

October 1, 2020

Mr. Timothy Palazzolo
City of Detroit
Detroit Demolition Department
1301 Third Street
Detroit, Michigan 48226

Subject: **Topsoil Composite Soil Sampling Report**
13047 Maiden
Detroit, Michigan
AKT Peerless Project No. 8997f5-5-10.4

Mr. Palazzolo:

The City of Detroit, Detroit Demolition Department retained AKT Peerless to conduct soil sampling at a residential demolition site located at 13047 Maiden in Detroit, Wayne County, Michigan.

This scope of work was conducted in accordance with AKT Peerless' Work Order Request dated July 29, 2020 (approved July 29, 2020).

AKT Peerless understands that a residential structure was demolished at this location and the former basement excavation was filled with engineered fill (crushed residential hardfill consisting of broken concrete foundations and slabs, hard paved surfaces, brick and block, along with soil overburden) from the basement floor to approximately 12-inches below grade. An imported topsoil material was placed in the top 12-inches to grade.

Field Investigation

On August 31, 2020, Mr. Sean Brick and Mr. Antonio Morsette with AKT Peerless collected (1) composite sample, which consisted of three (3) discrete soil samples from the topsoil (top 12") combined into one (1) composite sample identified as "13047 Maiden-TS-Composite" in the former area of the residential structure.

AKT Peerless used a shovel to collect the samples.

During sample collection, AKT Peerless adhered to proper decontamination procedures. Sampling equipment was decontaminated using the following methods to minimize potential cross-contamination of soil samples:

- Washing and scrubbing the equipment with non-phosphate detergent
- Rinsing the equipment
- Air-drying the equipment

AKT Peerless collected samples according to USEPA Publication SW-846, Testing Methods for Evaluating Solid Waste. Soil samples were collected in laboratory-supplied containers, stored on ice at approximately 4 degrees Celsius, and submitted under chain-of-custody documentation. Soil samples collected for volatile analyses (VOCs) were field preserved with methanol in accordance with U.S. EPA

Method 5035. Soil samples collected for additional analyses were stored in unpreserved, 8-ounce wide-mouth jars.

Photographs taken during sampling activities are included in Attachment I. A site map depicting the sample locations is included in Attachment II.

Laboratory Analysis and Methods

The soil samples were delivered to ALS Group, USA, an independent National Voluntary Laboratory Accreditation Program (NVLAP) laboratory in Holland, Michigan, under chain-of-custody documentation for analysis of:

- Volatile Organic Compounds (VOCs) in accordance with USEPA Method 8260C;
- Semi-Volatile Organic Compounds (SVOCs) in accordance with USEPA Method 8270D;
- Polychlorinated biphenyls (PCBs) in accordance with USEPA Method 8082;
- Michigan 10 Metals (arsenic, barium, cadmium, total chromium, copper, lead, mercury, selenium, silver, and zinc) in accordance with USEPA Method 6020B or 7471B;
- Chloride in accordance with USEPA Method 325.3;
- Herbicides in accordance with USEPA Method 8151; and
- Pesticides in accordance with USEPA Method 8081A.

Analytical Results

AKT Peerless compared the laboratory analytical results to Michigan Department of Environment, Great Lakes and Energy (EGLE) Part 201 Residential Cleanup Criterion (RCC) provided in Michigan Administrative Rules 299.1 through 299.50 and the requirements outlined in the Detroit Land Bank Authority (DLBA) Scope of Services, revised September 13, 2018 (which were the applicable Scope of Work standards at the time backfill was placed at the subject property).

The results of the investigation indicate the following:

- VOCs were not detected in the topsoil composite sample above laboratory method detection limits (MDLs).
- SVOCs were not detected in the topsoil composite sample above laboratory MDLs.
- PCBs were not detected in the topsoil composite sample above laboratory MDLs
- Arsenic, barium, cadmium, chromium (total), copper, lead, and zinc were detected in the topsoil composite sample above laboratory MDLs but below EGLE Part 201 RCC. Selenium and silver were not detected in the topsoil composite sample above laboratory MDLs.
- Mercury was detected in the topsoil composite samples exceeding EGLE Part 201 Groundwater to Surface Water Interface Protection (GSIP) criteria.
- Chloride was not detected in the topsoil composite sample above laboratory MDLs.
- Herbicides were not detected in the topsoil composite sample above laboratory MDLs.
- Select pesticides were detected in the topsoil composite sample above laboratory MDLs but below EGLE Part 201 RCC. Remaining pesticides were not detected in the topsoil composite sample above laboratory MDLs.

A table summarizing the soil sampling results is included in Attachment III. The laboratory analytical results and chain of custody documentation are also provided in Attachment III.

Conclusions and Recommendations

AKT Peerless collected one (1) composite sample, which consisted of three (3) discrete soil samples from the topsoil (top 12") combined into one (1) composite sample in the former area of the residential structure located at 13047 Maiden in Detroit, Wayne County, Michigan. The soil samples were submitted for laboratory analysis of VOCs, SVOCs, PCBs, MI Metals, chloride, herbicides, and pesticides.

Laboratory analytical results from the topsoil composite sample depth did not identify the presence of target compounds above laboratory MDLs and/or EGLE Part 201 RCC, except for mercury. Mercury was identified at a concentration exceeding EGLE Part 201 GSIP criteria.

According to the DLBA Scope of Services, backfill that is contaminated above an EGLE Part 201 RCC or with detectable concentrations of VOCs is not suitable for the Detroit backfill program. Based on the sampling results from the topsoil composite sample, the topsoil material does not meet the DLBA Scope of Services requirements.

Limitations

The information and opinions obtained in this report are for the exclusive use of the City of Detroit. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without your written consent or as required by law or by a Court order. The information and opinions contained in the report are given in light of that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by AKT Peerless (which is expressly required prior to any third-party release), expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and the City of Detroit.

Subject to the above and the terms and conditions, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession but disclaims any responsibility for consequential damages. Although AKT Peerless believes that results contained herein are reliable, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive or that the information provided by the City of Detroit or third parties is complete or accurate.

Signatures of Environmental Professionals

The following individuals contributed to the completion of this report.

DRAFT

Karlee Harding
Environmental Consultant
AKT Peerless
Detroit, Michigan Office
Phone: 248.615.1333

DRAFT

Megan Napier
Senior Engineer
AKT Peerless
Farmington, Michigan Office
Phone: 248.615.1333

DRAFT



Attachment I

Site Photographs



View of the property looking north.



View of the property looking east.



View of the property looking south.



View of the property looking west.



View of sample locations.



View of typical top fill material.



Attachment II

Site Map



Notes:

□ – Approximate location of excavation area

X – Approximate location of AKT Peerless discrete sample locations

Map not to scale.

Map/aerial courtesy of Detroit Parcel Viewer at <https://cityofdetroit.github.io/parcel-viewer/>



Sample Location Map

13047 Maiden
Detroit, Michigan

Project No: 8997F5-5-10.4

Attachment III

Soil Results Table and Laboratory Analytical Results

Table 1: Summary of Soil Analytical Results

13047 Maiden, Detroit, Michigan

AKT Peerless Project No. 8997F5-5-10.4

| Parameters* | Chemical Abstract Service Number | Statewide Default Background Levels | Residential Drinking Water Protection Criteria | Groundwater Surface Water Interface Protection Criteria | Residential Soil Volatilization to Indoor Air Inhalation Criteria | Residential Infinite Source Volatile Soil Inhalation Criteria | Residential Particulate Soil Inhalation Criteria | Residential Direct Contact Criteria | Soil Saturation Concentration Screening Levels | Sample Name | 13047 Maiden-TS-Composite |
|---|----------------------------------|-------------------------------------|--|---|---|---|--|-------------------------------------|--|-----------------|---------------------------|
| | | | | | | | | | | Collection Date | 8/31/2020 |
| <i>*(Refer to detailed laboratory report for method reference data)</i> | | | | | | | | | | | |
| Metals (µg/kg) | | | | | | | | | | | |
| Arsenic | 7440-38-2 | 5,800 | 4,600 | 4,600 | NLV | NLV | 7.2E+5 | 7,600 | NA | | 5,600 |
| Barium (B) | 7440-39-3 | 75,000 | 1.3E+6 | (G) | NLV | NLV | 3.3E+8 | 3.7E+7 | NA | | 49,000 |
| Cadmium (B) | 7440-43-9 | 1,200 | 6,000 | (G,X) | NLV | NLV | 1.7E+6 | 5.5E+5 | NA | | 210 |
| Chromium, Total | 7440-47-3 | 18,000 (total) | 30,000 | 3,300 | NLV | NLV | 2.6E+5 | 2.5E+6 | NA | | 11,000 |
| Copper (B) | 7440-50-8 | 32,000 | 5.8E+6 | (G) | NLV | NLV | 1.3E+8 | 2.0E+7 | NA | | 13,000 |
| Lead (B) | 7439-92-1 | 21,000 | 7.0E+5 | (G,X) | NLV | NLV | 1.0E+8 | 4.0E+5 | NA | | 34,000 |
| Mercury, Total | 7439-97-6 | 130 | 1,700 | 50 (M); 1.2 | 48,000 | 52,000 | 2.0E+7 | 1.6E+5 | NA | | 260 |
| Selenium (B) | 7782-49-2 | 410 | 4,000 | 400 | NLV | NLV | 1.3E+8 | 2.6E+6 | NA | | <380 |
| Silver (B) | 7440-22-4 | 1,000 | 4,500 | 100 (M); 27 | NLV | NLV | 6.7E+6 | 2.5E+6 | NA | | <380 |
| Zinc (B) | 7440-66-6 | 47,000 | 2.4E+6 | (G) | NLV | NLV | ID | 1.7E+8 | NA | | 50,000 |
| Chloride (µg/kg) | | | | | | | | | | | |
| Chloride | 16887-00-6 | NA | 5.0E+6 | (X) | NLV | NLV | ID | 5.0E+5 (F) | NA | | <200,000 |
| Polychlorinated biphenyls (PCBs, µg/kg) | | | | | | | | | | | |
| PCBs (J,T) | 1336-36-3 | NA | NLL | NLL | 3.0E+6 | 2.4E+5 | 5.2E+6 | (T) | NA | | <330 |
| Herbicides (µg/kg) | | | | | | | | | | | |
| Silvex (2,4,5-TP) | 93-72-1 | NA | 3,600 | 2,200 | NLV | NLV | ID | 1.7E+6 | NA | | <300 |
| 2,4-Dichlorophenoxyacetic acid | 94-75-7 | NA | 1,400 | 4,400 | NLV | NLV | 6.7E+9 | 2.5E+6 | NA | | <200 |
| Pesticides (µg/kg) | | | | | | | | | | | |
| 4-4'-DDE | 72-55-9 | NA | NLL | NLL | NLV | NLV | 3.2E+7 | 45,000 | NA | | 61 |
| 4-4'-DDT | 50-29-3 | NA | NLL | NLL | NLV | NLV | 3.2E+7 | 57,000 | NA | | 23 |
| Remaining Pesticides | Varies | - | - | - | - | - | - | - | - | | BDL |
| Semivolatile Organic Compounds (SVOCs, µg/kg) | | | | | | | | | | | |
| All SVOCs | Varies | - | - | - | - | - | - | - | - | | BDL |
| Volatile Organic Compounds (VOCs, µg/kg) | | | | | | | | | | | |
| All VOCs | Varies | - | - | - | - | - | - | - | - | | BDL |

R 299.49 FOOTNOTES FOR GENERIC CLEANUP CRITERIA TABLES (as last revised on December 30, 2013)

Cleanup Criteria Requirements for Response Activity (formerly the Part 201 Generic Cleanup Criteria and Screening Levels)

- (A) Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- (B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.
- (C) The criterion developed under R 299.20 to R 299.26 exceeds the chemical-specific soil saturation screening level (C_{sat}). The person proposing or implementing response activity shall document whether additional response activity is required to control free-phase liquids or NAPL to protect against risks associated with free-phase liquids by using methods appropriate for the free-phase liquids present. Development of a site-specific C_{sat} or methods presented in R 299.22, R 299.24(5), and R 299.26(8) may be conducted for the relevant exposure pathways.
- (D) Calculated criterion exceeds 10%, hence it is reduced to 100 percent or $1.0E+9$ parts per billion (ppb).
- (E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). A notice of aesthetic impact may be employed as an institutional control mechanism if groundwater concentrations exceed the aesthetic drinking water criterion, but do not exceed the applicable health-based drinking water value [as provided in the table in Footnote (E) in R 299.49].
- (F) Criterion is based on adverse impacts to plant life and phytotoxicity.
- (G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO₃/L, use 400 mg CaCO₃/L for the FCV calculation. The FCV formula provides values in units of ug/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote. [See table in Footnote (G) in R 299.49].
- (H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.
- (I) Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.
- (K) Hazardous substance may be flammable or explosive, or both.
- (L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(9) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules. The generic residential drinking water criterion of 4 ug/L is linked to the generic residential soil direct contact criterion of 400 mg/kg. A higher concentration in the drinking water, up to the state action level of 15 ug/L, may be allowed as a site-specific remedy and still allow for drinking water use, under Section 20120a(2) of the NREPA if soil concentrations are appropriately lower than 400 mg/kg. If a site-specific criterion is approved based on this subdivision, a notice shall be filed on the deed for all property where the groundwater concentrations will exceed 4 ug/L to provide notice of the potential for unacceptable risk if soil or groundwater concentrations increase. Acceptable concentrations of site-specific soil and drinking water concentrations are presented in the [table in Footnote (L) in R 299.49].
- (M) Calculated criterion is below the analytical target detection limit; therefore, the criterion defaults to the target detection limit.
- (N) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of $2.0E+5$ ug/kg.
- (O) The concentration of all polychlorinated and polybrominated dibenzodioxin and dibenzofuran isomers present at a facility, expressed as an equivalent concentration of 2,3,7,8-tetrachlorodibenzo-p-dioxin based upon their relative potency, shall be added together and compared to the criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin. The generic cleanup criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin are not calculated according to the algorithms presented in R 299.14 to R 299.26. The generic cleanup criteria are being held at the values that the DEQ has used since August 1998, in recognition of the fact that national efforts to reassess risks posed by dioxin are not yet complete. Until these studies are complete, it is premature to select a revised slope factor and/or reference dose for calculation of generic cleanup criteria.
- (P) Amenable cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with all groundwater criteria. Total cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with soil criteria. Nonresidential direct contact criteria may not be protective of the potential for release of hydrogen cyanide gas. Additional land or resource use restrictions may be necessary to protect for the acute inhalation concerns associated with hydrogen cyanide gas.
- (Q) Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo(a)pyrene.
- (R) Hazardous substance may exhibit the characteristic of reactivity as defined in 40 C.F.R. §261.23 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (S) Criterion defaults to the hazardous substance-specific water solubility limit.
- (T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and subpart G of 40 C.F.R. §761 (July 1, 2001) are adopted by reference in these rules. Alternatives to compliance with the TSCA standards listed below are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable. [See table in Footnote (T) in R 299.49].
- (U) Hazardous substance may exhibit the characteristic of corrosivity as defined in 40 C.F.R. §261.22 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (V) Criterion is the aesthetic drinking water value as required by Section 20120a(5) of the NREPA. Concentrations up to 200 ug/L may be acceptable, and still allow for drinking water use, as part of a site-specific cleanup under Section 20120a(2) and 20120b of the NREPA.
- (W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L. Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg.
- (X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the [table in Footnote (X) in R 299.49], except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in [the table in Footnote (G) in R 299.49]. Soil protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.
- (Y) Source size modifiers shown in the [table in Footnote (Y) in R 299.49] shall be used to determine soil inhalation criteria for ambient air when the source size is not one-half acre. The modifier shall be multiplied by the generic soil inhalation criteria shown in the table of generic cleanup criteria to determine the applicable criterion. See Footnote (C) in R 299.49.
- (Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.
- (AA) Use 10,000 ug/L where groundwater enters a structure through the use of a water well, sump or other device. Use 28,000 ug/L for all other uses.
- (BB) The state drinking water standard for asbestos (fibers greater than 10 micrometers in length) is in units of a million fibers per liter of water (MF/L). Soil concentrations of asbestos are determined by polarized light microscopy.
- (CC) **Groundwater:** The generic GSI criteria are based on the toxicity of unionized ammonia (NH₃); the criteria are 29 ug/L and 53 ug/L for cold water and warm water surface water, respectively. As a result, the GSI criterion shall be compared to the percent of the total ammonia concentration in the groundwater that will become NH₃ in the surface water. This percent NH₃ is a function of the pH and temperature of the receiving surface water and can be estimated using the [table in Footnote (CC) in R 299.49], taken from Emerson, et al., Journal of the Fisheries Research Board of Canada, Volume 32(12):2382, 1975. The generic approach for estimating NH₃ assumes a default pH of 8 and default temperatures of 68 °F and 85 °F for cold water and warm water surface water, respectively. The resulting NH₃ is 3.8 percent and 7.2 percent for cold water and warm water, respectively. This default percentage shall be multiplied by the total ammonia-nitrogen (NH₃-N) concentration in the groundwater and the resulting NH₃ concentration compared to the applicable GSI criterion. As an alternative, the maximum pH and temperature data from the specific receiving surface water can be used to estimate, from the [table in Footnote (CC) in R 299.49], a lower percent unionized ammonia concentration for comparison to the generic GSI. **Soil:** The generic soil GSI protection criteria for unionized ammonia are 580 ug/kg and 1,100 ug/kg for cold water and warm water surface water, respectively.
- (DD) Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.
- (EE) The [values listed in the table in Footnote (EE) in 299.49] are applicable generic GSI criteria as required by Section 20120e of the NREPA.
- (FF) The chloride GSI criterion shall be 125 mg/L when the discharge is to surface waters of the state designated as public water supply sources or 50 mg/L when the discharge is to the Great Lakes or connecting waters. Chloride GSI criteria shall not apply for surface waters of the state that are not designated as a public water supply source; however, the total dissolved solids criterion is applicable.
- (GG) Risk-based criteria are not available for methane due to insufficient toxicity data. An acceptable soil gas concentration (presented for both residential and nonresidential land uses) was derived utilizing 25 percent of the lower explosive level for methane. This equates to 1.25 percent or $8.4E+6$ ug/m³.
- (HH) The residential criterion for sodium is 230,000 ug/L in accordance with the Sodium Advisory Council recommendation and revised Groundwater Discharge Standards.
- ID Insufficient data to develop criterion.
- NA A criterion or value is not available or, in the case of background and CAS numbers, not applicable.
- NLL Hazardous substance is not likely to leach under most soil conditions.
- NLV Hazardous substance is not likely to volatilize under most conditions.
- ug/kg Micrograms per kilogram
- ug/L Micrograms per liter
- BDL Below Laboratory Method Detection Limits
- BOLD** Exceeds criteria.
- BF Backfill
- TS Topsoil



10-Sep-2020

Megan Napier
AKT Peerless
22725 Orchard Lake Road
Farmington, MI 48336

Re: **8997f5-5-10.4**

Work Order: **20090017**

Dear Megan,

ALS Environmental received 1 sample on 01-Sep-2020 08:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 40.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Bill Carey".

Electronically approved by: Bill Carey

Bill Carey
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: AKT Peerless
Project: 8997f5-5-10.4
Work Order: 20090017

Work Order Sample Summary

| Lab Samp ID | Client Sample ID | Matrix | Tag Number | Collection Date | Date Received | Hold |
|--------------------|---------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 20090017-01 | 13047 Maiden-TS-Composite | Soil | | 8/31/2020 09:24 | 9/1/2020 08:30 | <input type="checkbox"/> |

Client: AKT Peerless
Project: 8997f5-5-10.4
WorkOrder: 20090017

**QUALIFIERS,
ACRONYMS, UNITS**

| <u>Qualifier</u> | <u>Description</u> |
|-------------------------|---|
| * | Value exceeds Regulatory Limit |
| ** | Estimated Value |
| a | Analyte is non-accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| Hr | BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated. |
| J | Analyte is present at an estimated concentration between the MDL and Report Limit |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |
| X | Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level. |

| <u>Acronym</u> | <u>Description</u> |
|-----------------------|-------------------------------------|
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection (see MDL) |
| LOQ | Limit of Quantitation (see PQL) |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| TDL | Target Detection Limit |
| TNTC | Too Numerous To Count |
| A | APHA Standard Methods |
| D | ASTM |
| E | EPA |
| SW | SW-846 Update III |

| <u>Units Reported</u> | <u>Description</u> |
|------------------------------|------------------------------------|
| % of sample | Percent of Sample |
| µg/Kg-dry | Micrograms per Kilogram Dry Weight |
| mg/Kg-dry | Milligrams per Kilogram Dry Weight |

Client: AKT Peerless
Project: 8997f5-5-10.4
Work Order: 20090017

Case Narrative

Samples for the above noted Work Order were received on 9/1/2020. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

Batch 163493, Method VOC_8260_S, Sample LCS-163493: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: methyl iodide

Extractable Organics:

Batch 163752, Method SVO_8270_S, Sample 20090017-01B: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch 163752, Method SVO_8270_S, Sample 20090017-01B MS: The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: 2,4-Dinitrophenol, Benzaldehyde, Dibenzo(a,h)anthracene

Batch 163752, Method SVO_8270_S, Sample 20090017-01B MSD: The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Fluoranthene

Batch 163752, Method SVO_8270_S, Sample 20090017-01B MSD: The RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for this analyte: 2,4-Dinitrophenol

Metals:

No other deviations or anomalies were noted.

Client: AKT Peerless
Project: 8997f5-5-10.4
Work Order: 20090017

Case Narrative

Wet Chemistry:
No other deviations or anomalies were noted.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4
Lab ID: 20090017-01

Client Sample ID: 13047 Maiden-TS-Composite
Collection Date: 8/31/2020 9:24:00 AM

Matrix: SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|----------------------------|-----------|--------------|--------------------------|------|------------------|-----------------|-----------------|
| HERBICIDES | | | | | | | |
| 2,4,5-TP (Silvex) | ND | 300 | 300 | | µg/Kg-dry | 1 | 9/4/2020 |
| 2,4-D | ND | 200 | 200 | | µg/Kg-dry | 1 | 9/4/2020 |
| Surr: DCAA | 42.0 | 10-150 | | | %REC | 1 | 9/4/2020 |
| PCBS | | | | | | | |
| Aroclor 1016 | ND | 330 | 330 | | µg/Kg-dry | 1 | 9/8/2020 |
| Aroclor 1221 | ND | 330 | 330 | | µg/Kg-dry | 1 | 9/8/2020 |
| Aroclor 1232 | ND | 330 | 330 | | µg/Kg-dry | 1 | 9/8/2020 |
| Aroclor 1242 | ND | 330 | 330 | | µg/Kg-dry | 1 | 9/8/2020 |
| Aroclor 1248 | ND | 330 | 330 | | µg/Kg-dry | 1 | 9/8/2020 |
| Aroclor 1254 | ND | 330 | 330 | | µg/Kg-dry | 1 | 9/8/2020 |
| Aroclor 1260 | ND | 330 | 330 | | µg/Kg-dry | 1 | 9/8/2020 |
| Aroclor 1262 | ND | 330 | 330 | | µg/Kg-dry | 1 | 9/8/2020 |
| Aroclor 1268 | ND | 330 | 330 | | µg/Kg-dry | 1 | 9/8/2020 |
| Surr: Decachlorobiphenyl | 84.6 | 40-140 | | | %REC | 1 | 9/8/2020 |
| Surr: Tetrachloro-m-xylene | 98.6 | 45-124 | | | %REC | 1 | 9/8/2020 |
| PESTICIDES | | | | | | | |
| 4,4'-DDD | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| 4,4'-DDE | 61 | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| 4,4'-DDT | 23 | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| Aldrin | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| alpha-BHC | ND | 11 | 10 | | µg/Kg-dry | 1 | 9/8/2020 |
| alpha-Chlordane | ND | 30 | 30 | | µg/Kg-dry | 1 | 9/8/2020 |
| beta-BHC | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| Chlordane, Technical | ND | 30 | 30 | | µg/Kg-dry | 1 | 9/8/2020 |
| delta-BHC | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| Dieldrin | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| Endosulfan I | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| Endosulfan II | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| Endosulfan sulfate | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| Endrin | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| Endrin aldehyde | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| Endrin ketone | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| gamma-BHC (Lindane) | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| gamma-Chlordane | ND | 30 | 30 | | µg/Kg-dry | 1 | 9/8/2020 |
| Heptachlor | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| Heptachlor epoxide | ND | 20 | 20 | | µg/Kg-dry | 1 | 9/8/2020 |
| Methoxychlor | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/8/2020 |
| Toxaphene | ND | 170 | 170 | | µg/Kg-dry | 1 | 9/8/2020 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4
Lab ID: 20090017-01

Client Sample ID: 13047 Maiden-TS-Composite
Collection Date: 8/31/2020 9:24:00 AM

Matrix: SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|--|--------|--------------|--------------------------|------|----------------------------|---------------------|---------------|
| Surr: Decachlorobiphenyl | 73.1 | 50-150 | | | %REC | 1 | 9/8/2020 |
| Surr: Tetrachloro-m-xylene | 86.2 | 50-150 | | | %REC | 1 | 9/8/2020 |
| MERCURY BY CVAA | | | SW7471B | | Prep Date: 9/3/2020 | Analyst: MAC | |
| Mercury | 260 | 50 | 50 | | µg/Kg-dry | 1 | 9/3/2020 |
| METALS BY ICP-MS | | | SW6020B | | Prep Date: 9/3/2020 | Analyst: STP | |
| Arsenic | 5,600 | 2,000 | 2,000 | | µg/Kg-dry | 1 | 9/3/2020 |
| Barium | 49,000 | 1,000 | 1,000 | | µg/Kg-dry | 1 | 9/3/2020 |
| Cadmium | 210 | 200 | 200 | | µg/Kg-dry | 1 | 9/3/2020 |
| Chromium | 11,000 | 2,000 | 2,000 | | µg/Kg-dry | 1 | 9/3/2020 |
| Copper | 13,000 | 1,000 | 1,000 | | µg/Kg-dry | 1 | 9/3/2020 |
| Lead | 34,000 | 10,000 | 10,000 | | µg/Kg-dry | 1 | 9/3/2020 |
| Selenium | ND | 380 | 200 | | µg/Kg-dry | 1 | 9/3/2020 |
| Silver | ND | 380 | 100 | | µg/Kg-dry | 1 | 9/3/2020 |
| Zinc | 50,000 | 1,000 | 1,000 | | µg/Kg-dry | 1 | 9/3/2020 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | SW846 8270D | | Prep Date: 9/4/2020 | Analyst: EE | |
| 1,2,4-Trichlorobenzene | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 1,2-Dichlorobenzene | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 1,3-Dichlorobenzene | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 1,4-Dichlorobenzene | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2,4,5-Trichlorophenol | ND | 370 | 300 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2,4,6-Trichlorophenol | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2,4-Dichlorophenol | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2,4-Dimethylphenol | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2,4-Dinitrophenol | ND | 830 | 830 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2,4-Dinitrotoluene | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2,6-Dinitrotoluene | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2-Chlorophenol | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2-Methylphenol | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 10 | 9/8/2020 |
| 2-Nitrophenol | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 3&4-Methylphenol | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 3,3'-Dichlorobenzidine | ND | 2,000 | 2,000 | | µg/Kg-dry | 10 | 9/8/2020 |
| 3-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 10 | 9/8/2020 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 10 | 9/8/2020 |
| 4-Bromophenyl phenyl ether | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 4-Chloro-3-methylphenol | ND | 370 | 280 | | µg/Kg-dry | 10 | 9/8/2020 |
| 4-Chloroaniline | ND | 750 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4
Lab ID: 20090017-01

Client Sample ID: 13047 Maiden-TS-Composite
Collection Date: 8/31/2020 9:24:00 AM

Matrix: SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|--------------|--------------------------|------|-----------|-----------------|---------------|
| 4-Chlorophenyl phenyl ether | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| 4-Nitroaniline | ND | 1,900 | 830 | | µg/Kg-dry | 10 | 9/8/2020 |
| 4-Nitrophenol | ND | 830 | 830 | | µg/Kg-dry | 10 | 9/8/2020 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Benzo(a)pyrene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Benzo(b)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Benzo(g,h,i)perylene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Benzo(k)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Bis(2-chloroethoxy)methane | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Bis(2-chloroethyl)ether | ND | 370 | 100 | | µg/Kg-dry | 10 | 9/8/2020 |
| Bis(2-chloroisopropyl)ether | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Bis(2-ethylhexyl)phthalate | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Butyl benzyl phthalate | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Carbazole | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Chrysene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Dibenzo(a,h)anthracene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Dibenzofuran | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Diethyl phthalate | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Dimethyl phthalate | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Di-n-butyl phthalate | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Di-n-octyl phthalate | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Hexachlorobenzene | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Hexachlorobutadiene | ND | 370 | 50 | | µg/Kg-dry | 10 | 9/8/2020 |
| Hexachlorocyclopentadiene | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Hexachloroethane | ND | 370 | 300 | | µg/Kg-dry | 10 | 9/8/2020 |
| Indeno(1,2,3-cd)pyrene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Isophorone | ND | 1,900 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Nitrobenzene | ND | 1,900 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| N-Nitrosodi-n-propylamine | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| N-Nitrosodiphenylamine | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Pentachlorophenol | ND | 370 | 20 | | µg/Kg-dry | 10 | 9/8/2020 |
| Phenanthrene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Phenol | ND | 370 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Pyrene | ND | 330 | 330 | | µg/Kg-dry | 10 | 9/8/2020 |
| Surr: 2,4,6-Tribromophenol | 52.0 | 38-92 | | | %REC | 10 | 9/8/2020 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4
Lab ID: 20090017-01

Client Sample ID: 13047 Maiden-TS-Composite
Collection Date: 8/31/2020 9:24:00 AM

Matrix: SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|--------|----------------|--------------------------|----------------------------|-----------|--------------------|---------------|
| Surr: 2-Fluorobiphenyl | 63.8 | 44-107 | | | %REC | 10 | 9/8/2020 |
| Surr: 2-Fluorophenol | 62.2 | 37-109 | | | %REC | 10 | 9/8/2020 |
| Surr: 4-Terphenyl-d14 | 74.6 | 52-123 | | | %REC | 10 | 9/8/2020 |
| Surr: Nitrobenzene-d5 | 64.2 | 41-94 | | | %REC | 10 | 9/8/2020 |
| Surr: Phenol-d6 | 67.0 | 28-111 | | | %REC | 10 | 9/8/2020 |
| VOLATILE ORGANIC COMPOUNDS | | SW8260C | | Prep Date: 9/1/2020 | | Analyst: BG | |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,1,1-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,1,2,2-Tetrachloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,1,2-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,1,2-Trichlorotrifluoroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,1-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,1-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,2,3-Trichloroproppane | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,2-Dibromo-3-chloropropane | ND | 110 | 10 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,2-Dibromoethane | ND | 33 | 20 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,2-Dichloroethane | ND | 110 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,2-Dichloropropane | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,3,5-Trimethylbenzene | ND | 110 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 9/4/2020 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 9/4/2020 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 9/4/2020 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 9/4/2020 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 9/4/2020 |
| Acrylonitrile | ND | 110 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| Bromoform | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 9/4/2020 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 9/4/2020 |
| Carbon tetrachloride | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| Chlorobenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 9/4/2020 |
| Chloroform | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 9/4/2020 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4
Lab ID: 20090017-01

Client Sample ID: 13047 Maiden-TS-Composite
Collection Date: 8/31/2020 9:24:00 AM

Matrix: SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|--------------|--------------------------|------|----------------------------|-----------------|---------------------|
| cis-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| cis-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 9/4/2020 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 9/4/2020 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 9/4/2020 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 9/4/2020 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 9/4/2020 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 9/4/2020 |
| Methylene chloride | ND | 270 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 9/4/2020 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| o-Xylene | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| Styrene | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| Tetrachloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| trans-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| trans-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| Trichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 9/4/2020 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 9/4/2020 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 9/4/2020 |
| Vinyl chloride | ND | 40 | 40 | | µg/Kg-dry | 1 | 9/4/2020 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg-dry | 1 | 9/4/2020 |
| Surr: 1,2-Dichloroethane-d4 | 98.7 | 70-130 | | | %REC | 1 | 9/4/2020 |
| Surr: 4-Bromofluorobenzene | 99.9 | 70-130 | | | %REC | 1 | 9/4/2020 |
| Surr: Dibromofluoromethane | 95.2 | 70-130 | | | %REC | 1 | 9/4/2020 |
| Surr: Toluene-d8 | 96.5 | 70-130 | | | %REC | 1 | 9/4/2020 |
| CHLORIDE | | | A4500-CL E-11 | | Prep Date: 9/1/2020 | | Analyst: JDR |
| Chloride | ND | 200 | 200 | | mg/Kg-dry | 1 | 9/2/2020 |
| MOISTURE | | | SW3550C | | | | Analyst: KTP |
| Moisture | 12 | 0.10 | 0 | | % of sample | 1 | 9/3/2020 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

| Batch ID: 163600 | | Instrument ID GC7 | | Method: SW8151 | | | | | | | |
|-------------------------|--|--|-----|-----------------------|-----------------------|------|---|---------------|--------------|-----------|------|
| Mblk | | Sample ID: HBLKS1-163600-163600 | | | Units: µg/Kg | | Analysis Date: 9/4/2020 02:35 PM | | | | |
| Client ID: | | Run ID: GC7_200904A | | | SeqNo: 6687861 | | Prep Date: 9/4/2020 | | DF: 1 | | |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 2,4,5-TP (Silvex) | | ND | 5.0 | | | | | | | | |
| 2,4-D | | ND | 10 | | | | | | | | |
| <i>Surr: DCAA</i> | | 25 | 0 | 50 | 0 | 50 | 10-150 | | 0 | | |
| LCS | | Sample ID: HLCSS1-163600-163600 | | | Units: µg/Kg | | Analysis Date: 9/4/2020 02:49 PM | | | | |
| Client ID: | | Run ID: GC7_200904A | | | SeqNo: 6687862 | | Prep Date: 9/4/2020 | | DF: 1 | | |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 2,4,5-TP (Silvex) | | 40 | 5.0 | 50 | 0 | 80 | 10-150 | | 0 | | |
| 2,4-D | | 46 | 10 | 50 | 0 | 92 | 10-130 | | 0 | | |
| <i>Surr: DCAA</i> | | 32 | 0 | 50 | 0 | 64 | 10-150 | | 0 | | |
| MS | | Sample ID: 20082410-01B MS | | | Units: µg/Kg | | Analysis Date: 9/4/2020 03:03 PM | | | | |
| Client ID: | | Run ID: GC7_200904A | | | SeqNo: 6687863 | | Prep Date: 9/4/2020 | | DF: 1 | | |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 2,4,5-TP (Silvex) | | 29.74 | 5.0 | 49.57 | 0 | 60 | 10-150 | | 0 | | |
| 2,4-D | | 35.69 | 9.9 | 49.57 | 0 | 72 | 10-130 | | 0 | | |
| <i>Surr: DCAA</i> | | 25.77 | 0 | 49.57 | 0 | 52 | 10-150 | | 0 | | |
| MSD | | Sample ID: 20082410-01B MSD | | | Units: µg/Kg | | Analysis Date: 9/4/2020 03:16 PM | | | | |
| Client ID: | | Run ID: GC7_200904A | | | SeqNo: 6687864 | | Prep Date: 9/4/2020 | | DF: 1 | | |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 2,4,5-TP (Silvex) | | 33.13 | 4.9 | 48.72 | 0 | 68 | 10-150 | 29.74 | 10.8 | 50 | |
| 2,4-D | | 38.98 | 9.7 | 48.72 | 0 | 80 | 10-130 | 35.69 | 8.81 | 50 | |
| <i>Surr: DCAA</i> | | 29.23 | 0 | 48.72 | 0 | 60 | 10-150 | 25.77 | 12.6 | 50 | |

The following samples were analyzed in this batch: **20090017-01B**

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163787** Instrument ID **GC14** Method: **SW8082**

| MBLK | | | | Sample ID: PBLKS1-163787-163787 | | Units: µg/Kg | | Analysis Date: 9/8/2020 05:42 PM | | |
|-----------------------------------|--------|-----------------------------|---------|--|------|----------------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: GC14_200908A | | SeqNo: 6692787 | | Prep Date: 9/8/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | ND | 67 | | | | | | | | |
| Aroclor 1221 | ND | 67 | | | | | | | | |
| Aroclor 1232 | ND | 67 | | | | | | | | |
| Aroclor 1242 | ND | 67 | | | | | | | | |
| Aroclor 1248 | ND | 67 | | | | | | | | |
| Aroclor 1254 | ND | 67 | | | | | | | | |
| Aroclor 1260 | ND | 67 | | | | | | | | |
| Aroclor 1262 | ND | 67 | | | | | | | | |
| Aroclor 1268 | ND | 67 | | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 35.58 | 0 | 33.3 | 0 | 107 | 40-140 | | 0 | | |
| <i>Surr: Tetrachloro-m-xylene</i> | 37.78 | 0 | 33.3 | 0 | 113 | 45-124 | | 0 | | |

| LCS | | | | Sample ID: PLCSS1-163787-163787 | | Units: µg/Kg | | Analysis Date: 9/8/2020 05:57 PM | | |
|-----------------------------------|--------|-----------------------------|---------|--|------|----------------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: GC14_200908A | | SeqNo: 6692788 | | Prep Date: 9/8/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | 743.8 | 67 | 833 | 0 | 89.3 | 50-130 | | 0 | | |
| Aroclor 1260 | 702.1 | 67 | 833 | 0 | 84.3 | 50-130 | | 0 | | |
| <i>Surr: Decachlorobiphenyl</i> | 32.57 | 0 | 33.3 | 0 | 97.8 | 40-140 | | 0 | | |
| <i>Surr: Tetrachloro-m-xylene</i> | 32.52 | 0 | 33.3 | 0 | 97.6 | 45-124 | | 0 | | |

| MS | | | | Sample ID: 20090352-01C MS | | Units: µg/Kg | | Analysis Date: 9/8/2020 06:12 PM | | |
|-----------------------------------|--------|-----------------------------|---------|-----------------------------------|------|----------------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: GC14_200908A | | SeqNo: 6692789 | | Prep Date: 9/8/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | 749.4 | 66 | 819.2 | 0 | 91.5 | 40-140 | | 0 | | |
| Aroclor 1260 | 771.8 | 66 | 819.2 | 0 | 94.2 | 40-140 | | 0 | | |
| <i>Surr: Decachlorobiphenyl</i> | 33.7 | 0 | 32.75 | 0 | 103 | 40-140 | | 0 | | |
| <i>Surr: Tetrachloro-m-xylene</i> | 33.96 | 0 | 32.75 | 0 | 104 | 45-124 | | 0 | | |

| MSD | | | | Sample ID: 20090352-01C MSD | | Units: µg/Kg | | Analysis Date: 9/8/2020 06:28 PM | | |
|-----------------------------------|--------|-----------------------------|---------|------------------------------------|------|----------------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: GC14_200908A | | SeqNo: 6692790 | | Prep Date: 9/8/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | 711.9 | 64 | 802.3 | 0 | 88.7 | 40-140 | 749.4 | 5.13 | 50 | |
| Aroclor 1260 | 742.5 | 64 | 802.3 | 0 | 92.5 | 40-140 | 771.8 | 3.86 | 50 | |
| <i>Surr: Decachlorobiphenyl</i> | 32.28 | 0 | 32.07 | 0 | 101 | 40-140 | 33.7 | 4.3 | 50 | |
| <i>Surr: Tetrachloro-m-xylene</i> | 32.09 | 0 | 32.07 | 0 | 100 | 45-124 | 33.96 | 5.67 | 50 | |

The following samples were analyzed in this batch: | 20090017-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163788** Instrument ID **GC12** Method: **SW8081A**

| MLBK | Sample ID: PBLKS1-163788-163788 | | | Units: µg/Kg | | Analysis Date: 9/8/2020 11:56 PM | | | |
|-----------------------------------|--|-----|---------|-----------------------|------|---|---------------|--------------|------|
| Client ID: | Run ID: GC12_200908A | | | SeqNo: 6692476 | | Prep Date: 9/8/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD Limit | Qual |
| 4,4'-DDD | ND | | 10 | | | | | | |
| 4,4'-DDE | ND | | 10 | | | | | | |
| 4,4'-DDT | ND | | 10 | | | | | | |
| Aldrin | ND | | 10 | | | | | | |
| alpha-BHC | ND | | 10 | | | | | | |
| alpha-Chlordane | ND | | 10 | | | | | | |
| beta-BHC | ND | | 10 | | | | | | |
| Chlordane, Technical | ND | | 25 | | | | | | |
| delta-BHC | ND | | 10 | | | | | | |
| Dieldrin | ND | | 10 | | | | | | |
| Endosulfan I | ND | | 10 | | | | | | |
| Endosulfan II | ND | | 10 | | | | | | |
| Endosulfan sulfate | ND | | 10 | | | | | | |
| Endrin | ND | | 10 | | | | | | |
| Endrin aldehyde | ND | | 10 | | | | | | |
| Endrin ketone | ND | | 10 | | | | | | |
| gamma-BHC (Lindane) | ND | | 10 | | | | | | |
| gamma-Chlordane | ND | | 10 | | | | | | |
| Heptachlor | ND | | 10 | | | | | | |
| Heptachlor epoxide | ND | | 10 | | | | | | |
| Methoxychlor | ND | | 10 | | | | | | |
| Toxaphene | ND | | 60 | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 29.32 | 0 | 33.3 | 0 | 88 | 50-150 | 0 | | |
| <i>Surr: Tetrachloro-m-xylene</i> | 30.57 | 0 | 33.3 | 0 | 91.8 | 50-150 | 0 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163788** Instrument ID **GC12** Method: **SW8081A**

| LCS | Sample ID: PLCSS1-163788-163788 | | | Units: µg/Kg | | Analysis Date: 9/9/2020 12:11 AM | | | | |
|-----------------------------------|--|-----|-----------------------|---------------------|----------------------------|---|---------------|------|-----------|------|
| Client ID: | Run ID: GC12_200908A | | SeqNo: 6692477 | | Prep Date: 9/8/2020 | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 4,4'-DDD | 28.93 | 10 | 33.33 | 0 | 86.8 | 50-150 | 0 | 0 | | |
| 4,4'-DDE | 29.3 | 10 | 33.33 | 0 | 87.9 | 50-150 | 0 | 0 | | |
| 4,4'-DDT | 27.62 | 10 | 33.33 | 0 | 82.9 | 50-150 | 0 | 0 | | |
| Aldrin | 29.97 | 10 | 33.33 | 0 | 89.9 | 50-150 | 0 | 0 | | |
| alpha-BHC | 30.18 | 10 | 33.33 | 0 | 90.6 | 50-150 | 0 | 0 | | |
| alpha-Chlordane | 29.87 | 10 | 33.33 | 0 | 89.6 | 50-150 | 0 | 0 | | |
| beta-BHC | 29.53 | 10 | 33.33 | 0 | 88.6 | 50-150 | 0 | 0 | | |
| delta-BHC | 30.18 | 10 | 33.33 | 0 | 90.6 | 50-150 | 0 | 0 | | |
| Dieldrin | 29.75 | 10 | 33.33 | 0 | 89.3 | 50-150 | 0 | 0 | | |
| Endosulfan I | 29.65 | 10 | 33.33 | 0 | 89 | 50-150 | 0 | 0 | | |
| Endosulfan II | 27.35 | 10 | 33.33 | 0 | 82.1 | 50-150 | 0 | 0 | | |
| Endosulfan sulfate | 28.62 | 10 | 33.33 | 0 | 85.9 | 50-150 | 0 | 0 | | |
| Endrin | 27.15 | 10 | 33.33 | 0 | 81.5 | 50-150 | 0 | 0 | | |
| Endrin aldehyde | 25.32 | 10 | 33.33 | 0 | 76 | 50-150 | 0 | 0 | | |
| Endrin ketone | 30.38 | 10 | 33.33 | 0 | 91.2 | 50-150 | 0 | 0 | | |
| gamma-BHC (Lindane) | 30.05 | 10 | 33.33 | 0 | 90.2 | 50-150 | 0 | 0 | | |
| gamma-Chlordane | 28.75 | 10 | 33.33 | 0 | 86.3 | 50-150 | 0 | 0 | | |
| Heptachlor | 30.02 | 10 | 33.33 | 0 | 90.1 | 50-150 | 0 | 0 | | |
| Heptachlor epoxide | 30.43 | 10 | 33.33 | 0 | 91.3 | 50-150 | 0 | 0 | | |
| Methoxychlor | 24.9 | 10 | 33.33 | 0 | 74.7 | 50-150 | 0 | 0 | | |
| <i>Surr: Decachlorobiphenyl</i> | 28.53 | 0 | 33.3 | 0 | 85.7 | 50-150 | 0 | 0 | | |
| <i>Surr: Tetrachloro-m-xylene</i> | 29.65 | 0 | 33.3 | 0 | 89 | 50-150 | 0 | 0 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163788** Instrument ID **GC12** Method: **SW8081A**

| MS | Sample ID: 20090352-01C MS | | | Units: µg/Kg | | Analysis Date: 9/8/2020 08:46 PM | | | | |
|-----------------------------------|-----------------------------------|-----|---------|-----------------------|------|---|---------------|--------------|-----------|------|
| Client ID: | Run ID: GC12_200908A | | | SeqNo: 6692467 | | Prep Date: 9/8/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 4,4'-DDD | 18.04 | 9.7 | 32.42 | 0 | 55.7 | 50-150 | 0 | 0 | | |
| 4,4'-DDE | 17.57 | 9.7 | 32.42 | 0 | 54.2 | 50-150 | 0 | 0 | | |
| 4,4'-DDT | 16.34 | 9.7 | 32.42 | 0 | 50.4 | 50-150 | 0 | 0 | | |
| Aldrin | 17.56 | 9.7 | 32.42 | 0 | 54.2 | 50-150 | 0 | 0 | | |
| alpha-BHC | 17.51 | 9.7 | 32.42 | 0 | 54 | 50-150 | 0 | 0 | | |
| alpha-Chlordane | 17.75 | 9.7 | 32.42 | 0 | 54.8 | 50-150 | 0 | 0 | | |
| beta-BHC | 17.33 | 9.7 | 32.42 | 0 | 53.5 | 50-150 | 0 | 0 | | |
| delta-BHC | 17.26 | 9.7 | 32.42 | 0 | 53.3 | 50-150 | 0 | 0 | | |
| Dieldrin | 17.6 | 9.7 | 32.42 | 0 | 54.3 | 50-150 | 0 | 0 | | |
| Endosulfan I | 17.8 | 9.7 | 32.42 | 0 | 54.9 | 50-150 | 0 | 0 | | |
| Endosulfan II | 17.34 | 9.7 | 32.42 | 0 | 53.5 | 50-150 | 0 | 0 | | |
| Endosulfan sulfate | 16.71 | 9.7 | 32.42 | 0 | 51.6 | 50-150 | 0 | 0 | | |
| Endrin | 17.04 | 9.7 | 32.42 | 0 | 52.6 | 50-150 | 0 | 0 | | |
| Endrin aldehyde | 10.11 | 9.7 | 32.42 | 0 | 31.2 | 50-150 | 0 | 0 | | S |
| Endrin ketone | 16.86 | 9.7 | 32.42 | 0 | 52 | 50-150 | 0 | 0 | | |
| gamma-BHC (Lindane) | 17.8 | 9.7 | 32.42 | 0 | 54.9 | 50-150 | 0 | 0 | | |
| gamma-Chlordane | 16.74 | 9.7 | 32.42 | 0 | 51.7 | 50-150 | 0 | 0 | | |
| Heptachlor | 17.62 | 9.7 | 32.42 | 0 | 54.4 | 50-150 | 0 | 0 | | |
| Heptachlor epoxide | 17.72 | 9.7 | 32.42 | 0 | 54.7 | 50-150 | 0 | 0 | | |
| Methoxychlor | 13.24 | 9.7 | 32.42 | 0 | 40.9 | 50-150 | 0 | 0 | | S |
| <i>Surr: Decachlorobiphenyl</i> | 15.95 | 0 | 32.39 | 0 | 49.2 | 50-150 | 0 | 0 | | S |
| <i>Surr: Tetrachloro-m-xylene</i> | 17.15 | 0 | 32.39 | 0 | 53 | 50-150 | 0 | 0 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163788** Instrument ID **GC12** Method: **SW8081A**

| MSD | | | | Sample ID: 20090352-01C MSD | | | Units: µg/Kg | | Analysis Date: 9/8/2020 09:01 PM | | |
|-----------------------------------|--------|-----------------------------|---------|------------------------------------|------|----------------------------|---------------------|--------------|---|------|--|
| Client ID: | | Run ID: GC12_200908A | | SeqNo: 6692468 | | Prep Date: 9/8/2020 | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 4,4'-DDD | 19.36 | 9.7 | 32.4 | 0 | 59.8 | 50-150 | 18.04 | 7.07 | 35 | | |
| 4,4'-DDE | 18.52 | 9.7 | 32.4 | 0 | 57.2 | 50-150 | 17.57 | 5.26 | 35 | | |
| 4,4'-DDT | 17.89 | 9.7 | 32.4 | 0 | 55.2 | 50-150 | 16.34 | 9.05 | 35 | | |
| Aldrin | 18.33 | 9.7 | 32.4 | 0 | 56.6 | 50-150 | 17.56 | 4.3 | 35 | | |
| alpha-BHC | 18.13 | 9.7 | 32.4 | 0 | 56 | 50-150 | 17.51 | 3.51 | 35 | | |
| alpha-Chlordane | 18.63 | 9.7 | 32.4 | 0 | 57.5 | 50-150 | 17.75 | 4.86 | 35 | | |
| beta-BHC | 17.95 | 9.7 | 32.4 | 0 | 55.4 | 50-150 | 17.33 | 3.54 | 35 | | |
| delta-BHC | 18.31 | 9.7 | 32.4 | 0 | 56.5 | 50-150 | 17.26 | 5.88 | 35 | | |
| Dieldrin | 18.76 | 9.7 | 32.4 | 0 | 57.9 | 50-150 | 17.6 | 6.38 | 35 | | |
| Endosulfan I | 18.81 | 9.7 | 32.4 | 0 | 58.1 | 50-150 | 17.8 | 5.54 | 35 | | |
| Endosulfan II | 18.52 | 9.7 | 32.4 | 0 | 57.2 | 50-150 | 17.34 | 6.56 | 35 | | |
| Endosulfan sulfate | 17.97 | 9.7 | 32.4 | 0 | 55.5 | 50-150 | 16.71 | 7.25 | 35 | | |
| Endrin | 18.23 | 9.7 | 32.4 | 0 | 56.3 | 50-150 | 17.04 | 6.76 | 35 | | |
| Endrin aldehyde | 10.27 | 9.7 | 32.4 | 0 | 31.7 | 50-150 | 10.11 | 1.55 | 35 | S | |
| Endrin ketone | 18.24 | 9.7 | 32.4 | 0 | 56.3 | 50-150 | 16.86 | 7.9 | 35 | | |
| gamma-BHC (Lindane) | 18.75 | 9.7 | 32.4 | 0 | 57.9 | 50-150 | 17.8 | 5.19 | 35 | | |
| gamma-Chlordane | 17.5 | 9.7 | 32.4 | 0 | 54 | 50-150 | 16.74 | 4.41 | 35 | | |
| Heptachlor | 18.63 | 9.7 | 32.4 | 0 | 57.5 | 50-150 | 17.62 | 5.59 | 35 | | |
| Heptachlor epoxide | 18.81 | 9.7 | 32.4 | 0 | 58.1 | 50-150 | 17.72 | 5.99 | 35 | | |
| Methoxychlor | 14.7 | 9.7 | 32.4 | 0 | 45.4 | 50-150 | 13.24 | 10.4 | 35 | S | |
| <i>Surr: Decachlorobiphenyl</i> | 17.37 | 0 | 32.37 | 0 | 53.7 | 50-150 | 15.95 | 8.52 | 35 | | |
| <i>Surr: Tetrachloro-m-xylene</i> | 17.97 | 0 | 32.37 | 0 | 55.5 | 50-150 | 17.15 | 4.67 | 35 | | |

The following samples were analyzed in this batch:

20090017-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163598** Instrument ID **HG4** Method: **SW7471B**

| MLK | | | | Sample ID: MLK-163598-163598 | | Units: mg/Kg | | Analysis Date: 9/3/2020 01:53 PM | | | |
|------------|--------|----------------------------|---------|-------------------------------------|---------|----------------------------|---------------|---|-----------|------|--|
| Client ID: | | Run ID: HG4_200903A | | SeqNo: 6683152 | | Prep Date: 9/3/2020 | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Mercury | | ND | | 0.020 | | | | | | | |
| LCS | | | | Sample ID: LCS-163598-163598 | | Units: mg/Kg | | Analysis Date: 9/3/2020 01:55 PM | | | |
| Client ID: | | Run ID: HG4_200903A | | SeqNo: 6683153 | | Prep Date: 9/3/2020 | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Mercury | | 0.1667 | 0.020 | 0.1665 | 0 | 100 | 80-120 | 0 | | | |
| MS | | | | Sample ID: 20082424-05BMS | | Units: mg/Kg | | Analysis Date: 9/3/2020 01:58 PM | | | |
| Client ID: | | Run ID: HG4_200903A | | SeqNo: 6683155 | | Prep Date: 9/3/2020 | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Mercury | | 0.2361 | 0.020 | 0.1632 | 0.08934 | 89.9 | 75-125 | 0 | | | |
| MSD | | | | Sample ID: 20082424-05BMSD | | Units: mg/Kg | | Analysis Date: 9/3/2020 02:00 PM | | | |
| Client ID: | | Run ID: HG4_200903A | | SeqNo: 6683156 | | Prep Date: 9/3/2020 | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Mercury | | 0.2646 | 0.019 | 0.1617 | 0.08934 | 108 | 75-125 | 0.2361 | 11.4 | 35 | |

The following samples were analyzed in this batch:

20090017-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163592** Instrument ID **ICPMS3** Method: **SW6020B**

| MBLK Sample ID: MBLK-163592-163592 | | | | Units: mg/Kg | | Analysis Date: 9/3/2020 07:43 PM | | | | |
|--|--------|-------------------------------|---------|-----------------------|------|---|---------------|--------------|-----------|------|
| Client ID: | | Run ID: ICPMS3_200903B | | SeqNo: 6684078 | | Prep Date: 9/3/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | ND | 0.25 | | | | | | | | |
| Barium | ND | 0.25 | | | | | | | | |
| Cadmium | ND | 0.10 | | | | | | | | |
| Chromium | ND | 0.25 | | | | | | | | |
| Lead | ND | 0.25 | | | | | | | | |
| Selenium | ND | 0.25 | | | | | | | | |
| Silver | ND | 0.25 | | | | | | | | |
| Zinc | ND | 0.50 | | | | | | | | |

| MBLK Sample ID: MBLK-163592-163592 | | | | Units: mg/Kg | | Analysis Date: 9/4/2020 03:31 PM | | | | |
|--|--------|-------------------------------|---------|-----------------------|------|---|---------------|--------------|-----------|------|
| Client ID: | | Run ID: ICPMS4_200904B | | SeqNo: 6685527 | | Prep Date: 9/3/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Copper | ND | 0.25 | | | | | | | | |

| LCS Sample ID: LCS-163592-163592 | | | | Units: mg/Kg | | Analysis Date: 9/3/2020 07:45 PM | | | | |
|--|--------|-------------------------------|---------|-----------------------|------|---|---------------|--------------|-----------|------|
| Client ID: | | Run ID: ICPMS3_200903B | | SeqNo: 6684079 | | Prep Date: 9/3/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 5.298 | 0.25 | 5 | 0 | 106 | 80-120 | | 0 | | |
| Barium | 5.5 | 0.25 | 5 | 0 | 110 | 80-120 | | 0 | | |
| Cadmium | 5.511 | 0.10 | 5 | 0 | 110 | 80-120 | | 0 | | |
| Chromium | 5.517 | 0.25 | 5 | 0 | 110 | 80-120 | | 0 | | |
| Copper | 5.089 | 0.25 | 5 | 0 | 102 | 80-120 | | 0 | | |
| Lead | 5.533 | 0.25 | 5 | 0 | 111 | 80-120 | | 0 | | |
| Selenium | 5.363 | 0.25 | 5 | 0 | 107 | 80-120 | | 0 | | |
| Silver | 5.704 | 0.25 | 5 | 0 | 114 | 80-120 | | 0 | | |
| Zinc | 5.374 | 0.50 | 5 | 0 | 107 | 80-120 | | 0 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163592** Instrument ID **ICPMS3** Method: **SW6020B**

| MS | Sample ID: 20082115-01AMS | | | | Units: mg/Kg | | Analysis Date: 9/3/2020 07:55 PM | | | |
|------------|----------------------------------|------|---------|-----------------------|---------------------|----------------------------|---|--------------|-----------|------|
| Client ID: | Run ID: ICPMS3_200903B | | | SeqNo: 6684085 | | Prep Date: 9/3/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 22.88 | 0.40 | 8.013 | 11.49 | 142 | 75-125 | | 0 | | S |
| Barium | 186.8 | 0.40 | 8.013 | 154.6 | 402 | 75-125 | | 0 | | SEO |
| Cadmium | 8.358 | 0.16 | 8.013 | 0.5005 | 98.1 | 75-125 | | 0 | | |
| Chromium | 20.81 | 0.40 | 8.013 | 12.08 | 109 | 75-125 | | 0 | | |
| Copper | 48.54 | 0.40 | 8.013 | 42.23 | 78.8 | 75-125 | | 0 | | O |
| Lead | 77.52 | 0.40 | 8.013 | 75.89 | 20.4 | 75-125 | | 0 | | SO |
| Selenium | 7.834 | 0.40 | 8.013 | 0.3045 | 94 | 75-125 | | 0 | | |
| Silver | 8.048 | 0.40 | 8.013 | 0.09333 | 99.3 | 75-125 | | 0 | | |
| Zinc | 140.1 | 0.80 | 8.013 | 123.8 | 204 | 75-125 | | 0 | | SO |

| MSD | Sample ID: 20082115-01AMSD | | | | Units: mg/Kg | | Analysis Date: 9/3/2020 07:57 PM | | | |
|------------|-----------------------------------|------|---------|-----------------------|---------------------|----------------------------|---|--------------|-----------|------|
| Client ID: | Run ID: ICPMS3_200903B | | | SeqNo: 6684086 | | Prep Date: 9/3/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 21.19 | 0.40 | 7.987 | 11.49 | 121 | 75-125 | 22.88 | 7.66 | 20 | |
| Barium | 188.8 | 0.40 | 7.987 | 154.6 | 429 | 75-125 | 186.8 | 1.07 | 20 | SEO |
| Cadmium | 8.353 | 0.16 | 7.987 | 0.5005 | 98.3 | 75-125 | 8.358 | 0.0681 | 20 | |
| Chromium | 21.49 | 0.40 | 7.987 | 12.08 | 118 | 75-125 | 20.81 | 3.23 | 20 | |
| Copper | 78.03 | 0.40 | 7.987 | 42.23 | 448 | 75-125 | 48.54 | 46.6 | 20 | SRO |
| Lead | 106.2 | 0.40 | 7.987 | 75.89 | 380 | 75-125 | 77.52 | 31.3 | 20 | SRO |
| Selenium | 7.778 | 0.40 | 7.987 | 0.3045 | 93.6 | 75-125 | 7.834 | 0.723 | 20 | |
| Silver | 8.046 | 0.40 | 7.987 | 0.09333 | 99.6 | 75-125 | 8.048 | 0.0208 | 20 | |
| Zinc | 159.6 | 0.80 | 7.987 | 123.8 | 448 | 75-125 | 140.1 | 13 | 20 | SEO |

The following samples were analyzed in this batch:

20090017-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163752** Instrument ID **SVMS8** Method: **SW846 8270D**

| MBLK | Sample ID: SBLKS1-163752-163752 | | | Units: µg/Kg | | Analysis Date: 9/8/2020 12:29 PM | | | |
|-----------------------------|--|-----|-----------------------|---------------------|----------------------------|---|---------------|-----------|------|
| Client ID: | Run ID: SVMS8_200908A | | SeqNo: 6689134 | | Prep Date: 9/4/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD Limit | Qual |
| 1,2,4-Trichlorobenzene | ND | 33 | | | | | | | |
| 1,2-Dichlorobenzene | ND | 33 | | | | | | | |
| 1,3-Dichlorobenzene | ND | 33 | | | | | | | |
| 1,4-Dichlorobenzene | ND | 33 | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 33 | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 33 | | | | | | | |
| 2,4-Dichlorophenol | ND | 33 | | | | | | | |
| 2,4-Dimethylphenol | ND | 33 | | | | | | | |
| 2,4-Dinitrophenol | ND | 33 | | | | | | | |
| 2,4-Dinitrotoluene | ND | 33 | | | | | | | |
| 2,6-Dinitrotoluene | ND | 33 | | | | | | | |
| 2-Chloronaphthalene | ND | 6.7 | | | | | | | |
| 2-Chlorophenol | ND | 33 | | | | | | | |
| 2-Methylnaphthalene | ND | 6.7 | | | | | | | |
| 2-Methylphenol | ND | 33 | | | | | | | |
| 2-Nitroaniline | ND | 33 | | | | | | | |
| 2-Nitrophenol | ND | 33 | | | | | | | |
| 3&4-Methylphenol | ND | 33 | | | | | | | |
| 3,3'-Dichlorobenzidine | ND | 170 | | | | | | | |
| 3-Nitroaniline | ND | 33 | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 33 | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 33 | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 33 | | | | | | | |
| 4-Chloroaniline | ND | 67 | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 33 | | | | | | | |
| 4-Nitroaniline | ND | 170 | | | | | | | |
| 4-Nitrophenol | ND | 33 | | | | | | | |
| Acenaphthene | ND | 6.7 | | | | | | | |
| Acenaphthylene | ND | 6.7 | | | | | | | |
| Anthracene | ND | 6.7 | | | | | | | |
| Benzo(a)anthracene | ND | 6.7 | | | | | | | |
| Benzo(a)pyrene | ND | 6.7 | | | | | | | |
| Benzo(b)fluoranthene | ND | 6.7 | | | | | | | |
| Benzo(g,h,i)perylene | ND | 6.7 | | | | | | | |
| Benzo(k)fluoranthene | ND | 6.7 | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 33 | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 33 | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 33 | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 33 | | | | | | | |
| Butyl benzyl phthalate | ND | 33 | | | | | | | |
| Carbazole | ND | 33 | | | | | | | |
| Chrysene | ND | 6.7 | | | | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 10 of 27

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

| Batch ID: 163752 | Instrument ID SVMS8 | Method: SW846 8270D | | | | | |
|-----------------------------------|----------------------------|----------------------------|------|---|------|--------|---|
| Dibenzo(a,h)anthracene | ND | 6.7 | | | | | |
| Dibenzofuran | ND | 33 | | | | | |
| Diethyl phthalate | ND | 33 | | | | | |
| Dimethyl phthalate | ND | 33 | | | | | |
| Di-n-butyl phthalate | ND | 33 | | | | | |
| Di-n-octyl phthalate | ND | 33 | | | | | |
| Fluoranthene | ND | 6.7 | | | | | |
| Fluorene | ND | 6.7 | | | | | |
| Hexachlorobenzene | ND | 33 | | | | | |
| Hexachlorobutadiene | ND | 33 | | | | | |
| Hexachlorocyclopentadiene | ND | 33 | | | | | |
| Hexachloroethane | ND | 33 | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 6.7 | | | | | |
| Isophorone | ND | 170 | | | | | |
| Naphthalene | ND | 6.7 | | | | | |
| Nitrobenzene | ND | 170 | | | | | |
| N-Nitrosodi-n-propylamine | ND | 33 | | | | | |
| N-Nitrosodiphenylamine | ND | 33 | | | | | |
| Pentachlorophenol | ND | 33 | | | | | |
| Phenanthrene | ND | 6.7 | | | | | |
| Phenol | ND | 33 | | | | | |
| Pyrene | ND | 6.7 | | | | | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 2025 | 0 | 3333 | 0 | 60.8 | 38-92 | 0 |
| <i>Surr: 2-Fluorobiphenyl</i> | 2205 | 0 | 3333 | 0 | 66.1 | 44-107 | 0 |
| <i>Surr: 2-Fluorophenol</i> | 2199 | 0 | 3333 | 0 | 66 | 37-109 | 0 |
| <i>Surr: 4-Terphenyl-d14</i> | 2884 | 0 | 3333 | 0 | 86.5 | 52-123 | 0 |
| <i>Surr: Nitrobenzene-d5</i> | 2221 | 0 | 3333 | 0 | 66.6 | 41-94 | 0 |
| <i>Surr: Phenol-d6</i> | 2416 | 0 | 3333 | 0 | 72.5 | 28-111 | 0 |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 11 of 27

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163752** Instrument ID **SVMS8** Method: **SW846 8270D**

| LCS | Sample ID: SLCSS1-163752-163752 | | | Units: µg/Kg | | Analysis Date: 9/8/2020 12:50 PM | | | | |
|-----------------------------|--|-----|-----------------------|---------------------|----------------------------|---|---------------|------|-----------|------|
| Client ID: | Run ID: SVMS8_200908A | | SeqNo: 6689135 | | Prep Date: 9/4/2020 | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,2,4-Trichlorobenzene | 939.3 | 33 | 1333 | 0 | 70.5 | 40-93 | | 0 | | |
| 1,2-Dichlorobenzene | 916 | 33 | 1333 | 0 | 68.7 | 42-94 | | 0 | | |
| 1,3-Dichlorobenzene | 927.3 | 33 | 1333 | 0 | 69.6 | 41-94 | | 0 | | |
| 1,4-Dichlorobenzene | 928.7 | 33 | 1333 | 0 | 69.7 | 42-94 | | 0 | | |
| 2,4,5-Trichlorophenol | 906.7 | 33 | 1333 | 0 | 68 | 52-111 | | 0 | | |
| 2,4,6-Trichlorophenol | 898.7 | 33 | 1333 | 0 | 67.4 | 46-105 | | 0 | | |
| 2,4-Dichlorophenol | 874.7 | 33 | 1333 | 0 | 65.6 | 47-96 | | 0 | | |
| 2,4-Dimethylphenol | 965.3 | 33 | 1333 | 0 | 72.4 | 49-97 | | 0 | | |
| 2,4-Dinitrophenol | 496 | 33 | 1333 | 0 | 37.2 | 10-106 | | 0 | | |
| 2,4-Dinitrotoluene | 990 | 33 | 1333 | 0 | 74.3 | 58-110 | | 0 | | |
| 2,6-Dinitrotoluene | 979.3 | 33 | 1333 | 0 | 73.5 | 59-108 | | 0 | | |
| 2-Chloronaphthalene | 926 | 6.7 | 1333 | 0 | 69.5 | 56-104 | | 0 | | |
| 2-Chlorophenol | 883.3 | 33 | 1333 | 0 | 66.3 | 50-104 | | 0 | | |
| 2-Methylnaphthalene | 936.7 | 6.7 | 1333 | 0 | 70.3 | 54-96 | | 0 | | |
| 2-Methylphenol | 910 | 33 | 1333 | 0 | 68.3 | 49-105 | | 0 | | |
| 2-Nitroaniline | 940.7 | 33 | 1333 | 0 | 70.6 | 54-107 | | 0 | | |
| 2-Nitrophenol | 931.3 | 33 | 1333 | 0 | 69.9 | 51-94 | | 0 | | |
| 3&4-Methylphenol | 916.7 | 33 | 1333 | 0 | 68.8 | 48-105 | | 0 | | |
| 3,3'-Dichlorobenzidine | 884.7 | 170 | 1333 | 0 | 66.4 | 39-99 | | 0 | | |
| 3-Nitroaniline | 526.7 | 33 | 1333 | 0 | 39.5 | 17-92 | | 0 | | |
| 4,6-Dinitro-2-methylphenol | 787.3 | 33 | 1333 | 0 | 59.1 | 32-103 | | 0 | | |
| 4-Bromophenyl phenyl ether | 994.7 | 33 | 1333 | 0 | 74.6 | 60-106 | | 0 | | |
| 4-Chloro-3-methylphenol | 916 | 33 | 1333 | 0 | 68.7 | 51-101 | | 0 | | |
| 4-Chloroaniline | 866.7 | 67 | 1333 | 0 | 65 | 27-110 | | 0 | | |
| 4-Chlorophenyl phenyl ether | 972 | 33 | 1333 | 0 | 72.9 | 58-106 | | 0 | | |
| 4-Nitroaniline | 718 | 170 | 1333 | 0 | 53.9 | 21-100 | | 0 | | |
| 4-Nitrophenol | 1015 | 33 | 1333 | 0 | 76.1 | 29-120 | | 0 | | |
| Acenaphthene | 953.3 | 6.7 | 1333 | 0 | 71.5 | 55-101 | | 0 | | |
| Acenaphthylene | 998.7 | 6.7 | 1333 | 0 | 74.9 | 59-106 | | 0 | | |
| Anthracene | 992.7 | 6.7 | 1333 | 0 | 74.5 | 67-105 | | 0 | | |
| Benzo(a)anthracene | 1021 | 6.7 | 1333 | 0 | 76.6 | 68-105 | | 0 | | |
| Benzo(a)pyrene | 994 | 6.7 | 1333 | 0 | 74.6 | 68-110 | | 0 | | |
| Benzo(b)fluoranthene | 1017 | 6.7 | 1333 | 0 | 76.3 | 65-110 | | 0 | | |
| Benzo(g,h,i)perylene | 1116 | 6.7 | 1333 | 0 | 83.7 | 60-120 | | 0 | | |
| Benzo(k)fluoranthene | 1016 | 6.7 | 1333 | 0 | 76.2 | 66-113 | | 0 | | |
| Bis(2-chloroethoxy)methane | 930 | 33 | 1333 | 0 | 69.8 | 53-96 | | 0 | | |
| Bis(2-chloroethyl)ether | 939.3 | 33 | 1333 | 0 | 70.5 | 47-108 | | 0 | | |
| Bis(2-chloroisopropyl)ether | 924 | 33 | 1333 | 0 | 69.3 | 47-107 | | 0 | | |
| Bis(2-ethylhexyl)phthalate | 1068 | 33 | 1333 | 0 | 80.1 | 59-117 | | 0 | | |
| Butyl benzyl phthalate | 952 | 33 | 1333 | 0 | 71.4 | 59-106 | | 0 | | |
| Carbazole | 981.3 | 33 | 1333 | 0 | 73.6 | 67-108 | | 0 | | |
| Chrysene | 1017 | 6.7 | 1333 | 0 | 76.3 | 68-108 | | 0 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

| Batch ID: 163752 | Instrument ID SVMS8 | Method: SW846 8270D | | | | | |
|-----------------------------------|----------------------------|----------------------------|------|---|------|--------|---|
| Dibenzo(a,h)anthracene | 1094 | 6.7 | 1333 | 0 | 82.1 | 62-119 | 0 |
| Dibenzofuran | 948.7 | 33 | 1333 | 0 | 71.2 | 60-104 | 0 |
| Diethyl phthalate | 992 | 33 | 1333 | 0 | 74.4 | 62-111 | 0 |
| Dimethyl phthalate | 967.3 | 33 | 1333 | 0 | 72.6 | 62-106 | 0 |
| Di-n-butyl phthalate | 1050 | 33 | 1333 | 0 | 78.8 | 59-105 | 0 |
| Di-n-octyl phthalate | 1035 | 33 | 1333 | 0 | 77.7 | 51-123 | 0 |
| Fluoranthene | 998 | 6.7 | 1333 | 0 | 74.9 | 67-106 | 0 |
| Fluorene | 949.3 | 6.7 | 1333 | 0 | 71.2 | 59-107 | 0 |
| Hexachlorobenzene | 999.3 | 33 | 1333 | 0 | 75 | 62-103 | 0 |
| Hexachlorobutadiene | 964.7 | 33 | 1333 | 0 | 72.4 | 51-94 | 0 |
| Hexachlorocyclopentadiene | 962 | 33 | 1333 | 0 | 72.2 | 25-120 | 0 |
| Hexachloroethane | 908.7 | 33 | 1333 | 0 | 68.2 | 55-93 | 0 |
| Indeno(1,2,3-cd)pyrene | 1108 | 6.7 | 1333 | 0 | 83.1 | 56-120 | 0 |
| Isophorone | 950.7 | 170 | 1333 | 0 | 71.3 | 52-99 | 0 |
| Naphthalene | 909.3 | 6.7 | 1333 | 0 | 68.2 | 46-98 | 0 |
| Nitrobenzene | 930.7 | 170 | 1333 | 0 | 69.8 | 53-95 | 0 |
| N-Nitrosodi-n-propylamine | 932.7 | 33 | 1333 | 0 | 70 | 50-104 | 0 |
| N-Nitrosodiphenylamine | 980 | 33 | 1333 | 0 | 73.5 | 63-107 | 0 |
| Pentachlorophenol | 802 | 33 | 1333 | 0 | 60.2 | 34-106 | 0 |
| Phenanthrene | 978.7 | 6.7 | 1333 | 0 | 73.4 | 66-101 | 0 |
| Phenol | 990.7 | 33 | 1333 | 0 | 74.3 | 44-109 | 0 |
| Pyrene | 994 | 6.7 | 1333 | 0 | 74.6 | 60-119 | 0 |
| <i>Surr: 2,4,6-Tribromophenol</i> | 2513 | 0 | 3333 | 0 | 75.4 | 38-92 | 0 |
| <i>Surr: 2-Fluorobiphenyl</i> | 2431 | 0 | 3333 | 0 | 72.9 | 44-107 | 0 |
| <i>Surr: 2-Fluorophenol</i> | 2333 | 0 | 3333 | 0 | 70 | 37-109 | 0 |
| <i>Surr: 4-Terphenyl-d14</i> | 2795 | 0 | 3333 | 0 | 83.8 | 52-123 | 0 |
| <i>Surr: Nitrobenzene-d5</i> | 2468 | 0 | 3333 | 0 | 74 | 41-94 | 0 |
| <i>Surr: Phenol-d6</i> | 2495 | 0 | 3333 | 0 | 74.8 | 28-111 | 0 |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 13 of 27

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163752** Instrument ID **SVMS8** Method: **SW846 8270D**

| MS | Sample ID: 20090017-01B MS | | | | Units: µg/Kg | | Analysis Date: 9/8/2020 01:54 PM | | | |
|-----------------------------|---|-------|------------------------------|---------------|-----------------------|---------------|---|------|---------------|------|
| | Client ID: 13047 Maiden-TS-Composite | | Run ID: SVMS8_200908A | | SeqNo: 6689138 | | Prep Date: 9/4/2020 | | DF: 10 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,2,4-Trichlorobenzene | 838.9 | 330 | 1321 | 0 | 63.5 | 40-93 | 0 | 0 | | |
| 1,2-Dichlorobenzene | 931.4 | 330 | 1321 | 0 | 70.5 | 42-94 | 0 | 0 | | |
| 1,3-Dichlorobenzene | 911.6 | 330 | 1321 | 0 | 69 | 41-94 | 0 | 0 | | |
| 1,4-Dichlorobenzene | 931.4 | 330 | 1321 | 0 | 70.5 | 42-94 | 0 | 0 | | |
| 2,4,5-Trichlorophenol | 812.5 | 330 | 1321 | 0 | 61.5 | 52-111 | 0 | 0 | | |
| 2,4,6-Trichlorophenol | 852.1 | 330 | 1321 | 0 | 64.5 | 46-105 | 0 | 0 | | |
| 2,4-Dichlorophenol | 852.1 | 330 | 1321 | 0 | 64.5 | 47-96 | 0 | 0 | | |
| 2,4-Dimethylphenol | 898.3 | 330 | 1321 | 0 | 68 | 49-97 | 0 | 0 | | |
| 2,4-Dinitrophenol | ND | 330 | 1321 | 0 | 0 | 10-106 | 0 | 0 | | S |
| 2,4-Dinitrotoluene | 891.7 | 330 | 1321 | 0 | 67.5 | 58-110 | 0 | 0 | | |
| 2,6-Dinitrotoluene | 957.8 | 330 | 1321 | 0 | 72.5 | 59-108 | 0 | 0 | | |
| 2-Chloronaphthalene | 819.1 | 66 | 1321 | 0 | 62 | 56-104 | 0 | 0 | | |
| 2-Chlorophenol | 865.3 | 330 | 1321 | 0 | 65.5 | 50-104 | 0 | 0 | | |
| 2-Methylnaphthalene | 904.9 | 66 | 1321 | 0 | 68.5 | 54-96 | 0 | 0 | | |
| 2-Methylphenol | 924.8 | 330 | 1321 | 0 | 70 | 49-105 | 0 | 0 | | |
| 2-Nitroaniline | 898.3 | 330 | 1321 | 0 | 68 | 54-107 | 0 | 0 | | |
| 2-Nitrophenol | 838.9 | 330 | 1321 | 0 | 63.5 | 51-94 | 0 | 0 | | |
| 3&4-Methylphenol | 951.2 | 330 | 1321 | 0 | 72 | 48-105 | 0 | 0 | | |
| 3,3'-Dichlorobenzidine | 687 | 1,700 | 1321 | 0 | 52 | 39-99 | 0 | 0 | | J |
| 3-Nitroaniline | 904.9 | 330 | 1321 | 0 | 68.5 | 17-92 | 0 | 0 | | |
| 4,6-Dinitro-2-methylphenol | 515.2 | 330 | 1321 | 0 | 39 | 32-103 | 0 | 0 | | |
| 4-Bromophenyl phenyl ether | 885.1 | 330 | 1321 | 0 | 67 | 60-106 | 0 | 0 | | |
| 4-Chloro-3-methylphenol | 924.8 | 330 | 1321 | 0 | 70 | 51-101 | 0 | 0 | | |
| 4-Chloroaniline | 627.5 | 660 | 1321 | 0 | 47.5 | 27-110 | 0 | 0 | | J |
| 4-Chlorophenyl phenyl ether | 911.6 | 330 | 1321 | 0 | 69 | 58-106 | 0 | 0 | | |
| 4-Nitroaniline | 924.8 | 1,700 | 1321 | 0 | 70 | 21-100 | 0 | 0 | | J |
| 4-Nitrophenol | 1050 | 330 | 1321 | 0 | 79.5 | 29-120 | 0 | 0 | | |
| Acenaphthene | 911.6 | 66 | 1321 | 0 | 69 | 55-101 | 0 | 0 | | |
| Acenaphthylene | 904.9 | 66 | 1321 | 0 | 68.5 | 59-106 | 0 | 0 | | |
| Anthracene | 918.2 | 66 | 1321 | 0 | 69.5 | 67-105 | 0 | 0 | | |
| Benzo(a)anthracene | 1044 | 66 | 1321 | 105 | 71.1 | 68-105 | 0 | 0 | | |
| Benzo(a)pyrene | 1017 | 66 | 1321 | 0 | 77 | 68-110 | 0 | 0 | | |
| Benzo(b)fluoranthene | 1070 | 66 | 1321 | 0 | 81 | 65-110 | 0 | 0 | | |
| Benzo(g,h,i)perylene | 871.9 | 66 | 1321 | 0 | 66 | 60-120 | 0 | 0 | | |
| Benzo(k)fluoranthene | 971 | 66 | 1321 | 0 | 73.5 | 66-113 | 0 | 0 | | |
| Bis(2-chloroethoxy)methane | 871.9 | 330 | 1321 | 0 | 66 | 53-96 | 0 | 0 | | |
| Bis(2-chloroethyl)ether | 964.4 | 330 | 1321 | 0 | 73 | 47-108 | 0 | 0 | | |
| Bis(2-chloroisopropyl)ether | 990.8 | 330 | 1321 | 0 | 75 | 47-107 | 0 | 0 | | |
| Bis(2-ethylhexyl)phthalate | 871.9 | 330 | 1321 | 0 | 66 | 59-117 | 0 | 0 | | |
| Butyl benzyl phthalate | 891.7 | 330 | 1321 | 0 | 67.5 | 59-106 | 0 | 0 | | |
| Carbazole | 938 | 330 | 1321 | 0 | 71 | 67-108 | 0 | 0 | | |
| Chrysene | 990.8 | 66 | 1321 | 85.3 | 68.6 | 68-108 | 0 | 0 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

| Batch ID: 163752 | Instrument ID SVMS8 | Method: SW846 8270D | | | | | | |
|-----------------------------------|----------------------------|----------------------------|------|-------|------|--------|---|---|
| Dibenzo(a,h)anthracene | 792.7 | 66 | 1321 | 0 | 60 | 62-119 | 0 | S |
| Dibenzofuran | 931.4 | 330 | 1321 | 0 | 70.5 | 60-104 | 0 | |
| Diethyl phthalate | 891.7 | 330 | 1321 | 0 | 67.5 | 62-111 | 0 | |
| Dimethyl phthalate | 891.7 | 330 | 1321 | 0 | 67.5 | 62-106 | 0 | |
| Di-n-butyl phthalate | 911.6 | 330 | 1321 | 0 | 69 | 59-105 | 0 | |
| Di-n-octyl phthalate | 1130 | 330 | 1321 | 0 | 85.5 | 51-123 | 0 | |
| Fluoranthene | 1070 | 66 | 1321 | 131.2 | 71.1 | 67-106 | 0 | |
| Fluorene | 871.9 | 66 | 1321 | 0 | 66 | 59-107 | 0 | |
| Hexachlorobenzene | 852.1 | 330 | 1321 | 0 | 64.5 | 62-103 | 0 | |
| Hexachlorobutadiene | 832.3 | 330 | 1321 | 0 | 63 | 51-94 | 0 | |
| Hexachlorocyclopentadiene | 488.8 | 330 | 1321 | 0 | 37 | 25-120 | 0 | |
| Hexachloroethane | 838.9 | 330 | 1321 | 0 | 63.5 | 55-93 | 0 | |
| Indeno(1,2,3-cd)pyrene | 898.3 | 66 | 1321 | 0 | 68 | 56-120 | 0 | |
| Isophorone | 898.3 | 1,700 | 1321 | 0 | 68 | 52-99 | 0 | J |
| Naphthalene | 865.3 | 66 | 1321 | 0 | 65.5 | 46-98 | 0 | |
| Nitrobenzene | 885.1 | 1,700 | 1321 | 0 | 67 | 53-95 | 0 | J |
| N-Nitrosodi-n-propylamine | 944.6 | 330 | 1321 | 0 | 71.5 | 50-104 | 0 | |
| N-Nitrosodiphenylamine | 885.1 | 330 | 1321 | 0 | 67 | 63-107 | 0 | |
| Pentachlorophenol | 554.9 | 330 | 1321 | 0 | 42 | 34-106 | 0 | |
| Phenanthere | 1011 | 66 | 1321 | 0 | 76.5 | 66-101 | 0 | |
| Phenol | 924.8 | 330 | 1321 | 0 | 70 | 44-109 | 0 | |
| Pyrene | 1004 | 66 | 1321 | 118.1 | 67.1 | 60-119 | 0 | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 2054 | 0 | 3302 | 0 | 62.2 | 38-92 | 0 | |
| <i>Surr: 2-Fluorobiphenyl</i> | 2120 | 0 | 3302 | 0 | 64.2 | 44-107 | 0 | |
| <i>Surr: 2-Fluorophenol</i> | 2081 | 0 | 3302 | 0 | 63 | 37-109 | 0 | |
| <i>Surr: 4-Terphenyl-d14</i> | 2325 | 0 | 3302 | 0 | 70.4 | 52-123 | 0 | |
| <i>Surr: Nitrobenzene-d5</i> | 2226 | 0 | 3302 | 0 | 67.4 | 41-94 | 0 | |
| <i>Surr: Phenol-d6</i> | 2246 | 0 | 3302 | 0 | 68 | 28-111 | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 15 of 27

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163752** Instrument ID **SVMS8** Method: **SW846 8270D**

| MSD | | Sample ID: 20090017-01B MSD | | | Units: µg/Kg | | Analysis Date: 9/8/2020 02:16 PM | | | |
|---|--------|------------------------------------|---------|-----------------------|---------------------|----------------------------|---|---------------|-----------|------|
| Client ID: 13047 Maiden-TS-Composite | | Run ID: SVMS8_200908A | | SeqNo: 6689139 | | Prep Date: 9/4/2020 | | DF: 10 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,2,4-Trichlorobenzene | 921.3 | 330 | 1325 | 0 | 69.5 | 40-93 | 838.9 | 9.37 | 30 | |
| 1,2-Dichlorobenzene | 941.2 | 330 | 1325 | 0 | 71 | 42-94 | 931.4 | 1.05 | 30 | |
| 1,3-Dichlorobenzene | 908.1 | 330 | 1325 | 0 | 68.5 | 41-94 | 911.6 | 0.383 | 30 | |
| 1,4-Dichlorobenzene | 954.5 | 330 | 1325 | 0 | 72 | 42-94 | 931.4 | 2.45 | 30 | |
| 2,4,5-Trichlorophenol | 828.5 | 330 | 1325 | 0 | 62.5 | 52-111 | 812.5 | 1.96 | 30 | |
| 2,4,6-Trichlorophenol | 848.4 | 330 | 1325 | 0 | 64 | 46-105 | 852.1 | 0.434 | 30 | |
| 2,4-Dichlorophenol | 841.8 | 330 | 1325 | 0 | 63.5 | 47-96 | 852.1 | 1.22 | 30 | |
| 2,4-Dimethylphenol | 881.6 | 330 | 1325 | 0 | 66.5 | 49-97 | 898.3 | 1.89 | 30 | |
| 2,4-Dinitrophenol | 503.7 | 330 | 1325 | 0 | 38 | 10-106 | 0 | 200 | 30 | R |
| 2,4-Dinitrotoluene | 848.4 | 330 | 1325 | 0 | 64 | 58-110 | 891.7 | 4.98 | 30 | |
| 2,6-Dinitrotoluene | 947.8 | 330 | 1325 | 0 | 71.5 | 59-108 | 957.8 | 1.05 | 30 | |
| 2-Chloronaphthalene | 874.9 | 66 | 1325 | 0 | 66 | 56-104 | 819.1 | 6.59 | 30 | |
| 2-Chlorophenol | 874.9 | 330 | 1325 | 0 | 66 | 50-104 | 865.3 | 1.1 | 30 | |
| 2-Methylnaphthalene | 928 | 66 | 1325 | 0 | 70 | 54-96 | 904.9 | 2.51 | 30 | |
| 2-Methylphenol | 901.4 | 330 | 1325 | 0 | 68 | 49-105 | 924.8 | 2.55 | 30 | |
| 2-Nitroaniline | 855 | 330 | 1325 | 0 | 64.5 | 54-107 | 898.3 | 4.94 | 30 | |
| 2-Nitrophenol | 855 | 330 | 1325 | 0 | 64.5 | 51-94 | 838.9 | 1.91 | 30 | |
| 3&4-Methylphenol | 881.6 | 330 | 1325 | 0 | 66.5 | 48-105 | 951.2 | 7.6 | 30 | |
| 3,3'-Dichlorobenzidine | 696 | 1,700 | 1325 | 0 | 52.5 | 39-99 | 687 | 0 | 30 | J |
| 3-Nitroaniline | 855 | 330 | 1325 | 0 | 64.5 | 17-92 | 904.9 | 5.67 | 30 | |
| 4,6-Dinitro-2-methylphenol | 550.1 | 330 | 1325 | 0 | 41.5 | 32-103 | 515.2 | 6.55 | 30 | |
| 4-Bromophenyl phenyl ether | 994.2 | 330 | 1325 | 0 | 75 | 60-106 | 885.1 | 11.6 | 30 | |
| 4-Chloro-3-methylphenol | 855 | 330 | 1325 | 0 | 64.5 | 51-101 | 924.8 | 7.84 | 30 | |
| 4-Chloroaniline | 656.2 | 670 | 1325 | 0 | 49.5 | 27-110 | 627.5 | 0 | 30 | J |
| 4-Chlorophenyl phenyl ether | 908.1 | 330 | 1325 | 0 | 68.5 | 58-106 | 911.6 | 0.383 | 30 | |
| 4-Nitroaniline | 808.6 | 1,700 | 1325 | 0 | 61 | 21-100 | 924.8 | 0 | 30 | J |
| 4-Nitrophenol | 888.2 | 330 | 1325 | 0 | 67 | 29-120 | 1050 | 16.7 | 30 | |
| Acenaphthene | 1001 | 66 | 1325 | 0 | 75.5 | 55-101 | 911.6 | 9.34 | 30 | |
| Acenaphthylene | 934.6 | 66 | 1325 | 0 | 70.5 | 59-106 | 904.9 | 3.22 | 30 | |
| Anthracene | 928 | 66 | 1325 | 0 | 70 | 67-105 | 918.2 | 1.06 | 30 | |
| Benzo(a)anthracene | 1034 | 66 | 1325 | 105 | 70.1 | 68-105 | 1044 | 0.93 | 30 | |
| Benzo(a)pyrene | 994.2 | 66 | 1325 | 0 | 75 | 68-110 | 1017 | 2.29 | 30 | |
| Benzo(b)fluoranthene | 1061 | 66 | 1325 | 0 | 80 | 65-110 | 1070 | 0.897 | 30 | |
| Benzo(g,h,i)perylene | 1034 | 66 | 1325 | 0 | 78 | 60-120 | 871.9 | 17 | 30 | |
| Benzo(k)fluoranthene | 928 | 66 | 1325 | 0 | 70 | 66-113 | 971 | 4.53 | 30 | |
| Bis(2-chloroethoxy)methane | 881.6 | 330 | 1325 | 0 | 66.5 | 53-96 | 871.9 | 1.1 | 30 | |
| Bis(2-chloroethyl)ether | 947.8 | 330 | 1325 | 0 | 71.5 | 47-108 | 964.4 | 1.73 | 30 | |
| Bis(2-chloroisopropyl)ether | 987.6 | 330 | 1325 | 0 | 74.5 | 47-107 | 990.8 | 0.325 | 30 | |
| Bis(2-ethylhexyl)phthalate | 921.3 | 330 | 1325 | 0 | 69.5 | 59-117 | 871.9 | 5.51 | 30 | |
| Butyl benzyl phthalate | 961.1 | 330 | 1325 | 0 | 72.5 | 59-106 | 891.7 | 7.49 | 30 | |
| Carbazole | 894.8 | 330 | 1325 | 0 | 67.5 | 67-108 | 938 | 4.71 | 30 | |
| Chrysene | 1001 | 66 | 1325 | 85.3 | 69.1 | 68-108 | 990.8 | 1.01 | 30 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

| Batch ID: 163752 | Instrument ID SVMS8 | Method: SW846 8270D | | | | | | | |
|----------------------------|----------------------------|----------------------------|------|-------|------|--------|-------|-------|------|
| Dibenzo(a,h)anthracene | 954.5 | 66 | 1325 | 0 | 72 | 62-119 | 792.7 | 18.5 | 30 |
| Dibenzofuran | 928 | 330 | 1325 | 0 | 70 | 60-104 | 931.4 | 0.368 | 30 |
| Diethyl phthalate | 908.1 | 330 | 1325 | 0 | 68.5 | 62-111 | 891.7 | 1.81 | 30 |
| Dimethyl phthalate | 881.6 | 330 | 1325 | 0 | 66.5 | 62-106 | 891.7 | 1.15 | 30 |
| Di-n-butyl phthalate | 934.6 | 330 | 1325 | 0 | 70.5 | 59-105 | 911.6 | 2.49 | 30 |
| Di-n-octyl phthalate | 1100 | 330 | 1325 | 0 | 83 | 51-123 | 1130 | 2.62 | 30 |
| Fluoranthene | 967.7 | 66 | 1325 | 131.2 | 63.1 | 67-106 | 1070 | 10 | 30 S |
| Fluorene | 881.6 | 66 | 1325 | 0 | 66.5 | 59-107 | 871.9 | 1.1 | 30 |
| Hexachlorobenzene | 934.6 | 330 | 1325 | 0 | 70.5 | 62-103 | 852.1 | 9.23 | 30 |
| Hexachlorobutadiene | 908.1 | 330 | 1325 | 0 | 68.5 | 51-94 | 832.3 | 8.71 | 30 |
| Hexachlorocyclopentadiene | 629.7 | 330 | 1325 | 0 | 47.5 | 25-120 | 488.8 | 25.2 | 30 |
| Hexachloroethane | 908.1 | 330 | 1325 | 0 | 68.5 | 55-93 | 838.9 | 7.92 | 30 |
| Indeno(1,2,3-cd)pyrene | 947.8 | 66 | 1325 | 0 | 71.5 | 56-120 | 898.3 | 5.36 | 30 |
| Isophorone | 928 | 1,700 | 1325 | 0 | 70 | 52-99 | 898.3 | 0 | 30 J |
| Naphthalene | 888.2 | 66 | 1325 | 0 | 67 | 46-98 | 865.3 | 2.61 | 30 |
| Nitrobenzene | 921.3 | 1,700 | 1325 | 0 | 69.5 | 53-95 | 885.1 | 0 | 30 J |
| N-Nitrosodi-n-propylamine | 874.9 | 330 | 1325 | 0 | 66 | 50-104 | 944.6 | 7.66 | 30 |
| N-Nitrosodiphenylamine | 947.8 | 330 | 1325 | 0 | 71.5 | 63-107 | 885.1 | 6.84 | 30 |
| Pentachlorophenol | 642.9 | 330 | 1325 | 0 | 48.5 | 34-106 | 554.9 | 14.7 | 30 |
| Phenanthere | 1007 | 66 | 1325 | 0 | 76 | 66-101 | 1011 | 0.312 | 30 |
| Phenol | 908.1 | 330 | 1325 | 0 | 68.5 | 44-109 | 924.8 | 1.82 | 30 |
| Pyrene | 1114 | 66 | 1325 | 118.1 | 75.1 | 60-119 | 1004 | 10.3 | 30 |
| Surr: 2,4,6-Tribromophenol | 2148 | 0 | 3314 | 0 | 64.8 | 38-92 | 2054 | 4.44 | 40 |
| Surr: 2-Fluorobiphenyl | 2234 | 0 | 3314 | 0 | 67.4 | 44-107 | 2120 | 5.21 | 40 |
| Surr: 2-Fluorophenol | 2041 | 0 | 3314 | 0 | 61.6 | 37-109 | 2081 | 1.9 | 40 |
| Surr: 4-Terphenyl-d14 | 2744 | 0 | 3314 | 0 | 82.8 | 52-123 | 2325 | 16.5 | 40 |
| Surr: Nitrobenzene-d5 | 2273 | 0 | 3314 | 0 | 68.6 | 41-94 | 2226 | 2.11 | 40 |
| Surr: Phenol-d6 | 2201 | 0 | 3314 | 0 | 66.4 | 28-111 | 2246 | 2.04 | 40 |

The following samples were analyzed in this batch:

20090017-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 17 of 27

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163493** Instrument ID **VMS7** Method: **SW8260C**

| MLBK | | Sample ID: MLBK-163493-163493 | | | Units: µg/Kg-dry | | Analysis Date: 9/3/2020 07:49 PM | | | |
|--------------------------------|--------|--------------------------------------|---------|---------------|-------------------------|---------------|---|------|--------------|------|
| Client ID: | | Run ID: VMS7_200903B | | | SeqNo: 6683761 | | Prep Date: 9/1/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1,2-Tetrachloroethane | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,1,1-Trichloroethane | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,1,2,2-Tetrachloroethane | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,1,2-Trichloroethane | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,1,2-Trichlorotrifluoroethane | ND | 30 | 0 | 0 | 0 | | | 0 | | |
| 1,1-Dichloroethane | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,1-Dichloroethene | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,2,3-Trichloropropane | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,2,4-Trichlorobenzene | ND | 100 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,2,4-Trimethylbenzene | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,2-Dibromo-3-chloropropane | ND | 100 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,2-Dibromoethane | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,2-Dichlorobenzene | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,2-Dichloroethane | ND | 100 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,2-Dichloropropane | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,3,5-Trimethylbenzene | ND | 100 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,3-Dichlorobenzene | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 1,4-Dichlorobenzene | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 2-Butanone | ND | 200 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 2-Hexanone | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 2-Methylnaphthalene | ND | 100 | 0 | 0 | 0 | 0-0 | | 0 | | |
| 4-Methyl-2-pentanone | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Acetone | ND | 100 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Acrylonitrile | ND | 100 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Benzene | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Bromodichloromethane | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Bromoform | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Bromomethane | ND | 100 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Carbon disulfide | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Carbon tetrachloride | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Chlorobenzene | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Chloroethane | ND | 100 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Chloroform | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Chloromethane | ND | 100 | 0 | 0 | 0 | 0-0 | | 0 | | |
| cis-1,2-Dichloroethene | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| cis-1,3-Dichloropropene | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Dibromochloromethane | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Dibromomethane | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Dichlorodifluoromethane | ND | 100 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Diethyl ether | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Ethylbenzene | ND | 30 | 0 | 0 | 0 | 0-0 | | 0 | | |
| Hexachloroethane | ND | 100 | 0 | 0 | 0 | 0-0 | | 0 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 18 of 27

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

| Batch ID: 163493 | Instrument ID VMS7 | Method: SW8260C | | | | | |
|------------------------------------|---------------------------|------------------------|------|---|------|--------|---|
| Isopropylbenzene | ND | 30 | 0 | 0 | 0 | 0-0 | 0 |
| m,p-Xylene | ND | 60 | 0 | 0 | 0 | 0-0 | 0 |
| Methyl tert-butyl ether | ND | 30 | 0 | 0 | 0 | 0-0 | 0 |
| Methylene chloride | ND | 250 | 0 | 0 | 0 | 0-0 | 0 |
| Naphthalene | ND | 100 | 0 | 0 | 0 | 0-0 | 0 |
| n-Propylbenzene | ND | 30 | 0 | 0 | 0 | 0-0 | 0 |
| o-Xylene | ND | 30 | 0 | 0 | 0 | 0-0 | 0 |
| Styrene | ND | 30 | 0 | 0 | 0 | 0-0 | 0 |
| Tetrachloroethene | ND | 30 | 0 | 0 | 0 | 0-0 | 0 |
| Toluene | ND | 30 | 0 | 0 | 0 | 0-0 | 0 |
| trans-1,2-Dichloroethene | ND | 30 | 0 | 0 | 0 | 0-0 | 0 |
| trans-1,3-Dichloropropene | ND | 30 | 0 | 0 | 0 | 0-0 | 0 |
| Trichloroethene | ND | 30 | 0 | 0 | 0 | 0-0 | 0 |
| Trichlorofluoromethane | ND | 30 | 0 | 0 | 0 | 0-0 | 0 |
| Vinyl acetate | ND | 250 | 0 | 0 | 0 | 0-0 | 0 |
| Vinyl chloride | ND | 30 | 0 | 0 | 0 | 0-0 | 0 |
| Xylenes, Total | ND | 90 | 0 | 0 | 0 | 0-0 | 0 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 1010 | 0 | 1000 | 0 | 101 | 70-130 | 0 |
| <i>Surr: 4-Bromofluorobenzene</i> | 947.5 | 0 | 1000 | 0 | 94.8 | 70-130 | 0 |
| <i>Surr: Dibromofluoromethane</i> | 895.5 | 0 | 1000 | 0 | 89.6 | 70-130 | 0 |
| <i>Surr: Toluene-d8</i> | 986.5 | 0 | 1000 | 0 | 98.6 | 70-130 | 0 |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 19 of 27

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163493** Instrument ID **VMS7** Method: **SW8260C**

| LCS | Sample ID: LCS-163493-163493 | | | Units: µg/Kg-dry | | Analysis Date: 9/3/2020 06:42 PM | | | | |
|-----------------------------|-------------------------------------|-----|---------|-------------------------|------|---|---------------|--------------|-----------|------|
| Client ID: | Run ID: VMS7_200903B | | | SeqNo: 6683759 | | Prep Date: 9/1/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1,2-Tetrachloroethane | 885 | 30 | 1000 | 0 | 88.5 | 75-125 | | 0 | | |
| 1,1,1-Trichloroethane | 996 | 30 | 1000 | 0 | 99.6 | 70-135 | | 0 | | |
| 1,1,2,2-Tetrachloroethane | 991.5 | 30 | 1000 | 0 | 99.2 | 55-130 | | 0 | | |
| 1,1,2-Trichloroethane | 1014 | 30 | 1000 | 0 | 101 | 60-125 | | 0 | | |
| 1,1-Dichloroethane | 955.5 | 30 | 1000 | 0 | 95.6 | 75-125 | | 0 | | |
| 1,1-Dichloroethene | 987.5 | 30 | 1000 | 0 | 98.8 | 76-148 | | 0 | | |
| 1,2,3-Trichloropropane | 951.5 | 30 | 1000 | 0 | 95.2 | 65-130 | | 0 | | |
| 1,2,4-Trichlorobenzene | 793.5 | 100 | 1000 | 0 | 79.4 | 65-130 | | 0 | | |
| 1,2,4-Trimethylbenzene | 937.5 | 30 | 1000 | 0 | 93.8 | 65-135 | | 0 | | |
| 1,2-Dibromo-3-chloropropane | 824.5 | 100 | 1000 | 0 | 82.4 | 40-135 | | 0 | | |
| 1,2-Dibromoethane | 954.5 | 30 | 1000 | 0 | 95.4 | 80-195 | | 0 | | |
| 1,2-Dichlorobenzene | 964.5 | 30 | 1000 | 0 | 96.4 | 75-120 | | 0 | | |
| 1,2-Dichloroethane | 945 | 100 | 1000 | 0 | 94.5 | 70-135 | | 0 | | |
| 1,2-Dichloropropane | 935.5 | 30 | 1000 | 0 | 93.6 | 70-120 | | 0 | | |
| 1,3,5-Trimethylbenzene | 970.5 | 100 | 1000 | 0 | 97 | 65-135 | | 0 | | |
| 1,3-Dichlorobenzene | 960.5 | 30 | 1000 | 0 | 96 | 70-125 | | 0 | | |
| 1,4-Dichlorobenzene | 952 | 30 | 1000 | 0 | 95.2 | 70-125 | | 0 | | |
| 2-Butanone | 883.5 | 200 | 1000 | 0 | 88.4 | 30-160 | | 0 | | |
| 2-Hexanone | 896 | 30 | 1000 | 0 | 89.6 | 45-145 | | 0 | | |
| 4-Methyl-2-pentanone | 1360 | 30 | 1000 | 0 | 136 | 74-176 | | 0 | | |
| Acetone | 1012 | 100 | 1000 | 0 | 101 | 20-160 | | 0 | | |
| Acrylonitrile | 929 | 100 | 1000 | 0 | 92.9 | 70-135 | | 0 | | |
| Benzene | 953 | 30 | 1000 | 0 | 95.3 | 75-125 | | 0 | | |
| Bromodichloromethane | 913 | 30 | 1000 | 0 | 91.3 | 70-130 | | 0 | | |
| Bromoform | 746.5 | 30 | 1000 | 0 | 74.6 | 55-135 | | 0 | | |
| Bromomethane | 1438 | 100 | 1000 | 0 | 144 | 50-170 | | 0 | | |
| Carbon disulfide | 979.5 | 30 | 1000 | 0 | 98 | 45-160 | | 0 | | |
| Carbon tetrachloride | 853 | 30 | 1000 | 0 | 85.3 | 65-135 | | 0 | | |
| Chlorobenzene | 975.5 | 30 | 1000 | 0 | 97.6 | 75-125 | | 0 | | |
| Chloroethane | 1268 | 100 | 1000 | 0 | 127 | 40-155 | | 0 | | |
| Chloroform | 919.5 | 30 | 1000 | 0 | 92 | 66-140 | | 0 | | |
| Chloromethane | 685 | 100 | 1000 | 0 | 68.5 | 50-144 | | 0 | | |
| cis-1,2-Dichloroethene | 928 | 30 | 1000 | 0 | 92.8 | 65-125 | | 0 | | |
| cis-1,3-Dichloropropene | 860.5 | 30 | 1000 | 0 | 86 | 70-125 | | 0 | | |
| Dibromochloromethane | 784.5 | 30 | 1000 | 0 | 78.4 | 65-135 | | 0 | | |
| Dibromomethane | 1008 | 30 | 1000 | 0 | 101 | 75-130 | | 0 | | |
| Dichlorodifluoromethane | 1135 | 100 | 1000 | 0 | 114 | 35-135 | | 0 | | |
| Diethyl ether | 966 | 30 | 1000 | 0 | 96.6 | 67-150 | | 0 | | |
| Ethylbenzene | 971.5 | 30 | 1000 | 0 | 97.2 | 75-125 | | 0 | | |
| Hexachloroethane | 873 | 100 | 1000 | 0 | 87.3 | 51-122 | | 0 | | |
| Isopropylbenzene | 987 | 30 | 1000 | 0 | 98.7 | 75-130 | | 0 | | |
| m,p-Xylene | 1934 | 60 | 2000 | 0 | 96.7 | 80-125 | | 0 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

| Batch ID: 163493 | Instrument ID VMS7 | Method: SW8260C | | | | | |
|------------------------------------|---------------------------|------------------------|------|---|------|--------|---|
| Methyl tert-butyl ether | 917.5 | 30 | 1000 | 0 | 91.8 | 75-125 | 0 |
| Methylene chloride | 796 | 250 | 1000 | 0 | 79.6 | 55-145 | 0 |
| Naphthalene | 727.5 | 100 | 1000 | 0 | 72.8 | 40-140 | 0 |
| n-Propylbenzene | 907.5 | 30 | 1000 | 0 | 90.8 | 65-135 | 0 |
| o-Xylene | 985.5 | 30 | 1000 | 0 | 98.6 | 75-125 | 0 |
| Styrene | 926.5 | 30 | 1000 | 0 | 92.6 | 80-138 | 0 |
| Tetrachloroethene | 1061 | 30 | 1000 | 0 | 106 | 67-167 | 0 |
| Toluene | 962 | 30 | 1000 | 0 | 96.2 | 70-125 | 0 |
| trans-1,2-Dichloroethene | 957.5 | 30 | 1000 | 0 | 95.8 | 65-135 | 0 |
| trans-1,3-Dichloropropene | 815.5 | 30 | 1000 | 0 | 81.6 | 59-129 | 0 |
| Trichloroethene | 974.5 | 30 | 1000 | 0 | 97.4 | 75-125 | 0 |
| Trichlorofluoromethane | 816 | 30 | 1000 | 0 | 81.6 | 25-185 | 0 |
| Vinyl chloride | 1014 | 30 | 1000 | 0 | 101 | 60-125 | 0 |
| Xylenes, Total | 2919 | 90 | 3000 | 0 | 97.3 | 75-125 | 0 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 975.5 | 0 | 1000 | 0 | 97.6 | 70-130 | 0 |
| <i>Surr: 4-Bromofluorobenzene</i> | 1013 | 0 | 1000 | 0 | 101 | 70-130 | 0 |
| <i>Surr: Dibromofluoromethane</i> | 1037 | 0 | 1000 | 0 | 104 | 70-130 | 0 |
| <i>Surr: Toluene-d8</i> | 996.5 | 0 | 1000 | 0 | 99.6 | 70-130 | 0 |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163493** Instrument ID **VMS7** Method: **SW8260C**

| MS | Sample ID: 20090023-04A MS | | | Units: µg/Kg-dry | | Analysis Date: 9/4/2020 02:09 AM | | | |
|-----------------------------|-----------------------------------|---------|---------------------|-------------------------|------|---|---------------|------|-----------|
| | Client ID: | Run ID: | VMS7_200903B | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit |
| Analyte | Result | PQL | SPK Val | | | | | | Qual |
| 1,1,1,2-Tetrachloroethane | 978.1 | 36 | 1186 | 0 | 82.5 | 75-125 | | 0 | |
| 1,1,1-Trichloroethane | 1183 | 36 | 1186 | 0 | 99.8 | 70-135 | | 0 | |
| 1,1,2,2-Tetrachloroethane | 1090 | 36 | 1186 | 0 | 91.9 | 55-130 | | 0 | |
| 1,1,2-Trichloroethane | 1156 | 36 | 1186 | 0 | 97.5 | 60-125 | | 0 | |
| 1,1-Dichloroethane | 1074 | 36 | 1186 | 0 | 90.6 | 75-125 | | 0 | |
| 1,1-Dichloroethene | 1245 | 36 | 1186 | 0 | 105 | 76-148 | | 0 | |
| 1,2,3-Trichloropropane | 1071 | 36 | 1186 | 9.691 | 89.5 | 65-130 | | 0 | |
| 1,2,4-Trichlorobenzene | 1040 | 120 | 1186 | 15.75 | 86.4 | 65-130 | | 0 | |
| 1,2,4-Trimethylbenzene | 1158 | 36 | 1186 | 164.8 | 83.8 | 65-135 | | 0 | |
| 1,2-Dibromo-3-chloropropane | 857.8 | 120 | 1186 | 27.26 | 70.1 | 40-135 | | 0 | |
| 1,2-Dibromoethane | 1056 | 36 | 1186 | 0 | 89.1 | 80-195 | | 0 | |
| 1,2-Dichlorobenzene | 1148 | 36 | 1186 | 0 | 96.9 | 75-120 | | 0 | |
| 1,2-Dichloroethane | 1101 | 120 | 1186 | 0 | 92.9 | 70-135 | | 0 | |
| 1,2-Dichloropropane | 1095 | 36 | 1186 | 0 | 92.4 | 70-120 | | 0 | |
| 1,3,5-Trimethylbenzene | 1186 | 120 | 1186 | 52.7 | 95.6 | 65-135 | | 0 | |
| 1,3-Dichlorobenzene | 1122 | 36 | 1186 | 0 | 94.6 | 70-125 | | 0 | |
| 1,4-Dichlorobenzene | 1107 | 36 | 1186 | 0 | 93.4 | 70-125 | | 0 | |
| 2-Butanone | 1163 | 240 | 1186 | 54.51 | 93.5 | 30-160 | | 0 | |
| 2-Hexanone | 1173 | 36 | 1186 | 0 | 98.9 | 45-145 | | 0 | |
| 4-Methyl-2-pentanone | 1452 | 36 | 1186 | 0 | 123 | 74-176 | | 0 | |
| Acetone | 2002 | 120 | 1186 | 0 | 169 | 20-160 | | 0 | S |
| Acrylonitrile | 1110 | 120 | 1186 | 0 | 93.7 | 70-135 | | 0 | |
| Benzene | 1158 | 36 | 1186 | 21.81 | 95.8 | 75-125 | | 0 | |
| Bromodichloromethane | 969.8 | 36 | 1186 | 0 | 81.8 | 70-130 | | 0 | |
| Bromoform | 725.6 | 36 | 1186 | 0 | 61.2 | 55-135 | | 0 | |
| Bromomethane | 1283 | 120 | 1186 | 0 | 108 | 50-170 | | 0 | |
| Carbon disulfide | 1117 | 36 | 1186 | 0 | 94.3 | 45-160 | | 0 | |
| Carbon tetrachloride | 957.4 | 36 | 1186 | 0 | 80.8 | 65-135 | | 0 | |
| Chlorobenzene | 1146 | 36 | 1186 | 0 | 96.7 | 75-125 | | 0 | |
| Chloroethane | 152.9 | 120 | 1186 | 0 | 12.9 | 40-155 | | 0 | S |
| Chloroform | 1101 | 36 | 1186 | 0 | 92.8 | 66-140 | | 0 | |
| Chloromethane | 903.4 | 120 | 1186 | 23.62 | 74.2 | 50-144 | | 0 | |
| cis-1,2-Dichloroethene | 1114 | 36 | 1186 | 0 | 94 | 65-125 | | 0 | |
| cis-1,3-Dichloropropene | 969.8 | 36 | 1186 | 0 | 81.8 | 70-125 | | 0 | |
| Dibromochloromethane | 793.8 | 36 | 1186 | 0 | 67 | 65-135 | | 0 | |
| Dibromomethane | 1144 | 36 | 1186 | 0 | 96.5 | 75-130 | | 0 | |
| Dichlorodifluoromethane | 1525 | 120 | 1186 | 0 | 129 | 35-135 | | 0 | |
| Diethyl ether | 1187 | 36 | 1186 | 0 | 100 | 67-150 | | 0 | |
| Ethylbenzene | 1153 | 36 | 1186 | 55.12 | 92.6 | 75-125 | | 0 | |
| Hexachloroethane | 944.3 | 120 | 1186 | 8.48 | 78.9 | 51-122 | | 0 | |
| Isopropylbenzene | 1202 | 36 | 1186 | 23.62 | 99.4 | 75-130 | | 0 | |
| m,p-Xylene | 2324 | 71 | 2371 | 245.9 | 87.6 | 80-125 | | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

| Batch ID: 163493 | Instrument ID VMS7 | Method: SW8260C | | | | | |
|------------------------------------|---------------------------|------------------------|------|-------|------|--------|---|
| Methyl tert-butyl ether | 1135 | 36 | 1186 | 0 | 95.8 | 75-125 | 0 |
| Methylene chloride | 995.3 | 300 | 1186 | 15.14 | 82.7 | 55-145 | 0 |
| Naphthalene | 1069 | 120 | 1186 | 323.4 | 62.9 | 40-140 | 0 |
| n-Propylbenzene | 1095 | 36 | 1186 | 39.37 | 89 | 65-135 | 0 |
| o-Xylene | 1200 | 36 | 1186 | 167.2 | 87.1 | 75-125 | 0 |
| Styrene | 1091 | 36 | 1186 | 16.35 | 90.6 | 80-138 | 0 |
| Tetrachloroethene | 1790 | 36 | 1186 | 41.79 | 147 | 67-167 | 0 |
| Toluene | 1120 | 36 | 1186 | 164.8 | 80.6 | 70-125 | 0 |
| trans-1,2-Dichloroethene | 1178 | 36 | 1186 | 0 | 99.4 | 65-135 | 0 |
| trans-1,3-Dichloropropene | 905.2 | 36 | 1186 | 24.23 | 74.3 | 59-129 | 0 |
| Trichloroethene | 1178 | 36 | 1186 | 26.05 | 97.2 | 75-125 | 0 |
| Trichlorofluoromethane | 827.5 | 36 | 1186 | 0 | 69.8 | 25-185 | 0 |
| Vinyl chloride | 1363 | 36 | 1186 | 0 | 115 | 60-125 | 0 |
| Xylenes, Total | 3524 | 110 | 3557 | 420 | 87.3 | 75-125 | 0 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 1147 | 0 | 1186 | 0 | 96.8 | 70-130 | 0 |
| <i>Surr: 4-Bromofluorobenzene</i> | 1190 | 0 | 1186 | 0 | 100 | 70-130 | 0 |
| <i>Surr: Dibromofluoromethane</i> | 1115 | 0 | 1186 | 0 | 94.1 | 70-130 | 0 |
| <i>Surr: Toluene-d8</i> | 1144 | 0 | 1186 | 0 | 96.5 | 70-130 | 0 |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163493** Instrument ID **VMS7** Method: **SW8260C**

| MSD | | Sample ID: 20090023-04A MSD | | | Units: µg/Kg-dry | | Analysis Date: 9/4/2020 02:26 AM | | | |
|-----------------------------|--------|------------------------------------|---------|---------------|-------------------------|---------------|---|--------|--------------|------|
| Client ID: | | Run ID: VMS7_200903B | | | SeqNo: 6683785 | | Prep Date: 9/1/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1,2-Tetrachloroethane | 997.2 | 36 | 1190 | 0 | 83.8 | 75-125 | 978.1 | 1.93 | 30 | |
| 1,1,1-Trichloroethane | 1175 | 36 | 1190 | 0 | 98.7 | 70-135 | 1183 | 0.687 | 30 | |
| 1,1,2,2-Tetrachloroethane | 1042 | 36 | 1190 | 0 | 87.5 | 55-130 | 1090 | 4.48 | 30 | |
| 1,1,2-Trichloroethane | 1172 | 36 | 1190 | 0 | 98.4 | 60-125 | 1156 | 1.34 | 30 | |
| 1,1-Dichloroethane | 1076 | 36 | 1190 | 0 | 90.4 | 75-125 | 1074 | 0.205 | 30 | |
| 1,1-Dichloroethene | 1212 | 36 | 1190 | 0 | 102 | 76-148 | 1245 | 2.67 | 30 | |
| 1,2,3-Trichloropropane | 1111 | 36 | 1190 | 9.691 | 92.6 | 65-130 | 1071 | 3.75 | 30 | |
| 1,2,4-Trichlorobenzene | 1041 | 120 | 1190 | 15.75 | 86.1 | 65-130 | 1040 | 0.0846 | 30 | |
| 1,2,4-Trimethylbenzene | 1148 | 36 | 1190 | 164.8 | 82.6 | 65-135 | 1158 | 0.866 | 30 | |
| 1,2-Dibromo-3-chloropropane | 874.6 | 120 | 1190 | 27.26 | 71.2 | 40-135 | 857.8 | 1.95 | 30 | |
| 1,2-Dibromoethane | 1095 | 36 | 1190 | 0 | 92 | 80-195 | 1056 | 3.63 | 30 | |
| 1,2-Dichlorobenzene | 1123 | 36 | 1190 | 0 | 94.3 | 75-120 | 1148 | 2.24 | 30 | |
| 1,2-Dichloroethane | 1095 | 120 | 1190 | 0 | 92 | 70-135 | 1101 | 0.549 | 30 | |
| 1,2-Dichloropropane | 1106 | 36 | 1190 | 0 | 92.9 | 70-120 | 1095 | 0.91 | 30 | |
| 1,3,5-Trimethylbenzene | 1186 | 120 | 1190 | 52.7 | 95.2 | 65-135 | 1186 | 0.0304 | 30 | |
| 1,3-Dichlorobenzene | 1116 | 36 | 1190 | 0 | 93.8 | 70-125 | 1122 | 0.478 | 30 | |
| 1,4-Dichlorobenzene | 1125 | 36 | 1190 | 0 | 94.5 | 70-125 | 1107 | 1.59 | 30 | |
| 2-Butanone | 1410 | 240 | 1190 | 54.51 | 114 | 30-160 | 1163 | 19.2 | 30 | |
| 2-Hexanone | 1305 | 36 | 1190 | 0 | 110 | 45-145 | 1173 | 10.7 | 30 | |
| 4-Methyl-2-pentanone | 1421 | 36 | 1190 | 0 | 119 | 74-176 | 1452 | 2.19 | 30 | |
| Acetone | 2400 | 120 | 1190 | 0 | 202 | 20-160 | 2002 | 18 | 30 | S |
| Acrylonitrile | 1074 | 120 | 1190 | 0 | 90.2 | 70-135 | 1110 | 3.33 | 30 | |
| Benzene | 1156 | 36 | 1190 | 21.81 | 95.3 | 75-125 | 1158 | 0.143 | 30 | |
| Bromodichloromethane | 986.5 | 36 | 1190 | 0 | 82.9 | 70-130 | 969.8 | 1.71 | 30 | |
| Bromoform | 737.2 | 36 | 1190 | 0 | 61.9 | 55-135 | 725.6 | 1.59 | 30 | |
| Bromomethane | 1152 | 120 | 1190 | 0 | 96.8 | 50-170 | 1283 | 10.8 | 30 | |
| Carbon disulfide | 1116 | 36 | 1190 | 0 | 93.7 | 45-160 | 1117 | 0.161 | 30 | |
| Carbon tetrachloride | 935.9 | 36 | 1190 | 0 | 78.6 | 65-135 | 957.4 | 2.26 | 30 | |
| Chlorobenzene | 1140 | 36 | 1190 | 0 | 95.8 | 75-125 | 1146 | 0.564 | 30 | |
| Chloroethane | 130.3 | 120 | 1190 | 0 | 11 | 40-155 | 152.9 | 16 | 30 | S |
| Chloroform | 1105 | 36 | 1190 | 0 | 92.8 | 66-140 | 1101 | 0.371 | 30 | |
| Chloromethane | 875.2 | 120 | 1190 | 23.62 | 71.6 | 50-144 | 903.4 | 3.17 | 30 | |
| cis-1,2-Dichloroethene | 1122 | 36 | 1190 | 0 | 94.3 | 65-125 | 1114 | 0.689 | 30 | |
| cis-1,3-Dichloropropene | 950.8 | 36 | 1190 | 0 | 79.9 | 70-125 | 969.8 | 1.98 | 30 | |
| Dibromochloromethane | 799.1 | 36 | 1190 | 0 | 67.1 | 65-135 | 793.8 | 0.669 | 30 | |
| Dibromomethane | 1161 | 36 | 1190 | 0 | 97.6 | 75-130 | 1144 | 1.5 | 30 | |
| Dichlorodifluoromethane | 1428 | 120 | 1190 | 0 | 120 | 35-135 | 1525 | 6.59 | 30 | |
| Diethyl ether | 1167 | 36 | 1190 | 0 | 98 | 67-150 | 1187 | 1.75 | 30 | |
| Ethylbenzene | 1147 | 36 | 1190 | 55.12 | 91.7 | 75-125 | 1153 | 0.559 | 30 | |
| Hexachloroethane | 956.2 | 120 | 1190 | 8.48 | 79.6 | 51-122 | 944.3 | 1.25 | 30 | |
| Isopropylbenzene | 1202 | 36 | 1190 | 23.62 | 99 | 75-130 | 1202 | 0.025 | 30 | |
| m,p-Xylene | 2320 | 71 | 2380 | 245.9 | 87.2 | 80-125 | 2324 | 0.141 | 30 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

| Batch ID: 163493 | Instrument ID VMS7 | Method: SW8260C | | | | | | | |
|------------------------------------|---------------------------|------------------------|------|-------|------|--------|-------|-------|----|
| Methyl tert-butyl ether | 1119 | 36 | 1190 | 0 | 94 | 75-125 | 1135 | 1.42 | 30 |
| Methylene chloride | 983.5 | 300 | 1190 | 15.14 | 81.4 | 55-145 | 995.3 | 1.19 | 30 |
| Naphthalene | 1111 | 120 | 1190 | 323.4 | 66.2 | 40-140 | 1069 | 3.86 | 30 |
| n-Propylbenzene | 1075 | 36 | 1190 | 39.37 | 87 | 65-135 | 1095 | 1.87 | 30 |
| o-Xylene | 1169 | 36 | 1190 | 167.2 | 84.2 | 75-125 | 1200 | 2.69 | 30 |
| Styrene | 1094 | 36 | 1190 | 16.35 | 90.6 | 80-138 | 1091 | 0.316 | 30 |
| Tetrachloroethene | 2112 | 36 | 1190 | 41.79 | 174 | 67-167 | 1790 | 16.5 | 30 |
| Toluene | 1135 | 36 | 1190 | 164.8 | 81.6 | 70-125 | 1120 | 1.37 | 30 |
| trans-1,2-Dichloroethene | 1170 | 36 | 1190 | 0 | 98.3 | 65-135 | 1178 | 0.692 | 30 |
| trans-1,3-Dichloropropene | 888.3 | 36 | 1190 | 24.23 | 72.6 | 59-129 | 905.2 | 1.88 | 30 |
| Trichloroethene | 1245 | 36 | 1190 | 26.05 | 102 | 75-125 | 1178 | 5.47 | 30 |
| Trichlorofluoromethane | 857.4 | 36 | 1190 | 0 | 72 | 25-185 | 827.5 | 3.54 | 30 |
| Vinyl chloride | 1329 | 36 | 1190 | 0 | 112 | 60-125 | 1363 | 2.59 | 30 |
| Xylenes, Total | 3489 | 110 | 3570 | 420 | 86 | 75-125 | 3524 | 1 | 30 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 1173 | 0 | 1190 | 0 | 98.5 | 70-130 | 1147 | 2.21 | 30 |
| <i>Surr: 4-Bromofluorobenzene</i> | 1192 | 0 | 1190 | 0 | 100 | 70-130 | 1190 | 0.171 | 30 |
| <i>Surr: Dibromofluoromethane</i> | 1144 | 0 | 1190 | 0 | 96.1 | 70-130 | 1115 | 2.53 | 30 |
| <i>Surr: Toluene-d8</i> | 1183 | 0 | 1190 | 0 | 99.4 | 70-130 | 1144 | 3.33 | 30 |

The following samples were analyzed in this batch:

20090017-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

Batch ID: **163507** Instrument ID **GALLERY** Method: **A4500-CI E-11**

| Sample ID: MBLK-163507-163507 | | | | Units: mg/Kg | | Analysis Date: 9/2/2020 01:30 PM | | | | |
|--------------------------------------|--------|--------------------------------|---------|-----------------------|------|---|---------------|--------------|-----------|------|
| Client ID: | | Run ID: GALLERY_200902A | | SeqNo: 6679668 | | Prep Date: 9/1/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | ND | 10 | | | | | | | | |
| Sample ID: 20090013-01AMS | | | | Units: mg/Kg | | Analysis Date: 9/2/2020 01:30 PM | | | | |
| Client ID: | | Run ID: GALLERY_200902A | | SeqNo: 6679679 | | Prep Date: 9/1/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 508 | 9.9 | 497 | 0.6048 | 102 | 86-114 | 0 | | | |
| Sample ID: 20090013-01AMSD | | | | Units: mg/Kg | | Analysis Date: 9/2/2020 01:30 PM | | | | |
| Client ID: | | Run ID: GALLERY_200902A | | SeqNo: 6679680 | | Prep Date: 9/1/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 506.8 | 10 | 498 | 0.6048 | 102 | 86-114 | 508 | 0.232 | 10 | |
| Sample ID: LCS1-163507-163507 | | | | Units: mg/Kg | | Analysis Date: 9/2/2020 01:30 PM | | | | |
| Client ID: | | Run ID: GALLERY_200902A | | SeqNo: 6679690 | | Prep Date: 9/1/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 97.36 | 10 | 100 | 0 | 97.4 | 86-114 | 0 | | | |
| Sample ID: LCS2-163507-163507 | | | | Units: mg/Kg | | Analysis Date: 9/2/2020 01:30 PM | | | | |
| Client ID: | | Run ID: GALLERY_200902A | | SeqNo: 6679691 | | Prep Date: 9/1/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 496.9 | 10 | 500 | 0 | 99.4 | 88-112 | 0 | | | |

The following samples were analyzed in this batch:

20090017-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 26 of 27

Client: AKT Peerless
Work Order: 20090017
Project: 8997f5-5-10.4

QC BATCH REPORT

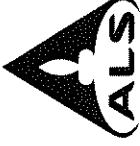
Batch ID: **R297417** Instrument ID **MOIST** Method: **SW3550C**

| MBLK | | | | Sample ID: WBLKS-R297417 | | | Units: % of sample | | Analysis Date: 9/3/2020 01:55 PM | | |
|---|--------|------------------------------|---------|------------------------------------|------|---------------|--------------------|--------------|---|------|--|
| Client ID: | | Run ID: MOIST_200903B | | SeqNo: 6683452 | | Prep Date: | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Moisture | ND | | 0.10 | | | | | | | | |
| LCS | | | | Sample ID: LCS-R297417 | | | Units: % of sample | | Analysis Date: 9/3/2020 01:55 PM | | |
| Client ID: | | Run ID: MOIST_200903B | | SeqNo: 6683451 | | Prep Date: | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Moisture | 100 | 0.10 | 100 | | 0 | 100 | 98-102 | | 0 | | |
| DUP | | | | Sample ID: 20090017-01B DUP | | | Units: % of sample | | Analysis Date: 9/3/2020 01:55 PM | | |
| Client ID: 13047 Maiden-TS-Composite | | Run ID: MOIST_200903B | | SeqNo: 6683437 | | Prep Date: | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Moisture | 12.13 | 0.10 | 0 | | 0 | 0 | 0-0 | | 12.43 | 2.44 | |
| DUP | | | | Sample ID: 20090104-01B DUP | | | Units: % of sample | | Analysis Date: 9/3/2020 01:55 PM | | |
| Client ID: | | Run ID: MOIST_200903B | | SeqNo: 6683450 | | Prep Date: | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Moisture | 5.46 | 0.10 | 0 | | 0 | 0 | 0-0 | | 5.09 | 7.01 | |

The following samples were analyzed in this batch:

20090017-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Chain of Custody Form

Cincinnati, OH Fort Collins, CO
+1 513 733 5336 +1 970 490 1511

Everett, WA Holland, MI
+1 425 356 2600 +1 616 399 6070

Houston, TX Spring City, PA
+1 281 550 5656 +1 610 948 4903

Middletown, PA Salt Lake City, UT
+1 717 944 5541 +1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

COC ID: 223350

| Customer Information | | Project Information | | ALS Project Manager: | | ALS Work Order #: | | Parameter/Method Request for Analysis | | | | | | | | | |
|--------------------------------|--|---|-------------------------------|--|----------------------------|--|---|---|---|---|---|---|---|---|---|---|------|
| Purchase Order | | Project Name | | A | VOCs | | | I | J | | | | | | | | |
| Work Order | | Project Number | 8997F5-5-10.4 | B | SVOCs | | | K | L | | | | | | | | |
| Company Name | AKT Peerless | Bill To Company | AKT Peerless | C | PCBs | | | M | N | | | | | | | | |
| Send Report To | <i>Megan Napior</i> | Invoice Attn | Accounts Payable | D | MT-10 metals | | | O | P | | | | | | | | |
| Address | 22725 Orchard Lake Road | Address | 214 Janes Avenue | E | Chloride | | | Q | R | | | | | | | | |
| City/State/Zip | Farmington, MI 48336 | City/State/Zip | Saginaw, MI 48607 | G | Herbicides & Pesticides | | | S | T | | | | | | | | |
| Phone | (248) 615-1333 | Phone | (989) 754-9896 | H | | | | U | V | | | | | | | | |
| Fax | cooker@aktpeerless.com | Fax | | I | | | | W | X | | | | | | | | |
| e-Mail Address | napior.m@aktpeerless.com | e-Mail Address | | J | | | | Y | Z | | | | | | | | |
| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
| 1 | 13047 Maiden-TS-Composite | 8/31/2020 | 9:38 AM | Soil | MEOH | 3 | X | X | X | X | X | X | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| Sampler(s) Please Print & Sign | | Shipment Method | | Required Turnaround Time: (Check Box) | | | | | | | | | | | | | |
| <i>Sean Brickle</i> | | Received by: <i>Sean Brickle</i> | | <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other | | | | | | | | | | | | | |
| Relinquished by: | <i>Sean Brickle</i> | Date: <i>8/31/20</i> | Time: <i>3:55P</i> | Received by (Laboratory): <i>8/31/20 3:55P</i> | Time: <i>8/31/20 3:55P</i> | Notes: <i>to ISO send report to bricks@akt</i> | | Results Due Date: | | | | | | | | | |
| Relinquished by: | <i>AA</i> | Date: <i>8/31/20</i> | Time: <i>3:24P</i> | Received by (Laboratory): <i>8/31/20 3:24P</i> | Time: <i>8/31/20 3:24P</i> | Cooler ID: <i>123</i> | | QC Package: (Check One Box Below) | | | | | | | | | |
| Released by (Laboratory): | <i>AA</i> | Date: <i>9/1/20</i> | Time: <i>0945</i> | Checked by (Laboratory): <i>AA</i> | Time: <i>9/1/20 0945</i> | Cooler ID: <i>123</i> | | <input checked="" type="checkbox"/> Level II Std QC | <input type="checkbox"/> TRRP Checklist | | | | | | | | |
| Preservative Key: | 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ | 4-NaOH 5-Na ₂ S ₂ O ₃ | 6-NaHSO ₄ 7-Others | | | Cooler ID: <i>123</i> | | <input type="checkbox"/> Level III Std QC/Raw Data | <input type="checkbox"/> TRRP Level IV | | | | | | | | |
| | | | | | | Cooler ID: <i>123</i> | | <input type="checkbox"/> Level IV SW846/CLP | | | | | | | | | |
| | | | | | | Cooler ID: <i>123</i> | | <input type="checkbox"/> Other | | | | | | | | | |

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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9/1/20 0830

Sample Receipt ChecklistClient Name: **AKT PEERLESS - FARMINGTON**Date/Time Received: **01-Sep-20 08:30**Work Order: **20090017**Received by: **KRW**Checklist completed by *Keith Warenja*
eSignature

01-Sep-20

Date

Reviewed by: *Bill Carey*
eSignature

01-Sep-20

Date

Matrices: **Soil**Carrier name: **Courier**

| | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample(s) received on ice? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temperature(s)/Thermometer(s): | <u>2.4/3.4 c</u> <input type="checkbox"/> <u>IR3</u> <input type="checkbox"/> | | |
| Cooler(s)/Kit(s): | <input type="checkbox"/> | | |
| Date/Time sample(s) sent to storage: | <u>9/1/2020 9:43:37 AM</u> <input type="checkbox"/> | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| pH adjusted? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| pH adjusted by: | <input type="checkbox"/> | | |

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: