.	ontainers	13. Total	1 U Wt.
ŀ	Non-RCRA/Non-DOT Regulat	ted Material Liquid (M	WATER)	140.	Туре	Quantity	
				- 1	q	÷	
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ſ	с.						
		P				· · · · · · · · · · · · · · · · · · ·	
	d.					1	
L	G. Additional Descriptions for Materials Listed A		A Document & D			all and the second	1.1
					1		
	15 Special Handling Instructions and Additional	Information	2.5				
	15. Special Handling Instructions and Additional	Information SCOTT CLARK 505 3	85 3679 bol	1113	8		
-	15. Special Handling Instructions and Additional	Information SCOTT CLARK 505 3	85 3679 hours		D		
	15. Special Handling Instructions and Additional	Information SCOTT CLARK 505 3	85 3679	13	D	i i i i i i i i i i i i i i i i i i i	
	15. Special Handling Instructions and Additional HOUR EMERGENCY CONTACT	Information SCOTT CLARK 505 3	85 3679		Ð	area a	
	15. Special Handling Instructions and Additional	Information SCOTT CLARK 505 3	85 3679		Ð		
	15. Special Handling Instructions and Additional HOUR EMERGENCIONS and Additional 16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The materie						
	16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The materia						Date
	16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The materia						Month Day
	16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The materia Printed Typed Name $S = \circ f + C b + b + b$	certify that the contents of this ship als described on this manifest are n	oment are fully and accurately describ ot subject to federal hazardous waste			Г Ú	
	16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The materies Printed Typed Name $S = \circ f + C b + b$ 17. Transporter 1 Acknowledgement of Receipt	certify that the contents of this ship als described on this manifest are n	oment are fully and accurately describ ot subject to federal hazardous waste			0	Month Day Date
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	16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The material Printed Typed Name 17. Transporter 1 Acknowledgement of Receipt Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt Printed/Typed Name	certify that the contents of this ship als described on this manifest are no of Materials	oment are fully and accurately describ ot subject to federal hazardous waste Signature Signature Signature	ped and are in a regulations.		0	Month Day Date Month Day Date Month Day
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UNIFORM HAZ WASTE MAN	NIFEST		Number)244	23					4. Manifes		850	44	FLE
	tland Air I	force Bas							ss (if different t	han mailing addr	ess)			
			Se Bldg. 20		NIFONITIE	intal Rest	oratio							
Generator's Phon 6. Transporter 1 C	tiand Air i	05) 84G-	e. NM 871: 9017 <u>A</u>	TTN:Soo	ttClark							4		66.051
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7. Transporter 2 C		13 61 444		INCH, IN	0.					U.S. EPA ID		036	de mension	-0.0-
8. Designated Fac										U.S. EPA ID	Number			
	an Harbo 3555 East 97 Trail. C(: Highway) 80105	36							Ĺ	¢OD	9913	() () 4	84
		UTVI	er Shipping Name,	Hazard Class	s, ID Number,		T	10. Cont	ainers	11. Total	12. Unit	1 10	Wests Co	
HM and Pack	ing Group (if an	())				5		No.	Туре	Quantity	Wt Nol.	13.	Waste Co	Jes
1.		HAZARD	OUS WAST	TE, LIQUI	D, N.O.S	G., (BENZE	NE) S	Э,			14500	1018		
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14. Special Handlin	ng Instructions a		formation									920	- 9	950
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6	enerato	ORMATION or: Kirtland Air F	orce Base			Manifest Tracking	Info
E	Addres	Environmenta Kirtland Afb,N	M 87117	0685,	(*.). 	0285044 FL es Order No: 1702656;	E
LINEIT	EM INF	ORMATION				55 Older NO. 1702000	597-004
Line Iten	n:	Page No:	Profile No:	Treatability Group	**********	LDR Disposal Category	
1.		1	CH1434425	WASTEWATER		4 (Meets LDR Standard	is)
EPA Wa	ste Co	de		L		te SubCategory	
D018		9 7 8 8 8 8 8 8 8 9 9 7 7 7 7 7 7 7 7 7		DR Chemical D	NONE	*****	
Chamia			*******		Underlying Hazardous onstituents	Constituents of	Contaminants Subject to
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Waste a	nalysis	data, where availa	ble, is attached.		1-	Shole 11 1	
Signatu	ire :	Jol C	Muel Jole	Print Nam		atrino Wheel	DA
Title :		Physical	1 Adonts	Date :	15 15 15 15	2017-05-31	1 10 10 10 10 10 10 10 10 10 10 10 10
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Ple	ease print or type. (Form designed for use on elite (12-pitch) typewriter.)		(n)	5	BC MA PF	W 1/4/20)17 Form	n Approved. OMI	3 No. 2050-003
1	UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST N M 957002442			BERY (1300)	183-37 483-37	$\frac{224}{42}$ 0.		85045	FLE
	5. Generator's Name and Mailing Address Kirtland Air Force Base 2050 Wyoming Blvd. Se Bldg. 20685, Env			Site Addre	ss (if different t	han mailing addre	ss)		
	Kirtland Air Force Base. NM 87117 Generator's Phone: (505) 846-9017 ATTN: Scott 6. Transporter 1 Company Narce) Chemical Transport	tClark					Number	57000	11100
	Clean Harbors Environmental Service, Inc	17 _1/0C_ -						03932	
	7. Transporter 2 Company Name					U.S. EPA ID I	Number		
	8. Designated Facility Name and Site Address					U.S. EPA ID I	Number		
	Clean Harbors Deer Trail LLC 108555 East Highway 36 Deer Trail. CO 80105 Facility's Phone: 9703862293					1	CODS	991300	484
	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, HM and Packing Group (if any))	D Number,		10. Cont No.	ainers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste	Codes
GENERATOR -	^{1.} NA3082, HAZARDOUS WASTE, LIQUIE PG III), N.O.S., (BENZE	NE) 9,	/	CM	45600	G	DDIS	
- GENE	2.						190		
	3.								
	4.								
	14. Special Handling Instructions and Additional Information								
	1. CH1434425 2. 3. 4. 1065700000000000000000000000000000000000	ents of this consignment are insport according to applicat	e fully and a ble internation	ccurately do onal and na			pping name,		packaged,
	I certify that the waste minimization statement identified in 40 CFR 262 27(a) (if Generator's/Offeror's Printed/Typed Name		ator) or (b) (i		all quantity gei	nerator) is true.		Month	Day Year
ļ	Wheelock Katrina E			1BI	And	lou			31/17
	16. International Snipments Import to U.S. Transporter signature (for exports only):	Export from U.S	S.		ntry/exit: /ing U.S.:				
i,	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name	Śignal	hire .	/				Month	Day Year
	Mile Wate		MU	4				15	31 117
	Tfansporter 2 Printed/Typed Name	Signal	ture	\mathcal{C}				Month	Day Year
	18. Discrepancy 18a. Discrepancy Indication Space								
	Quantity	Туре		esidue st Reference	e Number:	Partial Reje	ction	L] Ful	Rejection
	18b. Alternate Facility (or Generator)					U.S. EPA ID NU	umber		
	Facility's Phone: 18c. Signature of Alternate Facility (or Generator)					1		Month	Day Year
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous	vaste treatment, disposal, a	nd recyclina	systems)					
	1. 2.	3.	,9			4.			
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous mater Printed/Typed Name	als covered by the manifest Signat		noted in Iter	m 18a			Month	Day Year
AF	Form 8700-22 (Rev. 3-05) Previous editions are obsolete.			DED			COZULIE		
Ú	Form 8700-22 (Rev. 3-05) Previous editions are obsolete. Clean Harbors has the appropriate permits for	and will accept the	e waste	DESIC the gen	Inated FA	CILITY TO D	ESTINATI	ION STATE (IF	REQUIRED)

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		arbors		Notification F	orm	D-1-4-1	
		AL SERVICES®	HBRDESESSURESEELEPSEUSI	REFACEDEDENESSERCEERE	9959338KK6933		Date :May 31, 2017
G	Senerator	: Kirtland Air I	Force Base			Manifest Trackin	g Info.
	Address	2050 Wyom Environmen	ing Blvd. Se Bldg. 2 tal Restoratio	0685,	6		
1	EPA ID #:	Kirtland Afb,	NM 87117			10285045	
LINEIT	EM INFO	RMATION			Sale	es Order No: 170265	6397-004
Line Iter 1.	n: F	age No:	Profile No:	Treatability Group		LDR Disposal Catego	
1.			CH1434425	WASTEWATER		4 (Meets LDR Standa	rds)
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with the tr submitted	eatment	g or through kn standards spec accurate, and co	ified in 40 CFR part	e to support this c 268 subpart D. 11 e that there are sig	ertification the	at the waste complian	1.
		ta, where availa	ble, is attached.)	
Signatur	re ;	2	Gravelaec.	Print Name	, K	atrina Whee	loch
Title :		IM SICOL	Scientist	Date :		017-05-31	8648222227

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Plea			ned for use on elite (12-pitch) 1. Generates ID Number 7 0		2. Page 1 of.	3/Emerg	ency Respons	e Phone	4. Manifest				
Ĩ	W	ASTE MANIFEST		024423	-	WS:	05-8	46-8			^{umber} 05	52 F	LE
	5. Ge	enerator Kurband Min				Generator	's Site Address	s (if different t	han mailing addre	ss)	2		
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		Kintland Air	Force Base. NM 871	117 ATTN:ScottClark	c 1		17			1-	1700	in al	
		erator's Phone: W	505) 846-8222 [0] 4	Cal Trans	Cort II	0			U.S. EPA ID I	H L Number	103	Call	NOG U
	v . III	Glean Harb	e Chemicons Environmental S	ervice, Inc.					+	MAD	0393	222	30 9
	7. Tra	ansporter 2 Company Name	9						U.S. EPA ID I	Vumber			
	8. De	esignated Facility Name and			1				U.S. EPA ID I	Number			
			ors Deer Trail LLC st Highway 36							COD	9913	0048	34
		Deer Trail. C	0 80105						T.				
		ity's Phone:	9703862293 on (including Proper Shipping Nam	a Userard Class ID Numb		T	10. Conta	inere	1	[
	9a. HM	and Packing Group (if a		e, nazaru Class, iD Nulliu	ei,	-	No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Codes	
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	14. 0	ipecial Handling Instructions 1.CH14344	25										
		2.3.	Tonk#25	51237/Well=	#186TNI								
		4.	juin - 2-		11 100 21 11								
			R'S CERTIFICATION: I hereby de										
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è		I certify that the waste minin rator's/Offeror's Printed/Typ	mization statement identified in 40	CFR 262.27(a) (if I am a la		rator) or (t		all quantity ge	enerator) is true.		Mon	th Day	Year
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*		Iternational Shipments				10			ouce	in		e U i	17
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DE		ty's Phone: Signature of Alternate Facilit	ty (or Generator)								Мо	nth Day	Year
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DESIGNATED FACILITY	19. Ha	azardous Waste Report Ma	nagement Method Codes (i.e., coo	les for hazardous waste tr	eatment, disposal.	and recyc	ling systems)						
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<u>Cl</u>	eanHa	rhore	La	nd Disposal R Notification I			Page : 1 of 1
	RONMENTAL				 Factoresco (100) 	Printed D	ate :May 31, 2017
MAN	FEST INFOR	RMATION				*******************************	
	Generator :	Kirtland Air Fo	orce Base			Manifest Tracking	Info.
×	Address:	2050 Wyomir Environmenta Kirtland Afb,N		0685,	0	10285052 FL	Ē.
	EPA ID #:	NM95700	24423		Sal	es Order No: 17026563	397-004
	ITEM INFOR						***************************************
Line I	tem: Pa	age No:	Profile No:	Treatability Grou	p:	LDR Disposal Category	1
1.	11		CH1434425	WASTEWATER		4 (Meets LDR Standard	
*******	Waste Code		L	L	EPA Wa	ste SubCategory	
D018			*********************		NONE	******	
				DR Chemical I	Data		*******
Chen	nical				Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
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analys with th submi	is and testing the treatment itted is true, a	g or through kno standards spec accurate, and co	ified in 40 CFR par	ste to support this t 268 subpart D. re that there are s	certification I believe tha	that the waste complies	1.

	e analysis ua lature :	ACTU	ble, is attached.	Print Na	me	Katrina E. W	relock
Title	:	Physica	1 Acientist	Date :		2017-06-07	-
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	8. De	signated Facility Name an	d Site Address						U.S. EPA ID I	Number			
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	9a. HM	9b. U.S. DOT Descripti and Packing Group (if a		bing Name, Hazard Class, ID N	lumber,		10. Contair No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste C	Codes	
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		I certify that the waste min	nimization statement ident	ified in 40 CFR 262.27(a) (if I a	am a large quantity gen	erator) or (b)) (if I am a sma	ll quantity ge	nerator) is true.		Month	Day	Year
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DESIGNATED FACILITY	19. H	lazardous Waste Report Managerr	No. of the local division of	or hazardous waste treatme		cycling systems)		4.		j	
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	20 0	Designated Facility Owner or Operation	Intor: Certification of receipt of has	zardous materials covered b	y the manifest exce	pt as noted in Ite	em 18a				
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22 (Rev. 3-05) Previous equitons are obsolete. The an Harbors has the appropriate permits for and will accept the waste the generator is shipping. J4-8

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		WASTE MANIFEST NM 9570024423	105		122 22	77 UI	LUZ	82061 F	
	5.	5. Generator's Name and Mailing Address	Genera	tor's Site Address	s (if different th	nan mailing addre	ss)		Anting Brown
11		Kirtland Air Force Base					5.c		
		2050 Wyoming Blvd. Se Bldg. 20685, Environmenta	Restorati	io					
		Kirtland Air Force Base, NM 87117	1						
	G	Kirtland Air Force Base. NM 87117 Generator's Phone: (505) 846-87774 ATTN:ScottClark 6. Transporter 1 Company Name 9017 P							
11	6.	6. Transporter 1 Company Name 9017 RV				U.S. EPA ID	Number		
		Clean Harbors Environmental Service, Inc.				1	мар	0393222	EA
	7.	7. Transporter 2 Company Name				U.S. EPA ID N	Number	<u>9333222</u>	50
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	8	8. Designated Facility Name and Site Address				1.0.501/01			
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CleanHa	rhore	La	and Disposal Re Notification F			Page : 1 of 1
ENVIRONMENTA MANIFEST INFO	L SERVICES [®]				Pri	nted Date :Jun 02, 2017
	Kirtland Air Fo	orce Base			Manifest Tra	olina Info
Address:	0050144 .	ng Blvd. Se Bldg. 2 al Restoratio	0685,	C	0285061	
EPA ID #:	NM95700	24423		Sal	es Order No: 170	02656397-004
LINE ITEM INFO						
	age No:	Profile No:	Treatability Grou	0:	LDR Disposal Ca	ategory
1. 1		CH1434425	WASTEWATER	************	4 (Meets LDR St	andards)
		L				-
EPA Waste Code D018					ste SubCategory	
				NONE		
			LDR Chemical D	ata		
Chemical				Underlying Hazardous Constituents	Constituents of Concern	s Contaminants Subject to Treatment
1,2-DIBROMOET	HANE			Y	N	(M - N
ACETONE				Y	N	-N-Y
ACETOPHENONE	1			Y	N	Ch < HV
BENZENE				Y	N	RC) N-V
ETHYL BENZENE				Y	N	
TOLUENE				Y	Ν	A
XYLENES (MIXED	ISOMERS)			Y	N	V-44-V
			ication			Applies to Manifest Line Items
I certify under pena analysis and testing with the treatment submitted is true, a false certification, in	standards specif standards specif	Wiedge of the was fied in 40 CFR par mplete. I am awa	te to support this t 268 subpart D. T re that there are si	certification f	hat the waste con	
Waste analysis dat Signature : Title :			Print Nam	ie <u>k</u>	ebecca (<u>Cines</u>
	/				**	

SC MA PPW 5/30/2017

Ple	ase p	rint or type. (Form desig	ned for use on elite	e (12-pitch) typewriter.)		-0-					n Approved.		
Î	UŅI V	IFORM HAZARDOUS	1. Generat MidWud	2670024	423					4. Manifest		8506	52 F	E
	5. G	2050 Wyor	ning Blvd. Se Force Base	Bldg. 20685, NM 97447	Environm	ental Resto	pratio Bratio	oite Address	s (if different u	han mailing addre	ss)			
	Gen	erator's Phone:	505) 846-87	22 CL ATTN:S		I								
	6. Tr	ransporter:16ompany Nam	ors Environm	ental Service,	lnc.					U.S. EPA ID	MAD	0393	222	50
	7. Tr	ransporter 2 Company Name	9							U.S. EPA ID I	Number	r		
	8. D	esignated Facility Name and Clean Harbo 108555 Eas Deer Trail. C	st Highway 3 :0 801.05	6						U.S. EPA ID I		9913	0048	34
	Faci	lity's Phone:	97038	62293										
	9a. HM	and Packing Group (if a	ny))	hipping Name, Hazard C				10. Conta No.	iners Type	11. Total Quantity	12. Unit Wt./Vol.	13. V	Vaste Code	s
OR -		1. NA308: PG III	2, HAZARDO	US WASTE, LIQ	UID, N.O.9	S., (BENZEN	VE) ,9,	,	77	11000	6	2018		
GENERATOR	_	2.						1		4500	φ			<u></u>
E G		-												
	-	3.												
		4.												
	14. 5	Special Handling Instructions	and Additional Inform	nation					<u> </u>					
		1.CH14344 2. 3. 7		1 well II										
	45	4. Tank 2.	51237/	1 Well # 106 DN1			6.0			- t t			-ifed apple	
		marked and labeled/placard Exporter, I certify that the co	led, and are in all res ontents of this consig	pects in proper condition nment conform to the terr	for transport act ms of the attache	cording to applicat ed EPA Acknowled	ole internatio Igment of Co	nal and nat	ional governn	nental regulations.	lf export sh	ipment and I a	m the Prima	aged, ary
		I certify that the waste minin erator's/Offeror's Printed/Typ		entified in 40 CFR 262.27	r(a) (if I am a lan	ge quantity genera Signa		f I am a sma	all quantity ge	enerator) is true.		Mon	h Day	Year
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I.L.NI	16. In	nternational Shipments ¹ sporter signature (for export	Import to			Export from U.S	3.	Port of er Date leav		$-\bigcap$				
-	17. Tr	ransporter Acknowledgment	of Regeipt of Material	s					ing 0.5	$\times 17$		· · · · · · · · · · · · · · · · · · ·		
ORT	Trans	oporter 1 Printed/Typed Nam	1/ 0	M.		Signa				MK_{11}	Ru	Mont	h Day	Year
TRANSPORTER	Trans	porter 2 Printed/Typed Nam	ft ve	17		Signal	ture	20	ma	29_0	Jan	Mon	h Day	Year
上	18. D	iscrepancy												
	18a. I	Discrepancy Indication Space	e 🗌 Quantity	1	Туре		Re	sidue		Partial Rej	ection	[Full Reje	ection
							Manifes	t Reference	e Number:					
DESIGNATED FACILITY	180.7	Alternate Facility (or Genera	tor)							U.S. EPA ID N	lumber			
ED FA		ty's Phone: Signature of Alternate Facilit	v (or Generator)									Mor	th Day	Year
SNATE			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
ESIG	19. H	azardous Waste Report Mar			rdous waste trea		nd recycling	systems)		L.				
Ō	1.		2	23		3.				4.				
		esignated Facility Owner or d/Typed Name	Operator: Certificatio	n of receipt of hazardous	materials cover	red by the manifes Signal		noted in Iter	m 18a			Mon	th Day	Year
¥	- nine	wijpornane					luic							
EPA	Form	8700-22 (Rev. 3-05), Pr Clean Harbo	evious editions and rs has the app	e obsolete. propriate permits	for and wi	ill accept the	e waste t	theogen	9KALLIDA	shipping o	DESTINA	TION STAT	E (IF RE	QUIRED)

CleanH	larbors	La	nd Disposa Notificatio		tion		Page : 1 of 1
===============================	TAL SERVICES®					Printec	l Date :Jun 02, 2017
MANIFEST INF							
Generate	or: Kirtland Air Fo	orce Base				Manifest Trackir	ng Info.
Addre	Environmenta Kirtland Afb,N	IM 87117	0685,		010	285062 FLE	(b)
EPA ID		24423			Sale	s Order No: 170268	56397-004
LINE ITEM INF		I				***********************	************************
	Page No:		Treatability G	roup:]	LDR Disposal Catego	ory
1.	1	CH1434425	WASTEWAT	ER		4 (Meets LDR Standa	ards)
EPA Waste Co	de	L	L			to SubCatagory	
D018					NF	le SubCalegoly	
	*****************		DR Chemica				
			Div onenne			O an all'h san h	Oradaani
				Under Hazar		Constituents of	Contaminants Subject to
Chemical				Constit		Concern	Treatment
1,2-DIBROMOE	ETHANE			Y		N	, H-Y
ACETONE				. Y		N	(-H-Y
ACETOPHENO	NE			Y		N	-14° Y
BENZENE				Y		Ν	A A Y
ETHYL BENZEI	NE			Y		N	as they
TOLUENE				Y		N	(₩ y
XYLENES (MIX	ED ISOMERS)			Y		N	. 14 Y
		<u>Certifi</u>	cation				Applies to
	8						Manifest Line Items
with the treatme	ting or through kno nt standards speci e, accurate, and co	fied in 40 CFR part	te to support t 268 subpart I e that there ar	his certific D. I believ e significa	ation the	hat the waste complic	1
	data, where availal	ble, is attached.					
Signature :	1248	andorer	Print N	Vame	Ka	itrina E. W	belock
Title :	Physical	Scientist	Date :			017-06-06	
	~~~~~						

Ple	ase pri	int or type. (Form designed for use on elite (12-pitch) typewriter.)	h	D s	C MA PP	W 5/30/2	017For	m Approved.	OMB No. 2	2050-0039
Î		FORM HAZARDOUS       1. Generator ID Number       2.         ASTE MANIFEST       N M 9570024423	Page 1 of 3.	ASOOL	61822	24. Manifest		8506	53 F	ΈLΕ
	5. Ge	nerator's Name and Mailing Address Kintland Air Force Base	General			an mailing addres				
		2050 Wyoming Blvd. Se Bldg. 20685, Environment	al Restorati	0	i.					
		Kintland Air Force Base. NM 87117 rator's Phone: (505) 946 9999 ASTN. ScottClark			*.£	U.S. EPA ID N	lumbor			
	0. 110	Clean Harbors Environmental Service, Inc.				1 B		0393	2 2 2 1	50
	7. Tra	ansporter 2 Company Name				U.S. EPA ID N	lumber		6	.a_x
	8. Des	signated Facility Name and Site Address				U.S. EPA ID N	√umber			
		Clean Harbors Deer Trail LLC 108555 East Highway 36		· ·		(	cop	99130	0048	34
	Facilit	Deer Trail. CO 80105 9703862293								
	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Conta No.	ainers Type	11. Total Quantity	12. Unit Wt./Vol.	13. V	Vaste Codes	S
2		1. NA3082, HAZARDOUS WASTE, LIQUID, N.O.S.,	(RENZENE)		Type			D018	[	
RATO	X	PGIN	[	· /	TT	3,300	G	00.0		****
GENERATOR	-	2.							Í	
		3							-	
		4.								
	14. 5	1.CH1434425				,				
		3- Tink 1 Well				tra	hck	1914		
	15. (	GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this contents of the content	nsignment are fully a	and accurately d	escribed above	e by the proper shi	ipping nam	e, and are class	sified, packa	aged,
	E	marked and labeled/placarded, and are in all respects in proper condition for transport accordi Exporter, I certify that the contents of this consignment conform to the terms of the attached El I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large qu	PA Acknowledgmen	t of Consent.			If export sl	hipment and I a	m the Prima	ary
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+	16, Int	Ineelocu, Katrina E		to		laile			00	17
INT'		sporter signature (for exports only):	xport from U.S.		ntry/exit: ving U.S.:					
TRANSPORTER INT'L		ansporter Acknowledgment of Receipt of Materials porter 1 Printed/Typed Name	Signature	0	14		9-	Mont	h Day	Year
ISPOI	_/	Illiv Concourt		mf	Mais	revo	2	16	18	17
TRAN	mansp	porter 2 Printed/Typed Name	Signature	, ,	1			Mont	h Day	Year
1		screpancy								
	18a. D	Discrepancy Indication Space Quantity Type	L	Residue		Partial Reje	ection		Full Rejea	ction
1 ≻	18b. A	Iternate Facility (or Generator)	M	anifest Referenc	e Number:	U.S. EPA ID N	lumber			
VCILIT					2					
ED F/		y's Phone: ilgnature of Alternate Facility (or Generator)						Mon	th Day	Year
<b>DESIGNATED FACILITY</b>										1
DESIC	19. Ha	azardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatmen 2.	nt, disposal, and rec 3.	ycling systems)		4.				
Ī	00.5								_	
		esignated Facility Owner or Operator: Certification of receipt of hazardous materials covered b d/Typed Name	y lhe manifest exce Signature	pt as noted in Ite	m 18a			Moni	h Day	Year
	Form	8700-22 (Rev. 3-05) Previous editions are obsolete.		-	CALANING	A OIL BALL THE				
		8700-22 (Rev. 3-05) Previous editions are obsolete. Clean Harbors has the appropriate permits for and will a		DES	GITAND -	AGILLY TO 1	JESTINA	UTION STAT	e (IF REC	JUIRED)

CleanH	arbors	L	and Dispo. Notific	osal Re ation F		Printed D:	Page : 1 of 1 ate :Jun 02, 2017
ENVIRONMENT MANIFEST INF							
	or: Kirtland Air I	Force Base				Manifest Tracking I	nfo.
Addres	ss: 2050 Wyom Environmen Kirtland Afb,	ing Blvd. Se Bldg. tal Restoratio <i>n</i> ,NM 87117	20685,			285063 (F	
EPA ID		024423			Sale	es Order No: 17026563	
LINE ITEM INF	Page No:	Profile No:	Treatabil	lify Grou	):	LDR Disposal Category	
1.	1 1	CH1434425	WASTE	a Francisco a constances de la constancia d		4 (Meets LDR Standard	
EPA Waste Co	l de	L	L		and see . Her was his par bet for one and the first	ste SubCategory	
D018					NONE		
			LDR Che	emical D			
Chemical				,	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
1,2-DIBROMOI	FTHANE				Y	N	XY7
ACETONE					Y	Ν	MY
ACETOPHENO	DNE				Y	Ν	NY (a)
BENZENE					Y	Ν	AV V
ETHYL BENZE	NE				Y	N	WY )
TOLUENE					Y	Ν	NY
XYLENES (MI)	(ED ISOMERS)				Y	<u>N</u>	<u>му</u>
		Ce	ertification				Applies to Manifest Line Items
analysis and te with the treatment submitted is true	sting or through l ent standards sp ie, accurate, and	knowledge of the v ecified in 40 CFR	waste to sup part 268 sul ware that th	oport this bpart D. here are	l believe that	the waste through a that the waste complies at the information I enalties for submitting a	1
Waste analysis Signature :	data, where ava	ailable, is attached	er	Print Na	me 💶	Katrina E. W	reelock
Title :	Physic	s Acientist	-	Date :		2017-06-08	
	. V						

Ple	ase prir	nt or type. (Form desig			riter.)		S	C MA PP	W 5/30/2	2017For	m Approved	OMB No.	2050-0039
Î		ORM HAZARDOUS ASTE MANIFEST	1. Generator ID Nu	mber 957002	4402	2. Page 1 of 3. Eme	os-84	C-82	4. Manifest	102	8500	65 F	FLE
Ц	5. Ger	nerator's Name and Mailir	g Address			Genera	tor's Site Addres	ss (if different l	han mailing addre	ss)			
H			Force Base										
H		2050 Wyo	ming Blvd. S	e Bldg. 2068	5, Environme	ental Restorati	0						
Н	Gener	ator's Phone. nsporter 1 Company Nam	Force Base	NM 87117	L.C. and Claude								
11	6. Tra	nsporter 1 Company Nam	mal T	Cane Ano	TINC				U.S. EPA ID	Number	0500	1000	28
		Glean Harb	ors Environ	rans por	ne Inc						A202	0.0.0	50
Ш	7. Tra	nsporter 2 Company Nam	e						U.S. EPA ID	Number	- <del></del>		0.0
Ш													
Ш	8. Des	signated Facility Name an	d Site Address						U.S. EPA ID	Number			
Ш			ors Deer Tra										
Ш		108555 Ea	st Highway 🕄	36					¥.	COD	9913	004	84
Н	Facilit	y's Ph <b>Qeer Trail.</b> (		167793									
Ш	9a.	9b. U.S. DOT Description		Shipping Name, Haz	ard Class, ID Number,		10. Cont	tainers	11. Total	12. Uni	1.3	Waste Code	es
Ш	HM	and Packing Group (if a	any))				No.	Туре	Quantity	Wt./Vol.			1
le'		1. NA308	2. HAZARDO	US WASTE.	LIQUID NO.	S., (BENZENE)	9 .				m18	1	
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Ш		0.										1	
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11	14. Sp	ecial Handling Instruction	s and Additional Info	rmation									
		1.CH14344	125							A. C.	1000		
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Ш		1 2512	37/100	OINI									
		SENERATOR'S/OFFERO	R'S CERTIFICATIO	N: I hereby declare t									
		narked and labeled/placar Exporter, I certify that the c						ational govern	mental regulations	s. If export s	shipment and I	am lhe Prin	lary
11	L 0	certify that the waste min	imization statement i			ge quantity generator) o		mall quantity g	enerator) is true,				P.S.
Ш	Gener	ator's/Offeror's Printed/Ty	· · · · · · · · · · · · · · · · · · ·	16		Signature	۸	$\mathcal{N}$		)	Mo		
¥		Rebec	ca(	lines		Ke	pecc	all	mes	<u> </u>		68	117
INT'L	16. Inte	ernational Shipments	Import to	U.S.		Export from U.S.	Port of e	entry/exit:					
		porter signature (for expo					Date lea	aving U.S.:					
TRANSPORTER		nsporter Acknowledgmen		als		Planature						ath De	Vera
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톤	40 Die											4	-
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11	18a D	iscrepancy Indication Spa	ice Quant	ity	Туре	l	Residue		Partial Re	jection		Full Re	jection
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'∠	18b. Al	ternate Facility (or Generation	ator)				lanifest Referen	ice Number:	U.S. EPA ID	Number			
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١Ž	Facility	la Dhanai											
ED FA		's Phone: gnature of Alternate Facili	ity (or Generator)	Ca							Mo	onth Da	y Year
ATED FA			ily (or Generator)								Mo	onth Da	y Year
IGNATED FA	18c. Si	gnature of Alternate Facil		Codes (i.e., codes for	hazardous waste trea	alment, disposal, and rea	cycling systems)	)	-		Mo	onth Da	y Year
DESIGNATED FA	18c. Si			Codes (i.e., codes for 2.	hazardous waste trea	alment, disposal, and rea	cycling systems)	)	4.		Mo	onth Da	y Year
<ul> <li>DESIGNATED FACILITY</li> </ul>	18c. Si	gnature of Alternate Facil		Codes (i.e., codes for 2.	hazardous waste trea		cycling systems)	)	4.		Mc	onth Da	y Year
DESIGNATED FA	18c. Si 19. Ha 1.	gnature of Alternate Facili zardous Waste Report Ma	anagement Method (	2.		3.			4.		Mc	onth Da	y Year
DESIGNATED FA	18c, Si 19. Ha 1. 20. Des	gnature of Alternate Facil	anagement Method (	2.		3.			4.			onth Da	
DESIGNATED FA	18c, Si 19. Ha 1. 20. Des	gnature of Alternate Facili zardous Waste Report Ma signated Facility Owner o	anagement Method (	2.		3. red by the manifest exce			4.				

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping. J4-15

<b>∫leanHa</b>	rhors	L	and Disposal F. Notification			Page : 1 of 1		
ENVIRONMENTAL	SERVICES®				Printed [	Date :Jun 02, 2017		
MANIFEST INFOR	RMATION							
Generator :	Kirtland Air F	orce Base			Manifest Tracking	Info.		
Address:	Environmenta Kirtland Afb,N		20685,	010285065 Sales Order No: 1702656397-004				
EPA ID #:	N M 9 5 7 0 0	)						
LINE ITEM INFOR		Profile No:	Treatability Gro		LDR Disposal Categor			
	ige No:		odhacaaaceaaaaaaaaa					
1.		CH1434425	WASTEWATE	۲	4 (Meets LDR Standar	ds)		
EPA Waste Code				EPA Wa	ste SubCategory			
D018				NONE				
**********			LDR Chemical	Data				
Chemical				Underlying Hazardous Constituents		Contaminants Subject to Treatment		
1,2-DIBROMOETH			*********************	Y	N	MУ		
ACETONE				Y	N	N Y		
ACETOPHENONE	1			Y	N	NY OU		
BENZENE				Y	N	NY P		
ETHYL BENZENE				Y	Ν	MJ		
TOLUENE				Y	N	MY		
XYLENES (MIXED	ISOMERS)			Y	Ν	XX		
		<u>Ce</u>	rtification			<u>Applies to</u> <u>Manifest Line</u> <u>Items</u>		
with the treatment	g or through kr standards spec accurate, and c	nowledge of the w cified in 40 CFR p complete. I am av	/aste to support th part 268 subpart D ware that there are	is certificatior . I believe that significant p	that the waste complies			
Waste analysis dat Signature : Title :	ta, where avail 	able, is attached	Print N enhist Date :	ame	Reberca ( 1/8/17	) (ings		

Pleas	se print or type. (Form desi	oned for use on eli	ite (12-pitch) typewr	iter.) 491	702656397-0	006 SC	PPW 5	/30/2017	Forn	Approved.	OMB No.	2050-0039
	UNIFORM HAZARDOUS	1. Generator ID Nu	umber 957002		2. Page 1 of 3. Eme	JOAN!	1 The start	4. Manifest T			72 E	
	WASTE MANIFEST			<u>ጥጥደጋ</u>	Genera	os - 8	16-82	an mailing address		5501	2 F	
	5. Generator's Name and Mail 2050 Wyo	rförce Base ming Blvd. S	e Bldg. 2068	5. Environme	ntal Restorati					195 Fm	ironme	
	Kirtland Ai	r Force Base	MM 97117	034 - 22			Afb,NM		ug. 200	200, LIN	nonne	
	Ocherator 3 Thoma.	(505) 846-8 me	1.1/19 -1.12	Sett	lark			U.S. EPA ID N	umber			
	Clean Harl	oors Environi	mental Servic	es, Inc.				h	AD	0393	222	50
	7. Transporter 2 Company Nar	ne						U.S. EPA ID N	umber			
-	8. Designated Facility Name a	nd Site Address		•				U.S. EPA ID N	umber			
	Clean Harb	ors Deer Tra						c	009	913	004	34
	Deer Trail.				0		;	1				
	Facility's Phone: 9a. 9b. U.S. DOT Descrip		386-2293 Shipping Name, Haza	rd Class, ID Number,	-@	10. Contai	ners	11. Total	12. Unit			
	HM and Packing Group (if	any))		(isen	zene)	No.	Туре	Quantity	Wt./Vol.	13.	Waste Code	s
R	1. NA308	32, HAZARDO	DUS WASTE, I	IQUID, N.O.S	A ^{9, PG III}	4	TT	1000.0	Ine	þ	018	
RAT	××					-	11	100.0	כוווי			
GENERATOR	2.		12									
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	3.							123				
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	4.											
	14. Special Handling Instructio	ns and Additional Info			11150 10	Lundo C						
	1.CH1449	152	ERG#17:	L	KAFB-10		•					-
					KAFB-101	ommi-s	)					
	15. GENERATOR'S/OFFER marked and labeled/place	OR'S CERTIFICATIO	DN: I hereby declare the	hat the contents of this	consignment are fully	and accurately de	scribed above	by the proper ship	ping name	, and are clas	sified, pack	aged,
	Exporter, I certify that the I certify that the waste mi	contents of this cons	signment conform to the	e terms of the attache	d EPA Acknowledgmen	t of Consent.			пекроптан	phone and re		,
	Generator's/Offeror's Printed/T	voed Name		02.27(8) (ii 1 811 8 1819	Signature					Mor		Year
<b>↓</b>	Wheeluce 16. International Shipments	Katrina	E.		IK	12-6	. Ul	ulia	}	0	6 21	17
E	Transporter signature (for exp		to U.S.		Export from U.S.	Post of er Date loav		1. /				
	17. Transporter Acknowledgme	nt of Receipt of Mater	ials		Circhus			1/		Man	th Day	Year
TRANSPORTER	Transporter 1 Printed/Typed Na	× 112-2	1CA		Signature	r k	ell	K	0.00	Mon	th Day	$\eta \eta$
ANSI	Transporter 2 Priñted/Typed Na			an a	Signature			440		Mor	th Day	Year
102												
	(0. D)											
1	18. Discrepancy 18a. Discrepancy Indication Sp					Desidue		Destiel Reis	otion	 		action
1	18. Discrepancy 18a. Discrepancy Indication Sp	vace 🗌 Quan	tity	Туре	[	Residue		Partial Reje	ction	[	Fu'l Rej	ection
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Î	18a. Discrepancy Indication Sp	L_ Quan	tity	Туре	[		e Number:			[	Fu'l Rej	ection
Î	18a. Discrepancy Indication Sp 18b. Alternate Facility (or Gene Facility's Phone:	rator)	tity	П Туре	[		e Number:			[		
Î	18a. Discrepancy Indication Sp 18b. Alternate Facility (or Gene	rator)	tity	Туре	[		e Number:			[		
Î	18a. Discrepancy Indication Sp 18b. Alternate Facility (or Gene Facility's Phone:	ility (or Generator)	Codes (i.e., codes for		tment, disposal, and rec	lanifest Reference	e Number:	U.S. EPA ID No		[ 		
NATED FACILITY	18a. Discrepancy Indication Sp 18b. Alternate Facility (or Gene Facility's Phone: 18c. Signature of Alternate Fac	ility (or Generator)				lanifest Reference	e Number:					
DESIGNATED FACILITY     DESIGNATED FACILITY	18a. Discrepancy Indication Sp 18b. Alternate Facility (or Gene Facility's Phone: 18c. Signature of Alternate Fac 19. Hazardous Waste Report N 1. H132 20. Designated Facility Owner	ility (or Generator)	Codes (i.e., codes for 2.	hazardous waste treat	tment, disposal, and red 3. ad by the manifest exce	lanifest Reference	1	U.S. EPA ID No		, ,	nth Da <u>i</u>	/ Year
DESIGNATED FACILITY     DESIGNATED FACILITY	18a. Discrepancy Indication Sp 18b. Alternate Facility (or Gene Facility's Phone: 18c. Signature of Alternate Fac 19. Hazardous Waste Report N 1. H132	ility (or Generator)	Codes (i.e., codes for 2.	hazardous waste treat	tment, disposal, and rec	lanifest Reference	1	U.S. EPA ID No			nth Da <u>i</u>	/ Year

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CleanH	arhore	La	nd Disposal Re Notification F			Page : 1 of 1
ENVIRONMENT MANIFEST INF	AL SERVICES	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	92979292928655655555		Printed	Date :Jun 19, 2017
Generato	***************************************	orce Base		<b>,</b>	Manifest Tracking	Info.
Addres	0050 14/4000	ng Blvd. Se Bldg. 2 al Restoratio	0685,		285072 FLE	(les)
EPA ID :		24423	*****	Sal	eş(Order No: 1702656	3397-006
LINE ITEM INF		Profile No:	Treatability Group		2 LDR Disposal Categor	·
Line item:	Page No:	CH1449152	WASTEWATER	), 	2 (This is subject to LI	
1.	1	011449102	WASTEWATER			////
EPA Waste Coc D018	le	L	L	EPA Wa	ste SubCategory	***************************************
*****************		l	DR Chemical D	ata		
Chemical				Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
1,2-DIBROMOE	THANE	**************	***************************************	Y	N	-N• Y
ACETONE				Ŷ	N	-11- Y
ACETOPHENO	NE			Y	N	-N- Y
BENZENE				Y	N	WY Y
ETHYL BENZEN				Y	N	N=Y
METHYL ETHYI				Ŷ	N	-N-Y
METHYL ISOBU				Y	N	N- Y
NAPHTHALENE	1			Y	N	-14- Y
TOLUENE				Y	N	44- ý N- V
XYLENES (MIXE	ED ISOMERS)			]	N	
· ··		<u>Certlf</u>	cation			<u>Applies to</u> <u>Manifest Line</u> Items
Pursuant to 40 C Part 268.	CFR 268.7(a), I he	reby notify that this	shipment contain	s waste rest	ricted under 40 CFR	1.
Waste analysis of Signature :	iala, where availa		Print Nam	100000	Katrina whee	lock
Title :	Physics	Scientist	Date :	2	017-06-21	big big par big gas gas gas gas pie pie big big st
······	*****		8			

Ple	ease pri	int or type. (Form designed for use on elite (12-pitch) typewriter.)		S	C MA PP	W 8/28		For	m Approved. C	MB No. 2050	)-003
1	UNIF	ORM HAZARDOUS 1. Generator ID Number	2. Page 1 of	3, Emerg	ency Response	e Phone	4. Manifest	Tracking I	^{Number} 8514	0 =	-
		ASTE MANIFEST N M 9570024423	1	(505)	846-82	22	01	.02	8514	8 FL	E
	Kirt	nerator's Name and Mailing Address land Air Force Base		Generator	's Site Address	(if different th	an mailing addres	s)			
11		50 Wyoming Blvd. Se Bldg. 20685, Environmental Res	storatio								
	Kirt	land Air Force Base. NM 87117									
		rator's Phone 5051 846-9017 ATTN:ScottClark				-					
		an Harbors Environmental Services, Inc.					U.S. EPA ID N				
11	-	Insporter 2 Company Name							32225	0	
		hopenet 2 company many					U.S. EPA ID N	umber			
	8. De	signated Facility Name and Site Address					U.S. EPA ID N	h			_
		an Harbors Deer Trail LLC					U.S. EPAID N	umper			
	108	555 East Highway 36					COD9	913	00484	ŀ	
	Dee	rTrail. CO 80105					ï				
	9a.	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,			10. Contai	0.050			1		
11	HM	and Packing Group (if any))		F	No.	Type	11. Total Quantity	12. Unit Wt./Vol.	1.3 992	iste Codes	
		NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (BENZ				.160		-	1 1	1	
ļË	X	PG III	ENE), 9,	· 1	í				D018		
Na la						TT	1.800	G			
GENERATOR		2.							1		
l'	'										
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	14. Sp	becial Handling Instructions and Additional Information									-
	1. CB1	1449152 FRG 171		· · · ·							
	<b>;</b>	the second se									
	4	Job# 1	7026	56	397						
	15. 0	SENERATOR S/OFFEROR S CERTIFICATION: Thereby declare that the contents of this	s consignment	are tully and	accurately de	scribed above	by the proper shi	oping nam	e, and are classif	ied, packaged,	
	1 2	narked and labeled/placarded, and are in all respects in proper condition for transport acc Exporter, I certify that the contents of this consignment conform to the terms of the attache	d FPA Acknow	ledament of	Consent			it export s	hipment and I am	the Primary	
	Gonar	certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a larg ator's/Offeror's Printed/Typed Name			) (if I am a sma	II quantity ger	nerator) is true.				_
11	1	the aloche Kata E	Sig	nature		1 0			Month	Day Y	rear
Ľ	16 Int	Theolock, Katrina E	1	72-		rece	our		01	12811	+
INT'L	1		Export from	U.S.	Port of en	-					
		porter signature (for exports only): ansporter Acknowledgment of Receipt of Materials			Date leavi	ng U.S.:					_
TRANSPORTER	Transp	porter 1 Printed/Typed Name	Sig	nature					Month	Day Y	'ear
		Nenny Sanchez		A	2	11	/		19	12811	17
ANS/	Transp	porter 2 Printed/Typed Name	Sig	nature	, 0,	5			Month	Day Y	ear,
R		henry Sauchet 15		-	Sec.		6 *	5	19	2817	کر
1	18. Dis	screpancy			0	7-3		-		<u></u>	-
н	18a. Di	iscrepancy Indication Space Quantity			Residue		Partial Reje	ation		Full Rejection	
	i.				ricoldus			GUOTI		run Rejecuon	
Ľ	101 11			Mani	fest Reference	Number:					
15	18b. Al	ternate Facility (or Generator)					U.S. EPA ID N	umber			
<b>V</b>							7				
L L L	Facility	/s Phone: gnature of Alternate Facility (or Generator)									
闄	100.00	ginality of Anemale Facility (of Generatory							Month	Day \	Year
DESIGNATED FACILITY	19 Ha	zardous Waste Report Management Method Codes (i.e., codes for hazardous waste treat	mant dia - 1	المنافع ليهم							
ESI 1	1.	I 2.	ument, disposa	, and recycli	ng systems)		4.				
1			<i>.</i>				4.				5
	20. Des	I signated Facility Owner or Operator: Certification of receipt of hazardous materials covere	d by the manif	est excent a	s noted in Item	18a					
	Printed	Typed Name		nature	e notoq in tidili	.00			Month	Day Ye	ear
ļ			1							Î Î	
FPA	Form 8	3700-22 (Rev. 3-05) Previous editions are obsolete.			DESIG	MATEO	CILITY TO D	COTINIA	TION STATE		

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Ple	ase pri	nt or type. (Form desig	ned for use on elite (12-pitcl	h) typewriter.)		S	C MA PP	W 10/3	L0/2017	Form	Approved.	OMB No.	2050-0039
Î		FORM HAZARDOUS	1. Generator ID Number	423	2. Page 1 of 1		ncy Response 385-36		4. Manifest		8519	93 F	IF
	5. Ge Kir	nerator's Name and Mailin Land Air Force E	ng Address	1 2 2					an mailing addre				Denirs Dannet
	20	50 Wyoming Blv	/d. Se Bldg. 20685,	Environmental Re	estoratio								
	Gene	rator's Phon (505) 84	Base. NM 87117 16-9017 ATTN:5	ScottClark	1								
			® ironmental Service						U.S. EPAID		222	50	
		nsporter 2 Company Name		af 11841					U.S. EPA ID		I L L L	50	
	8. De	signated Facility Name and	d Site Address						U.S. EPA ID	Number			
	Clea	an Harbors Arag	tonite LLC						итря	815	5217	7	
	Gra	00 North Aptus ntsville. UT 840	29						1				
	9a.	9b. U.S. DOT Description	on (including Proper Shipping Na	ame, Hazard Class, ID Number	,		10. Contai	ners	11. Total	12. Unit	13.1	Waste Cod	96
	НМ	and Packing Group (if a					No.	Туре	Quantity	Wt./Vol.	,		1
TOR	X	NA3082, HAZA Pg III	RDOUS WASTE, LI	QUID, N.O.S., (BEN	IZENE) , 9,		1	TT	825	Ch	0018		<u> </u>
GENERATOR		2.							050	Enn,			<u> </u>
B													<u> </u>
		3.											<u> </u>
													<u> </u>
		4.											<u> </u>
	14. Sp	pecial Handling Instructions	s and Additional Information						4,				
		H1555430											
	2.3												
	15. (	GENERATOR'S/OFFEROP	R'S CERTIFICATION: I hereby ded, and are in all respects in pr	declare that the contents of thi	is consignment a	re fully and a	accurately de	scribed above	by the proper sh bental regulations	hipping name	e, and are clas	sified, pack	kaged,
Ц	8	Exporter, I certify that the c	contents of this consignment con mization statement identified in	form to the terms of the attach	ed EPA Acknowle	edgment of (	Consent.						iui y
	Gener	ator's/Offeror's Printed/Typ	ned Name		Sign	ature		()A	$\bigcap$		Mon	CAN HINCH	
ŧ	16. Int	ernational Shipments	Import to U.S.	·			Port of en		my		12	2 2	617
INT'L		porter signature (for export	ts only):	147	Export from U		Date leavi	-		)			
TRANSPORTER	17. Transp	ansporter Acknowledgment porter 1 Printed/Typed Nam			Sign	ature		a			Mon	th Day	Year
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Î	18. Dis	screpancy											
	18a. D	viscrepancy Indication Space	ce Quantity	Туре		F	Residue		Partial Re	jeclion	L	Full Re	jection
  >	18b A	Iternate Facility (or Genera	ator)			Manife	est Reference	Number:	U.S. EPA ID I	Number			
대	100.7	itemate raciity (or Genera	nory						0.3. EFAIDT	Number			
DFA		y's Phone: ignature of Alternate Facilii	ly (or Generator)	in the second second					1		Moi	oth Da	Voor
DESIGNATED FACILITY	100.0	ignature of Anternate Facility	ly (or ceneratory									nth Da	y Year
ESIG	19. Ha	zardous Waste Report Ma	nagement Method Codes (i.e., o	codes for hazardous waste trea	atment, disposal,	and recyclin	ng systems)		4.				
	-40		L.		0.								
		signated Facility Owner or d/Typed Name	Operator: Certification of receip	ot of hazardous materials cover		est except as ature	s noted in Iten	n 18a			Mor	nth Day	/ Year
4	l	a spouranio				3							
EP/	Form	8700-22 (Rev. 3-05) P	revious editions are obsolet	e.			DESIC	SNATED F	ACILITY TO	DESTINA	TION STAT	E (IF RE	QUIRED

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

<b>CleanHa</b>	rbors		Land Disp Notifi	oosal Res cation Fo		ę	Page : 1 of 1
ENVIRONMENTAL						Printed D	ate :Dec 18, 2017
MANIFEST INFOR Generator :				ī		Manifest Tracking	
Address:		ng Blvd. Se Bld al Restoratio	g. 20685,		010	0285193FLE	-
EPA ID #:	NM95700				Sale	es Order No: 1702656	397-008
LINE ITEM INFOR	ge No:	Profile No:	- Treatab	ility Group:		LDR Disposal Category	
$\frac{1}{1}$		CH1555430	7	WATER		2 (This is subject to LD	and the second
EPA Waste Code		<u> </u>	_i			ste SubCategory	
D018							
				e <u>mical Da</u>		Constituents	Contaminants
				Н	nderlying azardous	of	Subject to Treatment
_Chemical 1,2-DIBROMOETH					onstituents Y		Y
ACETONE					Y	N	Y
ACETOPHENONE					Ŷ	N	Ý
BENZENE					Y	N	Y
ETHYL BENZENE					Y	N	Y
METHYL ETHYL K	ETONE				Y	N	Y
METHYL ISOBUTY	L KETONE				Y	N	Y
NAPHTHALENE					Y	N	Y
TOLUENE					Y	N	Y
XYLENES (MIXED	ISOMERS)				Y	N	Υ
		<u>C</u>	ertification				Applies to Manifest Line
Pursuant to 40 CFF Part 268.	R 268.7(a), I he	ereby notify tha	t this shipme	nt contains	waste res	tricted under 40 CFR	1.   
Waste analysis dat Signature : Title :	a where avail Rebe <i>cca</i> Physica	able is attache	)	Print Name Date :		Rebecca (1/11	<u>1e5</u>

N UNI	IFORM HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emer	gency Response	Phone	4. Manifest	Tracking N			
	NASTE MANIFEST	141/195700244	123	1			85 3679			670	) (	┢╴
	enerator's Name and Maili				Generato	or's Site Address	(if different th	nan mailing addres	ss)			
			~ <b>^^</b>									
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Gen	erator's Phone: 5,	FORCE BASE !	Tlank					210 CD1/D1				
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1.11	ransponer z company Nan	ne						U.S. EPA ID N	umber			
	esignated Facility Name ar	d Site Address						U.S. EPA ID N	lumbor			
11	Advanced Cherr							0.0. LIND I	NUTIDEI			
8	M33 Edith Blvd	NE							N	MDU02	20862	7
	Nbuquerque, Mi ility's Phone: 505-349											
			ng Name, Hazard Class, ID Nur	mber	T	10. Contai	ore	14. Tetel	10.11.0			
9a. HM			ig Name, Hazard Oldss, ib Nul	inder,	ŀ	No.	Туре	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Coo	ies
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5	NASU62 Ha	izardous waste, i	iiquid, n.o.s. (Ben	izene), 9. P	2.3HI	07	OM	2407	p	0.010		4
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22           15.           Generality           16. I/           Interview	A HOUR EMERG GENERATOR'S/OFFERC marked and labeled/placa Exporter, I certify that the I certify that the waste mir erator's/Offeror's Printed/Ty U A CAN A CONTROL OF CONTROL International Shipments asporter signature (for expo fransporter signature (for expo fransporter Acknowledgmer sporter 1 Printed/Typed Na Discrepancy Discrepancy Discrepancy Discrepancy Indication Sp Alternate Facility (or Gene lity's Phone: Signature of Alternate Fac Hazardous Waste Report M	GENCY CONTACT         OR'S CERTIFICATION: I here         rded, and are in all respects         contents of this consignment         himization statement identifie         yped Name	I SCOTT CLARK 5 reby declare that the contents in proper condition for transpo t conform to the terms of the at ad in 40 CFR 262.27(a) (if I am	iO5       34:5       367:         of this consignment       of application of application of application of application of application of a provide a large quantity get         in a large quantity get       Sig         Image: Image in the second of	) are fully ar cable inter vledgment o nerator) or o gnature U.S. gnature Ma al, and recy	nd accurately de mational and nati of Consent. (b) (if I am a sma Port of en Date leavi Residue nifest Reference	scribed above onal governm ill quantity ge try/exit: ng U.S.:	e by the proper sh nental regulations. nerator) is true.	ipping name If export shi	ipment and I a	th Da	y y y y y
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Page 1 of 3

# LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

	G	ENERATOR NAME			MANIFEST N	IUMBER	
KIRTLAND AIR FORCE BASE					0122670	57FLE	
1. PROFILE NUMBER	2. WASTE CODE	3. WASTE SUBCATEGORY	UNDE	4. ERLYING CONSTITUENTS	5. NWW or WW	6. SPECIAL CONDITIONS	N/A
ACT76908	D018	BENZENE			WW		
			1,2-DIBROM 0.432MG/L	OETHANE-			
			ACETOPHENO MG/L	ONE-8.24			
			2-BUTANONI	E-0.591 MG/L			
			4-METHYL-2- 0.665 MG/L	PENTANONE-			
			ACETONE-2.8	31 MG/L			
			ETHYLBENZE	NE-1.35 MG/L			
			NAPHTHALEI MG/L	NE-0.148			
			TOLUENE-13	.9 MG/L			
			XYLENES-5.4	8 MG/L			
			BENZENE-9.1 TCLP LIMIT)	l6 MG/L (OVER			
				-			

SPECIAL CONDITIONS: PLEASE NOTE ANY SPECIAL CONDITIONS THAT MAY APPLY TO EACH WASTE PROFILE NUMBER IN COLUMN 6 OF THIS FORM. IF NONE OF THE SPECIAL CONDITIONS BELOW EXIST AND THE WASTE MUST BE TREATED TO THE APPLICABLE STANDARDS IN 40CFR268.40, CHECK N/A FOR THE APPROPRIATE WASTE PROFILE.

- A. Waste Requiring No Further Treatment
- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRA TSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- I. Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.



J. Certification for contaminated soil treated in accordance with 40 CFR 268.49

Waste analysis is attached where available; otherwise the information contained herein is based upon my thorough knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete.

SIGNATURE	TITLE	DATE
Curulou	Physical Scientist	10/19/18

# LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION A

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION B

I certify under penalty of law that I personally have examined and am familiar with the waste and that lab pack contains only wastes which have not been excluded under appendix iv to 40 CFR 268. I am aware that there are significant penalties for submitting a false certification, including fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION F

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic. This de-characterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION G

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic, and that the underlying hazardous constituents, as defined in 268.2 have been treated on site to the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION I

I certify under penalty of law that I personally have examined this contaminated soil and it [DOES/DOES NOT] contain listed hazardous waste and [DOES/DOES NOT] exhibit a characteristic of hazardous waste and requires treatment to meet the soil treatment standards as provided by 268.49(c).

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION J

I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Plea	ase pr	int or type.								oproved. OI	/B No. 2	050-0039
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6	5.16	herators Name) and Mailin	ig Address BASE		Generator	's Site Address	if different that					
	Gene 6. Tra	IRTLAND AIR F erator's Phone: SCOT ansporter 1 Company Nam	BLVD SE BLDG 20635. FORCE BASE, NM 87117 T CLARK 505-846-9017 18					U.S. EPA ID	Number			
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	7. Tra	ansporter 2 Company Nam	10					U.S. EPA ID	Number			
0.000	8. De	signated Facility Name an	nd Site Address					U.S. EPA ID	Number			
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	Facili	ity's Phone:505-349	-5220									
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	24 15.	4 14 31 PEMERG GENERATOR'S/OFFERO marked and labeled/placa Exporter, I certify that the of	CT 76908 KIA SENCY COMPACT SECTEC R'S CERTIFICATION: I hereby declare that I rided, and are in all respects in proper conditio contents of this consignment conform to the te himization statement identified in 40 CFR 262. yped Name	he contents of this consignr n for transport according to rms of the attached EPA Ac	nent are fully an applicable interr knowledgment o	national and nation of Consent.	onal governm	ental regulations	hipping name, a . If export shipm	nd are classifi ent and I am Month	ed, packag the Primar Day	ged, ry Year
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Page 1 of 2

# LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

KIRTLAN 2. WASTE CODE D018	D AIR FORCE BASE 3. WASTE SUBCATEGORY	4. UNDERLYING	0122672 5.	16FLE 6.	
WASTE CODE	WASTE		and the second sec	E	
D018	JODUNILOONI	HAZARDOUS CONSTITUENTS	NWW or WW	SPECIAL CONDITIONS	N/A
0010	BENZENE		ww		
		1,2-DIBROMOETHANE- 0.432MG/L			
		ACETOPHENONE-8.24 MG/L			
		2-BUTANONE-0.591 MG/L			1
		4-METHYL-2-PENTANONE- 0.665 MG/L			
		ACETONE-2.81 MG/L			
		ETHYLBENZENE-1.35 MG/L			
		NAPHTHALENE-0.148 MG/L			
		TOLUENE-13.9 MG/L			
		XYLENES-5.48 MG/L			
		BENZENE-9.16 MG/L (OVER TCLP LIMIT)			
			ACETOPHENONE-8.24 MG/L 2-BUTANONE-0.591 MG/L 4-METHYL-2-PENTANONE- 0.665 MG/L ACETONE-2.81 MG/L ETHYLBENZENE-1.35 MG/L NAPHTHALENE-0.148 MG/L TOLUENE-13.9 MG/L XYLENES-5.48 MG/L BENZENE-9.16 MG/L (OVER	ACETOPHENONE-8.24 MG/L 2-BUTANONE-0.591 MG/L 4-METHYL-2-PENTANONE- 0.665 MG/L ACETONE-2.81 MG/L ETHYLBENZENE-1.35 MG/L NAPHTHALENE-0.148 MG/L TOLUENE-13.9 MG/L XYLENES-5.48 MG/L BENZENE-9.16 MG/L (OVER	ACETOPHENONE-8.24       MG/L         MG/L       2-BUTANONE-0.591 MG/L         4-METHYL-2-PENTANONE-       0.665 MG/L         0.665 MG/L       ACETONE-2.81 MG/L         ACETONE-2.81 MG/L       ETHYLBENZENE-1.35 MG/L         MG/L       TOLUENE-1.39 MG/L         XYLENES-5.48 MG/L       BENZENE-9.16 MG/L (OVER

SPECIAL CONDITIONS: PLEASE NOTE ANY SPECIAL CONDITIONS THAT MAY APPLY TO EACH WASTE PROFILE NUMBER IN COLUMN 6 OF THIS FORM. IF NONE OF THE SPECIAL CONDITIONS BELOW EXIST AND THE WASTE MUST BE TREATED TO THE APPLICABLE STANDARDS IN 40CFR268.40, CHECK N/A FOR THE APPROPRIATE WASTE PROFILE.

- A. Waste Requiring No Further Treatment
- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRA TSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- I. Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.



J. Certification for contaminated soil treated in accordance with 40 CFR 268.49

# Waste analysis is attached where available; otherwise the information contained herein is based upon my thorough

# knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete.

SIGNATURE	TITLE	DATE
Eilin Jon	Physical Acines7	2010211

# LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION A

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION B

I certify under penalty of law that I personally have examined and am familiar with the waste and that lab pack contains only wastes which have not been excluded under appendix iv to 40 CFR 268. I am aware that there are significant penalties for submitting a false certification, including fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION F

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic. This de-characterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION G

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic, and that the underlying hazardous constituents, as defined in 268.2 have been treated on site to the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION I

I certify under penalty of law that I personally have examined this contaminated soil and it [DOES/DOES NOT] contain listed hazardous waste and [DOES/DOES NOT] exhibit a characteristic of hazardous waste and requires treatment to meet the soil treatment standards as provided by 268.49(c).

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION J

I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

GENERATOR NAME	MANIFEST NUMBER
KIRTLAND AIR FORCE BASE	011074183FLE

Line	TSD Approval	Waste Code(s)	Subcategory	UHC's	NWW or WW	Special Conditions
1	ACT76908	D018	BENZENE		ww	
			2	1,2-DIBROMOETHANE- 0.432MG/L		
				ACETOPHENONE-8.24 MG/L		
				2-BUTANONE-0.591 MG/L	<u> </u>	
			······································	4-METHUL-2-PENTANONE-0.665 MG/L		
				ACETONE-2.81 MG/L	· <u> </u>	
				ETHYLBENZENE-1.35 MG/L		
				NAPHTHALENE-0.148 MG/L		
				TOLUENE-13.9 MG/L		
				XYLENES-5.48 MG/L		
				BENZENE-9.16MG/L(OVER TCLP L/MIT)		

# SPECIAL CONDITIONS:

- Α. Waste Requiring No Further Treatment
- в. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRA TSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes. ł.
- J. Certification for contaminated soil treated in accordance with 40 CFR 268.49
  - Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

# I hereby certify that I believe that the information I have submitted is true, accurate and complete:

SIGNATURE	TITLE	DATE	
Koulhelen	Physical Joint St	20180409	·
			·

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION A

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION B

I certify under penalty of law that I personally have examined and am familiar with the waste and that lab pack contains only wastes which have not been excluded under appendix iv to 40 CFR 268. I am aware that there are significant penalties for submitting a false certification, including fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION F

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION G

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic, and that the underlying hazardous constituents, as defined in 268.2 have been treated on site to the 268.48 Universal Treatment Standards. am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION I

I certify under penalty of law that I personally have examined this contaminated soil and it [DOES/DOES NOT] contain listed hazardous waste and [DOES/DOES NOT] exhibit a characteristic of hazardous waste and requires treatment to meet the soil treatment standards as provided by 268.49(c).

Plea	ase pi		ned for use on elite (12-pitch) typewriter.)							Approved. O	MB No. 2	2050-0039
M	<u>"</u> М	VASTE MANIFEST	1. Generator ID Number NM9570024423	2. Page 1 o			85 3679	01		1 ^{ber} 1298	F	LE
	5. G	enerator's Name and Maili	ng Address CRUE BASE		General	or's Site Address	(if different that	in mailing addres	is)			
	K Gen	IRTLAND AIR I erator's Phone: 505-8	ELVD SE ELDG 20689, FORCE BASE, NM 87117 46-9017 Attn. Scott Clark		1							
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GENERATOR NAME	MANIFEST NUMBER
 Kirtland Air Force Base	011074298FLE

Line	TSD Approval	Waste Code(s)	Subcategory	UHC's	NWW or WW	Special Conditions
1	ACT76908	D018	BENZENE		WW	
		······································		1,2-DIBROMOETHANE-0.432MG/L		
				ACETOPHENONE-8.24 MG/L		
		-		2-BUTANONE-0.591 MG/L		
				4-METHYL-2-PENTANONE-0.665 MG/L		
				ACETONE-2.81 MG/L		
				ETHYLBENZENE-1.35 MG/L		
				NAPHTHALENE-0.148 MG/L		
				TOLUENE-13.9 MG/L		
				XYLENES-5.48 MG/L		
				BENZENE-9.16MG/L(OVER TCLP LIMIT)		

#### SPECIAL CONDITIONS:

- A. Waste Requiring No Further Treatment
- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRA TSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- I. Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.
- J. Certification for contaminated soil treated in accordance with 40 CFR 268.49
- Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

#### I hereby certify that I believe that the information I have submitted is true, accurate and complete:

SIGNATURE	TITLE	DATE
Zalala	Physical Scientist	20180620

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION A

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION B

I certify under penalty of law that I personally have examined and am familiar with the waste and that lab pack contains only wastes which have not been excluded under appendix iv to 40 CFR 268. I am aware that there are significant penalties for submitting a false certification, including fine and imprisonment.

#### WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION F

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. **WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION G** 

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic, and that the underlying hazardous constituents, as defined in 268.2 have been treated on site to the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

### WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION I

I certify under penalty of law that I personally have examined this contaminated soil and it [DOES/DOES NOT] contain listed hazardous waste and [DOES/DOES NOT] exhibit a characteristic of hazardous waste and requires treatment to meet the soil treatment standards as provided by 268.49(c). WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION J

I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

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GENERATOR NAME	MANIFEST NUMBER
KIRTLAND AIR FORCE BASE	012264062FLE

Line	TSD Approval	Waste Code(s)	Subcategory	UHC's	NWW or WW	Special Conditions
1	ACT76908	D018	BENZENE		ww	
				1,2-DIBROMOETHANE-0.432MG/L		
				ACETOPHENONE-8.24 MG/L		
				2-BUTANONE-0.591 MG/L		
				4-METHYL-2-PENTANONE-0.665 MG/L		
				ACETONE-2.81 MG/L		
				ETHYLBENZENE-1.35 MG/L		
				NAPHTHALENE-0.148 MG/L		
				TOLUENE-13.9 MG/L		
				XYLENES-5.48 MG/L		
				BENZENE-9.16MG/L(OVER TCLP LIMIT)		

#### SPECIAL CONDITIONS:

A. Waste Requiring No Further Treatment

- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRA TSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- I. Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.
- J. Certification for contaminated soil treated in accordance with 40 CFR 268.49
  - Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete:



#### WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION A

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION B

I certify under penalty of law that I personally have examined and am familiar with the waste and that lab pack contains only wastes which have not been excluded under appendix iv to 40 CFR 268. I am aware that there are significant penalties for submitting a false certification, including fine and imprisonment.

#### WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION F

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION G

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic, and that the underlying hazardous constituents, as defined in 268.2 have been treated on site to the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION I

I certify under penalty of law that I personally have examined this contaminated soil and it [DOES/DOES NOT] contain listed hazardous waste and [DOES/DOES NOT] exhibit a characteristic of hazardous waste and requires treatment to meet the soil treatment standards as provided by 268.49(c). WASTE STREAMS IDENTIFIED 8Y SPECIAL CONDITION J



# 2-0039 E

LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARD

Page 1 of 2

		MANIFEST	NIFEST NUMBER				
-		KIRTLAND AIR FO	ORCE BASE		43FLE		
Line	TSD Approval	Waste Code(s)	Subcategory	UHC		NWW or WW	Special Conditions
1	ACT76908	D018	BENZENE				Conditions
_				1,2-DIBROMOETHANE	-0.432540/	ww	
-				ACETOPHENONE - 8.24		-	
-				2-BUTANONE - 0.591 N		-	
-				4-METHYL-2-PENTANO		-	-
-				ACETONE - 2.81 MG/L			-
-				ETHYLBENZENE - 2.04 M	MG/L		
-				NAPHTHALENE - 0.82 M			-
-				TOLUENE - 19.5 MG/L			
-				XYLENES - 6.0 MG/L			-
-				BENZENE - 9.8 MG/L (O	VER TCLP LIMIT)		
-				1,1,2-TRICHLOROETHAN		-	-
-				TRICHLOROETHENE - 0.		-	
				METHYLENE CHLORIDE		-	

#### SPECIAL CONDITIONS:

- IAL CONDITIONS: Wats Requiring Ro further Treatment LaP Pack Wass Qualifying for Alternative Treatment and 40 CFR 268.40 Haardoo: Waste Debris subject to standard treatment requirements, 40 CFR 268.40 Haardoo: Waste Debris subject to alternative standards in 40 CFR 268.40 Maste Qualifying for Lengtion and not subject to alternative standards in 268.40 (other than those expressed as a required method of treatment) that are reasonable presented to contain underlying haardoous constituents a defined in 268.20); are treated on site to remove haardoous characteristic; and are sent of fiste for treatment underlying haardoous constituents a defined in 268.20); are treated on site to remove haardoous characteristic; and are Characteristic waste that a notification underlying haardoous constituents a defined 268.20); that are treated on site to remove haardoous characteristic; and are Characteristic waste that contain underlying haardoous constituents a defined 268.20); that are treated on site to remove the haardoous characteristic waste that contain underlying haardoous constituents a defined 268.20); that are treated on site to remove the haardoous characteristic waste that contain inderlying haardoous constituents a defined 268.20); that are treated on site to remove the haardoous characteristic waste that contain inderlying haardoous constituents and defined 268.20); that are treated on site to remove the haardoous characteristic weeks that contain inderlying haardoous constituents and defined 268.20); that are treated on site to remove the haardoous characteristic contained set of the inderlying haardoous constituents and defined 268.20); that are treated on site to subject to 040.0000; the other control of the other medineries, the other handoous the the other haardoous that the the other haardoous the other haardoous the other control of the other medineries, the other handoous the other haardoous the other haardoous wastes. Certification for containiated soill inclusing the prevence or abace of G.

- н.
- Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete:

SIGNATURE	TITLE	DATE
meling darke	Chief, Environmental Mat	8/14/2020

IED BY SPECIAL CONDITION A

WASTS STRAMS IDENTIFIED BY SPECIAL CONDITION A Learnify under penalty of law that T personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart to and all applicable prohibitions as for for in 40 CFR 282.22 or RCMs section 2004(d). I believe that the information have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. WASTE STREMAN SUDMITIED BY SPECIAL CONDITION B

Wish's inclusion such interview of arecurs, or watching of the second and a main familiar with the waste and that lab pack contains only wastes which have not been excluded under appendix in to 40 CFR 268. I am aware that there are significant penalties for submitting a false certification, including fine and

#### WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION F

WAD is a meaning bit with the wate has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalises for submitting a false certification, including the possibility of fine and imprisonment. WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION G

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic, and that the underlying hazardous constituents, as defined in 268.2 have been treated on site to the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

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	Fransporter 2 Company Name	in a			2	1		_	14	_
11 2	Designated Facility Name and Site Add Advanced Chemical T	reatment		1		U.S. EPA ID N		MD00220	8627	
	6133 Edith Blvd NE Albuquerque, NM 871					1		2		
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15.	1) ERG#171; ACT769 24 HOUR EMERGENO GENERATOR'SIOFFEROR'S CER marked and labeled/placarded, and Exporter, I certify that the contents I certify that the waste minimization	008 KIA- <u>4K 55 DM</u> CY CONTACT: SCOTT CL TIFICATION: I hereby declare that the c are in all respects in proper condition for of this consignment conform to the terms statement identified in 40 CFR 262.27(a)	ARK 505 385 3679 contents of this consignment are full transport according to applicable it	y and accurately de nternational and nai ant of Consent. or (b) (if I am a sm	escribed abov tional governi nall quantity g	e by the proper simental regulations		Month	Day	Year
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Page 1 of 3

# LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

		GENERATOR NAME			MANIFEST N		
	KIRT	LAND AIR FORCE BASE	and the second		01469103		
1. PROFILE NUMBER	2. WASTE CODE	3. WASTE SUBCATEGORY	4 UNDER HAZARDOUS C		5. NWW or WW	6. SPECIAL CONDITIONS	N/A
ACT121443	D018	BENZENE			NWW		X
	D001	IGNITABILITY					
			BENZENE - 750	) mg/kg			-
			ETHYLBENZENE mg/kg	= - 5,400			
	and the second	In Concern Statement of the	TOLUENE - 11,	000 mg/kg		100000	
		-14.40	NAPHTHALENE	– 770 mg/kg			
			XYLENES – 20,0	00 mg/kg			
	in road						
	of some shore in			a new property and a			
	A MAR BORNIN AND	and the second s	mante dans dans	n in ante			
TRUE TREAM	and the second second			Contrast of			
		and the set of the set of the	and the second second				
	Barris and	IDAL CORP. TON &					
					I CONTRACTOR OF STREET		

SPECIAL CONDITIONS: PLEASE NOTE ANY SPECIAL CONDITIONS THAT MAY APPLY TO EACH WASTE PROFILE NUMBER IN COLUMN 6 OF THIS FORM. IF NONE OF THE SPECIAL CONDITIONS BELOW EXIST AND THE WASTE MUST BE TREATED TO THE APPLICABLE STANDARDS IN 40CFR268.40, CHECK N/A FOR THE APPROPRIATE WASTE PROFILE.

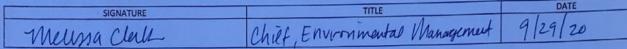
- A. Waste Requiring No Further Treatment
- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.



- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRA TSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.
- J. Certification for contaminated soil treated in accordance with 40 CFR 268.49

Waste analysis is attached where available; otherwise the information contained herein is based upon my thorough knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete.



# LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION A

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION B

I certify under penalty of law that I personally have examined and am familiar with the waste and that lab pack contains only wastes which have not been excluded under appendix iv to 40 CFR 268. I am aware that there are significant penalties for submitting a false certification, including fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION F

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic. This de-characterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION G

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic, and that the underlying hazardous constituents, as defined in 268.2 have been treated on site to the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION I

I certify under penalty of law that I personally have examined this contaminated soil and it [DOES/DOES NOT] contain listed hazardous waste and [DOES/DOES NOT] exhibit a characteristic of hazardous waste and requires treatment to meet the soil treatment standards as provided by 268.49(c).

1	110	NIFORM HAZARI WASTE MANIFE		Generator ID Numbe	ər	- A ANA				idress: MR				DE
	5	Generator's Name a KIRTLAND 2050 WYON KIRTLAND	AIR FO	NM957002	4423 DG 2068 , NM 871	5, 117	2. Page 1 of 3. T 1 Gen	mergency Respon 505 : rrator's Site Addres	385 367	9 4. Manifes 0 1 han mailing addre	Form t Tracking Ni 548	Approved. Mober 436	OMB No. 21	050-0039
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		esignated Facility No dvanced Cl 133 Edith B Ibuquerque								U.S. EPA ID	Number	ARUDO	070540	
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GENERATOR	1913	2. UN1993, 1	Waste	Flammable			ne), 9 , PGIII	No.	Type DM	Quantity	Wt/Vol.	13. D018	Waste Codes	
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	GENERATOR NAME MANIFEST NUMBER						
		484368FLE	4 A.				
	1		1		an an an An		
Line	TSD Approval	Waste Code(s)	Subcategory	UHC's	NWW or WW	Special Conditions	
1	ACT76908	D018	and the second se	and the second sec	ww	States - Law	
-			and the second second	1.2-DIBROMOETHANE – 0.432MG/L			
		Stor Children	and the second s	ACETOPHENONE – 8.24 MG/L	Entre Rendered Brite	- addition of the	
		5.100 St.	and the second states	2-BUTANONE – 0.591 MG/L	1. 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		La superiore services and	the second second second second	4-METHYL-2-PENTANONE – 0.665 MG/L	3 L.		
			Anna die Manadak Shere in Shire in A	ACETONE – 2.81 MG/L		Star A Shi	
	Charles and all	a telepolitic manifestaria depe	Salary Series of Astronomical Sciences	ETHYLBENZENE – 2.04 MG/L	a Weeks St.	801 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	Contraction of the second	1		NAPHTHALENE – 0.82 MG/L			
en e				TOLUENE – 19.5 MG/L	and a compart	e sei 9.	
- 10 mm	1.15			XYLENES – 6.0 MG/L			
				BENZENE – 9.8MG/L (OVER TCLP LIMIT)			
				1,1,2-TRICHLOROETHANE - 0.083 MG/L			
10. 23			ALC: NO.	TRICHLOROETHENE – 0.28 MG/L			
18 1 1				METHYLENE CHLORIDE - 0.49 MG/L			
			Sector States				
2	ACT128687	D001	HIGH TOCs				
1		D018	and the second of the second				
		1000	and the second second	BENZENE – 750 MG/KG			
				ETHYLBENZENE – 5400 MG/KG			
				TOLUENE – 11000 MG/KG			
10.1			All All	XYLENES – 20000 MG/KG			
			And the second second	I MERCENTER AND			

# SPECIAL CONDITIONS:

- A. Waste Requiring No Further Treatment
- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous
- characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRA TSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- I. Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.
- J. Certification for contaminated soil treated in accordance with 40 CFR 268.49
- Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete:



# WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION A

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.



# GENERATOR WASTE PROFILE SHEET

A. GENERATOR INFO				•		Profile Number:		
Generator Name: Mailing Address:	KIRTLAND AIR FORCE B 2050 WYOMING BLVD SE KIRTLAND AIR FORCE B	BLDG 20685, ENVI	RONMENTAL RESTOR	RATION	Genera		NM9570024423 505 853 3484	
Site Pick-up Address:	5202 RANDOLPH AVE SE ALBUQUERQUE, NM 8					Email:		
Technical Contact: Name of Waste Process Generating	HOLLY O'GRADY WELL WATER CONTAMIN HAZARDOUS WELL WAT	ATED WITH BENZE		ITACT				
NAICS	CODE: 928110	Fo	rm Code:W101		, So	ource Code:	G39	
B. PHYSICAL CHARA	CTERISTICS OF WAST	E AT 25C OF 77F						
Physical State: LIC	QUID Color: C	LEAR	Clarity: CLEAR		se Separation ber of Layers:	SINGLE	Odor: NONE	
<b>PH:</b> 6 - 8	Specific 1 Gravity:	- 1 SP.GR.	Flash Point >2 (F):	00 F	BTU Valu	IE: BTU/LB N	A	
C. Chemical Compo	sition / UHC's	Range		D. METALS	Tai			·····
BASED UPON: ANALY	TICAL (INCLUDED) X	GENERATOR K			100	tal (PPM)	EP 10	oxicity (mg/l)
1,2-dibromoethane (El 2-butanone (MEK) [H2 4-methyl-2-pentanone Acetone Acetophenone Benzene Ethylbenzene Naphthalene Toluene Total Xylenes Water F. Shipping Informa DOT Hazardous Material	DB) 2] 3	0432 0665 0665 0 - 2.81 0 - 8.24 0 - 9.16 0 - 1.35 0148 0 - 13.9 0 - 5.48 99 - 100	MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L	E OTHER COI OXIDIZER: EXPLOSIVE: SHOCK SENSIT TIRES: PY ROPHORIC: RADIOACTIVE: EXEMPT RAD: ETHIOLOGICAL HALOGENATED	N IVE: N N N : N	REACTI REACTI WATER// THERMA TSCA RE COMPRE CERCLA PESTICI MANUFA	/E SULFIDES PPM /E CYANIDES PPM AIR REACTIVE LLY UNSTABLE :G PCB WASTE: :SSED GASSES: /SUPERFUND: DE .CTURING WASTE: CFR 268, APPENDI	Silver: Copper: Nickel: Zinc: Thallium: N N N N N N N N N N
Proper Shipping Name:	NA3082, Hazardous wast	e, liquid, n.o.s. (Benz	ene), 9 , PGIII		EBRIS N		PPM VOC as genera	
Hazard Class: 9 ID #: NA3082 PG: III				US EPA Hazardo		ons		
Anticipated Volume (Units	s): 12 DM	•		US EPA Hazardo Codes:	bus vvaste ;	D018	•	
Per: QUARTER								
G. Special Handling all VOC and Semiv	Instructions: OC listed no analytical of	on file ESTCP 10-1	7-17					

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H. GENERATOR'S CERTIFICATION:
I hereby certify that all information in this and all the attached documents is complete and accurate, and that all known or suspected hazards have been disclosed. I further certify
that any samples submitted with this profile are representative of the waste to be shipped and are taken in accordance with SW 846 or other approved procedures. I agree to notify
Advanced Chemical Treatment in writing when the process generating this waste stream changes or when I have reason to believe the data contained herein is not complete and
accurate

Signatur Print Name:

Title Person Program Age

Date 2-28-18



# GENERATOR WASTE PROFILE SHEET

A. GENERATOR INFORMATION Generator Name: KIRTLAND AIR FORCE BASE Mailing Address: 2050 WYOMING BLVD SE BLDG 20685, ENVIRO KIRTLAND AIR FORCE BASE, NM 87117 Site Pick-up Address: 2050 WYOMING BLVD SE KIRTLAND AIR FORCE BASE, NM 87117 Technical Contact: SCOTT CLARK Name of Waste WATER GENERATED FROM MONITOR WELLS Process Generating GROUND WATER MONITORING NAICS CODE: 928110 For	Title: MAIN CONT.	Genera NTION		NM9570024423 505 846 9017
				010
B. PHYSICAL CHARACTERISTICS OF WASTE AT 25C OF 77F Physical State: LIQUID Color: CLEAR	Clarity: CLEAR	Phase Separation Number of Layers:	1	Odor: NA
PH: 5 - 9 PH Specific = 1 SP.GR. Gravity:	Flash Point > 200 (F):	DF <b>BTUValu</b>	IE: BTU/LB N	A
C. Chemical Composition / UHC's Range BASED UPON: ANALYTICAL(INCLUDED) X GENERATOR KNG 1,2-DICHLOROETHANE 00005 ACETONE 0371 ACETOPHENONE 0 - 1.82 BENZENE 0221 BIS(2-ETHYLHEXYL)PHTHALATE 0159 DIETHYL PHTHALATE 0100206 ETHYLBENZENE 0185 LEAD 0356 TOLUENE 0 - 1.39 WATER 100 - 100 XYLENES 0431	MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L	D. METALS To Arsenic: Barium: Cadmium: Cadmium: Cadmium: Cadmium: Lead: Mercury: Chromium, H Selenium: Selenium: Selenium: Selenium: SHOCK SENSITIVE: N SHOCK SENSITIVE: N SHOCK SENSITIVE: N SHOCK SENSITIVE: N SHOCK SENSITIVE: N SHOCK SENSITIVE: N SHOCK SENSITIVE: N EXEMPT RAD: N	REACTI REACTI WATER/ THERM/ TSCA RI COMPRI	EP Toxicity (mg/l) Silv er: Copper: Nickel: Zinc: Thallium: VE SULFIDES PPM N VE CYANIDES PPM N AIR REACTIVE N AIR REACTIVE N AILY UNSTABLE N EG PCB WASTE: N ESSED GASSES: N VSUPERFUND: N
F. Shipping Information: DOT Hazardous Material NO Exempted YES Proper Shipping Name: Non-RCRA/Non-DOT Regulated Material Liquid Material Class: ID #: PG: Anticipated Volume (Units): 1 DM Per: YEAR G. Special Handling Instructions:	(WATER)	ECHIN FIGL: N ETHIOLOGICAL: N HALOGENATED ORGANIC COMPO DEBRIS N Subject to NESHAP Regulat US EPA Hazardous Waste US EPA Hazardous Waste Codes: ;	PESTICI MANUF/ DUNDS PER 40 <500	DE NACTURING WASTE: N

ANALYTICAL TABLE SENT FOR WASTE IDENIFICATION

H. GENERATOR'S CERTIFICATION:

I hereby certify that all information in this and all the attached documents is complete and accurate, and that all known or suspected hazards have been disclosed. I further certify that any samples submitted with this profile are representative of the waste to be shipped and are taken in accordance with SW 846 or other approved procedures. I agree to notify Advanced Chemical Treatment in writing when the process generating this waste stream changes or when I have reason to believe the data contained herein is not complete and accurate. Restoration Program Manager

Signature		Title	Date_	3-7-2019
Print Name:	Scott Clark	J5-2		



# WASTE MATERIAL PROFILE SHEET Clean Harbors Profile No. CH1555430

CUSTOMER CODE (Assi	ming Blvd. Se Bldg.	20685, Environmenta s) CB11290	CITY	ATOR NAME: <i>Kirtland Air Force Base</i> MER NAME: <i>Albuquerque</i>	e STATE/PRC	IONE: (505 eral Service	VM ZIP/PO: ) 846-9017 es	STAL COE STAL COE	0/1	
B. WASTE DESCRIPTION		ndurator Combined (DULK								
WASTE DESCRIPTION: PROCESS GENERATING		ndwater Combined (BULK)								
		ge Water from Sampling A GING CONTAINED WITHIN A L			ER? No					
C. PHYSICAL PROPERTI	IES (at 25C or 77F)	T								
PHYSICAL STATE SOLID WITHOUT FR	REE LIQUID	NUMBER OF PHASES/LA	YERS TOP	0.00	in the second seco	1 - 100 (e.c	liquid present) a. Water)		COLOR	
POWDER			MIDI	0.000	, kao	-	e.g. Motor Oil)		varies	i
MONOLITHIC SOLID		% BY VOLUME (Approx.)	вот				)0 (e.g. Molasse	s)		
LIQUID/SOLID MIXT	URE			0.00		> 10,000	io (o.g. molacco	,		
% FREE LIQUID % SETTLED SOLID		ODOR		BOILING POINT °F				T TOTA	LORGAN	<u> </u>
% TOTAL SUSPENDE	DSOLID	✓ NONE		<= 95 (<=			<b>1</b> F(0)	CARB		0
SLUDGE		MILD		95 - 100 (		< 140 (	(<60)	~	<= 1%	
GAS/AEROSOL		STRONG		101 - 129		140-20	00 (60-93)		1-9%	
		Describe:		✓ >= 130 (>		> 200 (	(>93)		>= 10%	, 0
		SPECIFIC GRAVITY		Learner A 2						
FLASH POINT °F (°C) < 73 (<23)	рН <= 2	< 0.8 (e.g. Gasoline)		ASH			BTU/LB (MJ/kg			
73 - 100 (23-38)		0.8-1.0 (e.g. Ethanol)		✔ < 0.1	> 20	0	< 2,000		1.0)	
101 -140 (38-60)	2.1 - 6.9	1.0 (e.g. Water)		0.1 - 1.0	Unk	nown	2,000 0,	000 (4.6-1		
141 -200 (60-93)	✓ 7 (Neutral)			1.1 - 5.0				0,000 (11.6	o-23.2)	
141 -200 (00-33)	7.1 - 12.4									
	10.5	1.0-1.2 (e.g. Antifreeze)		5.1 - 20.0			> 10,000	) (>23.2)		
✔ > 200 (>93)	>= 12.5	> 1.2 (e.g. Methylene C	hloride)				Actual:			
✓ > 200 (>93) D. COMPOSITION (List t)	the complete composition		hloride)		anges for indiv		Actual:		rade name	is used,
✓ > 200 (>93) D. COMPOSITION (List t)	the complete composition	> 1.2 (e.g. Methylene C on of the waste, include any ine	hloride)		anges for indiv	vidual compor	Actual:		rade name MAX	
> 200 (>93)  D. COMPOSITION (List in please)	the complete compositions and the complete compositions and the supply and MSDS. Ple	> 1.2 (e.g. Methylene C on of the waste, include any ine	hloride)		anges for indiv	vidual compor	Actual: nents are accept	table. If a t		
> 200 (>93)  D. COMPOSITION (List to please  CHEMICAL	the complete compositions and the complete compositions and the supply and MSDS. Ple	> 1.2 (e.g. Methylene C on of the waste, include any ine	hloride)		anges for indiv	vidual compor	Actual: nents are accept MIN	table. If a t	МАХ	UOM
<ul> <li>&gt; 200 (&gt;93)</li> <li>D. COMPOSITION (List of please please)</li> <li>CHEMICAL</li> <li>1,2-DIBROMOETHA</li> </ul>	the complete compositie	> 1.2 (e.g. Methylene C on of the waste, include any ine	hloride)		anges for indiv	vidual compor	Actual: nents are accept MIN 0.4320000	table. If a t  0.4	MAX 4320000	UOM PPM
<ul> <li>&gt; 200 (&gt;93)</li> <li>D. COMPOSITION (List of please</li> <li>CHEMICAL</li> <li>1,2-DIBROMOETHA</li> <li>2-BUTANONE</li> </ul>	the complete compositie	> 1.2 (e.g. Methylene C on of the waste, include any ine	hloride)		anges for indiv	vidual compor	Actual: nents are accept MIN 0.4320000 0.5910000	0 0 0	MAX 4320000 5910000	UOM PPM PPM PPM
<ul> <li>&gt; 200 (&gt;93)</li> <li>D. COMPOSITION (List of please chemical</li> <li>1,2-DIBROMOETHA</li> <li>2-BUTANONE</li> <li>4-METHYL-2-PENTA</li> </ul>	the complete compositie	> 1.2 (e.g. Methylene C on of the waste, include any ine	hloride)		anges for indiv	vidual compor	Actual: nents are accept MIN 0.4320000 0.5910000 0.6650000	table. If a t 0.4 0.1 0.1 2.1	MAX 4320000 5910000 6650000	UOM PPM PPM PPM PPM
<ul> <li>&gt; 200 (&gt;93)</li> <li>D. COMPOSITION (List of please chemical 1,2-DIBROMOETHA 2-BUTANONE 4-METHYL-2-PENTA ACETONE ACETOPHENONE</li> </ul>	the complete compositie	> 1.2 (e.g. Methylene C on of the waste, include any ine	hloride)		anges for indiv	vidual compor	Actual: nents are accept MIN 0.4320000 0.5910000 0.6650000 2.8100000 8.2400000	0. 0. 0. 0. 8.	MAX 4320000 5910000 6650000 8100000 2400000	UOM PPM PPM PPM PPM PPM
<ul> <li>&gt; 200 (&gt;93)</li> <li>D. COMPOSITION (List I please</li> <li>CHEMICAL</li> <li>1,2-DIBROMOETHA</li> <li>2-BUTANONE</li> <li>4-METHYL-2-PENTA</li> <li>ACETONE</li> </ul>	the complete compositie e supply an MSDS Pla NE	> 1.2 (e.g. Methylene C on of the waste, include any ine pase do not use abbreviations )	(hloride)	ents and/or debris. Ra		vidual compor	Actual: nents are accept MIN 0.4320000 0.5910000 0.6650000 2.8100000	table. If a t 0.: 0.: 2.: 8.: 9.	MAX 4320000 5910000 6650000 8100000	UOM PPM PPM PPM PPM PPM PPM
<ul> <li>&gt; 200 (&gt;93)</li> <li>D. COMPOSITION (List of please</li> <li>CHEMICAL</li> <li>1,2-DIBROMOETHA</li> <li>2-BUTANONE</li> <li>4-METHYL-2-PENTA</li> <li>ACETONE</li> <li>ACETOPHENONE</li> <li>BENZENE</li> </ul>	the complete compositie e supply an MSDS Pla NE	> 1.2 (e.g. Methylene C on of the waste, include any ine case do not use abbreviations.)	(hloride)	ents and/or debris. Ra		vidual compor	Actual: nents are accept MIN 0.4320000 0.5910000 0.6650000 2.8100000 8.2400000 9.1600000	0 0 0 2 8 9 1	MAX 4320000 5910000 6650000 8100000 2400000 1600000	UOM PPM PPM PPM PPM PPM PPM
<ul> <li>&gt; 200 (&gt;93)</li> <li>D. COMPOSITION (List of please</li> <li>CHEMICAL</li> <li>1,2-DIBROMOETHA</li> <li>2-BUTANONE</li> <li>4-METHYL-2-PENTA</li> <li>ACETONE</li> <li>ACETOPHENONE</li> <li>BENZENE</li> <li>ETHYLBENZENE</li> <li>NAPHTHALENE</li> </ul>	the complete compositie e supply an MSDS Pla NE	> 1.2 (e.g. Methylene C on of the waste, include any ine pase do not use abbreviations.)	(hloride)	ents and/or debris. Ra		vidual compor	Actual: nents are accept MIN 0.4320000 0.6650000 2.8100000 8.2400000 9.1600000 1.3500000 0.1480000	table. If a t 0. 0. 0. 2. 8. 9. 1. 0.	MAX 4320000 5910000 6650000 8100000 2400000 1600000 3500000 1480000	UOM PPM PPM PPM PPM PPM PPM PPM
<ul> <li>&gt; 200 (&gt;93)</li> <li>D. COMPOSITION (List of please</li> <li>CHEMICAL</li> <li>1,2-DIBROMOETHA</li> <li>2-BUTANONE</li> <li>4-METHYL-2-PENTA</li> <li>ACETONE</li> <li>ACETOPHENONE</li> <li>BENZENE</li> <li>ETHYLBENZENE</li> </ul>	the complete compositie e supply an MSDS Pla NE	> 1.2 (e.g. Methylene C on of the waste, include any ine case do not use abbreviations.)	(hloride)	ents and/or debris. Ra		vidual compor	Actual: nents are accept MIN 0.4320000 0.5910000 0.6650000 2.8100000 8.2400000 9.1600000 1.3500000	table. If a t  0. 0. 0. 0. 8. 9. 1. 0. 13.	MAX 4320000 5910000 6650000 8100000 2400000 1600000 3500000	UOM PPM PPM PPM PPM PPM PPM PPM
<ul> <li>&gt; 200 (&gt;93)</li> <li>D. COMPOSITION (List of please</li> <li>CHEMICAL</li> <li>1,2-DIBROMOETHA</li> <li>2-BUTANONE</li> <li>4-METHYL-2-PENTA</li> <li>ACETOPHENONE</li> <li>BENZENE</li> <li>ETHYLBENZENE</li> <li>NAPHTHALENE</li> <li>TOLUENE</li> <li>WATER</li> <li>DOES THIS WASTE CON</li> </ul>	the complete compositie e supply an MSDS Ple NE NONE TAIN ANY HEAVY GAU	> 1.2 (e.g. Methylene C on of the waste, include any ine pase do not use abbreviations.)	rt compon	ents and/or debris. Ra	TAL PLATE C	vidual compor	Actual: nents are accept MIN 0.4320000 0.5910000 0.6650000 2.8100000 8.2400000 9.1600000 1.3500000 0.1480000 13.9000000 99.0000000 1/4" THICK OR	table. If a t 0.4 0.4 0.4 2.4 2.4 9. 1.4 0.4 100.4 100.4	MAX 4320000 5910000 6650000 8100000 2400000 1600000 3500000 1480000 9000000	UOM PPM PPM PPM PPM PPM PPM PPM PPM
> 200 (>93) D. COMPOSITION (List of please control plea	TAIN ANY HEAVY GAU FORCED HOSE >12" L 33"	> 1.2 (e.g. Methylene C on of the waste, include any ine pase do not use abbreviations )	rt compon	ents and/or debris. Ra	TAL PLATE C	vidual compor	Actual: nents are accept MIN 0.4320000 0.5910000 0.6650000 2.8100000 8.2400000 9.1600000 1.3500000 0.1480000 13.9000000 99.0000000 1/4" THICK OR	table. If a t 0.4 0.4 0.4 2.4 2.4 9. 1.4 0.4 100.4 100.4	MAX 4320000 5910000 6650000 8100000 2400000 1600000 3500000 9000000 0000000	UOM PPM PPM PPM PPM PPM PPM PPM PPM %
> 200 (>93) D. COMPOSITION (List of places) CHEMICAL 1,2-DIBROMOETHA 2-BUTANONE 4-METHYL-2-PENTA ACETOPHENONE BENZENE ETHYLBENZENE BENZENE ETHYLBENZENE TOLUENE WATER DOES THIS WASTE CON >12" LONG, METAL REIN PIECES OF CONCRETE > If yes, describe, inclu	the complete composition supply an MSDS Plance NE ANONE TAIN ANY HEAVY GAU FORCED HOSE >12" L >3")? Juding dimensions:	> 1.2 (e.g. Methylene C on of the waste, include any ine pase do not use abbreviations )	rt compon rt compon ER LARGI G, METAL	ents and/or debris. Ra E OBJECTS (EX., ME VALVES, PIPE FITT	TAL PLATE C	vidual compor	Actual: nents are accept MIN 0.4320000 0.5910000 0.6650000 2.8100000 8.2400000 9.1600000 1.3500000 0.1480000 13.9000000 99.0000000 1/4" THICK OR	table. If a t 0. 0. 2. 2. 8. 9. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 2. 1. 2. 2. 1. 2. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 1. 2. 1. 1. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 	MAX 4320000 5910000 6650000 8100000 2400000 1600000 3500000 9000000 0000000	UOM PPM PPM PPM PPM PPM PPM PPM %
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> 200 (>93) D. COMPOSITION (List of please of the please of t	the complete compositie supply an MSDS Ple NE NONE TAIN ANY HEAVY GAU FORCED HOSE >12" L -3")? Juding dimensions: NTAIN ANY METALS IN NTAIN OR HAS IT COI SICAL WASTE, PATHO OUS MATERIAL? his waste material is ne	> 1.2 (e.g. Methylene C on of the waste, include any ine base do not use abbreviations ).           UGE METAL DEBRIS OR OTHIL LONG, METAL WIRE >12" LON           N POWDERED OR OTHER FIN           NTACTED ANY OF THE FOLL(C	International States of the second states of the se	ents and/or debris. Ra E OBJECTS (EX., ME VALVES, PIPE FITT DED FORM? NIMAL WASTES, HU DERIVED SERUMS	TAL PLATE C TINGS, CONCI JMAN BLOOD, OR PROTEIN	Jidual compor	Actual: nents are accept MIN 0.4320000 0.5910000 0.6650000 2.8100000 8.2400000 9.1600000 1.3500000 0.1480000 1.3500000 1.39000000 1/4" THICK OR ORCING BAR ( ORCING BAR ( ODUCTS, BOD") THER	table. If a t  0. 0. 2. 8. 9. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.  - 1.  - 1.  - 2.  - 2.  - 2.  - 2.  - 1.  - 2.  - 2.  - 2.  - 2.  - 2.  - 2.  - 2.  - 2.  - 2.  - 1.  - 2.  - 2.  - 1.  - 2.  - 2.  - 1.  - 2.  - 1.   - 1.   - 2.          	MAX 4320000 5910000 6650000 8100000 2400000 1600000 3500000 9000000 0000000 ES ES	UOM PPM PPM PPM PPM PPM PPM PPM PPM % NO
> 200 (>93) D. COMPOSITION (List of please chemical please chemical 1,2-DIBROMOETHA 2-BUTANONE 4-METHYL-2-PENTA ACETOPHENONE BENZENE ETHYLBENZENE ETHYLBENZENE NAPHTHALENE TOLUENE WATER DOES THIS WASTE CON >12" LONG, METAL REINI, PIECES OF CONCRETE > If yes, describe, inclue DOES THIS WASTE CON \$12" LONG, METAL REINI, PIECES OF CONCRETE > If yes, describe, inclue DOES THIS WASTE CON \$12" LONG, METAL REINI, PIECES OF CONCRETE > If yes, describe, inclue DOES THIS WASTE CON \$12" LONG, METAL REINI, PIECES OF CONCRETE > If yes, describe, inclue DOES THIS WASTE CON \$12" LONG, METAL REINI, PIECES OF CONCRETE > If yes, describe, inclue DOES THIS WASTE CON \$12" LONG, METAL REINI, PIECEN \$14\$ LONG \$15\$ LONG \$1	the complete compositie supply an MSDS Ple NE NONE TAIN ANY HEAVY GAU FORCED HOSE >12" L -3")? Juding dimensions: NTAIN ANY METALS IN NTAIN OR HAS IT COI SICAL WASTE, PATHO OUS MATERIAL? his waste material is ne	> 1.2 (e.g. Methylene C on of the waste, include any ine base do not use abbreviations.)           UGE METAL DEBRIS OR OTHE LONG, METAL WIRE >12" LON           N POWDERED OR OTHER FIN           NTACTED ANY OF THE FOLLCO DLOGICAL WASTE, HUMAN OF           either infectious nor does it contate elect the answer below that apple	International States of the second states of the se	ents and/or debris. Ra E OBJECTS (EX., ME VALVES, PIPE FITT DED FORM? NIMAL WASTES, HU DERIVED SERUMS	TAL PLATE C TINGS, CONCI JMAN BLOOD, OR PROTEIN	Jidual compor	Actual: nents are accept MIN 0.4320000 0.5910000 0.6650000 2.8100000 8.2400000 9.1600000 1.3500000 0.1480000 1.3500000 1.39000000 1/4" THICK OR ORCING BAR ( ORCING BAR ( ODUCTS, BOD") THER	table. If a t  0.1 0.1 2.1 2.1 8.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	MAX 4320000 5910000 6650000 8100000 2400000 1600000 3500000 9000000 0000000 ES ES	UOM PPM PPM PPM PPM PPM PPM PPM PPM % NO
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<ul> <li>&gt; 200 (&gt;93)</li> <li>D. COMPOSITION (List of please</li> <li>CHEMICAL</li> <li>1,2-DIBROMOETHA</li> <li>2-BUTANONE</li> <li>4-METHYL-2-PENTA</li> <li>ACETOPHENONE</li> <li>BENZENE</li> <li>ETHYLBENZENE</li> <li>TOLUENE</li> <li>WATER</li> <li>DOES THIS WASTE CON</li> <li>PIECES OF CONCRETE &gt;</li> <li>If yes, describe, inclu</li> <li>DOES THIS WASTE CON</li> <li>FLUIDS, MICROBIOLOG</li> <li>POTENTIALLY INFECTION</li> <li>I acknowledge that the based on my knowled</li> <li>The waste was nevee</li> <li>Chemical disinfection</li> </ul>	the complete compositie e supply an MSDS_Pla NE NONE TAIN ANY HEAVY GAU FORCED HOSE >12" L >3")? uding dimensions: NTAIN ANY METALS IN NTAIN OR HAS IT COI SICAL WASTE, PATHO OUS MATERIAL? his waste material is ne idge of the material. Se ar exposed to potentially n or some other form of	> 1.2 (e.g. Methylene C on of the waste, include any ine base do not use abbreviations ).	rt compon rt compon ER LARGI G, METAL IELY DIVI DWING; A R ANIMAL ain any org lies: o the wast	ents and/or debris. Ra E OBJECTS (EX., ME VALVES, PIPE FITT DED FORM? NIMAL WASTES, HU DERIVED SERUMS ganism known to be a	TAL PLATE C FINGS, CONCI OR PROTEIN threat to huma	Jidual compor	Actual: nents are accept MIN 0.4320000 0.5910000 0.6650000 2.8100000 8.2400000 9.1600000 1.3500000 0.1480000 1.3500000 1.39000000 1/4" THICK OR ORCING BAR ( ORCING BAR ( ODUCTS, BOD") THER	table. If a t 0.1 0.1 2.1 8.1 9. 1.1 0. 13.1 100.1 100.1 100.1 100.1 100.1 3.1 9. 1.1 9. 1.1 9. 1.1 9. 1.1 9. 1.1 9. 1.1 9. 1.1 9. 1.1 9. 1.1 9. 1.1 9. 1.1 9. 1.1 9. 1.1 9. 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 -	MAX 4320000 5910000 6650000 8100000 2400000 1600000 3500000 9000000 9000000 0000000 ES ES ✓ ES ✓	UOM PPM PPM PPM PPM PPM PPM PPM % NO NO
<ul> <li>&gt; 200 (&gt;93)</li> <li>D. COMPOSITION (List of please of the please of</li></ul>	the complete composition supply an MSDS Plance NE TAIN ANY HEAVY GAU FORCED HOSE >12" L >3")? Juding dimensions: NTAIN ANY METALS IN NTAIN ANY METALS IN NTAIN OR HAS IT COI DICAL WASTE, PATHO OUS MATERIAL? his waste material is ne rdge of the material. See are exposed to potentially n or some other form of THIS PROFILE MEETS	> 1.2 (e.g. Methylene C on of the waste, include any ine pase do not use abbreviations).           UGE METAL DEBRIS OR OTHE LONG, METAL WIRE >12" LON           N POWDERED OR OTHER FIN           NTACTED ANY OF THE FOLLCO DUOGICAL WASTE, HUMAN OF elither infectious nor does it conta elect the answer below that applied to infectious material.           f sterilization has been applied to	International States of the second states of the se	ents and/or debris. Ra E OBJECTS (EX., ME VALVES, PIPE FITT DED FORM? NIMAL WASTES, HU DERIVED SERUMS ganism known to be a te. CKAGING REQUIRE	TAL PLATE C FINGS, CONCI OR PROTEIN threat to huma	Jidual compor	Actual: nents are accept MIN 0.4320000 0.5910000 0.6650000 2.8100000 8.2400000 9.1600000 1.3500000 0.1480000 1.3500000 1.39000000 1/4" THICK OR ORCING BAR ( ORCING BAR ( ODUCTS, BOD") THER	table. If a t 	MAX 4320000 5910000 8100000 2400000 1600000 3500000 9000000 0000000 ES ES ES ES ES	UOM PPM PPM PPM PPM PPM PPM PPM PPM NO NO



Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited

#### E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge V Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

#### approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers. RCRA **REGULATED METALS** NOT APPLICABLE REGULATORY TCI P TOTAL LIOM LEVEL (mg/l) mg/l D004 ARSENIC 5.0 6 100.0 D005 BARIUM 1 D006 CADMIUM 1.0 5 D007 CHROMIUM 1 5.0 D008 LEAD 5.0 D009 MERCURY 0.2 V D010 SELENIUM 1.0 v D011 SILVER 5.0 6 **VOLATILE COMPOUNDS OTHER CONSTITUENTS** MAX UOM NOT APPLICABLE D018 BENZENE 0.5 9.1600 BROMINE D019 CARBON TETRACHLORIDE 0.5 v 100.0 CHLORINE D021 CHLOROBENZENE -FLUORINE ū D022 CHLOROFORM 6.0 0.5 D028 1,2-DICHLOROETHANE IODINE v 0.7 SULFUR v D029 1,1-DICHLOROETHYLENE POTASSIUM Ŷ METHYL ETHYL KETONE D035 200.0 SODIUM Ŷ D039 TETRACHLOROETHYLENE 0.7 AMMONIA v D040 TRICHLOROETHYLENE 0.5 CYANIDE AMENABLE D043 VINYL CHLORIDE -0.2 CYANIDE REACTIVE v SEMI-VOLATILE COMPOUNDS CYANIDE TOTAL o-CRESOL D023 200.0 SULFIDE REACTIVE v D024 m-CRESOL 200.0 p-CRESOL D025 200.0 HOCs PCBs CRESOL (TOTAL) D026 200.0 NONE NONE D027 1,4-DICHLOROBENZENE 7.5 < 1000 PPM < 50 PPM D030 2,4-DINITROTOLUENE 0.13 >= 1000 PPM >=50 PPM D032 HEXACHLOROBENZENE 0.13 IF PCBS ARE PRESENT, IS THE HEXACHLOROBUTADIENE D033 0.5 WASTE REGULATED BY TSCA 40 CFR 761? D034 HEXACHLOROETHANE 3.0 D036 NITROBENZENE 2.0 YES NO D037 PENTACHLOROPHENOL 100.0 PYRIDINE D038 5.0 400.0 2.4.5-TRICHLOROPHENOL D041 D042 2,4,6-TRICHLOROPHENOL 2.0 PESTICIDES AND HERBICIDES D012 ENDRIN 0.02 LINDANE D013 0.4 D014 METHOXYCHLOR 10.0 D015 TOXAPHENE 0.5 D016 2,4-D 10.0 D017 2,4,5-TP (SILVEX) 1.0 0.03 D020 CHLORDANE D031 HEPTACHLOR (AND ITS EPOXIDE) 0.008 ADDITIONAL HAZARDS DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED? YES ✓ NO (If yes, explain) CHOOSE ALL THAT APPLY DEA REGULATED SUBSTANCES **EXPLOSIVE** FUMING **OSHA REGULATED CARCINOGENS** POLYMERIZABLE RADIOACTIVE REACTIVE MATERIAL NONE OF THE ABOVE



F. R	EGULA	TORY	STAT	JS								
¥	YES		NO	USEPA HAZARDOUS WASTE?								
				D018								
	YES	~	NO	DO ANY STATE WASTE CODES APPLY?								
				Texas Waste Code								
	YES	•	NO	DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?								
~	YES		NO	IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?								
				LDR CATEGORY: This is subject to LDR.								
	YES	~		IS THIS A UNIVERSAL WASTE?								
	YES		NO	IS THE GENERATOR OF THE WASTE CLASSIFIED AS VERY SMALL QUANTITY GENERATOR (VSQG) OR A STATE EQUIVALENT DESIGNATION?								
	YES		NO	IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?								
	YES	~		DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?								
	YES		NO	IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?								
	YES	~		DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?								
	YES		NO	DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?								
	YES	4	NO	DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?								
	YES	4	NO	IS THIS CERCLA REGULATED (SUPERFUND ) WASTE ?								
	YES	4	NO	IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?								
				Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)								
¥	YES		NO	IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?								
		YES	-	NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene								
				NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?								
		YES		NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?								
				TAB quantity for your facility?								
				or this determination is: Knowledge of the Waste Or Test Data Knowledge Testing								
DO				PPING NAME:								
-		-	and the second second	ARDOUS WASTE, LIQUID, N.O.S., (BENZENE), 9, PG III								
				REQUIREMENTS FREQUENCY ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY 🖌 OTHER <u>As needed;</u>								
				NTAINERIZED BULK LIQUID BULK SOLID								
	allowed by a			RS/SHIPMENT GALLONS/SHIPMENT: <b>1500.00 Min -3500.00</b> GAL. SHIPMENT UOM: TON YARD								
	NTAINE			Max TONS/YARDS/SHIPMENT: <u>0 Min - 0 Max</u>								
	POF	RTABLE	TOTE TA	NK BOXICARTONICASE								
		BIC YAR	D BOX	DRUM								
	OTF	IER:		DRUM SIZE:								
1. 5	SPECIA	L REG	UEST									
CB	COMMEI			ESTS:								
GE	NERATO	R'S CE	RTIFIC	ITION								
san	nples sub	mitted a	are repr	to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that any sentative of the actual waste. If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors the discrepancy.								
	AU	THOR	IZED	SIGNATURE NAME (PRINT) TITLE DATE								
-	$\leq$		0	- Scott Clerk Fostoretion Prayaw MgR 11-28.17								



Addendum

D. COMPOSITION			
CHEMICAL	MIN	 MAX	UOM
XYLENES	5.48000 00	 5.4800 000	РРМ

G. DOT/TDG INFORMATION



# UNIFORM WASTE PROFILE

866-694-7327

www.liquidenviro.com

Internal Use Only:	1000
Profile #: Account #: Approved Non-Approved С Subcategory A В С С	>
Subcategory A B C C	

PROFILE INFORMATION

T ROTTEE INFORMATION			A LAND AND					ALC: NOT A		24.200	• 101 17 1
US EPA ID#:	State	ID#: NAIC	CS#	TCE	Q ID#(TX-Only	'):	Analytic	al Attached	MSI	DS Atta	ached
GENERATOR INFORMAT	TION		the second		BILLIN	NG INFO	ORMATION		Les Les and	N'age all	at is a part of
Name: Kirtland AFB					Name:		arbors Environmental Servic	es, Inc.			
Address: 2050 Wyoming Blvd. Sl	E, Bldg. 20685				Address	s: 2720 Gi	rard NE				
City: Kirtland AFB	State: NM	Zip: 87117			City:	Albuque		and the second second	p: 87107		
Contact: Scott Clark Phone: 505-846-9017	Title: Acting Env Fax:	ronmental Restoration Chie	et			t: Brett Pe	0500	Field Services	Account Manager		
Email: scott.clark@us.af.mil	Fax:				Phone: Email:	505-238	-2523 Fax: ett@cleanharbors.com				
WASTE QUESTIONNAIR			The Part of the		Errich.	perry.bre	err@orearmanbors.com			1.20.60	
Non-hazardous Waste	LE (ONLONALL II		的社会的问题	of the state		a day to be the					
1. Is this material a hazardous waste (I	F, K, U, or P listed) as define	d by 40 CFR 261 Subpart D?		Yes No	Unknown				Yes	No	Unknown
If yes to the above, identify the listing		.,		0	O	la thia a					
2. Has this material been mixed with a l	hazardous waste as defined	by 40 CFR 261?		0 0	0	is this a	virgin or off-spec product? (If Ye	es, must include	MSDS)		
3. Does this material exhibit	Ignitabilty? (40 CFR Pa			0 0	0	1.	Unused Product or Chemical		O	۲	0
any of the following hazardous wastecharacteristics?	Corrosivity? (40 CFR P Reactivity? (40 CFR Pa			0000	0000	2.1	Waste by-product from process				0
	Toxicity? (40 CFR Part :			000	8				0	۲	0
4. Does this material contain?	Herbicides, pesticides, i Dioxins?	nsecticides?		0	Q	3.5	Spill Clean Up		O	۲	0
	Radioactive substances				00000	4.	Planned Site Remediation		····· 0	۲	0
	Domestic Wastes? Biohazardous materials	?		õ õ	Ŏ.	5.1	Representative Sample Provide	d	·····	0	0
5 Is the waste derived from an undergro	ound storage tank (UST)?			0 0	0				0	۲	0
6. If waste is derived from fuel, is the	e fuel leaded?			0 0	0						
Used Oil (as defined by CFF	R 279.1)			0 0	0	Potrolou	m Contact Water (PCW)/Leakin	~			
1. Is this material Used Oil as defined by	,			~ ~	~	retroieu	III Contact Water (FCW)/Leakin		O	۲	0
2. Has this Used Oil been mixed with ha					0	Undergro	ound Storage Tank (LUST) Wat	er	O	۲	0
3. Is the source of the waste a Condition				8 8	8		nerator a Conditionally Exempt				
<ol> <li>Does this Used Oil contain chlorinated</li> <li>Does this Used Oil contain TSCA (40</li> </ol>		(0000		0	0		Generator (CESQG)?		O	۲	0
If yes, list PCB level:	or regulated levels (	f PCB?		0	0		his waste contain oils, lub ts or petroleum products	1000 CONTRACTOR 1000	·····	۲	
6. Does this Used Oil contain less (<) th				-							
(TOX)? * If no, rebuttal per 40 CFR 2 7. Is this Used Oil soluble in water?				0 0	0						
				0 0	0						22
WASTE STREAM COMPO	DSITION (TOTAL	MUST EQUAL 100%	b)	San and the second	No. Strangent		WASTE DESCRIPT	ION		H. Mark	() 日本語
MajorComponentsConcentrat	ionRange	ALL PROPERTY.					Common Name of Waste:	Decontaminat	ion Water from We	ll Drillin	a
(Water, Oil, Solid, etc.)		Average Minumum	Maxin	num							
Decontamination Water		100	100				Detail	Well drilling			
							Process Generating Waste:	, i en anning			
							(Add additional sheet if necessary)				
					AND A DESCRIPTION OF THE OWNER OF T						
Physical State		Layers	ph			Flash F	Point		Specific Grav	ity	A STATE AND
100% Solid Without Free Liqu	uid	Single Phase	0 <2		8-12.5	0 <73	3 F 🛛 14	1-200 F	Range: To:		
100% Liquid With No Solids		Bi-Layered	0 2-6		>12.5	73-	100 F 🔿 >2	00 F	Color		STATISTICS IN COMPANY
C Liquid/Solid Mixture		Multi Layered	6-8		○ N/A	$\bigcirc$ 10 ²	1-140 F	A	Describe Clear		
<u> </u>		Odor		and the second second		Viscos	C			and the second	Contract Sector A Contract
100 % Free Liquid									Classification		
% Settled Solids		•None (	Mild	(	Strong	Low		Class			
% Total Suspended	Solids	Describe:				O Hig		Class			
Energy constant (Mark 2 and 2 million and a million of the second state of the second state of the			Per charge and search as		Contraction based on the Association	O Med	dium	O Other	r:		
TX-ONLY: PLEASE INDIC	ATE WHETHER A	ANY OF THE FOLLO	WING AR	RE PRES	SENT:	and a star				in gran	- Le la catal
C TCLP Metals Arser	nic, Barium, Cadmium, Chr	omium, Lead, Mercury, Seleni	um and Silver		O TCLP Her		(Chlordane, 2-4 Endrin, Hept				
		Cresol (total) 2-4 Dinitrotolune, robutadiene, Hexachlorethane	Nitrohonzona		Pesticides		Methoxyclor, Toxaphene, and				
Penta	achchloropherol, Pyridine,	2-4-5 Trichlorophenol, and 2-4		σ,	O TCLP Vola	atiles	(Benzene, Carbon Tetrachlori Ketone, 1-4 Dichlorobenzene				4
	orophenol)				0		Trichloroethylene, Tetrachloro	ethylene, and V	/inyl Chloride)	lyione,	
	31, Section 335-Subchapt ocarbons)	er R) or Total Petroleum Table	1, Constituent	S	O RCI		(Reactive Cyanide, Reactive	Sulfide, Corrosiv	vity, Ignitability		
		NAMES & AND A STREET	Contraction of the	23. W. 1 & 1 & 1	100 100 100 100 100 100 100 100 100 100	Sector Sector	and the second states and shad				
TRANSPORTATION INFO				Sara and Asta	0	Section.		California Mari	the state of the state of the state	North Mar	Provide State
	Bulk Liquid	Bulk Sludge	Bulk So	0	O Drum/Be		Other:				
Shipment Frequency:	) One Time	O Weekly	Monthly	$\circ$	Quarterly	) Annually	Other:				
Anticipated Volume: 2000 - 10,000 g	A CONTRACTOR OF A CONTRACTOR O		Contraction of the local diversity of the local diversity of the local diversity of the local diversity of the			Select Data data data data data data data dat					
GENERATOR CERTIFICA	TION AND GUAR	ANTEE - PLEASE R	READ AND	SIGN E	BELOW	ALL SAL		the train	the spin free		
As the generator of the material (was	te) described above, I cert	fy that I have provided all relev	vant informatio	n as require	d by this profile and	d that the inf	formation provided is, to the bes	t of my knowled	dge and belief, true, a	ccurate	and complete.
Generator agrees not to deliver or arr	ange for delivery of any m	aterial that does not conform to	o the waste cha	aracterization	n contained in this	profile. I furt	ther certify that this material is r	ot a RCRA haz	ardous waste nursua	nt to fed	oral state or
and the material is later determined b	local laws and has not been mixed with any chlorinated solvents or any other contaminants including, without limitation, PCBs, pesticides, or other hazardous wastes. If Liquid Environmental Solutions (LES) accepts the material for processing and the material is later determined by LES or any other person to be or contain hazardous waste within the meaning of any federal, state or local law, or contain PCBs in sufficient quantity to render it a TSCA-regulated material, the generator agrees to pay all costs incurred by LES to properly treat, store, dispose or otherwise handle the material and any fines and penalties resulting from LES's handling of generator's material. Generator agrees to promptly notify LES of any change										
agrees to pay all costs incurred by LE in the composition of the material or p	S to properly treat, store,	dispose or otherwise handle th	e material and	any fines ar	nd penalties resulti	ng from LES	S's handling of generator's mate	rial. Generator a	agrees to promptly pr	tify LES	of any change
profile. The undersigned is an authori	ized representative of the	ienerator		ounoitti Mas	are monile prior to (	derivering af	iy material to LES that does not	contorin to the	waste characterizatio	m conta	ined in this

Generator Authorization Signature

Print Name and Title Scott Clork, Personation Program MgR. LES Rev: 8-18-15 Date 5-17-17



# GENERATOR WASTE PROFILE SHEET

A. GENERATOR INFORMATION A. GENERATOR INFORMAT									
Naling Address:       200 WYONNO BLUD SE BLOG 20086, ENV/RONMENTAL RESTORATION       Phone: 505 846 9017         KIRTLAND AR FORCE BASE, NM 27117       Email:         Sile Pickup Address:       S202 RANDOLPH AVE SE       Email:         AlbUDEROLIT, MI S7117       Title: MAIN CONTACT       Email:         Name of Waste       WELL WATER CONTAMANTED WITH BEXZENE       Email:         Process Generation       HAZARDOUS WELL WATER FROM KAPS BFF       Source Code: G39         B. PHYSICAL CHARACTERISTICS OF WASTE AT 25C OF 7F       Physical State:       LIQUID       Color: CLEAR       Clarity: CLEAR       Phase Separation       SINGLE       Odor: NONE         Physical State:       LIQUID       Color: CLEAR       Clarity: CLEAR       Phase Separation       SINGLE       Odor: NONE         11.2 Trichhorosthare       Generation       0       -382       MGL       MGL       Silver:       Silver:         12. Trichhorosthare       0       -685       MGL       Cardmun:       Corpor:       Silver:       Silver:       Silver:       Trailum         14.12 Trichhorosthare       0       -685       MGL       Corpor:       Silver:       Silv	A. GENERATOR INFO	ORMATION					Profile Number:	ACT76908	
Intrinue Dark FORCE BASE, NM 3717       Fax:         Sie Prokung Addition:       Source Code:         Sie Prokung Addition:       Source Code::         Bie Prokung Addition:       Well WATER CONTAMINATED WITH BENZENE         Process Generation:       MAXADOUS Well WATER CONTAMINATED WITH BENZENE         Process Generation:       MAXADOUS Well WATER CONTAMINATED WITH BENZENE         Physical State:       LIQUID       Color::         Physical State:       LIQUID       Color::       Cleark       Phase Separation       SINGLE       Odor::       NONE         Physical State:       LIQUID       Color::       Cleark       Flash Point       > 200 F       BTU Value:       BTU/LIB NA         Consention!       On::       Cleark       Flash Point       > 200 F       BTU Value:       BTU/LIB NA         Consention!       On::       Cleark       Range       D.       March       Coper:       Color::       None         Consention!       On::       Separation       Since Physical State::       Since Physical State:: <td< td=""><td>Generator Name:</td><td>KIRTLAND AIR FORCE BAS</td><td>SE</td><td></td><td></td><td>Genera</td><td>ator US EPA ID: 1</td><td>NM9570024423</td><td></td></td<>	Generator Name:	KIRTLAND AIR FORCE BAS	SE			Genera	ator US EPA ID: 1	NM9570024423	
Bile Pick-up. Address:       Site Pick-up. Address:       Email:         ALBOUCHCOULE: MN BYTH?       Email:       ALBOUCHCOULE: MN BYTH?         Texhned Waster CONTAMINATED WITH BELEXER       Email:       ALBOUCHCOULE: MN BYTH?         Mane of Waster CONTAMINATED WITH BELEXER       MACS CODE 928110       Form Code W101       Source Code: G39         B PHYSICAL CHARACTERISTICS OF WASTE AT 25C OF 77F       Physical State:       LIQUID       Color: CLEAR       Clarity: CLEAR       Phase Separation       SINGLE       Odor: NONE         Number of Layers:       Physical State:       LIQUID       Color: CLEAR       Clarity: CLEAR       Phase Separation       SINGLE       Odor: NONE         State State:       LIQUID       Color: CLEAR       Clarity: CLEAR       Phase Separation       SINGLE       Odor: NONE         State State:       LIQUID       Color:       Clear MGL       (F):       Clear MGL       Total (PPM)       EP Toxicity (mgl         State State:       LIQUID       Color:       State State:       D. METALS       Total (PPM)       EP Toxicity (mgl         State State:       Distate State:       Distate State:       Color:       State:       State:       State:       State:       State:       State:       State:       State:       State:       State: <t< td=""><td>Mailing Address:</td><td></td><td></td><td>RONMENTAL RESTO</td><td>RATION</td><td></td><td></td><td>505 846 9017</td><td></td></t<>	Mailing Address:			RONMENTAL RESTO	RATION			505 846 9017	
ALBUQUERQUE, NMI 87117       Title: MAIN CONTACT         Name of Waste       WELL WATER CONTAMINATED WITH BENZENE         Process Generating       WELL WATER FROM KAPB BFF         MAICS CODE: 928110       Form Code: W101         Source Code: G39         B. PHYSICAL CHARACTERISTICS OF WASTE AT 25C OF 77F         Physical State:       LIQUID         Color: CLEAR       Clarity: CLEAR         Physical State:       LIQUID         Color: CLEAR       Clarity: CLEAR         Physical State:       LIQUID         Color: CLEAR       Range         Gravity:       (F):         C. Chemical Composition / UHC's       Range         BASED UPON: ANAL YTICAL (INCLUDED)       COBENERATOR KNOWLEDGE         1.1.2 Trichlaroethane       0         1.2.4 bimonethane       0         Physical State:       NG/L         Reactive Explanatione       0         Acetophenone       0         1.4 Stringene       0         1.4 Stringene       0         1.4 Strinchanone       0	Sito Dick up Addross:		SE, NM 87117						
Technical Contact:       SCOTT CLARK       Title: MAIN CONTACT         Name of Wasti Watter RCONTAINANTED WITH ERVENTE       MAICX CODE: 928110       Form Code: W101       Source Code: G39         MAICS CODE: 928110       Form Code: W101       Source Code: G39       Source Code: G39         B. PHYSICAL CHARACTERISTICS OF WASTE AT 25C OF 77F         Physical State:       LIQUID       Color: CLEAR       Clarity: CLEAR       Phase Separation       SINGLE       Odor: NONE         Number of Layers:       Color: None:       Number of Layers:       Odor: NONE         PH       6.6       Specific 1 - 1 SP.GR.       Flash Point > 200 F       BTU Value: BTU/LB NA         SASED UPON: ANALYTICAL (INCLUDED)       GENERATOR KNOWLEDGE       D. METALS       Total (PPM)       EP Toxicity (mg/         1.1.2 Titchhorentiane       0       -083       MG/L       Americi:       Silver:       Copper:         1.2.4 Biomonetinae (EDB)       0       -204       MG/L       Mercury:       Commun.       Silver:         1.2.4 Biomonetinae (EDB)       0       -204       MG/L       Mercury:       Silver:       Silver:         1.4.2 Titchhorentiane       0       -284       MG/L       Mercury:       Silver:       Silver:       Silver:         1.4.2 Titchhorentine	Sile Fick-up Address.		17				Lindii.		
Process Generation     NAZARDOUS WELL WATER FROM KAFB BEF       MACK CODE     2021     Form Code:W101     Source Code: G39       3. PHYSICAL CHARACTERISTICS OF WASTE AT 25C OF 77F     Physical State:     LIQUID     Color: CLEAR     Clarity: CLEAR     Phase Separation     SINGLE     Odor: NONE       Physical State:     LIQUID     Color: CLEAR     Clarity: CLEAR     Phase Separation     SINGLE     Odor: NONE       Ph: 6 - 8     Specific 1 - 1     SP.GR.     Fash Point     > 200 F     BTU Value:     BTU/LB NA       Chemical Composition / UHC's     Range     D. METALS     Total (PPM)     EP Toxicity (mg/       Chemical Composition / UHC's     Range     D. METALS     Total (PPM)     EP Toxicity (mg/       11.2 Trichloroethare (DED)     0     432     MG/L     Store:     Chomium:     Chomium:     Store:       12. Trichloroethare (DED)     0     432     MG/L     MG/L     Mercury:     Trailium       12. Trichloroethare     0     432     MG/L     Mercury:     Trailium     Store:     Store:       12. Trichloroethare (DED)     0     432     MG/L     Mercury:     Trailium     Store:     Chomium:     Nather       12. Trichloroethare     0     432     MG/L     MG/L     Nather     Nather <t< td=""><td>Fechnical Contact:</td><td>,</td><td>.,</td><td>Title: MAIN CC</td><td>NTACT</td><td></td><td></td><td></td><td></td></t<>	Fechnical Contact:	,	.,	Title: MAIN CC	NTACT				
Market Schler     Form Code: W101     Source Code: G.33       3. PHYSICAL CHARACTERISTICS OF WASTE AT 25C OF 77F     Hysical State:     LIQUID     Color:     CLEAR     Clarity: CLEAR     Phase Separation     SINGLE     Odor: NONE       Hysical State:     LIQUID     Color:     CLEAR     Clarity: CLEAR     Phase Separation     SINGLE     Odor: NONE       H: 6.6.8     Specific 1.1     Specific 1.1     SP.GR.     Fash Point     > 200 F     ETU Value:     BTU/LB NA       Chemical Composition / UHC'S     Range     D. METALS     Total (PPM)     EP Toxicity (mg/       AsSED UPON: ANALYTICAL (INCLUDED)     GENERATOR KNOWLEDGE     D. METALS     Total (PPM)     EP Toxicity (mg/       1.1.2 Trichikoroethane     0     .665     MG/L     Arsenic:     Silver:     Commun.       2.4 detoring     0     .6991     MG/L     MG/L     Mercury:     Chromium.     Noickei:       2.4 detoring     0     .6991     MG/L     MG/L     Mercury:     Chromium.     Noickei:     Silver:       2.4 detoring     0     .6991     MG/L     MG/L     Mercury:     Noickei:     Silver:	Name of Waste	WELL WATER CONTAMINA	TED WITH BENZE	NE					
Bernysical Characteristics of waste at 25C of 77F         Physical State:       LIQUID       Color:       CLEAR       Clarity:       CLEAR       Phase Separation       SINGLE       Odor:       NONE         Ph:       6 - 8       Specific 1 - 1 SP.GR.       Flash Point > 200 F       BTU Value:       BTU Value:       BTU/LIB NA         Chemical Composition / UHC's       Range       Image: Control of the	Process Generating	HAZARDOUS WELL WATE	R FROM KAFB BFF						
hysical State:       LIQUID       Color:       CLEAR       Clarity:       CLEAR       Phase Separation       SINGLE       Odor:       NONE         H:       6 - 8       Specific 1 - 1 SP.GR.       Flash Point       > 200 F       BTU Value:       BTU Value:       BTU/LIB NA         Chemical Composition / UHC's       Range       D.METALS       D.METALS       Dotal (PPM)       EP Toxicity (mg/         Chemical Composition / UHC's       Range       D.METALS       Total (PPM)       EP Toxicity (mg/         Association       0083       MG/L       Arsenic:       Sliver:       Cooper         1.1.2 Trichloroethane       0083       MG/L       Chromium:       Ziver       Sliver:         2-dubronoethane (EDB)       0432       MG/L       Chromium:       Ziver       Sliver:         2-dubronoethane       0432       MG/L       MG/L       MG/L       Total (PPM)       EP Toxicity (mg/         Acetophonoe       0432       MG/L       MG/L       Total (PPM)       EP Toxicity (mg/         Interviewe       09.8       MG/L       MG/L       Total (PPM)       EP Toxicity (mg/         Mactine       09.8       MG/L       MG/L       Total (PPM)       EP Toxicity (mg/ <tr< td=""><td>NAICS</td><td><b>CODE:</b> 928110</td><td>Fo</td><td>rm Code:W101</td><td></td><td>So</td><td>ource Code: (</td><td><b>3</b>39</td><td></td></tr<>	NAICS	<b>CODE:</b> 928110	Fo	rm Code:W101		So	ource Code: (	<b>3</b> 39	
Number of Layers:       PH: 6.8     Specific 1 - 1 SP. GR. Gravity:     Flash Point > 200 F     BTU Value: BTU/LB NA       C. Chemical Composition / UHC's     Range     D. METALS     Total (PPM)     EP Toxicity (mg/ Based UPON: ANALYTICAL(INCLUDED)       I. 1.2 Trichloroethane (EDB)     0	B. PHYSICAL CHARA	CTERISTICS OF WASTE	AT 25C OF 77F						
Number of Layers:       PH: 6.8     Specific 1 - 1 SP. GR. Gravity:     Flash Point > 200 F     BTU Value: BTU/LB NA       C. Chemical Composition / UHC's     Range     D. METALS     Total (PPM)     EP Toxicity (mg/ Based UPON: ANALYTICAL(INCLUDED)       I. 1.2 Trichloroethane (EDB)     0	Physical State:   (		-AR	Clarity: CLEAR	P	hase Senaration	SINGLE		
Gravity:       (F):         2. Chemical Composition / UHC's       Range         ASED UPON: ANALYTICAL(INCLUDED)       X       GENERATOR KNOWLEDGE         1.1.2 Trichloroethane       0       .083       MG/L         1.2-ditoromethane (EDB)       0       .432       MG/L         1.2-ditoromethane (EDB)       0       .665       MG/L         2-butanone (MEK) [H2]       0       .665       MG/L         Acetone       0       .2.81       MG/L         Renzene       0       .9.8       MG/L         Renzene       0       .9.8       MG/L         Total Nylenes       0       .665       MG/L         Total Nylenes       0       .49       MG/L         Water       98       .100       %         PYROPHORIC:       N       THERMILY UNSTABLE       N         PRODICIDITION       N       CARCTIVE SULFIDES PPM       N         PYROPHORIC:       N       TREACTIVE SULFIDES PPM       N         PHOLOGICIC       N						•	ONVOLL		
Gravity:       (F):         2. Chemical Composition / UHC's       Range         ASED UPON: ANALYTICAL(INCLUDED)       Image: Second Secon									
ASED UPON: ANALYTICAL (INCLUDED)       X       GENERATOR KNOWLEDGE       D. METALS       Total (PPM)       EP Toxicity (mg/         1.1.2 Trichloroethane       0       .083       MG/L       Arsenic:       Barium:       Copper.         1.1.2 Trichloroethane (EDB)       0       .432       MG/L       Chromium:       Lead:       Zinc:         2-butranone       0       .665       MG/L       NG/L       Earce       Chromium:       Lead:       Thillium         Acetophenone       0       .82       MG/L       MG/L       Earce       Oromium:       Lead:       Thillium         Induene       0       .82       MG/L       MG/L       EVENCISTE:       N       REACTIVE SULFIDES PPM N         Total (YPM)       EVENCIST       OxIDIZER:       REACTIVE SULFIDES PPM N       SUPPROPORISE:       N       REACTIVE SULFIDES PPM N         Total (YPM       0       .49       MG/L       N       MG/L       N       Provide and	<b>H:</b> 6 - 8		1 SP.GR.		200 F	BTU Valu	IE: BTU/LB NA	l.	
ASED UPON: ANALYTICAL (INCLUDED)       X       GENERATOR KNOWLEDGE       D. METALS       Total (PPM)       EP Toxicity (mg/         1.1.2 Trichloroethane       0       .083       MG/L       Arsenic:       Barium:       Copper.         1.1.2 Trichloroethane (EDB)       0       .432       MG/L       Chromium:       Lead:       Zinc:         2-butranone       0       .665       MG/L       NG/L       Earce       Chromium:       Lead:       Thillium         Acetophenone       0       .82       MG/L       MG/L       Earce       Oromium:       Lead:       Thillium         Induene       0       .82       MG/L       MG/L       EVENCISTE:       N       REACTIVE SULFIDES PPM N         Total (YPM)       EVENCIST       OxIDIZER:       REACTIVE SULFIDES PPM N       SUPPROPORISE:       N       REACTIVE SULFIDES PPM N         Total (YPM       0       .49       MG/L       N       MG/L       N       Provide and	Chemical Compo	sition/UHC's	Range						
1,1,2 Trichloroethane       0      083       MG/L       Barium:       Copper:       Barium:       Copper:       Nickel:         1,2-ditromoethane (EDB)       0      6591       MG/L       Chromium:       Zinc:       Nickel:         2-butanone (MEK) [Hz]       0      6591       MG/L       Lead:       Thillium         Acetone       0      824       MG/L       Lead:       Thillium         Acetone       0      8.24       MG/L       MG/L       Chromium:       Lead:       Thillium         Renzere       0      8.2       MG/L       MG/L       Chromium:       Selenium:       Notice         Totuene       0      8.2       MG/L       MG/L       Notice       <	•		•		D. METALS	Tot	al (PPM)	EP To	oxicity (mg/l)
1,1,2 Trichloroethane       0      083       MG/L         1,2-ditromoethane (EDB)       0      432       MG/L         2-butanone (MEK) (HZ)       0      591       MG/L         4-methyl-2-pentanone       0      665       MG/L         Acetore       0      281       MG/L         Acetore       0      865       MG/L         Benzene       0      9.8       MG/L         Eny Ibenzene       0      824       MG/L         Toluene       0      82       MG/L         Toluene       0      82       MG/L         Trichloroethene       0      28       MG/L         Water       98       -100.%       %         methylene Chloride       0      49       MG/L         Water       98       -100.%       %         Shipping Information:       CEXempted       NO         Of Hazardous Material       YES       Exempted       NO         roper Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9, PGIII       Benzium       Godes:         lazard Class:       9       Ot       #       MA3082       YES         YG: III	ASED UPON: ANAL I		GENERA I OR KI						
1.1.2 Trichloroethane       0      083       MG/L       Codmium:       Codmium:       Nickel:         1.2-dibromoethane (EDB)       0      691       MG/L       Nickel:       Zinc:       Comium:       Nickel:       Zinc:       Nickel:       Zinc:       Comium:       Nickel:       Zinc:       Comium:       Nickel:       Zinc:       Comium:       Nickel:       Zinc:       Comium:       Comium:       Comium:       Comium:       Nickel:       Zinc:       Comium:									Silver:
1,1.2 Trichfordethane       0      083       MG/L       Nickel:         1.2-dibromethane (DB)       0      432       MG/L       Zinc:       Zinc: <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Tabutanone (MEK) [HZ]       0      591       MG/L         4-methy l-2-pentanone       0      665       MG/L         Acetophenone       0      281       MG/L         Acetophenone       0      281       MG/L         Benzene       0      284       MG/L         Benzene       0      204       MG/L         Total Xylenes       0      665       MG/L         Total Xylenes       0      66       MG/L         Water       98       -100       %         methylene Chloride       0      49       MG/L         Vater       98       -100       %         methylene Chloride       0      49       MG/L         VOT Hazardous Material       YES       Exempted       NO         roper Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9 , PGIII       Nature Yes       Subject to NESHAP Regulations         US EPA Hazardous Waster       YES       Subject to NESHAP Regulations       US EPA Hazardous Waster         US EPA Hazardous Waster       Y       US EPA Hazardous Waster       YES	,,								
2 Jointons (Integrations)       0       1.801       Morulations (Marking Characterizations)       Intellium         4-methyl-2-pentanone       0       - 2.81       MG/L         Acetophenone       0       - 8.24       MG/L         Benzene       0       - 2.81       MG/L         Naphthalene       0       - 2.04       MG/L         Totuene       0       - 19.5       MG/L         Totidene       0       - 2.8       MG/L         Trichloroethene       0       - 2.8       MG/L         Water       98       - 100       %         methylene Chloride       0      49       MG/L         Shipping Information:       0      49       MG/L         OT Hazardous Material       YES       Exempted       N         cycle - K. NA3082       Hazardous waste, liquid, n.o.s. (Benzene), 9, PGIII       etch PA Regulations         0 #: NA3082       - 12 DM       Subject to NESHAP Regulations       uS EPA Hazardous Waster         VIS EPA Hazardous Waster       YES      018      018         Codes:       : .018	, ,	,							Zinc:
Acetone       0       2.81       MG/L         Acetophenone       0       - 8.24       MG/L         Benzene       0       - 9.8       MG/L         Ethylbenzene       0       - 8.24       MG/L         Naphthalene       0       - 8.2       MG/L         Total Xylenes       0       - 6       MG/L         Trichloroethene       0       - 2.84       MG/L         Water       98       - 100       %         methylene Chloride       0      49       MG/L         Shipping Information:       .       .49       MG/L         OT Hazardous Material       YES       Exempted       NO         roper Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9, PGIII       DEBRIS N       .400 PM VOC as generated       YES         Subject to NESHAP Regulations       US EPA Hazardous Waster       Y       US EPA Hazardous Waste       Y         US EPA Hazardous Waste       Y       US EPA Hazardous Waste       Y       US EPA Hazardous Waste       Y									Thallium:
Acetophenone       0       8.24       MG/L         Benzene       0       - 8.24       MG/L         Benzene       0       - 9.8       MG/L         Ethylbenzene       0       - 2.04       MG/L         Naphthalene       0       - 8.2       MG/L         Toluene       0       - 19.5       MG/L         Total Xylenes       0       - 6       MG/L         Trichloroethene       0       - 2.8       MG/L         Water       98       - 100 %       N         methylene Chloride       0      49       MG/L         Schipping Information:       N       Texardous Material       YES       Exempted       NO         roper Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9 , PGIII       N       Acetophenone, 9 , PGIII       HaLOGENATED ORGANIC COMPOUNDS PER 40 CFR 268, APPENDIX III         DE #:       NA3082       -       -       -       Subject to NESHAP Regulations         US EPA Hazardous Waster       Y       Y       Subject to NESHAP Regulations       Subject to NESHAP Regulations         US EPA Hazardous Waste       Y       US EPA Hazardous Waste       Y       N         US EPA Hazardous Waste       Y       N		9				•	lexav alent		
Denzene       0       9.8.1       MG/L         Etry benzene       0       - 2.04       MG/L         Naphthalene       0       - 2.04       MG/L         Toluene       0       - 19.5       MG/L         Total Xylenes       0       - 6       MG/L         Trichloroethene       0      28       MG/L         Water       98       - 100       %         methylene Chloride       0      49       MG/L         Shipping Information:       N       Trichloroetherial YES       N         VOT Hazardous Material       YES       Exempted       NO         roper Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9 , PGIII       N         HALOGENATED ORGANIC COMPOUNDS PER 40 CFR 268, APPENDIX III       DEBRIS N       <500 PPM VOC as generated			••·						
Ethylbenzene       0       - 2.04       MG/L         Naphthalene       0      82       MG/L         Total Xylenes       0       - 6       MG/L         Total Xylenes       0       - 6       MG/L         Water       98       - 100       %         methylene Chloride       0      49       MG/L         Shipping Information:      49       MG/L         VOT Hazardous Material       YES       Exempted       NO         roper Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9, PGIII       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9, PGIII         Macritizated Volume (Units):       12 DM       DM       Subject to NESHAP Regulations						Coloniani			
Naphthalene       0       -       .82       MG/L         Toluene       0       -       19.5       MG/L         Total Xylenes       0       -       6       MG/L         Trichloroethene       0       -       28       MG/L         Water       98       -       100       %         methylene Chloride       0       -       .49       MG/L         Shipping Information:       0       -       .49       MG/L         NOT Hazardous Material       YES       Exempted       NO         roper Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9, PGIII       NA3082         PG: III									
Toluene       0       - 19.5       MG/L         Total Xylenes       0       - 6       MG/L         Trichloroethene       0       - 28       MG/L         Water       98       - 100       %         methylene Chloride       0      49       MG/L         Shipping Information:       0      49       MG/L         OVT Hazardous Material       YES       Exempted       NO         roper Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9 , PGIII       MAIOGENATED ORGANIC COMPOUNDS PER 40 CFR 268, APPENDIX III         Description       0      9       YES         Subject to NESHAP Regulations       US EPA Hazardous Waste       YES         CG: III       Mticipated Volume (Units):       12 DM					E. OTHER C	OMPONENTS			
Total Xylenes       0       -       6       MG/L         Trichloroethene       0       -       .28       MG/L         Water       98       -       100       %         methylene Chloride       0       -       .49       MG/L         F. Shipping Information:       -       .49       MG/L       N         F. Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9, PGIII       N       PC         Iazard Class:       9       -       .49       NO         Pf:       NA3082       -           D#:       NA3082       -           Difficipated Volume (Units):       12 DM							PEACTIVE		N
Trichloroethene       0      28       MG/L         Water       98       - 100       %         methylene Chloride       0      49       MG/L         Shock SENSITIVE:       N       THERMALLY UNSTABLE       N         TRES:       N       THERMALLY UNSTABLE       N         PYROPHORIC:       N       TSCA REG PCB WASTE:       N         RADIOACTIVE:       N       COMPRESSED GASSES:       N         PYROPHORIC:       N       CERCLA/SUPERFUND:       N         RADIOACTIVE:       N       CERCLA/SUPERFUND:       N         POT Hazardous Material       YES       Exempted       NO       PETHIOLOGICAL:       N       PESTICIDE         Na3082       PG:       III       Subject to NESHAP Regulations       <500 PPM VOC as generated	Total Xylenes		0 - 6	MG/L		N			
Water       98       - 100       %         methy lene Chloride       0      49       MG/L         TIRES:       N       THERMALLY UNSTABLE       N         PYROPHORIC:       N       TSCA REG PCB WASTE:       N         RADIOACTIVE:       N       COMPRESSED GASSES:       N         Comparison       Comparison       N       CERCLA/SUPERFUND:       N         OT Hazardous Material       YES       Exempted       NO       NO       N         roper Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9 , PGIII       N       HALOGENATED ORGANIC COMPOUNDS PER 40 CFR 268, APPENDIX III       DEBRIS N       <500 PPM VOC as generated	Trichloroethene		028	MG/L					
methy lene Chloride       0       . 49       MG/L       PYROPHORIC:       N       TSCA REG PCB WASTE:       N         A. Shipping Information:       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .	Water								
A. Shipping Information:       RADIOACTIVE:       N       COMPRESSED GASSES:       N         MOT Hazardous Material       YES       Exempted       NO       PETHIOLOGICAL:       N       PESTICIDE       N         MOT Hazardous Material       YES       Exempted       NO       PESTICIDE       N       NAUFACTURING WASTE:       N         MOT Hazardous Material       YES       Exempted       NO       PESTICIDE       N       N         Incore Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9, PGIII       HALOGENATED ORGANIC COMPOUNDS PER 40 CFR 268, APPENDIX III       DEBRIS N       <500 PPM VOC as generated	methy lene Chloride		049	MG/L	-				
ETHIOLOGICAL:       N       PESTICIDE MANUFACTURING WASTE:       N         NOT Hazardous Material       YES       Exempted       NO         roper Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9 , PGIII       HALOGENATED ORGANIC COMPOUNDS PER 40 CFR 268, APPENDIX III       DEBRIS N       <500 PPM VOC as generated									
Shipping Information:       MANUFACTURING WASTE:       N         DOT Hazardous Material       YES       Exempted       NO         Proper Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9 , PGIII       HALOGENATED ORGANIC COMPOUNDS PER 40 CFR 268, APPENDIX III       DEBRIS N         Iazard Class:       9       Subject to NESHAP Regulations       VES         PG:       III       US EPA Hazardous Waste       Y         PG:       12 DM       US EPA Hazardous Waste       ; D018					EXEMPT RAD	): N	CERCLA/S	SUPERFUND:	Ν
WANDFACTORING WASTE:         WANDFACTOR					ETHIOLOGIC	AL: N			N
roper Shipping Name:       NA3082, Hazardous waste, liquid, n.o.s. (Benzene), 9 , PGIII       NA2082, Hazardous waste, liquid, n.o.s. (Benzene), 9 , PGIII       DEBRIS N       <500 PPM VOC as generated	. Shipping Informa	tion:					MANUFAC	TURING WASTE:	IN .
Hazard Class:       9       Subject to NESHAP Regulations         D #:       NA3082       US EPA Hazardous Waste         PG:       III       US EPA Hazardous Waste         unticipated Volume (Units):       12 DM       Codes:		-	•		HALOGENAT				
D #:     NA3082     US EPA Hazardous Waste     Y       PG:     III     US EPA Hazardous Waste     ; D018       Inticipated Volume (Units):     12 DM     Codes:     ; D018		NA3082, Hazardous waste,	liquid, n.o.s. (Benz	ene), 9 , PGIII		-		Pivi VOC as genera	ted YES
PG: III     US EPA Hazardous Waste     ; D018       Inticipated Volume (Units):     12 DM     Codes:							ons		
inticipated Volume (Units): 12 DM Codes: ; D018					US EPA Haza	ardous Waste Y			
Anticipated Volume (Units): 12 DM Codes:	PG: III				US EPA Haza	ardous Waste	D019		
Per: QUARTER	nticipated Volume (Units	s): 12 DM			Codes:	•	0010		
	Per: QUARTER								
		s): 12 DM			Codes:	,			

# G. Special Handling Instructions:

all VOC and SemiVOC listed no analytical on file ESTCP 10-17-17

H. GENERATOR'S CERTIFICATION:

I hereby certify that all information in this and all the attached documents is complete and accurate, and that all known or suspected hazards have been disclosed. I further certify that any samples submitted with this profile are representative of the waste to be shipped and are taken in accordance with SW 846 or other approved procedures. I agree to notify Advanced Chemical Treatment in writing when the process generating this waste stream changes or when I have reason to believe the data contained herein is not complete and accurate.

Signature_

Title: Restoration Program Mgr_



# GENERATOR WASTE PROFILE SHEET

A. GENERATOR INFO Generator Name: Mailing Address: Site Pick-up Address: Technical Contact: Name of Waste Process Generating	RMATION KIRTLAND AIR FORCE BASE 2050 WYOMING BLVD SE BLDG 20685, KIRTLAND AIR FORCE BASE, NM 87117 5202 RANDOLPH AVE SE ALBUQUERQUE, NM 87117 SCOTT CLARK GROUND WATER MIXED WITH LNAPL HAZARDOUS WELL WATER FROM KAF	7 Title: MAIN CONTAC	Generator	of ile Number: ACT121443 r US EPA ID: NM9570024423 Phone: 505 846 9017 Fax: Email:
	<b>CODE</b> : 928110	Form Code:W101	Sou	rce Code: G39
	CTERISTICS OF WASTE AT 25C OF QUID Color: CLEAR	77F Clarity: CLEAR	Phase Separation Number of Layers:	SINGLE Odor: SOLVENT
<b>PH:</b> 6 - 8	Specific 1 - 1 SP.GR. Gravity:	Flash Point < 140 (F):	F BTU Value :	2000-5000 BTU/LB
C. Chemical Compo BASED UPON: ANALY BENZENE ETHYLBENZENE TOLUENE WATER NAPHTHALENE XYLENES	TICAL(INCLUDED) X GENERAT	Je         D           OR KNOWLEDGE	METALS Total Arsenic: Barium: Cadmium: Cadmium: Lead: Mercury: Chromium, Hex Selenium:	(PPM) EP Toxicity (mg/l) Silv er: Copper: Nickel: Zinc: Thallium:
F. Shipping Informat	ion:	O E: TI P R E:	OTHER COM PONENTS XIDIZER: KPLOSIVE: N HOCK SENSITIVE: N RES: N YROPHORIC: N ADIOACTIVE: N KEMPT RAD: N IFHIOLOGICAL: N	REACTIVE SULFIDES PPM N REACTIVE CYANIDES PPM N WATER/AIR REACTIVE N THERMALLY UNSTABLE N TSCA REG PCB WASTE: N COMPRESSED GASSES: N CERCLA/SUPERFUND: N PESTICIDE N MANUFACTURING WASTE: N
DOT Hazardous Material Proper Shipping Name: Hazard Class: 3 ID #: UN1993 PG: II Anticipated Volume (Units Per: QUARTER	YES Exempted NC UN1993, Waste Flammable liquids, n.o. Benzene)	s. , 3 , PGII (Toluene, U U	DEBRIS N Subject to NESHAP Regulations S EPA Hazardous Waste Y S EPA Hazardous Waste	NDS PER 40 CFR 268, APPENDIX III <500 PPM VOC as generated NO

G. Special Handling Instructions:

H. GENERATOR'S CERTIFICATION:

I hereby certify that all information in this and all the attached documents is complete and accurate, and that all known or suspected hazards have been disclosed. I further certify that any samples submitted with this profile are representative of the waste to be shipped and are taken in accordance with SW 846 or other approved procedures. I agree to notify Advanced Chemical Treatment in writing when the process generating this waste stream changes or when I have reason to believe the data contained herein is not complete and accurate.

	Restoration Program Mgr
Title	

17 Sept 2020

Scott Clark Print Name:

Signature_

J5-9

Date_



# GENERATOR WASTE PROFILE SHEET

Mailing Address:       205         KIR       KIR         Site Pick-up Address:       520         ALE       ALE         Technical Contact:       SC         Name of Waste       ABS         Process Generating       RE	ATION RTLAND AIR FORCE BASE WYOMING BLVD SE BLDG 20685, EI RTLAND AIR FORCE BASE, NM 87117 RANDOLPH AVE SE BUQUERQUE, NM 87117 OTT CLARK SORBENT SOCKS CONTAMINATED WI MOVAL OF LNAPL FROM WELLS AT KA	Title: MAIN CONTACT TH LNAPL	Ger	Profile Number: nerator US EPA ID: Phone: Fax: Email: Source Code:	NM9570024423 505 385-3679
B. PHYSICAL CHARACTI Physical State: SOLID	ERISTICS OF WASTE AT 25C OF 7	77F Clarity: CLOUDY	Phase Separatio Number of Layers		Odor: MILD
<b>PH:</b> = 7	Specific > 1.2 SP.GR. Gravity:	Flash Point 101 - 140 (F):	F BTU V	<b>alue:</b> < 2000 B	TU/LB
C. Chemical Compositi BASED UPON: ANALYTIC		D. M	ETALS <5 MG/L Arsenic: <100 MG/L Barium:	Total (PPM)	EP Toxicity (mg/l) <5 MG/L Silver: < MG/L Copper:
ABSORBENT SOCKS / PF BENZENE ETHYLBENZENE LNAPL (JET FUEL) TOLUENE XYLENES	PE / SAMPLING TOOL\$ 90 - 95 = 75 = 54 10 - 5 = 11 = 20	50 MG/KC 400 MG/KC % 1000 MG/KC	<1 MG/L Cadmium <5 MG/L Chromiun <5 MG/L Lead: <.2 MG/L Mercury: < MG/L Chromiun <1 MG/L Selenium:	n: n, Hexavalent	< MG/L Copper. < MG/L Nickel: < MG/L Zinc: < MG/L Thallium:
F. Shipping Information		OXID EXPL SHOO TIRES PYRO RADI EXEM	DSIVE: N K SENSITIVE: N	REACTI WATER/ THERMA TSCA RE COMPRE CERCLA PESTICI	N
DOT Hazardous Material Y Proper Shipping Name: U	ES Exempted NO N1993, Waste Flammable liquids, n.o.s. PGII	(Toluene, Benzene), 3	GENATED ORGANIC COM DEBRIS YES Subject to NESHAP Regu PA Hazardous Waste Y PA Hazardous Waste	MPOUNDS PER 40 <500	CTURING WASTE:

G. Special Handling Instructions:

H. GENERATOR'S CERTIFICATION:

I hereby certify that all information in this and all the attached documents is complete and accurate, and that all known or suspected hazards have been disclosed. I further certify that any samples submitted with this profile are representative of the waste to be shipped and are taken in accordance with SW 846 or other approved procedures. I agree to notify Advanced Chemical Treatment in writing when the process generating this waste stream changes or when I have reason to believe the data contained herein is not complete and accurate.

Signature	Restoration Program Mgt	11-19-20 <i>D</i> ate
Scott Clark Print Name:	J5-10	