TETRA TECH

May 9, 2013

Mr. Todd Davis
Site Assessment Manager
U.S. Environmental Protection Agency, Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

Subject: Phase II Targeted Brownfields Assessment
KCMO Municipal Farms
Animal Shelter Facility at 4400 Raytown Road in Kansas City, Missouri
EPA Region 7, START 3, Contract No. EP-S7-06-01, Task Order No. 0002.015.022
Task Monitor: Todd Davis, Site Assessment Team Leader

Dear Mr. Davis:

Tetra Tech, Inc. is submitting the attached Phase II Targeted Brownfields Assessment (TBA) report regarding the Animal Shelter facility in Kansas City, Missouri. The TBA includes investigations to confirm or eliminate recognized environmental conditions specified in the Phase I TBA report prepared in December 2012.

If you have any questions or comments regarding this submittal, please call the project manager at (816) 412-1788.

Sincerely,

David Zimmermann, CHMM
START Project Manager

Ted Faile, PG, CHMM
START Program Manager

Enclosures

cc: Roy Crossland, START Project Officer (cover letter only)

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PHASE II TARGETED BROWNFIELDS ASSESSMENT REPORT

ANIMAL SHELTER FACILITY
4400 RAYTOWN ROAD, KANSAS CITY, MISSOURI

Superfund Technical Assessment and Response Team (START) 3

Contract No. EP-S7-06-01, Task Order No. 0002.015.022

Prepared For:

U.S. Environmental Protection Agency
Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

May 9, 2013

Prepared By:

Tetra Tech, Inc.
415 Oak Street
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CONTENTS

CONTENTS (Continued)

APPENDICES

EXECUTIVE SUMMARY

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase II Targeted Brownfields Assessment (TBA) of the approximately 1.9-acre Animal Shelter at 4400 Raytown Road in Kansas City, Jackson County, Missouri (subject property). The TBA also included a hazardous materials survey including an asbestos survey, lead-based paint (LBP) survey, and a household hazardous waste inventory. The animal shelter site is part of the Municipal Farms, a large-scale redevelopment project by the City of Kansas City, Missouri (City). The City requested assessment assistance under the TBA program from EPA Region 7 for assessment prior to redevelopment. START conducted this Phase II TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, ASTM International (ASTM) designation E1903-97-11, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312) (ASTM 2011).

Tetra Tech EM Inc. conducted a Phase I TBA of the subject property in December 2012, identifying the following environmental concerns and recognized environmental conditions (REC) associated with the subject property (Tetra Tech EM Inc. 2012).

- Interviews and historical documentation revealed that the City of Kansas City Health Emergency Hazmat Site (HEHS) is closely proximate to the subject property. In the mid-1980s, the City Health Department began to use a small, rectangular, fenced-in area including two structures to store household hazardous waste (HHW), school laboratory waste, and other hazardous wastes generated by City operations and hazardous materials (hazmat) cleanups. This site was not permitted to accept or store hazardous waste. A deed restriction has been filed regarding the HEHS property. Based on the location of this facility upgradient of the subject property, it poses a REC to the subject property.

- Based on historical and current use of the subject property as an animal shelter, storage of animal food there likely was accompanied by use of pesticides and rodenticides. Possible presence of pesticide and/or rodenticide contamination poses a REC to the subject property.

- Environmental Advisors and Engineers, Inc. [EAE] prepared an Area Wide Brownfields Plan (AWBP) for the Municipal Farms properties to be used to facilitate sustainable reuse and development of the area. Based on available information, possibly present contaminants within these conceptual land use plan (CLUP) areas covering the subject property would have derived from applications of herbicides and pesticides, vehicle and machinery maintenance, storage tanks, hazardous waste storage at HEHS, rodenticides, and other Municipal Farm activities.

- The Municipal Farm Sustainable Reuse Plan, prepared by the City and several stakeholders, provides a path to revitalize the city-owned property at Municipal Farm. That Plan recommended the following: (1) a preliminary environmental assessment of the former agricultural use areas and

the Kansas City Missouri Animal Shelter; (2) an evaluation of ongoing practices in the operation of on-site animal incinerators for compliance with the Air Pollution Operating Permit; (3) an evaluation of procedures for use, storage, and handling of any hazmat such as rodenticides for compliance with federal and state regulations; and (4) additional investigations of former croplands, including sampling of sediment at the drainage relief point downgradient of most of the area (a biased sampling location).

To summarize, possible presence of hazardous waste contamination derived from incineration of medical waste and deceased animals, and possible current and past uses of rodenticides and/or pesticides at the subject property pose RECs to the subject property. Moreover, past unpermitted storage of hazardous waste at the HEHS facility (derived from school laboratory waste), other hazardous wastes generated by City operations and hazmat cleanups there, and location of that facility upgradient of the subject property pose RECs to the subject property.

The purpose of this Phase II TBA was to determine if historical activities at the subject property and upgradient had impacted soils and groundwater at and around RECs. During this Phase II TBA at the subject property, soil samples were collected to determine environmental impacts. Analytical results were compared to EPA Regional Screening Levels (RSL) for residential soil and industrial soil, and to Missouri Risk-Based Corrective Action (MRBCA) Tier 1 target levels for residential and non-residential land use for clayey soil types.

Findings and recommendations are as follows:

Sampling during this Phase II TBA detected twelve priority pollutant metals and two semivolatile organic compounds (SVOC) in the soil at the subject property. However, the antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium and zinc concentrations detected in the soil were well below MRBCA Tier 1 target level for non-residential clayey soil and the mean background concentration for Jackson County, Missouri (United States Geological Survey [USGS] 2012a). Although benzo(a)pyrene was detected at concentrations above the EPA RSL residential benchmark values in two surface soil sample (SS-1 and SS-2), and benzo(b)fluoranthene was detected at concentrations above the EPA RSL residential benchmark values in one surface soil sample (SS-2), these compounds are commonly found in urban environments. Common sources of these SVOCs are: vehicle exhaust and pavement sealcoat (potentially from the asphalt paving surrounding the subject property and the animal control vehicles that frequently drive through the area around surface soil samples SS-1 and SS-2). The concentrations exceed only one benchmark and therefore do not pose a REC to the subject property. No further soil or groundwater sampling is recommended at the subject property.

In the hazardous materials survey portion of the Phase II TBA, the following materials were found to contain asbestos:

- Approximately 2,200 square feet of mastic associated with 12 X 12 tan floor tile in the bathrooms, throughout the office and cat area, and in the reception room inside the subject property building.

- Approximately 400 square feet of Transite® ceiling tile in the caged dog room inside the subject property building.

- Approximately 180 square feet of 12 X 12 tan floor tile and associated mastic in the behavior observation room inside the subject property building.

Because of the asbestos in the floor tiles and ceiling tile, the floor tiles and ceiling tile should be removed by a licensed asbestos abatement contractor before any renovation and/or demolition work disturbs the floor tiles and ceiling tile. The removed waste must be transported to a disposal site able to accept non-friable asbestos containing material (ACM). If the building is to be renovated and the floor tile and ceiling tile are not to be disturbed, these may remain in place.

- Approximately 250 square feet of paint on the metal support beams in the kennel tested positive for LBP by use of the x-ray fluorescence (XRF) spectrometer. The XRF results indicated a level of 3.2 milligrams per square centimeter (mg/cm^2) of lead in the paint. The Department of Housing and Urban Development (HUD) considers a lead concentration above 1.0 mg/cm^2 to be LBP. If the LBP surfaces are impacted during the renovations and/or demolition, START recommends the contractor conducting the renovations/demolition comply with the Occupational Safety and Health Administration (OSHA) Lead in Construction Standard, Title 29 of CFR, Part 1926.62. If the materials containing LBP are removed during renovation activities, a sample should be collected from the debris pile for a Toxicity Characteristic Leaching Procedure (TCLP) analysis (Title 40 CFR 261.24); representative samples should be collected and analyzed for all eight metals specified in 40 CFR Part 261.24 (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver). This would determine the proper method of disposal of the materials. The renovation contractor must also remove peeling and chipping paint from any damaged LBP surfaces on these walls in the subject property building prior to demolition or remodeling.

1.0 INTRODUCTION

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase II Targeted Brownfields Assessment (TBA) of the approximately 1.9-acre Animal Shelter at 4400 Raytown Road in Kansas City, Jackson County, Missouri (subject property). The TBA also included a hazardous materials survey including an asbestos survey, lead-based paint (LBP) survey, and a household hazardous waste inventory. The animal shelter site is part of the Municipal Farms, a large-scale redevelopment project by the City of Kansas City, Missouri (City). The City requested assessment assistance under the TBA program from EPA Region 7 for assessment prior to redevelopment. START conducted this Phase II TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, ASTM International (ASTM) designation E1903-97-11, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312) (ASTM 2011).

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the Kansas City Missouri Animal Shelter; (2) an evaluation of ongoing practices in the operation of on-site animal incinerators for compliance with the Air Pollution Operating Permit; (3) an evaluation of procedures for use, storage, and handling of any hazmat such as rodenticides for compliance with federal and state regulations; and (4) additional investigations of former croplands, including sampling of sediment at the drainage relief point downgradient of most of the area (a biased sampling location).

To summarize, possible current and past uses of rodenticides and/or pesticides at the subject property pose RECs to the subject property. Moreover, past unpermitted storage of hazardous waste at the HEHS facility (derived from school laboratory waste), other hazardous wastes generated by City operations and hazmat cleanups there, and location of that facility upgradient of the subject property pose RECs to the subject property.

1.1 PURPOSE

The purpose of this Phase II TBA was to determine if historical activities at the subject property and upgradient had impacted surface soils or groundwater at and around RECs. The subject property is currently occupied by an animal shelter. Historical records identify the subject property as an animal shelter as early as 1951. During this Phase II TBA at the subject property, surface soil and groundwater samples were collected to confirm or eliminate RECs. Analytical results were compared to EPA Regional Screening Levels (RSL) for residential soil and industrial soil, and to Missouri Risk-Based Corrective Action (MRBCA) default target levels and Tier 1 target levels for residential land use for clayey soil types.

1.2 SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions for the TBA.

2.0 BACKGROUND AND SITE HISTORY

This section provides a brief description of the site: the physical setting, including geology, hydrogeology, and hydrology; site history and land use; adjacent land use; and a summary of previous assessments.

2.1 SITE DESCRIPTION AND FEATURES

The subject property is an approximately1.9-acre tract of land at 4400 Raytown Road in Kansas City, Jackson County, Missouri (see Figure 1, Appendix A). According to the City of Kansas City, Missouri KC Mapper website, the property description for the tract of land that encompasses the subject property is "Sec 30-49-32 NW ¼, all that pt of NW ¼ ly E of Eastern Avenue and North of Ozark Road and swly of Raytown Road (ex W 180 thof)" (City 2012a). The subject property is depicted on the United States Geological Survey (USGS) 7.5-minute series Independence, Missouri topographic quadrangle map (USGS 1996) in northwest ¼, Section 30, Township 49 north, Range 32 west (see Figure 1, Appendix A). The coordinates at the approximate center of the property are 39° 2' 40.08" north latitude and 94° 29' 36.53" west longitude (Google Earth 2012).

The subject property is currently used as an animal shelter. The three buildings on the subject property are attached and encompass approximately 12,000 square feet (Tetra Tech EM Inc. 2012). A paved driveway from Raytown Road leads to the subject property buildings. A paved parking lot is outside the north and west sides of the subject property buildings, and a paved driveway circles all of the subject property buildings. A gravel road continues from the west parking lot and dead ends into forest land.

The subject property is currently occupied by an animal shelter. Exact dates of historical subject property use are unknown but can be approximated through review of historical records. Aerial photographs show the subject property developed as an animal shelter starting in 1955. City directories identify the subject property as an animal shelter as early as 1951 (Tetra Tech EM Inc. 2012).

2.2 PHYSICAL SETTING

The subject property is near a wooded area in Kansas City, Missouri. The subject property is bounded north by Raytown Road and the closed Raytown Road Landfill, with forest land beyond; east by forest land; south by forest land, with the former City of Kansas City, Missouri Municipal Farm and HEHS beyond; and west by forest land, with the Police Department Helicopter Maintenance Facility beyond. The subject property is in a stream valley, with the landfill across the stream to the north (see Figure 2, Appendix A).

Jackson County is within the west-central part of Missouri, in the Iowa and Missouri Deep Loess Hills Resource Area of the Central Feed Grains and Livestock Region of the United States. The Missouri River is the northern boundary of the county. The northern part of the county is the nearly level flood plain of the Missouri River. Adjacent to the flood plain and south are moderately sloping to steep, loess-covered bluffs and hills. The rest of the county consists of gently sloping to moderately sloping uplands and flood plains of the Blue River, Little Blue River, Sni-A-Bar Creek, and their tributaries (U.S. Department of Agriculture [USDA] 1984).

Elevations in Jackson County range from 1,105 feet above mean sea level (amsl) on the divide in the south-central part of the county to 690 feet amsl at normal water level on the Missouri River at the county line on the eastern side of the county (USDA 1984). Based on a review of the USGS 7.5-minute series Independence, Missouri, topographic quadrangle map (USGS 1996), the subject property ranges from approximately 886 to 920 feet amsl. The subject property appears flat to gently sloping. Area topography slopes north and northeast toward Round Grove Creek.

2.2.1 Geologic Setting

Soils on the subject property consist of Knox-Urban Land complex and Knox silty clay loam. The Knox Urban Land complex has 5- to 9-percent slopes. The typical soil profile is 0 to 6 inches silt loam, 6 to 46 inches silty clay loam, and 46 to 80 inches silt loam. The Knox silty clay loam has 9- to 14-percent slopes that are severely eroded. The typical soil profile is 0 to 4 inches silty clay loam, 4 to 54 inches silty clay loam, and 54 to 60 inches silt loam (USDA 2011). Based on the Midwest Laboratories, Inc. Particle Size Distribution report and the USDA Textural Classification Chart (Missouri Department of Natural Resources [MDNR] 2006, Appendix O), the soil at the subject property is classified as Soil Type 3 (Clayey).

The upper bedrock formation in the vicinity of the subject property consists of the middle Kansas City Group, Missourian Series, Pennsylvania System (Missouri Bureau of Geology and Mines 1917). Underlying the Kansas City Group are the shales of the Pleasanton Group. Underlying the Pleasanton Group are predominantly shales of the Marmaton and Cherokee Groups of the Desmoinesian Series (MDNR 1997). The maximum thicknesses of these groups are as follows: 135 feet for the Kansas City Group, 150 feet for the Pleasanton Group, and 190 feet for the Marmaton Group (Stohr, St. Ivany, and Williams 1981).

2.2.2 Hydrogeology

Local Pennsylvanian-age bedrock units generally yield low quantities of marginal quality groundwater high in dissolved solids—particularly chlorides, iron, and bicarbonates (Stohr, St. Ivany, and Williams 1981). Water for the subject property is supplied by the City of Kansas City, Missouri, Water Department, and is obtained from the Missouri River and groundwater sources near the river.

Mississippian and Pennsylvania formations form the bedrock aquifers in this region. The Pennsylvanian aquifers are characterized by water table conditions; however, because of the geologic structure in the region, artesian conditions may exist locally in shallow wells. Artesian conditions exist in deeper wells that were drilled to Ordovician bedrock. Water yields are low—1 to 15 gallons per minute (gpm)—and the water is high in chlorides, sodium, iron, bicarbonates, and other dissolved solids. Water yields increase in deeper wells, but quality decreases significantly with depth. The water table depths in the alluvium and terraces of the flood plains in the region are 20 to 30 feet (Stohr, St. Ivany, and Williams 1981).

Mississippian and older bedrock aquifers exhibit leaky artesian conditions; however, water table conditions exist near the border of the Ozark Plateaus. Water yields vary from 25 to a few hundred gpm. The water quality is highest near the eastern border of the Osage Plains and decreases toward the northwest, with increasing concentrations of chlorides, sodium, and other dissolved solids. Recharge is by regional water movement from the Ozark Plateaus and by limited infiltration of precipitation (Stohr, St. Ivany, and Williams 1981).

Numerous drainageways dissect the bedrock in this area and flow into the Blue River. The site is on a hilltop that slopes downward to the north-northeast, and shallow groundwater likely perches seasonally at the top of bedrock. Transient water also may be encountered within fracture zones and along bedding planes, and frequently discharges at bedrock outcrops.

Environmental Data Resources, Inc. (EDR), a START subcontractor, identified one federal USGS water well within 1 mile of the subject property by searching state and USGS database listings; no other water wells were listed in any federal or state database. The reported total depth of the well is 36 feet below ground surface (bgs). Static water level was not provided for the well, and EDR extracted no data on groundwater flow and velocity (EDR 2012). In the absence of site-specific data or other indicators, the direction of groundwater flow may be inferred from the regional topographic gradient. Therefore, shallow groundwater flow is inferred to the north in the direction of the topographic gradient and surface water flow.

2.2.3 Hydrology

The subject property is in the Lower Missouri – Crooked watershed (USGS Cataloging Units 10300101) (USGS 2012b). Surface water on the subject property appears to follow surface topography and either infiltrates the ground or flows to the north toward Round Grove Creek. Round Gove Creek flows west-northwest for about 0.85 mile before discharging to the Blue River.

2.3 SITE HISTORY AND LAND USE

The subject property is currently occupied by an animal shelter. Exact dates of historical subject property use are unknown but can be approximated through review of historical records. Aerial photographs show the subject property developed as an animal shelter starting in 1955. City directories identify the subject property as an animal shelter as early as 1951 (Tetra Tech EM Inc. 2012).

2.4 ADJACENT PROPERTY USE

Currently, the subject property is bounded north by Round Grove Creek and the closed Raytown Road Landfill, with forest land beyond; east by forest land; southeast by vacant land that formerly housed the Men's Reformatory and the former Municipal Correctional Institution (MCI) facility; south by forest land, with the former City of Kansas City Missouri Municipal Farm and HEHS beyond; and west by forest land, with the former Tuberculosis Hospital Dump Site and the City Police Department Helicopter and K-O Training Facility beyond. A review of historical documents indicates the area surrounding the Municipal Farms has been used for a variety of residential and industrial purposes.

Possible past releases of hazardous materials (hazmat) or hazardous waste from neighboring commercial and industrial facilities pose RECs to the subject property (Tetra Tech EM Inc. 2012).

2.5 SUMMARY OF PREVIOUS ASSESSMENTS

According to the Municipal Farm Redevelopment Site Analysis, the former Raytown Road Landfill is directly north of the subject property. The landfill encompasses approximately 32.7 acres and runs parallel to Raytown Road and Round Grove Creek. The landfill was operated by the City in 1971 and 1972. A soil cap was installed on the landfill after it closed in 1972. The landfill accepted approximated 70,000 tons of waste—primarily residential, construction, demolition, and hospital waste (City 2009). According to the EPA Envirofacts Warehouse, the former landfill was referred to the removal section. In 2001, according to the Comprehensive Environmental Response, Compensation, and Liability Information

System (CERCLIS) database, it was determined that no further remedial assessment would be required (EPA 2011). The former landfill is crossgradient of the subject property and thus does not pose a REC to the subject property.

A Phase I Site Characterization report, Investigation Addendum Report and Remedial Action Plan, Closure Plan, and a Summary of Closure Corrective Action Sampling Results were prepared on behalf of the City by Burns & McDonnell Waste Consultants, Inc., for the HEHS. The HEHS is south of the subject property. In the mid 1980s, the City Health Department began to use a small, rectangular, fenced-in area that contained two structures to store HHW, school laboratory waste, and other hazardous wastes generated by City operations and hazmat cleanups. This site was not permitted to accept or store hazardous waste. In November 1993, the City received a Notice of Violation (NOV) from the MDNR after an inspection found numerous violations. The State sought an assessment of penalties for the City's non-compliance. The State and the City agreed to settle the matter by entering into a Consent Decree. A deed restriction has also been filed for the HEHS property. Since that time, the HEHS property has been sampled, all the structures have been demolished, the contaminated soil has been excavated, and the site has been closed (City 2008). The subject property is not included in the deed restriction (Burns & McDonnell Waste Consultants, Inc. 1999). Surface drainage from the HEHS drains northeast through or to the east of the subject property toward Round Creek; therefore, the HEHS poses a REC to the subject property.

EAE prepared an AWBP for the Municipal Farms properties to be used to facilitate sustainable reuse and development of the area. The AWBP includes known and potential Brownfields concerns, prior assessment and cleanup activities, background environmental studies, and results of sampling in the area. Brownfields and areas of potential concern were highlighted in the AWBP. The animal shelter on the subject property was discussed in the AWBP. A Phase I Environmental Site Assessment (ESA) of these areas was recommended as a preliminary investigation. Following the initial investigation, targeted screening or Phase II ESA sampling was recommended to assess presence of contamination at unacceptable levels. Based on available information, possibly present contaminants within these CLUP areas covering the subject property would have derived from applications of herbicides and pesticides, vehicle and machinery maintenance, storage tanks, hazardous waste storage at HEHS, rodenticides, and other Municipal Farm activities (EAE 2012).

The City provided a copy of the Municipal Farm Sustainable Reuse Plan prepared in 2012. That Plan provides a path to revitalize the city-owned property at Municipal Farm and the surrounding Eastwood Hills Neighborhood. The Plan sets the stage for assessment and required cleanup of known and potential Brownfields (including the subject property); restoration of the site's natural resources; and proactive,

sustainable development that embraces research, innovation, and recreation. The subject property is discussed under the sections specific to CLUP area 19. Based on the Sustainability Reuse Plan, the subject property is likely to be reused for future institutional/civic and/or destination commercial use based on its location, physiography, and relationship to the land uses on the remainder of the Municipal Farm site. The Plan recommended a preliminary environmental assessment of the former agricultural use areas and the Kansas City, Missouri Animal Shelter. The Plan also recommended additional historical research and interviews with local experts regarding the possibility of unknown contamination from unknown animal shelter practices, possible use of rodenticides in the vicinity of the animal food storage, and dust or fumes associated with the on-site animal incinerators. Moreover, the Plan recommended additional investigations of the former agricultural use sub-area, including sampling of the sediment and drainage relief point downgradient of most of the area (City 2012b).

3.0 PHASE II TARGETED BROWNFIELDS ASSESSMENT ACTIVITIES

The purpose of the Phase II TBA was to determine if historical activities at the subject property had impacted surface soils at and around items posing RECs, and to determine whether building materials contained asbestos and painted surfaces contained lead.

The following sections describe the scope of the Phase II TBA, and field exploration and methods. START team members (STM) Cosmo Canacari, Danny O'Connor, and Ashley Gleason conducted belowground soil and groundwater sampling on March 22, 2013. STMs Kaitlyn Bahr, Jeffrey Mitchell, and Joanna Sciegienka conducted the hazardous materials survey on April 10, 2013.

3.1 SCOPE OF THE ASSESSMENT

STMs conducted environmental sampling to determine if soil or groundwater had been impacted by current or historical activities at the subject property or upgradient. As part of the Phase II TBA, a hazardous materials survey including an asbestos survey, LBP survey, and an inventory of household hazardous wastes was performed. Photographs taken to document the Phase II TBA field activities are included in Appendix B. Phase II TBA activities were recorded in a site logbook included in Appendix C. Chain-of-custody records, field sheets, analytical data packages, and a data validation report are in Appendix D. Analytical summary tables appear in Appendix E. The sampling proceeded in accordance with an approved Quality Assurance Project Plan (QAPP) (Tetra Tech 2013).

3.1.1 Conceptual Site Model and Sampling Plan

The proposed sampling scheme for collection of soil and building material samples was biased/judgmental, in accordance with the *Guidance for Performing Site Inspections under Comprehensive Environmental Response Compensation and Liability Act (CERCLA)*, Office of Solid Waste and Emergency Response (OSWER) Directive #9345.1-05, September 1992; and the *Removal Program Representative Sampling Guidance, Volume 1: Soil*, OSWER Directive 9360.4-10, November 1991. The objectives were to characterize possible historical releases to the environment prior to future development of the subject property. Surface soil samples were collected to determine if contamination has the potential to leave the subject property in stormwater runoff. An attempt to sample groundwater at three of the four locations failed because START encountered refusal before reaching groundwater. Table E-1 summarizes the samples collected during the Phase II TBA and the analyses performed.

3.1.2 Chemical Testing Plan

Laboratory analyses for chemical parameters were selected based on potential contaminants associated with current and historical uses of the subject property. Soil and groundwater samples were submitted to ALS Environmental (ALS) in Holland, Michigan, for analyses for following parameters: herbicides via EPA Method SW-846 8151; pesticides via EPA Method SW-846 8081; mercury via EPA Method SW-846 7471; priority pollutant metals via EPA Method SW-846 6020A; total petroleum hydrocarbons (TPH)-diesel range organics (DRO), TPH-oil range organics (ORO), and semivolatile organic compounds (SVOC) via EPA Method SW-846 8270; and volatile organic compounds (VOC) including TPH-gasoline range organics (GRO) via EPA Method SW-846 8260. Surface soil samples were sent to Lancaster Laboratories in Lancaster, Pennsylvania, for Warfarin analysis via EPA Method SW-846 8321B.

3.1.3 Deviations from the QAPP

Deviations from the QAPP and the rationale for these are as follows:

START was unable to collect groundwater samples at sample locations GW-1, GW-3, and GW-4 at the subject property because of refusal prior to encountering groundwater.

3.2 FIELD EXPLORATION AND METHODS

Field activities at the subject property occurred on March 22, 2013. The sections below summarize soil and groundwater sample collection, ACM and LBP surveys, and household hazardous waste inventories.

3.2.1 Surface Soil Sampling

Surface soil samples were collected at four locations at the subject property during the Phase II TBA. At each location, a composite surface soil sample (0 to 6 inches bgs) containing five aliquots was collected using disposable sampling equipment. At each sample location, sampling was first conducted according to EPA Method 5035 guidelines for VOCs. The remaining soil (for analyses other than VOCs) was transferred to a disposable aluminum pie pan and homogenized with a disposable stainless steel spoon prior to transfer into the appropriate containers.

Pertinent data, including analyses to be performed and sample locations, were recorded in the field log book (see Appendix C). All soil samples were stored in coolers maintained at temperatures at or below 4 degrees Celsius (°C).

3.2.2 Groundwater Sampling

A groundwater sample was collected from one temporary monitoring well on the subject property. Groundwater was reached between 28 and 32 feet bgs. The sample was collected with a Geoprobe Screen Point 15 sampling apparatus equipped with reusable, 4-foot-long, stainless steel screen. The sampler was advanced to the maximum depth (e.g., 30 feet bgs); then the screen was exposed to the aquifer. After the screen was deployed at the bottom of the boring, a sample was collected through disposable polyethylene tubing utilizing a peristaltic pump or check valve placed at the bottom of the tubing.

The groundwater sampler and rods were decontaminated after sampling.

Pertinent data, including analyses to be performed and sample locations, were recorded in the field log book (see Appendix C). Groundwater samples were field filtered for dissolved metals. All groundwater samples were stored in coolers maintained at temperatures at or below 4 °C.

3.2.3 ACM Field Survey and Analytical Protocols

Asbestos samples were collected from the subject property buildings in accordance with the National Emissions Standards for Hazardous air Pollutants (NESHAP) as adopted by EPA and the Asbestos Hazard and Emergency Response Act of 1986 (AHERA) protocols. AHERA defines "asbestos containing building material" as any building material or product that contains more than 1 percent (%) asbestos. Suspected ACMs were grouped as homogeneous areas if the material was similar in appearance and texture; however, if the inspector decided that a material (for example, wall texturing) was not similar in appearance and texture to other materials in the building, the inspector distinguished the material as unique and collected samples of each unique material accordingly.

Bulk samples of suspected ACM were collected to ensure that each distinct layer of material was represented in the sample. A wetting agent was applied to friable surfaces prior to sample collection to reduce the potential for fiber release. All samples collected were placed in plastic bags, labeled, and sealed immediately upon collection. To prevent cross-contamination between samples, the sampling instruments were wiped clean using a wet, lint-free cloth after collection of each sample. A unique sample identification number was assigned to each sample. All samples were submitted to a START-contracted laboratory (Quantem) for analysis for asbestos by polarized light microscopy (PLM) via EPA Method 600/R-93/116. All samples were handled and analyzed according to standard operating procedures (SOP) and methods referenced in the QAPP form. Section 4.3 of this report summarizes the ACM analytical

results; the sample locations are shown on Figure 4 in Appendix A; and Appendix D of this report provides the ACM analytical results and chain-of-custody forms for the bulk samples.

3.2.4 LBP Field Survey and Analytical Protocols

START made every effort to inspect all areas of the subject property buildings. The U.S. Department of Housing and Urban development HUD *Guidelines for the Evaluation and Control of LBP in Housing* (1997) suggests that paint applied before 1978 could contain lead.

An XRF screening of suspected LBP was performed according to protocols similar to the single-family housing inspection procedures in the HUD *Guidelines*. START utilized an XT-260 XRF Spectrum Analyzer manufactured by Innov-X to perform the LBP testing. The XT-260 is a state-of-the-art XRF spectrum analyzing system for quantitative measurement of lead in paint on various substrates. START performed XRF testing of suspect painted surfaces that possibly would be impacted during renovation/demolition activities.

START utilized the XRF "Lead Paint Mode" for testing, standardized per the equipment instruction manual, and programmed the unit with an action level of 1.0 milligram per square centimeter (mg/cm^2). The XT-260 automatically adjusts the measurement time to be the least time needed to make a definitive measurement based on the action level. Paint containing greater than or equal to 1.0 mg/cm^2 lead by XRF testing or 1.0 mg/cm^2 lead by laboratory analysis is considered LBP.

START performed XRF calibration checks on the XT-260 according to Innov-X's recommended protocol and the HUD *Guidelines*. These Quality Control (QC) readings were used to monitor the performance of the XT-260. The calibration-check readings were taken after every 2 hours of operation using a Standard Reference Material (SRM) paint film, developed by the National Institute of Standards and Technology (NIST). Section 4.4 of this report summarizes the LBP analytical results, and Appendix D of this report provides the LBP analytical results and chain-of-custody forms for the bulk samples.

3.2.5 Household Hazardous Waste and Hazardous Waste Inventory

START completed an inventory of household hazardous waste and other potentially hazardous waste at the subject property. This inventory included but was not limited to the following types of materials: thermostats and fluorescent light bulbs possibly containing mercury, fluorescent light ballasts potentially containing polychlorinated biphenyls (PCB), emergency lighting and exit signs that house batteries

containing heavy metals, appliances containing Freon, product containers holding hazardous materials (such as cleaning supplies, paint, etc.), and any other household hazardous waste items.

3.2.6 Quality Control Sampling

Four duplicate ACM samples were collected (10%). One equipment rinsate blank prepared with deionized (DI) water was submitted for the following analyses: VOCs (TPH-GRO), SVOCs (TPH-DRO and -ORO), pesticides, herbicides, and RCRA metals. In addition, one trip blank supplied by ALS Environmental was analyzed for VOCs (TPH-GRO).

4.0 EVALUATION AND PRESENTATION OF RESULTS

Sections 4.1 and 4.2 summarize the analytical data for the soil and suspect ACM samples collected during the Phase II TBA. Soil sample results from this TBA were compared to their respective EPA RSLs for both residential and industrial soils (EPA 2012) and MRBCA Tier 1 target levels for residential land use for clayey soil types (MDNR 2006). Arsenic concentrations were also compared to mean background concentrations in Jackson County, Missouri (USGS 2012a). The complete analytical data packages for soil and groundwater samples are included as Appendix D, and results are compared to screening values in Appendix E Tables E-2 through E-6. A level II data validation report completed by START is included in Appendix D.

4.1 SURFACE SOIL SAMPLES

No VOCs exceeded any benchmarks. The following SVOCs exceeded at least one benchmark: benzo(a)pyrene was detected at concentrations above the EPA RSL residential benchmark in surface soil samples SS-1 and SS-2, and benzo(b)fluoranthene was detected at a concentration exceeding the EPA RSL residential benchmark in surface soil sample SS-2. Benzo(a)pyrene was detected at 0.025 mg/kg in surface soil sample SS-1 and at 0.150 in surface soil sample SS-2. The EPA RSL residential benchmark for benzo(a)pyrene is 0.02 mg/kg. Benzo(b)fluoranthene was detected at 0.500 mg/kg in surface soil sample SS-2. The EPA RSL residential benchmark for benzo(b)fluoranthene is 0.15 mg/kg. The following metals were detected in surface soil samples above the laboratory method detection limit antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium and zinc, but were detected at concentrations below the MRBCA Tier 1 target level for non-residential clayey soil and the USGS background concentration in Jackson County, MO. No pesticides exceeded any benchmark levels, and no herbicides were detected. For all constituent results, see Table E-2 to E-5 in Appendix E.

4.2 GROUNDWATER SAMPLES

No VOCs, SVOCs, or RCRA metals exceeded any benchmarks in the groundwater sample that was collected at the subject property. For all constituent results, see Table E-6 in Appendix E.

4.3 ACM FINDINGS

As listed in Table E-7, the following are the findings and recommendations from the ACM survey:

- Approximately 2,200 square feet of mastic associated with 12 X 12 tan floor tile is in the bathrooms, throughout the office and cat area, and in the reception room inside the subject

property building. The mastic is represented by samples As-1-CR-FT2-1, AS-1-R-FT2-2, and AS-1-HW-FT2-3. Laboratory results indicated that the mastic contained 6-percent chrysotile asbestos. Because of the asbestos in the mastic, the mastic and floor tile should be removed by a licensed asbestos abatement contractor before any renovation and/or demolition work disturbs the mastic. The removed waste must be transported to a disposal site able to accept non-friable ACM. If the building is to be renovated and the mastic is not to be disturbed, it may remain in place.

- Approximately 400 square feet of Transite® ceiling tile is in the caged dog room inside the subject property building. The ceiling tile is represented by samples AS-1-CD-CT2-1, -2, and -3. Laboratory results indicated that the ceiling tile contained 25-percent chrysotile asbestos. Because of the asbestos in the ceiling tile, the ceiling tile should be removed by a licensed asbestos abatement contractor before any renovation and/or demolition work disturbs the ceiling tile. The removed waste must be transported to a disposal site able to accept non-friable ACM. If the building is to be renovated and the ceiling tile is not to be disturbed, it may remain in place.

- Approximately 180 square feet of 12 X 12 tan floor tile and associated mastic is in the behavior observation room inside the subject property building. The floor tile and mastic are represented by samples AS-1-SR-FT4-1, -2, and -3. Laboratory results indicated that the floor tile contained 3-percent chrysotile asbestos and the mastic contained 5-percent chrysotile asbestos. Because of the asbestos in the floor tile and mastic, the floor tile and mastic should be removed by a licensed asbestos abatement contractor before any renovation and/or demolition work disturbs the floor tile and mastic. The removed waste must be transported to a disposal site able to accept non-friable ACM. If the building is to be renovated and the floor tile and mastic is not to be disturbed, it may remain in place.

4.4 LBP FINDINGS

As listed in Table E-8, one of the 39 XRF readings obtained from painted surfaces and lead containing materials indicated reportable lead concentrations exceeding 1.0 mg/cm^2. The following is a description of findings and recommendations based on the LBP samples collected:

Approximately 250 square feet of paint on the metal support beams in the kennel tested positive for LBP by use of the XRF spectrometer. The XRF results indicated a level of 3.2 milligrams per square centimeter (mg/cm^2) of lead in the paint. HUD considers a lead concentration above 1.0 mg/cm^2 to be LBP. If the LBP surfaces are impacted during the renovations and/or demolition, START recommends the contractor conducting the renovations/demolition comply with the Occupational Safety and Health Administration (OSHA) Lead in Construction Standard, Title 29 of CFR, Part 1926.62. If the materials containing LBP are removed during renovation activities, a sample should be collected from the debris pile for a Toxicity Characteristic Leaching Procedure (TCLP) analysis (Title 40 CFR 261.24); representative samples should be collected and analyzed for all eight metals specified in 40 CFR Part 261.24 (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver). This would determine the proper method of disposal of the materials. The renovation contractor must also remove peeling and chipping paint from any damaged LBP surfaces on these walls in the subject property building prior to demolition or remodeling.

4.5 HOUSEHOLD HAZARDOUS WASTE AND HAZARDOUS WASTE INVENTORY FINDINGS

The following household hazardous wastes were identified: four central air conditioning units, one commercial dryer, one commercial washing machine, one microwave, one water heater, five refrigerators, one water fountain, two vending machines, 11 aerosol flammables, five corrosives, 250 fluorescent tubes, 125 potentially PCB containing ballasts, eight household batteries, two copy machines, 13 computer monitors/televisions, 67 containers of bleach, two incinerators, one riding lawnmower, and one lawnmower. The animal shelter is still in operation and many of the items listed as household hazardous wastes still in use would likely be taken with the animal shelter occupants if they were to leave.

4.6 QUALITY CONTROL SAMPLES

The four asbestos duplicate samples collected did not contain asbestos. One field blank and one equipment rinsate blank prepared with DI water were submitted for the following analyses: VOCs, TPH-GRO, SVOCs, TPH-DRO, TPH-ORO, pesticides, herbicides, and RCRA metals. The rinsate blank and field blank results were reported on the Municipal Farms Municipal Correction Institute results because the field work was completed on the same day and only one rinsate sample and field blank were submitted with the samples. The following metals were detected below quantitation limits ("J" coded) in the field blank: barium, chromium, lead, and selenium. The SVOCs butyl benzyl phthalate and di-n-butyl phthalate were also detected below quantitation limits in the field blank. The rinsate blank contained amounts of barium, chromium, and lead (metals) and bis(2-ethylhexyl)phthalate (SVOC) in concentrations below quantitation limits. The VOC toluene was found in trace amounts. In addition, ALS supplied one soil trip blank for surface soil and one soil trip blank and one water trip blank for groundwater; all were analyzed for VOCs. Chloroform and toluene were detected below quantitation limits in the soil trip blank sample for surface soil sampling. Chloroform and methylene chloride were detected below quantitation limits in the soil trip blank sample for subsurface soil sampling. No VOCs were detected in the water trip blank. Concentrations detected were very small and considered laboratory contaminants; thus no qualifications to the data are required.

5.0 DISCUSSION OF FINDINGS AND CONCLUSIONS

This section summarizes findings and offers conclusions regarding the Phase II TBA field activities. Property profile forms are included in Appendix F.

5.1 RECOGNIZED ENVIRONMENTAL CONDITIONS

No surface soil samples contained levels of VOCs above EPA RSLs or MRBCA Tier 1 target levels. Of the surface soil samples that contained elevated levels of SVOCs, only two surface soil sample (SS-1 and SS-2) had a concentration of benzo(a)pyrene that exceeded the EPA RSL residential benchmark, and only one surface soil sample (SS-2) had a concentration of benzo(b)fluoranthene that exceeded the EPA RSL residential benchmark. All samples had elevated levels of arsenic, but no arsenic concentration was above the MRBCA Tier 1 clayey non-residential target level or USGS background concentrations.

5.2 AFFECTED MEDIA

Based on sampling during this Phase II TBA, twelve priority pollutant metals and two SVOCs were detected in soil samples collected from the subject property at concentrations above a benchmark. However, antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium and zinc were detected at concentrations below the MRBCA Tier 1 target level for non-residential clayey soil and the USGS background concentration in Jackson County, MO (USGS 2012a). Although benzo(a)pyrene was detected at concentrations above the EPA RSL residential benchmark value in two surface soil sample (SS-1 and SS-2), and benzo(b)fluoranthene was detected at concentrations above the EPA RSL residential benchmark value in one surface soil sample (SS-2) , these are compounds commonly found in urban environments. Sources of these SVOCs are: (1) vehicle exhaust and pavement sealcoat (potentially from the road surrounding the subject property and the animal control vehicles that frequently drive through the area around surface soil samples SS-1 and SS-2); and (2) fertilization with burned material, such as ashes (potentially from the two incinerators on site). The concentrations exceed only one benchmark and therefore do not pose a REC to the subject property. No further soil or groundwater sampling is recommended at the subject property.

6.0 REFERENCES

ASTM International (ASTM).

2011. *Standard Practice of Environmental Site Assessments: Phase II Environmental Site Assessment Process.* E 1903-11.

Burns & McDonnell Waste Consultants, Inc.

1999. Certificate of Closure for the Health Emergency HAZMAT Site, Kansas City, Missouri. January.

City of Kansas City, Missouri (City).

2008. 8100 Ozark Road – KCMO Health Emergency Hazmat Site. Historical Summary of Site Activities. August 26.

2009. Municipal Farm Redevelopment Site Analysis. Prepared by the City Planning and Development Department. August.

2012a. KC Mapper. On-line address: http://gisweb.kcmo.org/kcmap/viewer.htm. Accessed December 2012.

2012b. The Municipal Farm Sustainable Reuse Plan. October 12.

Environmental Advisors and Engineers, Inc. (EAE).

2012. Area-Wide Brownfields Plan, Municipal Farms Brownfields, Kansas City, Missouri. October.

Environmental Data Resources, Inc. (EDR).

2012. EDR Radius Map with Geocheck®. October 23.

Google Earth.

2012. Latitude and longitude of approximate center of 4400 Raytown Road, Kansas City, Missouri.

Missouri Bureau of Geology and Mines.

1917. Geological Map of Kansas City, Missouri.

Missouri Department of Natural Resources (MDNR).

1997. Groundwater Resources of Missouri. Water Resources Report Number 46.

2006. Missouri Risk-Based Corrective Action Technical Guidance. April 2006.

Stohr, Christopher, Gary St. Ivany, and James Hadley Williams.

1981. Geologic Aspects of Hazardous-Waste Isolation in Missouri. Missouri Department of Natural Resources, Engineering Geology Report Number 6.

Tetra Tech EM Inc.

2012. Phase I Environmental Site Assessment, Municipal Farms – Animal Shelter Site, 4400 Raytown Road, Kansas City, Missouri. December 18.

Tetra Tech, Inc. (Tetra Tech).

2013. Quality Assurance Project Plan, Limited Phase II Targeted Brownfields Assessment, Municipal Farms – Animal Shelter Site, Kansas City, Missouri. January 17.

U.S. Department of Agriculture (USDA).
1984. *Soil Survey of Jackson County, Missouri.* September.

USDA in cooperation with the Natural Resources Conservation Service (NRCS).
2011. *WebSoil Survey.* On-line address: http://websoilsurvey.nrcs.usda.gov/app/. Accessed: October 2012. Last modified: April 12, 2011.

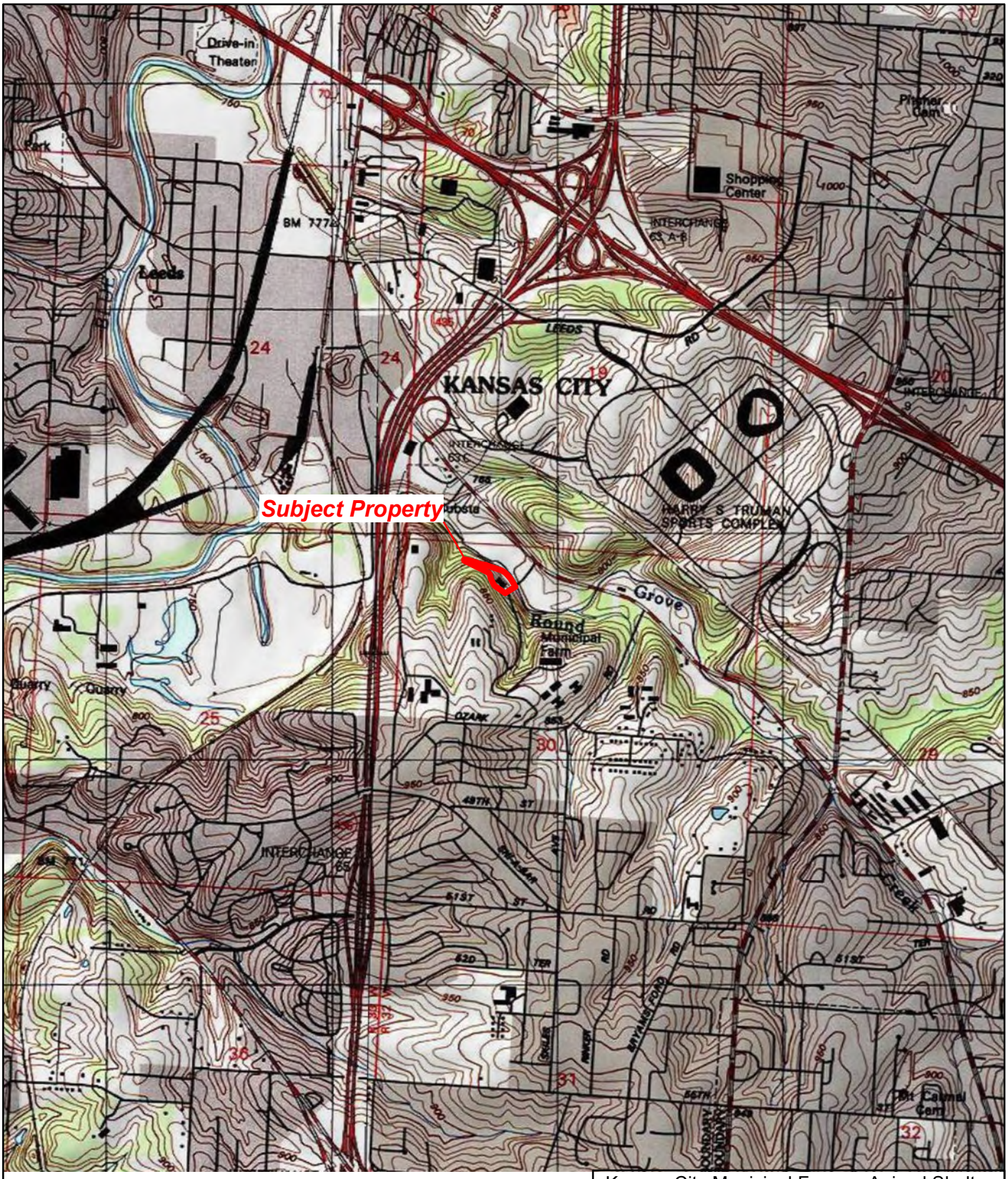
U.S. Department of Housing and Urban Development (HUD).
1997. *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

U.S. Environmental Protection Agency (EPA).
2011. Envirofacts Warehouse. Superfund CERCLIS Query Results. On-line address: http://oaspub.epa.gov/enviro/cerclis_web.report?pgm_sys_id=MOD980631600 . Accessed: January 2011. Data extracted: January 14, 2013.
2012. Regional Screening Level (RSL) Summary Table. April 2012.

U.S. Geological Survey (USGS).
1996. Independence, Missouri Quadrangle. 7.5-Minute Topographic Series.
2012a. National Geochemical Survey Geochemistry by County for Jackson County, Missouri. On-line address: http://tin.er.usgs.gov/geochem/doc/averages/countydata.htm. Accessed: April 2013. Last modified: March 14, 2012.
2012b. USGS Water Resources Links for: 10300101 – Lower Missouri-Crooked. On-line address: http:// http://water.usgs.gov/lookup/getwatershed?10300101. Accessed: April 2013. Last modified: February 1, 2012.

APPENDIX A

FIGURES



Source: USGS Independence, MO 7.5 Minute Topo Quad, 1996
USGS Kansas City, MO 7.5 Minute Topo Quad, 1996

Kansas City Municipal Farms - Animal Shelter
4400 Raytown Road
Kansas City, Missouri

Figure 1
Site Location Map

TETRA TECH EM INC.

Date: 11/6/12 Drawn By: Nick Wiederholt Project No: X9004.L.06.0002.015.022

X:\G\9004\0002\2015\022\Animal_Shelter\Projects\mxd\Figure1.mxd

Legend

- Major road
- Street
- Stream/River
- Approximate subject property boundary

HEHS Health Emergency Hazmat Site

Source: ArcGIS Online, Bing Maps Hybrid, 2012; HSIP Gold, 2007

Kansas City Municipal Farms - Animal Shelter
4400 Raytown Road
Kansas City, Missouri

Figure 2
Site Layout Map

TETRA TECH EM INC.

Date: 12/21/12 Drawn By: Nick Wiederholt Project No: X9004.L.06.0002.015.022

X:\G\9004\0002\015\022\Animal_Shelter\Projects\mxd\Figure2.mxd

Legend

- DPT groundwater sample location
- Soil classification sample location
- Surface soil sample location
- Stream/River
- Approximate subject property boundary
- DPT Direct push technology

N

0 60 120

Feet

Source: ArcGIS Online, Bing Maps Aerial, 2012; HSIP Gold, 2007

Kansas City Municipal Farms - Animal Shelter
4400 Raytown Road
Kansas City, Missouri

Figure 3

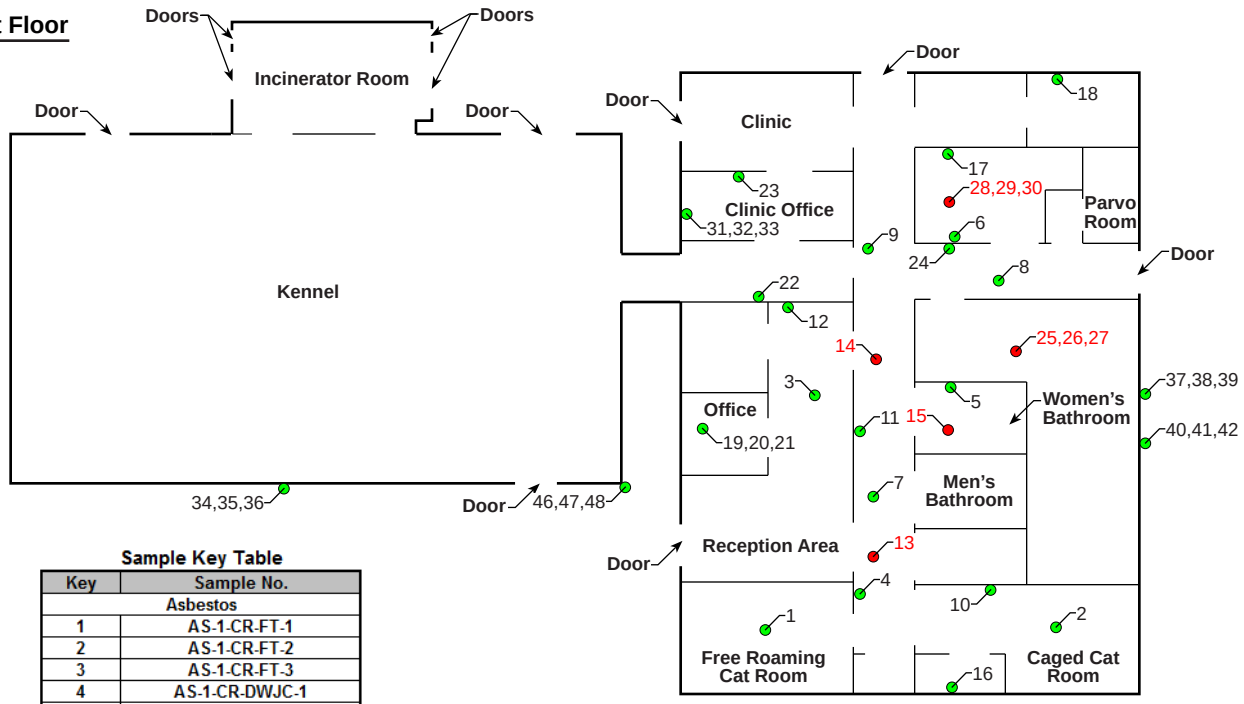
Sample Location Map

TETRA TECH

Date: 4/18/13 Drawn By: Nick Wiederholt Project No: X9004.L.06.0002.015.022

X:\G\9004\0002\2015\022\Animal_Shelter\Projects\mxd\Figure3_Actual_Samples.mxd

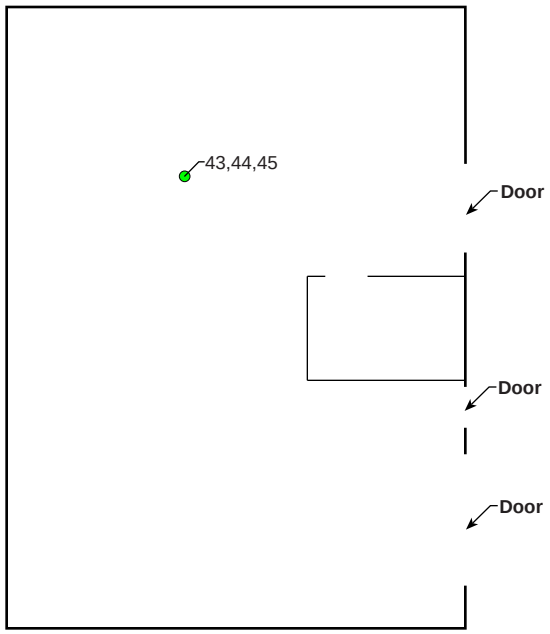
First Floor



Sample Key Table

Key	Sample No.
	Asbestos
1	AS-1-CR-FT-1
2	AS-1-CR-FT-2
3	AS-1-CR-FT-3
4	AS-1-CR-DWJC-1
5	AS-1-CA-DWJC-2
6	AS-1-CA-DWJC-3
7	AS-1-CR-CT-1
8	AS-1-CA-CT-2
9	AS-1-CA-CT-3
10	AS-1-CR-CBM-1
11	AS-1-CR-CBM-2
12	AS-1-CR-CBM-3
13	AS-1-CR-FT2-1
14	AS-1-R-FT2-2
15	AS-1-HW-FT2-3
16	AS-1-CR-PLSC-1
17	AS-1-CA-PLSC-2
18	AS-1-CA-PLSC-3
19	AS-1-OF-FT3-1
20	AS-1-OF-FT3-2
21	AS-1-OF-FT3-3
22	AS-1-CA-CBM2-1
23	AS-1-CA-CBM2-2
24	AS-1-CA-CBM2-3
25	AS-1-CD-CT2-1
26	AS-1-CD-CT2-2
27	AS-1-CD-CT2-3
28	AS-1-SR-FT4-1
29	AS-1-SR-FT4-2
30	AS-1-SR-FT4-3
31	AS-1-CA-SU-1
32	AS-1-CA-SU-2
33	AS-1-CA-SU-3
34	AS-EXT-WC-1
35	AS-EXT-WC-2
36	AS-EXT-WC-3
37	AS-EXT-WG-1
38	AS-EXT-WG-2
39	AS-EXT-WG-3
40	AS-EXT-C-1
41	AS-EXT-C-2
42	AS-EXT-C-3
43	AS-B-TSI-1
44	AS-B-TSI-2
45	AS-B-TSI-3
46	AS-EXT-RM-1
47	AS-EXT-RM-2
48	AS-EXT-RM-3

Basement



Legend

- Positve ACM Sample Location
- Negative ACM Sample Location

ACM Asbestos Containing Material

Note: Refer to Sample Key Table for corresponding sample numbers.

NOT TO SCALE

Kansas City Municipal Farms - Animal Shelter
4400 Raytown Road
Kansas City, Missouri

Figure 4
Asbestos Sample Location Map

TETRA TECH

Date: 04/18/13 Drawn By: Nick Wiederholt Project No: X9004.L.06.0002.015.022

X:\G\9004\0002\015\022\Animal_Shelter\FH10\Figure4_Asbestos.FH10

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION

Municipal Farms – Animal Shelter
Jackson County, Missouri

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: North	DESCRIPTION	This photograph shows the groundwater sample location GW-2.	1
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/22/13
	PHOTOGRAPHER	Danny O'Connor	

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: South	DESCRIPTION	This photograph shows the area on the subject property where surface soil sample SS-2 was collected.	2
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/22/13
	PHOTOGRAPHER	Danny O'Connor	

Municipal Farms – Animal Shelter
Jackson County, Missouri

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: South	DESCRIPTION	This photograph shows the metal roof of the subject property building.	3
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/10/13
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows the asbestos containing 12 X 12 floor tile and mastic in the behavior observation room at in the subject property building.	4
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/10/13
	PHOTOGRAPHER	Kaitlyn Bahr	

Municipal Farms – Animal Shelter
Jackson County, Missouri

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows the ceiling tile throughout the subject property building.	5
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/10/13
	PHOTOGRAPHER	Kaitlyn Bahr	

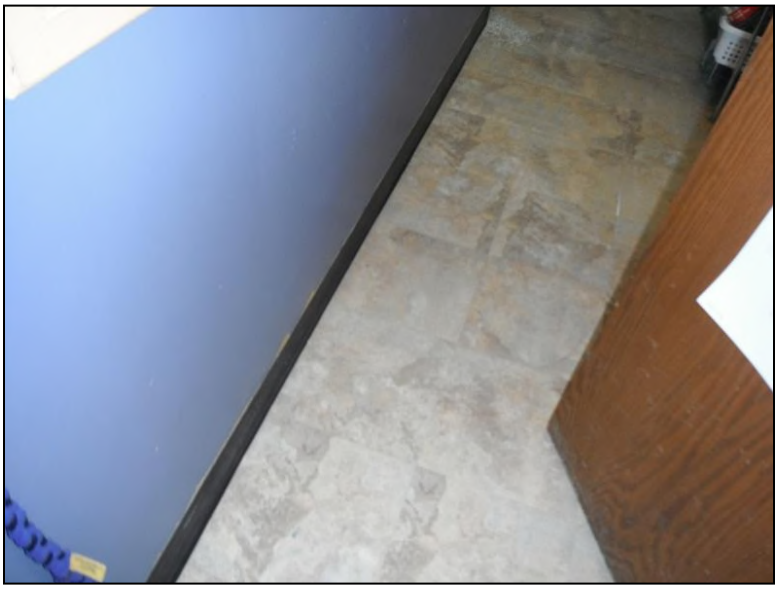
TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows the asbestos containing Transite® ceiling tile in the caged dog room and the behavior observation room.	6
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/10/13
	PHOTOGRAPHER	Kaitlyn Bahr	

Municipal Farms – Animal Shelter
Jackson County, Missouri

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows the sink undercoat in the clinic at the subject property building.	7
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/10/13
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows fiberglass elbows on pipes in the basement at the subject property building.	8
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/10/13
	PHOTOGRAPHER	Kaitlyn Bahr	

Municipal Farms – Animal Shelter
Jackson County, Missouri



TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows the 12 X 12 floor tile in the cat rooms at the subject property building.	9
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/10/13
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows the older tan 12 X 12 floor tile and asbestos containing mastic throughout the office and cat areas, reception room, and in the bathrooms.	10
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/10/13
	PHOTOGRAPHER	Kaitlyn Bahr	

Municipal Farms – Animal Shelter
Jackson County, Missouri

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows the 12 X 12 floor tile in one office in the offices area.	11
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/10/13
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows the window glazing on the exterior windows of the subject property building.	12
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/10/13
	PHOTOGRAPHER	Kaitlyn Bahr	

Municipal Farms – Animal Shelter
Jackson County, Missouri

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows the light brown cove base in the kennel at the subject property building.	13
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/10/13
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9004.06.0002.015.022A DIRECTION: NA	DESCRIPTION	This photograph shows the window caulking on the exterior windows of the subject property building.	12
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/10/13
	PHOTOGRAPHER	Kaitlyn Bahr	

APPENDIX C

SITE LOGBOOK

3-22-13 MCI - KC Municipal Farms

0600 STM O'Connor arrives @ Tt, prep for days activities

0700 STMs Cosmo Canacari & Ashley Gleason arrive @ Tt. Preform daily tailgate, discuss site activities

0730 Depart for site

0750 Arrive on site, MCI
Begin soil probing @ SB-1 (soil only)
39.03956, -94.49364
Collect 2 samples

0845 SB-1 (6-8')

0835 SB-1 ~~(13-15')~~ (10-12')
- Refusal @ ~~15'~~ 12' bgs - shale
No high PID readings

0919 Begin boring @ SB-2 (soil only)
39.04011, -94.49099
No high PID readings
Collect 2 samples

0935 SB-2 (5-7')

0945 SB-2 (7-9')
Refusal @ 9' bgs, bedrock

0955 Begin boring @ SB-3 (grain size analysis only)

1015 SB-3 (7-9')
~~0945~~ 39.03998, -94.49033
D.O.

3-22-13 MCI - KC Municipal Farms
refusal @ 9' bgs
Collect sample for grain size analysis

1030 Begin boring @ SB-4
Will attempt to collect soil & groundwater from this location
39.04067, -94.49042
Collect 2 soil samples, 10' refusal

1050 SB-4 (6-8')

1100 SB-4 (8-10')
- Soil appears dry @ bottom of hole send down check valve to confirm no Groundwater. - No Groundwater

1113 Arrive @ SB-5
Will attempt to collect soil & groundwater samples
39.04152, -94.49120
refusal @ 5' bgs. Soil boring appears to have significant amount of brick & concrete
- Try three other locations, all have refusal @ ≤2' bgs. Collect one sample from first location

1140 SB-5 (3-5') - Metals, VOCs, SVOCs
No Groundwater present

1150 Arrive @ SB-6
39.04174, -94.49088

3-22-13 MCI/Animal Shelter - KC Municipal Farms

Refusal @ 13' bgs

Collect two samples

1215 SB-6 (6-8') Metals, VOCs, SVOC

1220 SB-6 (11-13') " "

1280 Arrive @ animal shelter. Quick site recon

1230 Lunch

1300 End Lunch

1325 Begin installing temp groundwater monitoring well @ GW-1

39.04461, -94.49278

refusal @ 2', try another spot refusal @ 4'

Third spot refusal @ 4'

Unable to collect sample From GW-1

1340 Begin surface soil sampling

1347 SS-1: VOCs, SVOCs, herb., pest., warfarin, metals

39.04462, -94.49352

1405 Collect surface soil sample From SS-3

VOCs, SVOCs, herb., pest., warfarin, metals

39.04448, -94.49388

Attempt to install temp monitoring well @ GW-2, 39.04491, -94.49338

1440 Begin collecting samples From GW-2 location

VOCs, SVOCs, herb, pest, priority pollutant metals (dissolved), TDS

3-22-13 Animal Shelter KC Municipal Farms

Groundwater @ 28' bgs, refusal @ 32' bgs

1535 Begin collecting SS-2

39.04404, -94.49345

Analyze for VOCs, SVOCs, herb, pest., priority pollutant metals, warfarin

STM Canacari attempts to install temp monitoring well @ GW-4

- 39.04416, -94.49319

Refusal @ 18'. No Groundwater, unable to collect sample

1600 Begin collecting SS-4

39.04539, -94.49463

VOCs, SVOCs, herb, pest, warfarin, metals

1615 STM Canacari attempts to install temp monitoring well @ GW-3

39.04492, -94.49407

Refusal @ 25' bgs - will allow to sit

1640 Begin soil boring SB-7 (grain size analysis)

39.04528, -94.49490. Refusal @ 11'

Collect sample

SB-7 (9-11') - grain size analysis

1715 Return to GW-3. No Groundwater, no sample collected

1730 Complete field activities, depart for office

3-22-13 MCI/Animal Shelter - KC Municipal Farms

1750 Collect Field Blank sample

1800 Collect Rinsate Sample

- Prep samples For 3-25 shipement

1845 End day

Danny O.
3-22-13

APPENDIX D

CHAIN-OF-CUSTODY RECORDS, ANALYTICAL DATA PACKAGES, AND DATA VALIDATION REPORT

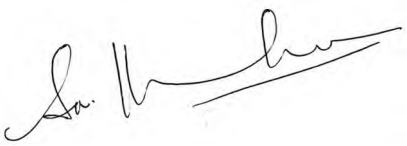
EMLab P&K
A TestAmerica Company

Report for:

Kaitlyn Bahr
Tetra Tech-KCMO
415 Oak Street
Kansas City, MO 64106

Regarding: Project: X9004.06.0002.015.022A; Municipal Farms Animal Shelter
EML ID: 1049860

Approved by:



Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Asbestos-EPA Method 600/R-93/116: 04-16-2013

Service SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 01267))

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
1150 Bayhill Drive, Suite 100, San Bruno, CA 94066
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Tetra Tech-KCMO
C/O: Kaitlyn Bahr
Re: X9004.06.0002.015.022A; Municipal Farms Animal Shelter

Date of Sampling: 04-10-2013
Date of Receipt: 04-12-2013
Date of Report: 04-16-2013

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted:	4
Total Samples Analysed:	4
Total Samples with Layer Asbestos Content > 1%:	0

Location: AS-Ext-WC-D Lab ID-Version‡: 4720141-1

Sample Layers	Asbestos Content
Gray Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: AS-1-OF-FT3-D Lab ID-Version‡: 4720142-1

Sample Layers	Asbestos Content
Gray Floor Tile	ND
Transparent Mastic	ND
Sample Composite Homogeneity:	Good

Location: AS-1-CR-CBM-D Lab ID-Version‡: 4720143-1

Sample Layers	Asbestos Content
Black Baseboard	ND
Brown Mastic	ND
Sample Composite Homogeneity:	Good

Location: AS-1-CA-CBM2-D Lab ID-Version‡: 4720144-1

Sample Layers	Asbestos Content
Brown Baseboard	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Good

All samples were received in acceptable condition unless otherwise noted. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed.
Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

CHAIN OF CUSTODY
www.EMLabPK.com

EMLab P&K
A TestAmerica Company

Cherry Hill, NJ: 1936 Olney Avenue, Cherry Hill, NJ 08003 * **(866) 871-1984**
Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * **(800) 651-4802**
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * **(866) 888-6653**

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☐	☐	☐	☐	
Light	☐	☐	☐	☐	
Moderate	☐	☐	☐	☐	
Heavy	☐	☐	☐	☐	

REQUE... (Use...) 001049860

CONTACT INFORMATION

Company:	Tetra Tech	Address: 415 Oak Street, Kansas City, MO
Contact:	Kaitlyn Bahr	Special Instructions:
Phone:	816-412-1742	

PROJECT INFORMATION

Project ID:	X9004.06.0002.015.022A		
Project Description:	Municipal Farms - Animal Shelter		
Project Zip Code:		Sampling Date & Time:	4/10/13
PO Number:		Sampled By:	Kaitlyn Bahr

TURN AROUND TIME CODES (TAT)

- **STD** – Standard (DEFAULT)
- **ND** – Next Business Day
- **SD** – Same Business Day Rush
- **WH** – Weekend / Holiday

Rushes received after 2pm or on weekends will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Samples

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)	Fungi – Spore Trap Analysis	Spore Trap Analysis – Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	Legionella culture	Total Coliform, E. coli (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	QuantiTray – Sewage Screen	Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify test):	Specify Service
AS-EXT-WC-D		B	STD	NA		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
AS-1-OF-FT3-D		↓	↓	↓		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	↓	☐	☐
AS-1-CR-CBM-D		↓	↓	↓		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	↓	☐	☐
AS-1-CA-CBM2-D		↓	↓	↓		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐

End of Job

SAMPLE TYPE CODES

BC – BioCassette ™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
A1S – Anderson		**SW** – Swab	**SO** – Soil
SAS – Surface Air Sampler	**P** – Potable Water	**B** – Bulk	
CP – Contact Plate	**NP** – Non-Potable Water	**O** – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
Kaitlyn Bahr (signature)	4/10/13 4pm	(signature)	4/12/13 900Am

2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Re: QuanTEM ID 220247

QuanTEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuanTEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,
QuanTEM Laboratories, LLC.

2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 220247
Account Number: B229

Date Received: 04/11/2013
Received By: Joanna Mueller
Date Analyzed: 04/16/2013
Analyzed By: Sandy Baker
Methodology: EPA/600/R-93/116

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Project: Municipal Farms - Animal Shelter Site
Project Location: Kansas City, MO
Project Number: X9004.06.0002.015.022A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
001	AS-1-CR-FT-1	Homogeneous	Tan Floor Tile	Asbestos Not Present	NA		Vinyl CaCO3
002	AS-1-CR-FT-2	Homogeneous	Tan Floor Tile	Asbestos Not Present	NA		Vinyl CaCO3
003	AS-1-CR-FT-3	Homogeneous	Tan Floor Tile	Asbestos Not Present	NA		Vinyl CaCO3
004	AS-1-CR-DWJC-1	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose	30	Gypsum
005	AS-1-CA-DWJC-2	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose	30	Gypsum
006	AS-1-CA-DWJC-3	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose	30	Gypsum
007	AS-1-CR-CT-1	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose Glass Fiber	30 30	Perlite Paint

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 220247
Account Number: B229

Date Received: 04/11/2013
Received By: Joanna Mueller
Date Analyzed: 04/16/2013
Analyzed By: Sandy Baker
Methodology: EPA/600/R-93/116

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Project: Municipal Farms - Animal Shelter Site
Project Location: Kansas City, MO
Project Number: X9004.06.0002.015.022A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
008	AS-1-CA-CT-2	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Perlite Paint
009	AS-1-CA-CT-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Perlite Paint
010	AS-1-CR-CBM-1	Homogeneous	Tan Mastic	Asbestos Not Present	NA	Glue
011	AS-1-CR-CBM-2	Homogeneous	Tan Mastic	Asbestos Not Present	NA	Glue
012	AS-1-CR-CBM-3	Homogeneous	Tan Mastic	Asbestos Not Present	NA	Glue
013	AS-1-CR-FT2-1	Layered	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
013a		Layered	Black Mastic	Asbestos Present Chrysotile 6	NA	Tar

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 220247
Account Number: B229

Date Received: 04/11/2013
Received By: Joanna Mueller
Date Analyzed: 04/16/2013
Analyzed By: Sandy Baker
Methodology: EPA/600/R-93/116

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Project: Municipal Farms - Animal Shelter Site
Project Location: Kansas City, MO
Project Number: X9004.06.0002.015.022A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
014	AS-1-R-FT2-2	Layered	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
014a		**	** Mastic	**	Not Analyzed	
Positive Stop						
015	AS-1-HW-FT2-3	Layered	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
015a		**	** Mastic	**	Not Analyzed	
Positive Stop						
016	AS-1-CR-PISC-1	Homogeneous	Gray Plaster	Asbestos Not Present	NA	Quartz CaCO3 Paint
017	AS-1-CA-PISC-2	Homogeneous	Gray Plaster	Asbestos Not Present	NA	Quartz CaCO3 Paint
018	AS-1-CA-PISC-3	Homogeneous	Gray Plaster	Asbestos Not Present	NA	Quartz CaCO3 Paint

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 220247
Account Number: B229

Date Received: 04/11/2013
Received By: Joanna Mueller
Date Analyzed: 04/16/2013
Analyzed By: Sandy Baker
Methodology: EPA/600/R-93/116

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Project: Municipal Farms - Animal Shelter Site
Project Location: Kansas City, MO
Project Number: X9004.06.0002.015.022A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
019	AS-1-OF-FT3-1	Homogeneous	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
020	AS-1-OF-FT3-2	Homogeneous	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
021	AS-1-OF-FT3-3	Homogeneous	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
022	AS-1-CA-CBM2-1	Homogeneous	Yellow Mastic	Asbestos Not Present	NA	Glue
023	AS-1-CA-CBM2-2	Homogeneous	Yellow Mastic	Asbestos Not Present	NA	Glue
024	AS-1-CA-CBM2-3	Homogeneous	Yellow Mastic	Asbestos Not Present	NA	Glue
025	AS-1-CD-CT2-1	Homogeneous	Gray Transite	Asbestos Present Chrysotile 25	NA	Quartz CaCO3

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 220247
Account Number: B229

Date Received: 04/11/2013
Received By: Joanna Mueller
Date Analyzed: 04/16/2013
Analyzed By: Sandy Baker
Methodology: EPA/600/R-93/116

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Project: Municipal Farms - Animal Shelter Site
Project Location: Kansas City, MO
Project Number: X9004.06.0002.015.022A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
026	AS-1-CD-CT2-2	**	**	**	Not Analyzed	
			Transite			
Positive Stop						
027	AS-1-CD-CT2-3	**	**	**	Not Analyzed	
			Transite			
Positive Stop						
028	AS-1-SR-FT4-1	Layered	Tan	Asbestos Present	NA	Vinyl
			Floor Tile	Chrysotile 3		CaCO3
028a		Layered	Black	Asbestos Present	Cellulose 2	Tar
			Mastic	Chrysotile 5		
029	AS-1-SR-FT4-2	Layered	**	**	Not Analyzed	
			Floor Tile			
Positive Stop						
029a		**	**	**	Not Analyzed	
			Mastic			
Positive Stop						
030	AS-1-SR-FT4-3	Layered	**	**	Not Analyzed	
			Floor Tile			

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 220247
Account Number: B229
Date Received: 04/11/2013
Received By: Joanna Mueller
Date Analyzed: 04/16/2013
Analyzed By: Sandy Baker
Methodology: EPA/600/R-93/116

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Project: Municipal Farms - Animal Shelter Site
Project Location: Kansas City, MO
Project Number: X9004.06.0002.015.022A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
Positive Stop							
030a		**	** Mastic	**	Not Analyzed		
Positive Stop							
031	AS-1-CA-SU-1	Homogeneous	Gray Sink Undercoat	Asbestos Not Present	Cellulose	30	CaCO3 Glue
032	AS-1-CA-SU-2	Homogeneous	Gray Sink Undercoat	Asbestos Not Present	Cellulose	30	CaCO3 Glue
033	AS-1-CA-SU-3	Homogeneous	Gray Sink Undercoat	Asbestos Not Present	Cellulose	30	CaCO3 Glue
034	AS-1-EXT-WC-1	Homogeneous	Gray Caulk	Asbestos Not Present	NA		Silicone
035	AS-1-EXT-WC-2	Homogeneous	Gray Caulk	Asbestos Not Present	NA		Silicone
036	AS-1-EXT-WC-3	Homogeneous	Gray Caulk	Asbestos Not Present	NA		Silicone

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 220247
Account Number: B229

Date Received: 04/11/2013
Received By: Joanna Mueller
Date Analyzed: 04/16/2013
Analyzed By: Sandy Baker
Methodology: EPA/600/R-93/116

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Project: Municipal Farms - Animal Shelter Site
Project Location: Kansas City, MO
Project Number: X9004.06.0002.015.022A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
037	AS-1-EXT-WG-1	Homogeneous	Black Window Glazing	Asbestos Not Present	NA	Silicone
038	AS-1-EXT-WG-2	Homogeneous	Black Window Glazing	Asbestos Not Present	NA	Silicone
039	AS-1-EXT-WG-3	Homogeneous	Black Window Glazing	Asbestos Not Present	NA	Silicone
040	AS-1-EXT-C-1	Homogeneous	Gray Caulk	Asbestos Not Present	NA	Silicone
041	AS-1-EXT-C-2	Homogeneous	Gray Caulk	Asbestos Not Present	NA	Silicone
042	AS-1-EXT-C-3	Homogeneous	Gray Caulk	Asbestos Not Present	NA	Silicone
043	AS-1-B-TSI-1	Homogeneous	Yellow Insulation	Asbestos Not Present	Glass Fiber 98	

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 220247
Account Number: B229

Date Received: 04/11/2013
Received By: Joanna Mueller
Date Analyzed: 04/16/2013
Analyzed By: Sandy Baker
Methodology: EPA/600/R-93/116

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Project: Municipal Farms - Animal Shelter Site
Project Location: Kansas City, MO
Project Number: X9004.06.0002.015.022A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
044	AS-1-B-TSI-2	Homogeneous	Yellow Insulation	Asbestos Not Present	Glass Fiber	98	
045	AS-1-B-TSI-3	Homogeneous	Yellow Insulation	Asbestos Not Present	Glass Fiber	98	
046	AS-1-EXT-RM-1	Homogeneous	White Sealant	Asbestos Not Present	NA		Silicone
047	AS-1-EXT-RM-2	Homogeneous	White Sealant	Asbestos Not Present	NA		Silicone
048	AS-1-EXT-RM-3	Homogeneous	White Sealant	Asbestos Not Present	NA		Silicone

Sandy Baker, Analyst

4/16/2013
Date of Report

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

ASBESTOS CHAIN OF CUSTODY

QUANTEM LABORATORIES
www.QuanTEM.com
2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only	
Lab No.	220247
Accept	Reject

Contact Information			
Company:	Tetra Tech	Phone:	(816) 412-1742
Contact:	Kaitlyn Bahr	Cell Phone:	
Account #:		E-mail:	kaitlyn.bahr@tetratech.com
SAMPLED BY: Name:	Kaitlyn Bahr	Date:	4/10/13

Project Information	
Project Name:	Muncipal Farms - Animal Shelter Site
Project Location:	Kansas City, MO
Project ID:	X9004.06.0002.015.022A
P.O. Number:	

Report Results (☑ one box)	
☑	QuanTEM Website
☐	Other _____

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
Kevin Bahr	4/10/13 4pm		J Mueller	4/11/13 10:30

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

PLM	
☑	Bulk Analysis (EPA 600/R-93/116)
☐	400 Point Count
☐	1000 Point Count
☐	Gravimetric Preparation
☐	Particle ID

PLM	
☐	Vermiculite Attic Insulation (EPA 600/R-04/004)
☐	Other

PCM	
☐	NIOSH 7400

TEM	
☐	Air- AHERA
☐	Air- NIOSH 7402
☐	Air- ISO 10312
☐	Drinking Water- EPA 100.2
☐	Waste Water- EPA 600/4-83-043

TEM	
☐	Bulk- Presence / Absence EPA600/R-93/116
☐	Bulk- Quantitative [weight%]- Chatfield
☐	Dust- Presence / Absence
☐	Dust- Quantitative [fibers/sq.cm]- ASTM D5755
☐	Other

TURNAROUND TIME	
☐	Rush
☐	Same Day
☐	24 - Hour
☐	3 - Day
☑	5 - Day

No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
1	AS-1-CR-FT-1	☐		Floor Tile	NA	Stop on 1st Positive
2		2 ☐				
3		3 ☐				
4	AS-1-CR-DWJC-1	☐		Drywall / Joint compound		
5	CA	2 ☐				
6		3 ☐				
7	AS-1-CR-CT-1	☐		Ceiling Tile		
8	CA	2 ☐				
9		3 ☐				
10	AS-1-CR-CBM-1	☐		Cove Base Mastic		

SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"

ASBESTOS CHAIN OF CUSTODY

QUANTEM LABORATORIES
www.QuanTEM.com
2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only
Lab No. 220247
Accept Reject

Project Information

Company: Tetra Tech | Project Name: Muncipal Farms - Animal Shelter Site | Project Location: Kansas City, MO

No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
11	AS-1-CR-CBM-2	☐		Cove Base Mastic	NA	Stop on 1st Positive
12		3 ☐				
13	AS-1-CR-FT2-1	☐		Floor Tile		
14	R	2 ☐				
15	HW	3 ☐				
16	AS-1-CR-PISC-1	☐		Plaster & Skim Coat		
17	CA	2 ☐				
18		3 ☐				
19	AS-1-OF-FT3-1	☐		Floor Tile		
20		2 ☐				
21		3 ☐				
22	AS-1-CA-CBM2-1	☐		Cove Base Mastic		
23		2 ☐				
24		3 ☐				
25	AS-1-CO-CT2-1	☐		Ceiling Tile		
26		2 ☐				
27		3 ☐				
28	AS-1-SR-FT4-1	☐		Floor Tile		
29		2 ☐				
30		3 ☑				

SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"

ASBESTOS CHAIN OF CUSTODY

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2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only
Lab No. 200247
Accept Reject

Project Information

Company: Tetra Tech | Project Name: Muncipal Farms - Animal Shelter Site | Project Location: Kansas City, MO

No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
31	AS-I-CA-SU	-1 ☐		Sink Undercoat	NA	Stop on 1st Positive
32		2 ☐				
33		3 ☐				
34	AS-EXT-WC-	1 ☐		Window Caulk		
35		2 ☐				
36		3 ☐				
37	AS-EXT-WG-	1 ☐		Window Glaze		
38		2 ☐				
39		3 ☐				
40	AS-EXT-C-1	☐		Caulking		
41	2	☐				
42	3	☐				
43	AS-B-TSI-1	☐		TSI		
44	2	☐				
45	3	☐				
46	AS-EXT-RM-1	☐		Roof Material		
47		2 ☐				
48		3 ☑				
49		☐				
50		☐		End of Job		

SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"

Date Tested:	4/10/13
Analyst:	KK
Work Order:	1303837-06A

Sand	8.74%
Silt	25.76%
Clay	65.50%

2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Re: QuanTEM ID 220249

QuanTEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuanTEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,
QuanTEM Laboratories, LLC.

2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID: 220249
Date Received: 04/11/13
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: BM
Date of Report: 4/18/2013

AIHA ID: 101352

Client: Tetra Tech EM, Inc.
415 Oak Street
Kansas City, MO 64106

Acct. No.: B229
Project: Municipal Farms-Animal Shelter Site
Location: Kansas City, MO
Project No.: X9004.06.0002.015.022A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	AS-LBP1	Paint	Lead	<0.0169	0.0169	%	04/17/13 13:55	P EPA 7000B (1)
002	AS-LBP2	Paint	Lead	0.103	0.0107	%	04/17/13 13:55	P EPA 7000B (1)
003	AS-LBP3	Paint	Lead	<0.00844	0.00844	%	04/17/13 13:55	P EPA 7000B (1)
004	AS-LBP4	Paint	Lead	<0.00796	0.00796	%	04/17/13 13:55	P EPA 7000B (1)

Authorized Signature: _____

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report
QAQC Results

QA ID: 10967
Test: Lead

Date: 4/17/2013
Matrix: Paint

Lab Number: 220249
Approved By: Benton Miller
Date Approved: 4/17/2013

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.2	5.5
FCV	4.5	5.1	5.5
ICV	0.9	1.1	1.1
RLVS	0.192	0.26	0.288

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-P2	0.000	2.057	1.922	93.5	1.928	93.7	0.3
LCS-P1	0.000	2.053	1.913	93.2	1.901	92.6	0.7
220425-001	0.000	2.000	2.101	105.0			
220337-001	0.000	2.000	2.171	108.5			

Authorized Signature: _____

Benton Miller, Analyst

QuanTEM LABORATORIES
www.QuanTEM.com

LEAD CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only	
Lab No.	220249
(Accept)	Reject

Report Results (☑ one box)	
✓	QuanTEM Website
	Other

Contact Information

Company: Tetra Tech	Phone: (816) 412-1742
Contact: Kaitlyn Bahr	Cell Phone:
Account #:	E-mail: kaitlyn.bahr@tetratech.com

Project Information

Project Name:	Municipal Farms - Animal Shelter Site
Project Location:	Kansas City, MO
Project ID:	X9004.06.0002.015.022A

Sampled By: Name: Jeff Mitchell Date: 04/10/2013

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
[signature]	4/10/13		[signature]	4/11/13 10:30

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis: Pb			Units: PPM	Wt %	mg / l	µg /ft²	µg / m³	mg / cm²
1	AS-LBP1	Grey Paint	NA	NA	B	↓				✓				
2	AS-LBP2	Grey Paint	↓	↓	↓	↓				↓				
3	AS-LBP3	Grey Paint	↓	↓	↓	↓				↓				
4	AS-LBP4	Yellow Paint	↓	↓	↓	↓				↓				
5														
6														
7														
8		End of Job												
9														
10														
11														
12														

Sample Matrix Codes	
A	Soil
B	Paint Chips
C	Surface / Dust Wipes
D	Bulk Miscellaneous
E	Air Cassette

TURNAROUND TIME	
	Same Day
	24 - Hour
	3 - Day
✓	5 - Day

DATA VERIFICATION REPORT

Prepared by: **Harry Ellis**

Date: **23 April 2013**

Site Name/Job Number: **Animal Shelter, Municipal Farm, KCMO**

Laboratory: **ALS Environmental/Holland, Michigan**

Data Package or SDG Number: **1303837**

Sample Designation/Name (ID): **GW-2, SS-1, SS-2, SS-3, SS-4, and SB-7 (9-11')**

Matrices: **Water and soil**

Analytical Parameters: **VOC, GRO, SVOC, DRO, ORO, Pesticides, Herbicides, Metals, and TDS**

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Chain of custody	X			
Data package completeness	X			Summary package, as requested
Sample preservation, storage, and holding times	X			Some sample bottles (unspecified) were received at the laboratory above acceptable temperature range. If VOC and GRO sample bottles were in that high range, their results would be estimated, biased low. If sample temperature was ≤ 9 ºC at collection, no qualifications are required.
Method and field blank contamination	X			Thallium, chloroform, and methylene chloride in soil samples are laboratory artifacts and qualified "U".
Surrogate spikes	X			Interactions with trisodium phosphate preservative caused low recovery of one VOC surrogate in soil samples. No qualifications were applied.
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	X			Irregularities in samples from other sites and excessive recoveries for nondetected samples do not lead to qualifications. However, in MS/MSD analyses on GW-2, low recoveries for 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, and 1,2-dibromo-3-chloropropane qualify nondetected results for those compounds in that sample as estimated ("UJ"). And low recoveries for about half of VOC in

				MS/MSD analyses on sample SS-3 lead to qualification ("J" or "UJ", as appropriate) for all VOC in SS-3 due to matrix interference. The same interference may be present in other soil samples.
Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)	X			No qualifications applied for a few excessive recoveries for nondetected VOC and SVOC
Other			X	
Summary Some results were below the calibration range; the laboratory properly qualified these as estimated (flagged "J"). For analytes above undiluted calibration range, The laboratory re-analyzed at a dilution and reported the latter, so no further qualifications are required. Also, in some cases, the laboratory performed the original analysis at a dilution, so reporting limits are correspondingly raised. All results are usable as qualified.				

DATA VERIFICATION REPORT

Prepared by: **Harry Ellis**

Date: **23 April 2013**

Site Name/Job Number: **Animal Shelter, Municipal Farm, KCMO**

Laboratory: **Lancaster Laboratories/Lancaster, Pennsylvania**

Data Package or SDG Number: **1379124**

Sample Designation/Name (ID): **SS-1, SS-2, SS-3, and SS-4**

Matrices: **Soil**

Analytical Parameters: **Warfarin**

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Chain of custody	X			
Data package completeness	X			Summary package, as requested
Sample preservation, storage, and holding times	X			
Method and field blank contamination	X			
Surrogate spikes			X	
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	X			MSD recovery slightly low, but average recovery acceptable. No qualifications applied.
Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)	X			
Other			X	
Summary None detected in any sample. Results are usable as reported.				

17-Apr-2013

Emily Fisher
Tetra Tech
415 Oak Street
Kansas City, MO 64106

Re: **Municipal Farms Animal Shelter 3/22/13** Work Order: **1303837**

Dear Emily,

ALS Environmental received 6 samples on 26-Mar-2013 09:30 AM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 122.

If you have any questions regarding these test results, please feel free to contact me.

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Group An ALS Limited Company

ALS Group USA, Corp

Date: 17-Apr-13

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Work Order: **1303837**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1303837-01	GW-2	Water		3/22/2013 14:40	3/26/2013 09:30	☐
1303837-02	SS-1	Soil		3/22/2013 13:47	3/26/2013 09:30	☐
1303837-03	SS-2	Soil		3/22/2013 15:35	3/26/2013 09:30	☐
1303837-04	SS-3	Soil		3/22/2013 14:05	3/26/2013 09:30	☐
1303837-05	SS-4	Soil		3/22/2013 16:00	3/26/2013 09:30	☐
1303837-06	SB-7 (9-11')	Soil		3/22/2013 16:40	3/26/2013 09:30	☐

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Work Order: 1303837

Case Narrative

This revised report includes the hydrometer soil classifications for the Grain Size.

Batch 47181 LCS recovery for Methoxychlor was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for Methoxychlor.

Batch 47230 LCS recovery for MCPP was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for MCPP. Sample SS-1 MS/MSD recoveries for Dichlorprop were above the upper control limit. The corresponding result in the parent sample was non-detect. No qualification is required for this Dichlorprop.

Batch 47241 LCS recovery for Carbazole was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for Carbazole. The MS/MSD data for Semi-Volatiles is not related to this project's samples. No data requires qualification.

Batch 47245 MS/MSD data for Herbicides is not related to this project's samples. No data requires qualification.

Batch 47249 MS/MSD data for Volatiles is not related to this project's samples. No data requires qualification.

Batch 47263 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch R118032 LCS recoveries for 4-Methyl-2-Pentanone and MTBE were outside of the upper control limit All sample results in the batch were non-detect. No qualification is necessary for 4-Methyl-2-Pentanone or MTBE. The MS/MSD data for Volatiles is not related to this project's samples. No data requires qualification.

All Volatiles analyses run with the TSP preservative had one low surrogate recovery. This low surrogate recovery is due to the preservative, not the matrix. No data requires qualification.

Batch R118006A LCS recovery for 4-Methyl-2-Pentanone was outside of the upper control limit All sample results in the batch were non-detect. No qualification is necessary for 4-Methyl-2-Pentanone. Sample GW-2 MS/MSD recoveries for several compounds were above control limits. The corresponding results in the parent sample were non-detect. No qualification is required for these compounds. The MS/MSD recoveries for 1,1,2,2-TDA, 1,1,2-TCE, and 1,2-Dibromo-3-chloropropane were below control limits. The corresponding reporting limits in the parent sample may be biased low for these compounds.

Client:	Tetra Tech
Project:	Municipal Farms Animal Shelter 3/22/13
Work Order:	1303837

Case Narrative

Batch R118121 LCS recovery for MTBE was outside of the upper control limit All sample results in the batch were non-detect. No qualification is necessary for MTBE. Sample SS-3 MS/MSD recoveries for many Volatile compounds were below the control limits. The corresponding results and reporting limits in the parent sample may be biased low due to matrix interference.

ALS Group USA, Corp

Date: 17-Apr-13

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
WorkOrder: **1303837**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
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

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
% Passing	Percent Passing
µg/Kg-dry	Micrograms per Kilogram Dry Weight
µg/L	Micrograms per Liter
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: GW-2
Collection Date: 3/22/2013 02:40 PM

Work Order: 1303837
Lab ID: 1303837-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
HERBICIDES		Method: **SW8151**			Prep: SW8151M / 3/27/13		Analyst: **RM**
2,4,5-T	U		0.036	0.10	µg/L	1	4/1/2013 14:52
2,4,5-TP (Silvex)	U		0.068	0.20	µg/L	1	4/1/2013 14:52
2,4-D	U		0.083	0.20	µg/L	1	4/1/2013 14:52
2,4-DB	U		0.050	0.10	µg/L	1	4/1/2013 14:52
Dalapon	U		0.050	0.10	µg/L	1	4/1/2013 14:52
Dicamba	U		0.050	0.10	µg/L	1	4/1/2013 14:52
Dichlorprop	U		0.050	0.10	µg/L	1	4/1/2013 14:52
Dinoseb	U		0.050	0.10	µg/L	1	4/1/2013 14:52
MCPA	U		0.10	0.20	µg/L	1	4/1/2013 14:52
MCPP	U		0.10	0.20	µg/L	1	4/1/2013 14:52
Surr: DCAA	*75.2*			*30-150*	*%REC*	1	4/1/2013 14:52
PESTICIDES		Method: **SW8081**			Prep: SW3510 / 3/29/13		Analyst: **RM**
4,4´-DDD	U		0.0028	0.020	µg/L	1	4/1/2013 16:08
4,4´-DDE	U		0.0025	0.020	µg/L	1	4/1/2013 16:08
4,4´-DDT	U		0.0028	0.020	µg/L	1	4/1/2013 16:08
Aldrin	U		0.0054	0.010	µg/L	1	4/1/2013 16:08
alpha-BHC	U		0.0028	0.010	µg/L	1	4/1/2013 16:08
alpha-Chlordane	U		0.0038	0.020	µg/L	1	4/1/2013 16:08
beta-BHC	U		0.0066	0.010	µg/L	1	4/1/2013 16:08
Chlordane, Technical	U		0.022	0.50	µg/L	1	4/1/2013 16:08
delta-BHC	U		0.0026	0.010	µg/L	1	4/1/2013 16:08
Dieldrin	U		0.0022	0.020	µg/L	1	4/1/2013 16:08
Endosulfan I	U		0.0024	0.020	µg/L	1	4/1/2013 16:08
Endosulfan II	U		0.0028	0.020	µg/L	1	4/1/2013 16:08
Endosulfan sulfate	U		0.0022	0.020	µg/L	1	4/1/2013 16:08
Endrin	U		0.0022	0.020	µg/L	1	4/1/2013 16:08
Endrin aldehyde	U		0.0028	0.020	µg/L	1	4/1/2013 16:08
Endrin ketone	U		0.0022	0.020	µg/L	1	4/1/2013 16:08
gamma-BHC (Lindane)	U		0.0030	0.010	µg/L	1	4/1/2013 16:08
gamma-Chlordane	U		0.0030	0.020	µg/L	1	4/1/2013 16:08
Heptachlor	U		0.0083	0.010	µg/L	1	4/1/2013 16:08
Heptachlor epoxide	U		0.0030	0.010	µg/L	1	4/1/2013 16:08
Methoxychlor	U		0.0030	0.040	µg/L	1	4/1/2013 16:08
Toxaphene	U		0.042	2.0	µg/L	1	4/1/2013 16:08
Surr: Decachlorobiphenyl	*85.0*			*30-145*	*%REC*	1	4/1/2013 16:08
Surr: Tetrachloro-m-xylene	*55.0*			*25-140*	*%REC*	1	4/1/2013 16:08
MERCURY BY CVAA (DISSOLVED)		Method: **SW7470**			Prep: SW7470 / 3/29/13		Analyst: **LR**

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: GW-2
Collection Date: 3/22/2013 02:40 PM

Work Order: 1303837
Lab ID: 1303837-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury	U		0.00010	0.00020	mg/L	1	3/29/2013 12:31
METALS BY ICP-MS (DISSOLVED)		Method: **SW6020A**					Analyst: **RH**
Antimony	**0.000097**	J	**0.000036**	**0.0050**	**mg/L**	1	4/2/2013 16:18
Arsenic	U		0.00058	0.0050	mg/L	1	4/2/2013 16:18
Beryllium	U		0.000082	0.0020	mg/L	1	4/2/2013 16:18
Cadmium	**0.00020**	J	**0.000045**	**0.0020**	**mg/L**	1	4/2/2013 16:18
Chromium	**0.00037**	J	**0.00027**	**0.0050**	**mg/L**	1	4/2/2013 16:18
Copper	U		0.00053	0.0050	mg/L	1	4/2/2013 16:18
Lead	**0.000075**	J	**0.000051**	**0.0030**	**mg/L**	1	4/2/2013 16:18
Nickel	**0.0086**		**0.00025**	**0.0050**	**mg/L**	1	4/2/2013 16:18
Selenium	**0.0020**	J	**0.00064**	**0.0050**	**mg/L**	1	4/2/2013 16:18
Silver	U		0.000042	0.00020	mg/L	1	4/2/2013 16:18
Thallium	U		0.000062	0.0050	mg/L	1	4/2/2013 16:18
Zinc	**0.0038**	J	**0.00048**	**0.010**	**mg/L**	1	4/2/2013 16:18
DIESEL RANGE ORGANICS BY GC-MS		Method: **SW8270**			Prep: SW3510 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	U		0.013	0.10	mg/L	1	4/1/2013 09:06
ORO (C21-C35)	U		0.027	0.10	mg/L	1	4/1/2013 09:06
Surr: 4-Terphenyl-d14	*82.4*			*23-112*	*%REC*	1	4/1/2013 09:06
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW8270**			Prep: SW3510 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		0.095	5.0	µg/L	1	3/29/2013 06:44
2,4,5-Trichlorophenol	U		0.12	5.0	µg/L	1	3/29/2013 06:44
2,4,6-Trichlorophenol	U		0.11	5.0	µg/L	1	3/29/2013 06:44
2,4-Dichlorophenol	U		0.22	10	µg/L	1	3/29/2013 06:44
2,4-Dimethylphenol	U		0.24	5.0	µg/L	1	3/29/2013 06:44
2,4-Dinitrophenol	U		0.76	5.0	µg/L	1	3/29/2013 06:44
2,4-Dinitrotoluene	U		0.78	5.0	µg/L	1	3/29/2013 06:44
2,6-Dinitrotoluene	U		0.82	5.0	µg/L	1	3/29/2013 06:44
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	3/29/2013 06:44
2-Chlorophenol	U		0.73	5.0	µg/L	1	3/29/2013 06:44
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	3/29/2013 06:44
2-Methylphenol	U		0.60	5.0	µg/L	1	3/29/2013 06:44
2-Nitroaniline	U		0.11	20	µg/L	1	3/29/2013 06:44
2-Nitrophenol	U		0.19	5.0	µg/L	1	3/29/2013 06:44
3,3´-Dichlorobenzidine	U		0.54	5.0	µg/L	1	3/29/2013 06:44
3-Nitroaniline	U		2.5	20	µg/L	1	3/29/2013 06:44
4,6-Dinitro-2-methylphenol	U		0.34	20	µg/L	1	3/29/2013 06:44
4-Bromophenyl phenyl ether	U		0.11	5.0	µg/L	1	3/29/2013 06:44
4-Chloro-3-methylphenol	U		0.65	5.0	µg/L	1	3/29/2013 06:44

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: GW-2
Collection Date: 3/22/2013 02:40 PM

Work Order: 1303837
Lab ID: 1303837-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloroaniline	U		1.1	20	µg/L	1	3/29/2013 06:44
4-Chlorophenyl phenyl ether	U		0.11	5.0	µg/L	1	3/29/2013 06:44
4-Methylphenol	U		0.55	5.0	µg/L	1	3/29/2013 06:44
4-Nitroaniline	U		1.5	20	µg/L	1	3/29/2013 06:44
4-Nitrophenol	U		1.6	20	µg/L	1	3/29/2013 06:44
Acenaphthene	U		0.11	5.0	µg/L	1	3/29/2013 06:44
Acenaphthylene	U		0.12	5.0	µg/L	1	3/29/2013 06:44
Acetophenone	U		0.090	1.0	µg/L	1	3/29/2013 06:44
Anthracene	U		0.72	5.0	µg/L	1	3/29/2013 06:44
Atrazine	U		3.2	10	µg/L	1	3/29/2013 06:44
Benzaldehyde	U		0.46	1.0	µg/L	1	3/29/2013 06:44
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	3/29/2013 06:44
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	3/29/2013 06:44
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	3/29/2013 06:44
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	3/29/2013 06:44
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	3/29/2013 06:44
Bis(2-chloroethoxy)methane	U		0.13	5.0	µg/L	1	3/29/2013 06:44
Bis(2-chloroethyl)ether	U		0.11	5.0	µg/L	1	3/29/2013 06:44
Bis(2-chloroisopropyl)ether	U		0.12	5.0	µg/L	1	3/29/2013 06:44
Bis(2-ethylhexyl)phthalate	U		0.12	5.0	µg/L	1	3/29/2013 06:44
Butyl benzyl phthalate	U		0.11	5.0	µg/L	1	3/29/2013 06:44
Caprolactam	U		4.7	10	µg/L	1	3/29/2013 06:44
Carbazole	U		0.84	10	µg/L	1	3/29/2013 06:44
Chrysene	U		0.71	5.0	µg/L	1	3/29/2013 06:44
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	3/29/2013 06:44
Dibenzofuran	U		0.11	5.0	µg/L	1	3/29/2013 06:44
Diethyl phthalate	U		0.69	20	µg/L	1	3/29/2013 06:44
Dimethyl phthalate	U		0.14	20	µg/L	1	3/29/2013 06:44
Di-n-butyl phthalate	U		0.71	5.0	µg/L	1	3/29/2013 06:44
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	3/29/2013 06:44
Fluoranthene	U		0.77	5.0	µg/L	1	3/29/2013 06:44
Fluorene	U		0.10	5.0	µg/L	1	3/29/2013 06:44
Hexachlorobenzene	U		0.10	5.0	µg/L	1	3/29/2013 06:44
Hexachlorobutadiene	U		0.12	5.0	µg/L	1	3/29/2013 06:44
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	3/29/2013 06:44
Hexachloroethane	U		0.13	5.0	µg/L	1	3/29/2013 06:44
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	3/29/2013 06:44
Isophorone	U		0.12	5.0	µg/L	1	3/29/2013 06:44
Naphthalene	U		0.12	5.0	µg/L	1	3/29/2013 06:44
Nitrobenzene	U		0.10	5.0	µg/L	1	3/29/2013 06:44

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

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: GW-2
Collection Date: 3/22/2013 02:40 PM

Work Order: 1303837
Lab ID: 1303837-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		0.13	5.0	µg/L	1	3/29/2013 06:44
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	3/29/2013 06:44
Pentachlorophenol	U		0.11	20	µg/L	1	3/29/2013 06:44
Phenanthrene	U		0.86	5.0	µg/L	1	3/29/2013 06:44
Phenol	U		0.094	5.0	µg/L	1	3/29/2013 06:44
Pyrene	U		0.65	5.0	µg/L	1	3/29/2013 06:44
Surr: 2,4,6-Tribromophenol	*63.7*			*32-115*	*%REC*	1	3/29/2013 06:44
Surr: 2-Fluorobiphenyl	*62.7*			*32-100*	*%REC*	1	3/29/2013 06:44
Surr: 2-Fluorophenol	*36.9*			*22-59*	*%REC*	1	3/29/2013 06:44
Surr: 4-Terphenyl-d14	*80.8*			*23-112*	*%REC*	1	3/29/2013 06:44
Surr: Nitrobenzene-d5	*63.6*			*31-93*	*%REC*	1	3/29/2013 06:44
Surr: Phenol-d6	*20.1*			*13-36*	*%REC*	1	3/29/2013 06:44
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	3/28/2013 09:21
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	3/28/2013 09:21
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	3/28/2013 09:21
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	3/28/2013 09:21
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	3/28/2013 09:21
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	3/28/2013 09:21
1,2,4-Trichlorobenzene	U		0.16	1.0	µg/L	1	3/28/2013 09:21
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	3/28/2013 09:21
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	3/28/2013 09:21
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	3/28/2013 09:21
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	3/28/2013 09:21
1,2-Dichloropropane	U		0.13	2.0	µg/L	1	3/28/2013 09:21
1,3-Dichlorobenzene	U		0.16	2.0	µg/L	1	3/28/2013 09:21
1,4-Dichlorobenzene	U		0.15	2.0	µg/L	1	3/28/2013 09:21
2-Butanone	U		0.22	5.0	µg/L	1	3/28/2013 09:21
2-Hexanone	U		0.12	5.0	µg/L	1	3/28/2013 09:21
4-Methyl-2-pentanone	U		0.096	5.0	µg/L	1	3/28/2013 09:21
Acetone	U		0.33	20	µg/L	1	3/28/2013 09:21
Benzene	U		0.18	1.0	µg/L	1	3/28/2013 09:21
Bromodichloromethane	U		0.12	1.0	µg/L	1	3/28/2013 09:21
Bromoform	U		0.15	1.0	µg/L	1	3/28/2013 09:21
Bromomethane	U		0.21	1.0	µg/L	1	3/28/2013 09:21
Carbon disulfide	U		0.17	2.5	µg/L	1	3/28/2013 09:21
Carbon tetrachloride	U		0.12	1.0	µg/L	1	3/28/2013 09:21
Chlorobenzene	U		0.13	1.0	µg/L	1	3/28/2013 09:21
Chloroethane	U		0.46	1.0	µg/L	1	3/28/2013 09:21

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

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: GW-2
Collection Date: 3/22/2013 02:40 PM

Work Order: 1303837
Lab ID: 1303837-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.15	1.0	µg/L	1	3/28/2013 09:21
Chloromethane	U		0.16	1.0	µg/L	1	3/28/2013 09:21
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	3/28/2013 09:21
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	3/28/2013 09:21
Cyclohexane	U		0.22	5.0	µg/L	1	3/28/2013 09:21
Dibromochloromethane	U		0.13	1.0	µg/L	1	3/28/2013 09:21
Dichlorodifluoromethane	U		0.20	1.0	µg/L	1	3/28/2013 09:21
Ethylbenzene	U		0.13	1.0	µg/L	1	3/28/2013 09:21
GRO (C6-C10)	U		25	100	µg/L	1	3/28/2013 09:21
Isopropylbenzene	U		0.14	1.0	µg/L	1	3/28/2013 09:21
m,p-Xylene	U		0.20	2.0	µg/L	1	3/28/2013 09:21
Methyl acetate	U		0.19	2.0	µg/L	1	3/28/2013 09:21
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	3/28/2013 09:21
Methylcyclohexane	U		0.99	5.0	µg/L	1	3/28/2013 09:21
Methylene chloride	U		0.19	5.0	µg/L	1	3/28/2013 09:21
o-Xylene	U		0.086	1.0	µg/L	1	3/28/2013 09:21
Styrene	U		0.11	1.0	µg/L	1	3/28/2013 09:21
Tetrachloroethene	U		0.15	2.0	µg/L	1	3/28/2013 09:21
Toluene	U		0.12	1.0	µg/L	1	3/28/2013 09:21
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	3/28/2013 09:21
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	3/28/2013 09:21
Trichloroethene	U		0.14	1.0	µg/L	1	3/28/2013 09:21
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	3/28/2013 09:21
Vinyl chloride	U		0.17	1.0	µg/L	1	3/28/2013 09:21
Xylenes, Total	U		0.29	3.0	µg/L	1	3/28/2013 09:21
Surr: 1,2-Dichloroethane-d4	*96.9*			*70-120*	*%REC*	1	3/28/2013 09:21
Surr: 4-Bromofluorobenzene	*100*			*75-120*	*%REC*	1	3/28/2013 09:21
Surr: Dibromofluoromethane	*87.3*			*85-115*	*%REC*	1	3/28/2013 09:21
Surr: Toluene-d8	*96.9*			*85-120*	*%REC*	1	3/28/2013 09:21
Surr: Toluene-d8	*87.8*			*85-120*	*%REC*	1	3/28/2013 09:21
TOTAL DISSOLVED SOLIDS		Method: **A2540 C**					Analyst: **KF**
Total Dissolved Solids	**720**		**7.2**	**10**	**mg/L**	1	3/28/2013 17:10

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-1
Collection Date: 3/22/2013 01:47 PM

Work Order: 1303837
Lab ID: 1303837-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
HERBICIDES		Method: **SW8151**			Prep: SW8151M / 3/27/13		Analyst: **RM**
2,4,5-T	U		13,000	670,000	µg/Kg-dry	10	4/1/2013 14:52
2,4,5-TP (Silvex)	U		9,000	1,300,000	µg/Kg-dry	10	4/1/2013 14:52
2,4-D	U		9,600	670,000	µg/Kg-dry	10	4/1/2013 14:52
2,4-DB	U		44,000	670,000	µg/Kg-dry	10	4/1/2013 14:52
Dalapon	U		44,000	670,000	µg/Kg-dry	10	4/1/2013 14:52
Dicamba	U		44,000	670,000	µg/Kg-dry	10	4/1/2013 14:52
Dichlorprop	U		44,000	670,000	µg/Kg-dry	10	4/1/2013 14:52
Dinoseb	U		44,000	670,000	µg/Kg-dry	10	4/1/2013 14:52
MCPA	U		4,400,000	23,000,000	µg/Kg-dry	10	4/1/2013 14:52
MCPP	U		4,400,000	23,000,000	µg/Kg-dry	10	4/1/2013 14:52
Surr: DCAA	*80.0*			*30-150*	*%REC*	10	4/1/2013 14:52
PESTICIDES		Method: **SW8081**			Prep: SW3541 / 3/26/13		Analyst: **RM**
4,4´-DDD	U		21	64	µg/Kg-dry	5	3/29/2013 17:16
4,4´-DDE	U		13	64	µg/Kg-dry	5	3/29/2013 17:16
4,4´-DDT	U		15	64	µg/Kg-dry	5	3/29/2013 17:16
Aldrin	U		5.8	64	µg/Kg-dry	5	3/29/2013 17:16
alpha-BHC	U		21	64	µg/Kg-dry	5	3/29/2013 17:16
alpha-Chlordane	U		18	64	µg/Kg-dry	5	3/29/2013 17:16
beta-BHC	U		24	64	µg/Kg-dry	5	3/29/2013 17:16
Chlordane, Technical	U		64	160	µg/Kg-dry	5	3/29/2013 17:16
delta-BHC	U		24	64	µg/Kg-dry	5	3/29/2013 17:16
Dieldrin	U		5.4	64	µg/Kg-dry	5	3/29/2013 17:16
Endosulfan I	U		8.4	64	µg/Kg-dry	5	3/29/2013 17:16
Endosulfan II	U		7.1	64	µg/Kg-dry	5	3/29/2013 17:16
Endosulfan sulfate	U		7.9	64	µg/Kg-dry	5	3/29/2013 17:16
Endrin	U		19	64	µg/Kg-dry	5	3/29/2013 17:16
Endrin aldehyde	U		16	64	µg/Kg-dry	5	3/29/2013 17:16
Endrin ketone	U		25	64	µg/Kg-dry	5	3/29/2013 17:16
gamma-BHC (Lindane)	U		30	64	µg/Kg-dry	5	3/29/2013 17:16
gamma-Chlordane	U		11	64	µg/Kg-dry	5	3/29/2013 17:16
Heptachlor	U		33	64	µg/Kg-dry	5	3/29/2013 17:16
Heptachlor epoxide	U		10	64	µg/Kg-dry	5	3/29/2013 17:16
Methoxychlor	U		16	64	µg/Kg-dry	5	3/29/2013 17:16
Toxaphene	U		75	390	µg/Kg-dry	5	3/29/2013 17:16
Surr: Decachlorobiphenyl	*100*			*45-135*	*%REC*	5	3/29/2013 17:16
Surr: Tetrachloro-m-xylene	*95.1*			*45-124*	*%REC*	5	3/29/2013 17:16
MERCURY BY CVAA		Method: **SW7471**			Prep: SW7471 / 3/29/13		Analyst: **LR**

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-1
Collection Date: 3/22/2013 01:47 PM

Work Order: 1303837
Lab ID: 1303837-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury	**0.047**		**0.0010**	**0.020**	**mg/Kg-dry**	1	3/29/2013 13:54
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/28/13		Analyst: **RH**
Antimony	**0.58**		**0.0019**	**0.49**	**mg/Kg-dry**	1	3/29/2013 18:27
Arsenic	**6.4**		**0.066**	**0.49**	**mg/Kg-dry**	1	3/29/2013 18:27
Beryllium	**0.50**		**0.0039**	**0.19**	**mg/Kg-dry**	1	3/29/2013 18:27
Cadmium	**0.62**		**0.0019**	**0.19**	**mg/Kg-dry**	1	4/1/2013 21:24
Chromium	**17**		**0.080**	**0.49**	**mg/Kg-dry**	1	3/29/2013 18:27
Copper	**16**		**0.096**	**0.49**	**mg/Kg-dry**	1	3/29/2013 18:27
Lead	**37**		**0.0019**	**0.49**	**mg/Kg-dry**	1	4/1/2013 21:24
Nickel	**23**		**0.049**	**0.49**	**mg/Kg-dry**	1	3/29/2013 18:27
Selenium	**1.2**		**0.062**	**0.49**	**mg/Kg-dry**	1	3/29/2013 18:27
Silver	**0.068**	J	**0.0019**	**0.49**	**mg/Kg-dry**	1	4/1/2013 21:24
Thallium	**0.26**	J	**0.012**	**0.49**	**mg/Kg-dry**	1	4/1/2013 21:24
Zinc	**74**		**0.041**	**0.97**	**mg/Kg-dry**	1	3/29/2013 18:27
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	**26**		**1.6**	**3.8**	**mg/Kg-dry**	1	4/1/2013 14:06
ORO (C21-C35)	**110**		**1.8**	**3.8**	**mg/Kg-dry**	1	4/1/2013 14:06
Surr: 4-Terphenyl-d14	*92.8*			*25-137*	*%REC*	1	4/1/2013 14:06
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		6.5	440	µg/Kg-dry	1	4/1/2013 14:06
2,4,5-Trichlorophenol	U		11	210	µg/Kg-dry	1	4/1/2013 14:06
2,4,6-Trichlorophenol	U		11	210	µg/Kg-dry	1	4/1/2013 14:06
2,4-Dichlorophenol	U		13	210	µg/Kg-dry	1	4/1/2013 14:06
2,4-Dimethylphenol	U		54	440	µg/Kg-dry	1	4/1/2013 14:06
2,4-Dinitrophenol	U		56	870	µg/Kg-dry	1	4/1/2013 14:06
2,4-Dinitrotoluene	U		12	210	µg/Kg-dry	1	4/1/2013 14:06
2,6-Dinitrotoluene	U		12	210	µg/Kg-dry	1	4/1/2013 14:06
2-Chloronaphthalene	U		12	110	µg/Kg-dry	1	4/1/2013 14:06
2-Chlorophenol	U		12	210	µg/Kg-dry	1	4/1/2013 14:06
2-Methylnaphthalene	U		13	110	µg/Kg-dry	1	4/1/2013 14:06
2-Methylphenol	U		13	210	µg/Kg-dry	1	4/1/2013 14:06
2-Nitroaniline	U		10	870	µg/Kg-dry	1	4/1/2013 14:06
2-Nitrophenol	U		11	210	µg/Kg-dry	1	4/1/2013 14:06
3,3´-Dichlorobenzidine	U		12	870	µg/Kg-dry	1	4/1/2013 14:06
3-Nitroaniline	U		110	870	µg/Kg-dry	1	4/1/2013 14:06
4,6-Dinitro-2-methylphenol	U		63	440	µg/Kg-dry	1	4/1/2013 14:06
4-Bromophenyl phenyl ether	U		11	210	µg/Kg-dry	1	4/1/2013 14:06
4-Chloro-3-methylphenol	U		12	210	µg/Kg-dry	1	4/1/2013 14:06

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

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-1
Collection Date: 3/22/2013 01:47 PM

Work Order: 1303837
Lab ID: 1303837-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloroaniline	U		17	870	µg/Kg-dry	1	4/1/2013 14:06
4-Chlorophenyl phenyl ether	U		12	210	µg/Kg-dry	1	4/1/2013 14:06
4-Methylphenol	U		13	210	µg/Kg-dry	1	4/1/2013 14:06
4-Nitroaniline	U		20	870	µg/Kg-dry	1	4/1/2013 14:06
4-Nitrophenol	U		53	870	µg/Kg-dry	1	4/1/2013 14:06
Acenaphthene	U		12	40	µg/Kg-dry	1	4/1/2013 14:06
Acenaphthylene	U		12	40	µg/Kg-dry	1	4/1/2013 14:06
Acetophenone	U		6.6	440	µg/Kg-dry	1	4/1/2013 14:06
Anthracene	U		13	40	µg/Kg-dry	1	4/1/2013 14:06
Atrazine	U		13	440	µg/Kg-dry	1	4/1/2013 14:06
Benzaldehyde	U		17	440	µg/Kg-dry	1	4/1/2013 14:06
Benzo(a)anthracene	**29**	J	**16**	**40**	**µg/Kg-dry**	1	4/1/2013 14:06
Benzo(a)pyrene	**25**	J	**20**	**40**	**µg/Kg-dry**	1	4/1/2013 14:06
Benzo(b)fluoranthene	**44**		**21**	**40**	**µg/Kg-dry**	1	4/1/2013 14:06
Benzo(g,h,i)perylene	U		31	40	µg/Kg-dry	1	4/1/2013 14:06
Benzo(k)fluoranthene	U		18	40	µg/Kg-dry	1	4/1/2013 14:06
Bis(2-chloroethoxy)methane	U		11	210	µg/Kg-dry	1	4/1/2013 14:06
Bis(2-chloroethyl)ether	U		11	210	µg/Kg-dry	1	4/1/2013 14:06
Bis(2-chloroisopropyl)ether	U		10	210	µg/Kg-dry	1	4/1/2013 14:06
Bis(2-ethylhexyl)phthalate	**53**	J	**13**	**440**	**µg/Kg-dry**	1	4/1/2013 14:06
Butyl benzyl phthalate	U		18	210	µg/Kg-dry	1	4/1/2013 14:06
Caprolactam	U		19	440	µg/Kg-dry	1	4/1/2013 14:06
Carbazole	U		15	210	µg/Kg-dry	1	4/1/2013 14:06
Chrysene	**36**	J	**15**	**40**	**µg/Kg-dry**	1	4/1/2013 14:06
Dibenzo(a,h)anthracene	U		23	40	µg/Kg-dry	1	4/1/2013 14:06
Dibenzofuran	U		12	210	µg/Kg-dry	1	4/1/2013 14:06
Diethyl phthalate	U		11	440	µg/Kg-dry	1	4/1/2013 14:06
Dimethyl phthalate	U		11	440	µg/Kg-dry	1	4/1/2013 14:06
Di-n-butyl phthalate	U		13	440	µg/Kg-dry	1	4/1/2013 14:06
Di-n-octyl phthalate	U		16	210	µg/Kg-dry	1	4/1/2013 14:06
Fluoranthene	**51**		**16**	**40**	**µg/Kg-dry**	1	4/1/2013 14:06
Fluorene	U		12	40	µg/Kg-dry	1	4/1/2013 14:06
Hexachlorobenzene	U		12	210	µg/Kg-dry	1	4/1/2013 14:06
Hexachlorobutadiene	U		11	210	µg/Kg-dry	1	4/1/2013 14:06
Hexachlorocyclopentadiene	U		46	440	µg/Kg-dry	1	4/1/2013 14:06
Hexachloroethane	U		12	210	µg/Kg-dry	1	4/1/2013 14:06
Indeno(1,2,3-cd)pyrene	U		25	40	µg/Kg-dry	1	4/1/2013 14:06
Isophorone	U		11	210	µg/Kg-dry	1	4/1/2013 14:06
Naphthalene	U		11	40	µg/Kg-dry	1	4/1/2013 14:06
Nitrobenzene	U		11	210	µg/Kg-dry	1	4/1/2013 14:06

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

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-1
Collection Date: 3/22/2013 01:47 PM

Work Order: 1303837
Lab ID: 1303837-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		12	210	µg/Kg-dry	1	4/1/2013 14:06
N-Nitrosodiphenylamine	U		78	210	µg/Kg-dry	1	4/1/2013 14:06
Pentachlorophenol	U		19	440	µg/Kg-dry	1	4/1/2013 14:06
Phenanthrene	U		40	40	µg/Kg-dry	1	4/1/2013 14:06
Phenol	U		11	210	µg/Kg-dry	1	4/1/2013 14:06
Pyrene	**41**		**16**	**40**	**µg/Kg-dry**	1	4/1/2013 14:06
Surr: 2,4,6-Tribromophenol	*87.7*			*34-140*	*%REC*	1	4/1/2013 14:06
Surr: 2-Fluorobiphenyl	*74.6*			*12-100*	*%REC*	1	4/1/2013 14:06
Surr: 2-Fluorophenol	*77.0*			*33-117*	*%REC*	1	4/1/2013 14:06
Surr: 4-Terphenyl-d14	*92.8*			*25-137*	*%REC*	1	4/1/2013 14:06
Surr: Nitrobenzene-d5	*67.9*			*37-107*	*%REC*	1	4/1/2013 14:06
Surr: Phenol-d6	*81.6*			*40-106*	*%REC*	1	4/1/2013 14:06
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,700		µg/Kg-dry	1	3/28/2013 07:48
Surr: Toluene-d8	*86.9*			*70-130*	*%REC*	1	3/28/2013 07:48
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.27	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,1,2,2-Tetrachloroethane	U		0.17	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,1,2-Trichloroethane	U		0.24	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,1,2-Trichlorotrifluoroethane	U		0.34	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,1-Dichloroethane	U		0.31	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,1-Dichloroethene	U		0.28	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,2,4-Trichlorobenzene	U		0.25	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,2-Dibromo-3-chloropropane	U		0.24	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,2-Dibromoethane	U		0.25	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,2-Dichlorobenzene	U		0.25	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,2-Dichloroethane	U		0.34	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,2-Dichloropropane	U		0.32	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,3-Dichlorobenzene	U		0.23	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
1,4-Dichlorobenzene	U		0.26	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
2-Butanone	**50**		**0.95**	**12**	**µg/Kg-dry**	0.909	3/28/2013 19:47
2-Hexanone	U		0.37	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
4-Methyl-2-pentanone	U		0.24	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Acetone	U		1.3	14	µg/Kg-dry	1	3/28/2013 07:48
Benzene	U		0.31	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Bromodichloromethane	U		0.25	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Bromoform	U		0.19	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Bromomethane	U		0.43	12	µg/Kg-dry	0.909	3/28/2013 19:47
Carbon disulfide	**0.76**	J	**0.45**	**6.2**	**µg/Kg-dry**	0.909	3/28/2013 19:47

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-1
Collection Date: 3/22/2013 01:47 PM

Work Order: 1303837
Lab ID: 1303837-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	U		0.25	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Chlorobenzene	U		0.27	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Chloroethane	U		0.69	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Chloroform	**0.65**	J	**0.32**	**6.2**	**µg/Kg-dry**	0.909	3/28/2013 19:47
Chloromethane	U		0.38	12	µg/Kg-dry	0.909	3/28/2013 19:47
cis-1,2-Dichloroethene	U		0.36	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
cis-1,3-Dichloropropene	U		0.22	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Cyclohexane	U		0.39	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Dibromochloromethane	U		0.21	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Dichlorodifluoromethane	U		0.41	12	µg/Kg-dry	0.909	3/28/2013 19:47
Ethylbenzene	U		0.24	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Isopropylbenzene	U		0.24	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
m,p-Xylene	U		0.46	3.1	µg/Kg-dry	0.909	3/28/2013 19:47
Methyl acetate	U		0.99	12	µg/Kg-dry	0.909	3/28/2013 19:47
Methyl tert-butyl ether	U		0.31	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Methylcyclohexane	U		0.34	12	µg/Kg-dry	0.909	3/28/2013 19:47
Methylene chloride	**0.91**	J	**0.35**	**6.2**	**µg/Kg-dry**	0.909	3/28/2013 19:47
o-Xylene	U		0.25	3.1	µg/Kg-dry	0.909	3/28/2013 19:47
Styrene	U		0.22	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Tetrachloroethene	U		0.37	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Toluene	U		0.29	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
trans-1,2-Dichloroethene	U		0.36	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
trans-1,3-Dichloropropene	U		0.23	12	µg/Kg-dry	0.909	3/28/2013 19:47
Trichloroethene	U		0.29	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Trichlorofluoromethane	U		1.4	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Vinyl chloride	U		0.38	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Xylenes, Total	U		0.71	6.2	µg/Kg-dry	0.909	3/28/2013 19:47
Surr: 1,2-Dichloroethane-d4	*94.4*			*70-120*	*%REC*	1	3/28/2013 07:48
Surr: 1,2-Dichloroethane-d4	*105*			*70-120*	*%REC*	0.909	3/28/2013 19:47
Surr: 4-Bromofluorobenzene	*99.9*			*75-120*	*%REC*	1	3/28/2013 07:48
Surr: 4-Bromofluorobenzene	*106*			*75-120*	*%REC*	0.909	3/28/2013 19:47
Surr: Dibromofluoromethane	*95.2*			*85-115*	*%REC*	1	3/28/2013 07:48
Surr: Dibromofluoromethane	*9.30*	S		*85-115*	*%REC*	0.909	3/28/2013 19:47
Surr: Toluene-d8	*96.6*			*85-120*	*%REC*	1	3/28/2013 07:48
Surr: Toluene-d8	*104*			*85-120*	*%REC*	0.909	3/28/2013 19:47
MOISTURE		Method: **A2540 G**					Analyst: **DC**
Moisture	**26**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 15:35

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-2
Collection Date: 3/22/2013 03:35 PM

Work Order: 1303837
Lab ID: 1303837-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
HERBICIDES		Method: **SW8151**			Prep: SW8151M / 3/27/13		Analyst: **RM**
2,4,5-T	U		14,000	720,000	µg/Kg-dry	10	4/1/2013 14:52
2,4,5-TP (Silvex)	U		9,600	1,400,000	µg/Kg-dry	10	4/1/2013 14:52
2,4-D	U		10,000	720,000	µg/Kg-dry	10	4/1/2013 14:52
2,4-DB	U		48,000	720,000	µg/Kg-dry	10	4/1/2013 14:52
Dalapon	U		48,000	720,000	µg/Kg-dry	10	4/1/2013 14:52
Dicamba	U		48,000	720,000	µg/Kg-dry	10	4/1/2013 14:52
Dichlorprop	U		48,000	720,000	µg/Kg-dry	10	4/1/2013 14:52
Dinoseb	U		48,000	720,000	µg/Kg-dry	10	4/1/2013 14:52
MCPA	U		4,800,000	24,000,000	µg/Kg-dry	10	4/1/2013 14:52
MCPP	U		4,800,000	24,000,000	µg/Kg-dry	10	4/1/2013 14:52
Surr: DCAA	*64.0*			*30-150*	*%REC*	10	4/1/2013 14:52
PESTICIDES		Method: **SW8081**			Prep: SW3541 / 3/26/13		Analyst: **RM**
4,4´-DDD	**73**		**22**	**69**	**µg/Kg-dry**	5	3/29/2013 17:16
4,4´-DDE	**170**		**13**	**69**	**µg/Kg-dry**	5	3/29/2013 17:16
4,4´-DDT	**290**		**16**	**69**	**µg/Kg-dry**	5	3/29/2013 17:16
Aldrin	U		6.2	69	µg/Kg-dry	5	3/29/2013 17:16
alpha-BHC	U		22	69	µg/Kg-dry	5	3/29/2013 17:16
alpha-Chlordane	U		19	69	µg/Kg-dry	5	3/29/2013 17:16
beta-BHC	U		26	69	µg/Kg-dry	5	3/29/2013 17:16
Chlordane, Technical	U		68	170	µg/Kg-dry	5	3/29/2013 17:16
delta-BHC	U		25	69	µg/Kg-dry	5	3/29/2013 17:16
Dieldrin	U		5.8	69	µg/Kg-dry	5	3/29/2013 17:16
Endosulfan I	U		9.0	69	µg/Kg-dry	5	3/29/2013 17:16
Endosulfan II	U		7.6	69	µg/Kg-dry	5	3/29/2013 17:16
Endosulfan sulfate	U		8.4	69	µg/Kg-dry	5	3/29/2013 17:16
Endrin	U		20	69	µg/Kg-dry	5	3/29/2013 17:16
Endrin aldehyde	U		17	69	µg/Kg-dry	5	3/29/2013 17:16
Endrin ketone	U		27	69	µg/Kg-dry	5	3/29/2013 17:16
gamma-BHC (Lindane)	U		32	69	µg/Kg-dry	5	3/29/2013 17:16
gamma-Chlordane	U		11	69	µg/Kg-dry	5	3/29/2013 17:16
Heptachlor	U		35	69	µg/Kg-dry	5	3/29/2013 17:16
Heptachlor epoxide	U		11	69	µg/Kg-dry	5	3/29/2013 17:16
Methoxychlor	U		17	69	µg/Kg-dry	5	3/29/2013 17:16
Toxaphene	U		81	410	µg/Kg-dry	5	3/29/2013 17:16
Surr: Decachlorobiphenyl	*105*			*45-135*	*%REC*	5	3/29/2013 17:16
Surr: Tetrachloro-m-xylene	*90.1*			*45-124*	*%REC*	5	3/29/2013 17:16
MERCURY BY CVAA		Method: **SW7471**			Prep: SW7471 / 3/29/13		Analyst: **LR**

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-2
Collection Date: 3/22/2013 03:35 PM

Work Order: 1303837
Lab ID: 1303837-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury	**0.11**		**0.0010**	**0.021**	**mg/Kg-dry**	1	3/29/2013 13:56
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3050B / 3/28/13		Analyst: **RH**
Antimony	**1.2**		**0.0021**	**0.52**	**mg/Kg-dry**	1	3/29/2013 18:33
Arsenic	**6.1**		**0.071**	**0.52**	**mg/Kg-dry**	1	3/29/2013 18:33
Beryllium	**0.52**		**0.0041**	**0.21**	**mg/Kg-dry**	1	3/29/2013 18:33
Cadmium	**1.7**		**0.0021**	**0.21**	**mg/Kg-dry**	1	4/1/2013 21:30
Chromium	**21**		**0.085**	**0.52**	**mg/Kg-dry**	1	3/29/2013 18:33
Copper	**20**		**0.10**	**0.52**	**mg/Kg-dry**	1	3/29/2013 18:33
Lead	**80**		**0.0021**	**0.52**	**mg/Kg-dry**	1	4/1/2013 21:30
Nickel	**28**		**0.052**	**0.52**	**mg/Kg-dry**	1	3/29/2013 18:33
Selenium	**1.5**		**0.066**	**0.52**	**mg/Kg-dry**	1	3/29/2013 18:33
Silver	**0.17**	J	**0.0021**	**0.52**	**mg/Kg-dry**	1	4/1/2013 21:30
Thallium	**0.29**	J	**0.012**	**0.52**	**mg/Kg-dry**	1	4/1/2013 21:30
Zinc	**150**		**0.044**	**1.0**	**mg/Kg-dry**	1	3/29/2013 18:33
DIESEL RANGE ORGANICS BY GC-MS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	**23**		**1.8**	**4.2**	**mg/Kg-dry**	1	4/1/2013 14:36
ORO (C21-C35)	**96**		**2.0**	**4.2**	**mg/Kg-dry**	1	4/1/2013 14:36
Surr: 4-Terphenyl-d14	*92.2*			*25-137*	*%REC*	1	4/1/2013 14:36
SEMI-VOLATILE ORGANIC COMPOUNDS		Method:	**SW8270**		Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		7.1	470	µg/Kg-dry	1	4/1/2013 14:36
2,4,5-Trichlorophenol	U		11	230	µg/Kg-dry	1	4/1/2013 14:36
2,4,6-Trichlorophenol	U		11	230	µg/Kg-dry	1	4/1/2013 14:36
2,4-Dichlorophenol	U		14	230	µg/Kg-dry	1	4/1/2013 14:36
2,4-Dimethylphenol	U		59	470	µg/Kg-dry	1	4/1/2013 14:36
2,4-Dinitrophenol	U		61	950	µg/Kg-dry	1	4/1/2013 14:36
2,4-Dinitrotoluene	U		13	230	µg/Kg-dry	1	4/1/2013 14:36
2,6-Dinitrotoluene	U		13	230	µg/Kg-dry	1	4/1/2013 14:36
2-Chloronaphthalene	U		13	110	µg/Kg-dry	1	4/1/2013 14:36
2-Chlorophenol	U		13	230	µg/Kg-dry	1	4/1/2013 14:36
2-Methylnaphthalene	U		14	110	µg/Kg-dry	1	4/1/2013 14:36
2-Methylphenol	U		14	230	µg/Kg-dry	1	4/1/2013 14:36
2-Nitroaniline	U		11	950	µg/Kg-dry	1	4/1/2013 14:36
2-Nitrophenol	U		13	230	µg/Kg-dry	1	4/1/2013 14:36
3,3´-Dichlorobenzidine	U		13	950	µg/Kg-dry	1	4/1/2013 14:36
3-Nitroaniline	U		120	950	µg/Kg-dry	1	4/1/2013 14:36
4,6-Dinitro-2-methylphenol	U		69	470	µg/Kg-dry	1	4/1/2013 14:36
4-Bromophenyl phenyl ether	U		12	230	µg/Kg-dry	1	4/1/2013 14:36
4-Chloro-3-methylphenol	U		13	230	µg/Kg-dry	1	4/1/2013 14:36

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-2
Collection Date: 3/22/2013 03:35 PM

Work Order: 1303837
Lab ID: 1303837-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloroaniline	U		18	950	µg/Kg-dry	1	4/1/2013 14:36
4-Chlorophenyl phenyl ether	U		13	230	µg/Kg-dry	1	4/1/2013 14:36
4-Methylphenol	U		14	230	µg/Kg-dry	1	4/1/2013 14:36
4-Nitroaniline	U		21	950	µg/Kg-dry	1	4/1/2013 14:36
4-Nitrophenol	U		58	950	µg/Kg-dry	1	4/1/2013 14:36
Acenaphthene	U		13	43	µg/Kg-dry	1	4/1/2013 14:36
Acenaphthylene	**26**	J	**14**	**43**	**µg/Kg-dry**	1	4/1/2013 14:36
Acetophenone	U		7.2	470	µg/Kg-dry	1	4/1/2013 14:36
Anthracene	**34**	J	**15**	**43**	**µg/Kg-dry**	1	4/1/2013 14:36
Atrazine	U		15	470	µg/Kg-dry	1	4/1/2013 14:36
Benzaldehyde	U		18	470	µg/Kg-dry	1	4/1/2013 14:36
Benzo(a)anthracene	**130**		**17**	**43**	**µg/Kg-dry**	1	4/1/2013 14:36
Benzo(a)pyrene	**150**		**22**	**43**	**µg/Kg-dry**	1	4/1/2013 14:36
Benzo(b)fluoranthene	**300**		**23**	**43**	**µg/Kg-dry**	1	4/1/2013 14:36
Benzo(g,h,i)perylene	**69**		**34**	**43**	**µg/Kg-dry**	1	4/1/2013 14:36
Benzo(k)fluoranthene	**85**		**20**	**43**	**µg/Kg-dry**	1	4/1/2013 14:36
Bis(2-chloroethoxy)methane	U		12	230	µg/Kg-dry	1	4/1/2013 14:36
Bis(2-chloroethyl)ether	U		12	230	µg/Kg-dry	1	4/1/2013 14:36
Bis(2-chloroisopropyl)ether	U		11	230	µg/Kg-dry	1	4/1/2013 14:36
Bis(2-ethylhexyl)phthalate	**71**	J	**14**	**470**	**µg/Kg-dry**	1	4/1/2013 14:36
Butyl benzyl phthalate	**140**	J	**20**	**230**	**µg/Kg-dry**	1	4/1/2013 14:36
Caprolactam	U		21	470	µg/Kg-dry	1	4/1/2013 14:36
Carbazole	U		16	230	µg/Kg-dry	1	4/1/2013 14:36
Chrysene	**190**		**16**	**43**	**µg/Kg-dry**	1	4/1/2013 14:36
Dibenzo(a,h)anthracene	U		25	43	µg/Kg-dry	1	4/1/2013 14:36
Dibenzofuran	U		13	230	µg/Kg-dry	1	4/1/2013 14:36
Diethyl phthalate	U		12	470	µg/Kg-dry	1	4/1/2013 14:36
Dimethyl phthalate	U		12	470	µg/Kg-dry	1	4/1/2013 14:36
Di-n-butyl phthalate	U		14	470	µg/Kg-dry	1	4/1/2013 14:36
Di-n-octyl phthalate	U		18	230	µg/Kg-dry	1	4/1/2013 14:36
Fluoranthene	**220**		**17**	**43**	**µg/Kg-dry**	1	4/1/2013 14:36
Fluorene	U		13	43	µg/Kg-dry	1	4/1/2013 14:36
Hexachlorobenzene	U		13	230	µg/Kg-dry	1	4/1/2013 14:36
Hexachlorobutadiene	U		12	230	µg/Kg-dry	1	4/1/2013 14:36
Hexachlorocyclopentadiene	U		50	470	µg/Kg-dry	1	4/1/2013 14:36
Hexachloroethane	U		13	230	µg/Kg-dry	1	4/1/2013 14:36
Indeno(1,2,3-cd)pyrene	**67**		**27**	**43**	**µg/Kg-dry**	1	4/1/2013 14:36
Isophorone	U		12	230	µg/Kg-dry	1	4/1/2013 14:36
Naphthalene	U		12	43	µg/Kg-dry	1	4/1/2013 14:36
Nitrobenzene	U		12	230	µg/Kg-dry	1	4/1/2013 14:36

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

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-2
Collection Date: 3/22/2013 03:35 PM

Work Order: 1303837
Lab ID: 1303837-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		13	230	µg/Kg-dry	1	4/1/2013 14:36
N-Nitrosodiphenylamine	U		85	230	µg/Kg-dry	1	4/1/2013 14:36
Pentachlorophenol	U		21	470	µg/Kg-dry	1	4/1/2013 14:36
Phenanthrene	**84**		**43**	**43**	**µg/Kg-dry**	1	4/1/2013 14:36
Phenol	U		12	230	µg/Kg-dry	1	4/1/2013 14:36
Pyrene	**200**		**18**	**43**	**µg/Kg-dry**	1	4/1/2013 14:36
Surr: 2,4,6-Tribromophenol	*87.0*			*34-140*	*%REC*	1	4/1/2013 14:36
Surr: 2-Fluorobiphenyl	*67.9*			*12-100*	*%REC*	1	4/1/2013 14:36
Surr: 2-Fluorophenol	*71.3*			*33-117*	*%REC*	1	4/1/2013 14:36
Surr: 4-Terphenyl-d14	*92.2*			*25-137*	*%REC*	1	4/1/2013 14:36
Surr: Nitrobenzene-d5	*62.4*			*37-107*	*%REC*	1	4/1/2013 14:36
Surr: Phenol-d6	*75.2*			*40-106*	*%REC*	1	4/1/2013 14:36
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,800		µg/Kg-dry	1	3/28/2013 08:12
Surr: Toluene-d8	*87.5*			*70-130*	*%REC*	1	3/28/2013 08:12
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.27	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,1,2,2-Tetrachloroethane	U		0.17	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,1,2-Trichloroethane	U		0.23	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,1,2-Trichlorotrifluoroethane	U		0.34	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,1-Dichloroethane	U		0.31	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,1-Dichloroethene	U		0.27	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,2,4-Trichlorobenzene	U		0.25	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,2-Dibromo-3-chloropropane	U		0.24	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,2-Dibromoethane	U		0.25	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,2-Dichlorobenzene	U		0.25	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,2-Dichloroethane	U		0.34	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,2-Dichloropropane	U		0.31	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,3-Dichlorobenzene	U		0.23	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
1,4-Dichlorobenzene	U		0.26	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
2-Butanone	**51**		**0.93**	**12**	**µg/Kg-dry**	0.836	3/28/2013 20:15
2-Hexanone	U		0.37	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
4-Methyl-2-pentanone	U		0.24	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Acetone	U		1.4	15	µg/Kg-dry	1	3/28/2013 08:12
Benzene	U		0.30	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Bromodichloromethane	U		0.25	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Bromoform	U		0.19	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Bromomethane	U		0.43	12	µg/Kg-dry	0.836	3/28/2013 20:15
Carbon disulfide	**0.49**	J	**0.45**	**6.1**	**µg/Kg-dry**	0.836	3/28/2013 20:15

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-2
Collection Date: 3/22/2013 03:35 PM

Work Order: 1303837
Lab ID: 1303837-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	U		0.25	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Chlorobenzene	U		0.27	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Chloroethane	U		0.68	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Chloroform	**0.80**	J	**0.32**	**6.1**	**µg/Kg-dry**	0.836	3/28/2013 20:15
Chloromethane	U		0.37	12	µg/Kg-dry	0.836	3/28/2013 20:15
cis-1,2-Dichloroethene	U		0.36	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
cis-1,3-Dichloropropene	U		0.22	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Cyclohexane	U		0.39	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Dibromochloromethane	U		0.21	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Dichlorodifluoromethane	U		0.40	12	µg/Kg-dry	0.836	3/28/2013 20:15
Ethylbenzene	U		0.23	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Isopropylbenzene	U		0.23	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
m,p-Xylene	U		0.46	3.0	µg/Kg-dry	0.836	3/28/2013 20:15
Methyl acetate	U		0.98	12	µg/Kg-dry	0.836	3/28/2013 20:15
Methyl tert-butyl ether	U		0.31	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Methylcyclohexane	U		0.34	12	µg/Kg-dry	0.836	3/28/2013 20:15
Methylene chloride	**0.90**	J	**0.35**	**6.1**	**µg/Kg-dry**	0.836	3/28/2013 20:15
o-Xylene	U		0.24	3.0	µg/Kg-dry	0.836	3/28/2013 20:15
Styrene	U		0.22	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Tetrachloroethene	U		0.36	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Toluene	U		0.29	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
trans-1,2-Dichloroethene	U		0.36	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
trans-1,3-Dichloropropene	U		0.23	12	µg/Kg-dry	0.836	3/28/2013 20:15
Trichloroethene	U		0.28	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Trichlorofluoromethane	U		1.4	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Vinyl chloride	U		0.37	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Xylenes, Total	U		0.70	6.1	µg/Kg-dry	0.836	3/28/2013 20:15
Surr: 1,2-Dichloroethane-d4	*99.2*			*70-120*	*%REC*	1	3/28/2013 08:12
Surr: 1,2-Dichloroethane-d4	*110*			*70-120*	*%REC*	0.836	3/28/2013 20:15
Surr: 4-Bromofluorobenzene	*102*			*75-120*	*%REC*	1	3/28/2013 08:12
Surr: 4-Bromofluorobenzene	*105*			*75-120*	*%REC*	0.836	3/28/2013 20:15
Surr: Dibromofluoromethane	*96.0*			*85-115*	*%REC*	1	3/28/2013 08:12
Surr: Dibromofluoromethane	*41.8*	S		*85-115*	*%REC*	0.836	3/28/2013 20:15
Surr: Toluene-d8	*97.2*			*85-120*	*%REC*	1	3/28/2013 08:12
Surr: Toluene-d8	*99.8*			*85-120*	*%REC*	0.836	3/28/2013 20:15
MOISTURE		Method: **A2540 G**					Analyst: **DC**
Moisture	**31**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 15:35

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-3
Collection Date: 3/22/2013 02:05 PM

Work Order: 1303837
Lab ID: 1303837-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
HERBICIDES		Method: **SW8151**			Prep: SW8151M / 3/27/13		Analyst: **RM**
2,4,5-T	U		13,000	650,000	µg/Kg-dry	10	4/1/2013 14:52
2,4,5-TP (Silvex)	U		8,600	1,300,000	µg/Kg-dry	10	4/1/2013 14:52
2,4-D	U		9,200	650,000	µg/Kg-dry	10	4/1/2013 14:52
2,4-DB	U		43,000	650,000	µg/Kg-dry	10	4/1/2013 14:52
Dalapon	U		43,000	650,000	µg/Kg-dry	10	4/1/2013 14:52
Dicamba	U		43,000	650,000	µg/Kg-dry	10	4/1/2013 14:52
Dichlorprop	U		43,000	650,000	µg/Kg-dry	10	4/1/2013 14:52
Dinoseb	U		43,000	650,000	µg/Kg-dry	10	4/1/2013 14:52
MCPA	U		4,300,000	22,000,000	µg/Kg-dry	10	4/1/2013 14:52
MCPP	U		4,300,000	22,000,000	µg/Kg-dry	10	4/1/2013 14:52
Surr: DCAA	*82.0*			*30-150*	*%REC*	10	4/1/2013 14:52
PESTICIDES		Method: **SW8081**			Prep: SW3541 / 3/26/13		Analyst: **RM**
4,4´-DDD	U		21	64	µg/Kg-dry	5	3/29/2013 17:16
4,4´-DDE	U		13	64	µg/Kg-dry	5	3/29/2013 17:16
4,4´-DDT	U		15	64	µg/Kg-dry	5	3/29/2013 17:16
Aldrin	U		5.8	64	µg/Kg-dry	5	3/29/2013 17:16
alpha-BHC	U		21	64	µg/Kg-dry	5	3/29/2013 17:16
alpha-Chlordane	U		18	64	µg/Kg-dry	5	3/29/2013 17:16
beta-BHC	U		24	64	µg/Kg-dry	5	3/29/2013 17:16
Chlordane, Technical	U		64	160	µg/Kg-dry	5	3/29/2013 17:16
delta-BHC	U		24	64	µg/Kg-dry	5	3/29/2013 17:16
Dieldrin	U		5.5	64	µg/Kg-dry	5	3/29/2013 17:16
Endosulfan I	U		8.4	64	µg/Kg-dry	5	3/29/2013 17:16
Endosulfan II	U		7.1	64	µg/Kg-dry	5	3/29/2013 17:16
Endosulfan sulfate	U		7.9	64	µg/Kg-dry	5	3/29/2013 17:16
Endrin	U		19	64	µg/Kg-dry	5	3/29/2013 17:16
Endrin aldehyde	U		16	64	µg/Kg-dry	5	3/29/2013 17:16
Endrin ketone	U		25	64	µg/Kg-dry	5	3/29/2013 17:16
gamma-BHC (Lindane)	U		30	64	µg/Kg-dry	5	3/29/2013 17:16
gamma-Chlordane	U		11	64	µg/Kg-dry	5	3/29/2013 17:16
Heptachlor	U		33	64	µg/Kg-dry	5	3/29/2013 17:16
Heptachlor epoxide	U		10	64	µg/Kg-dry	5	3/29/2013 17:16
Methoxychlor	U		16	64	µg/Kg-dry	5	3/29/2013 17:16
Toxaphene	U		75	390	µg/Kg-dry	5	3/29/2013 17:16
Surr: Decachlorobiphenyl	*110*			*45-135*	*%REC*	5	3/29/2013 17:16
Surr: Tetrachloro-m-xylene	*95.1*			*45-124*	*%REC*	5	3/29/2013 17:16
MERCURY BY CVAA		Method: **SW7471**			Prep: SW7471 / 3/29/13		Analyst: **LR**

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-3
Collection Date: 3/22/2013 02:05 PM

Work Order: 1303837
Lab ID: 1303837-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury	**0.038**		**0.00089**	**0.018**	**mg/Kg-dry**	1	3/29/2013 13:58
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 3/28/13		Analyst: **RH**
Antimony	**0.53**		**0.0020**	**0.51**	**mg/Kg-dry**	1	3/29/2013 18:39
Arsenic	**4.4**		**0.070**	**0.51**	**mg/Kg-dry**	1	3/29/2013 18:39
Beryllium	**0.47**		**0.0041**	**0.20**	**mg/Kg-dry**	1	3/29/2013 18:39
Cadmium	**0.81**		**0.0020**	**0.20**	**mg/Kg-dry**	1	4/1/2013 21:36
Chromium	**17**		**0.084**	**0.51**	**mg/Kg-dry**	1	3/29/2013 18:39
Copper	**27**		**0.10**	**0.51**	**mg/Kg-dry**	1	3/29/2013 18:39
Lead	**21**		**0.0020**	**0.51**	**mg/Kg-dry**	1	4/1/2013 21:36
Nickel	**21**		**0.051**	**0.51**	**mg/Kg-dry**	1	3/29/2013 18:39
Selenium	**0.96**		**0.065**	**0.51**	**mg/Kg-dry**	1	3/29/2013 18:39
Silver	**0.079**	J	**0.0020**	**0.51**	**mg/Kg-dry**	1	4/1/2013 21:36
Thallium	**0.20**	J	**0.012**	**0.51**	**mg/Kg-dry**	1	4/1/2013 21:36
Zinc	**87**		**0.043**	**1.0**	**mg/Kg-dry**	1	3/29/2013 18:39
DIESEL RANGE ORGANICS BY GC-MS		Method: **SW8270**			Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	**15**		**1.6**	**3.8**	**mg/Kg-dry**	1	4/1/2013 15:05
ORO (C21-C35)	**33**		**1.8**	**3.8**	**mg/Kg-dry**	1	4/1/2013 15:05
Surr: 4-Terphenyl-d14	*94.8*			*25-137*	*%REC*	1	4/1/2013 15:05
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW8270**			Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		6.5	430	µg/Kg-dry	1	4/1/2013 15:05
2,4,5-Trichlorophenol	U		10	210	µg/Kg-dry	1	4/1/2013 15:05
2,4,6-Trichlorophenol	U		10	210	µg/Kg-dry	1	4/1/2013 15:05
2,4-Dichlorophenol	U		13	210	µg/Kg-dry	1	4/1/2013 15:05
2,4-Dimethylphenol	U		53	430	µg/Kg-dry	1	4/1/2013 15:05
2,4-Dinitrophenol	U		55	860	µg/Kg-dry	1	4/1/2013 15:05
2,4-Dinitrotoluene	U		12	210	µg/Kg-dry	1	4/1/2013 15:05
2,6-Dinitrotoluene	U		12	210	µg/Kg-dry	1	4/1/2013 15:05
2-Chloronaphthalene	U		12	100	µg/Kg-dry	1	4/1/2013 15:05
2-Chlorophenol	U		12	210	µg/Kg-dry	1	4/1/2013 15:05
2-Methylnaphthalene	U		13	100	µg/Kg-dry	1	4/1/2013 15:05
2-Methylphenol	U		13	210	µg/Kg-dry	1	4/1/2013 15:05
2-Nitroaniline	U		9.9	860	µg/Kg-dry	1	4/1/2013 15:05
2-Nitrophenol	U		11	210	µg/Kg-dry	1	4/1/2013 15:05
3,3´-Dichlorobenzidine	U		12	860	µg/Kg-dry	1	4/1/2013 15:05
3-Nitroaniline	U		110	860	µg/Kg-dry	1	4/1/2013 15:05
4,6-Dinitro-2-methylphenol	U		63	430	µg/Kg-dry	1	4/1/2013 15:05
4-Bromophenyl phenyl ether	U		11	210	µg/Kg-dry	1	4/1/2013 15:05
4-Chloro-3-methylphenol	U		12	210	µg/Kg-dry	1	4/1/2013 15:05

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

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-3
Collection Date: 3/22/2013 02:05 PM

Work Order: 1303837
Lab ID: 1303837-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloroaniline	U		17	860	µg/Kg-dry	1	4/1/2013 15:05
4-Chlorophenyl phenyl ether	U		12	210	µg/Kg-dry	1	4/1/2013 15:05
4-Methylphenol	U		13	210	µg/Kg-dry	1	4/1/2013 15:05
4-Nitroaniline	U		19	860	µg/Kg-dry	1	4/1/2013 15:05
4-Nitrophenol	U		53	860	µg/Kg-dry	1	4/1/2013 15:05
Acenaphthene	U		12	39	µg/Kg-dry	1	4/1/2013 15:05
Acenaphthylene	U		12	39	µg/Kg-dry	1	4/1/2013 15:05
Acetophenone	U		6.5	430	µg/Kg-dry	1	4/1/2013 15:05
Anthracene	U		13	39	µg/Kg-dry	1	4/1/2013 15:05
Atrazine	U		13	430	µg/Kg-dry	1	4/1/2013 15:05
Benzaldehyde	U		17	430	µg/Kg-dry	1	4/1/2013 15:05
Benzo(a)anthracene	U		16	39	µg/Kg-dry	1	4/1/2013 15:05
Benzo(a)pyrene	U		20	39	µg/Kg-dry	1	4/1/2013 15:05
Benzo(b)fluoranthene	U		21	39	µg/Kg-dry	1	4/1/2013 15:05
Benzo(g,h,i)perylene	U		31	39	µg/Kg-dry	1	4/1/2013 15:05
Benzo(k)fluoranthene	U		18	39	µg/Kg-dry	1	4/1/2013 15:05
Bis(2-chloroethoxy)methane	U		11	210	µg/Kg-dry	1	4/1/2013 15:05
Bis(2-chloroethyl)ether	U		11	210	µg/Kg-dry	1	4/1/2013 15:05
Bis(2-chloroisopropyl)ether	U		10	210	µg/Kg-dry	1	4/1/2013 15:05
Bis(2-ethylhexyl)phthalate	**33**	J	**13**	**430**	**µg/Kg-dry**	1	4/1/2013 15:05
Butyl benzyl phthalate	U		18	210	µg/Kg-dry	1	4/1/2013 15:05
Caprolactam	U		19	430	µg/Kg-dry	1	4/1/2013 15:05
Carbazole	U		15	210	µg/Kg-dry	1	4/1/2013 15:05
Chrysene	U		15	39	µg/Kg-dry	1	4/1/2013 15:05
Dibenzo(a,h)anthracene	U		22	39	µg/Kg-dry	1	4/1/2013 15:05
Dibenzofuran	U		12	210	µg/Kg-dry	1	4/1/2013 15:05
Diethyl phthalate	U		11	430	µg/Kg-dry	1	4/1/2013 15:05
Dimethyl phthalate	U		11	430	µg/Kg-dry	1	4/1/2013 15:05
Di-n-butyl phthalate	U		13	430	µg/Kg-dry	1	4/1/2013 15:05
Di-n-octyl phthalate	U		16	210	µg/Kg-dry	1	4/1/2013 15:05
Fluoranthene	U		15	39	µg/Kg-dry	1	4/1/2013 15:05
Fluorene	U		11	39	µg/Kg-dry	1	4/1/2013 15:05
Hexachlorobenzene	U		12	210	µg/Kg-dry	1	4/1/2013 15:05
Hexachlorobutadiene	U		11	210	µg/Kg-dry	1	4/1/2013 15:05
Hexachlorocyclopentadiene	U		45	430	µg/Kg-dry	1	4/1/2013 15:05
Hexachloroethane	U		11	210	µg/Kg-dry	1	4/1/2013 15:05
Indeno(1,2,3-cd)pyrene	U		25	39	µg/Kg-dry	1	4/1/2013 15:05
Isophorone	U		11	210	µg/Kg-dry	1	4/1/2013 15:05
Naphthalene	U		11	39	µg/Kg-dry	1	4/1/2013 15:05
Nitrobenzene	U		11	210	µg/Kg-dry	1	4/1/2013 15:05

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

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-3
Collection Date: 3/22/2013 02:05 PM

Work Order: 1303837
Lab ID: 1303837-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		11	210	µg/Kg-dry	1	4/1/2013 15:05
N-Nitrosodiphenylamine	U		77	210	µg/Kg-dry	1	4/1/2013 15:05
Pentachlorophenol	U		19	430	µg/Kg-dry	1	4/1/2013 15:05
Phenanthrene	U		39	39	µg/Kg-dry	1	4/1/2013 15:05
Phenol	U		11	210	µg/Kg-dry	1	4/1/2013 15:05
Pyrene	U		16	39	µg/Kg-dry	1	4/1/2013 15:05
Surr: 2,4,6-Tribromophenol	*85.8*			*34-140*	*%REC*	1	4/1/2013 15:05
Surr: 2-Fluorobiphenyl	*68.4*			*12-100*	*%REC*	1	4/1/2013 15:05
Surr: 2-Fluorophenol	*78.1*			*33-117*	*%REC*	1	4/1/2013 15:05
Surr: 4-Terphenyl-d14	*94.8*			*25-137*	*%REC*	1	4/1/2013 15:05
Surr: Nitrobenzene-d5	*69.7*			*37-107*	*%REC*	1	4/1/2013 15:05
Surr: Phenol-d6	*77.6*			*40-106*	*%REC*	1	4/1/2013 15:05
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,600		µg/Kg-dry	1	3/28/2013 08:35
Surr: Toluene-d8	*84.7*			*70-130*	*%REC*	1	3/28/2013 08:35
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.23	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,1,2,2-Tetrachloroethane	U		0.15	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,1,2-Trichloroethane	U		0.20	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,1,2-Trichlorotrifluoroethane	U		0.29	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,1-Dichloroethane	U		0.26	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,1-Dichloroethene	U		0.23	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,2,4-Trichlorobenzene	U		0.21	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,2-Dibromo-3-chloropropane	U		0.20	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,2-Dibromoethane	U		0.21	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,2-Dichlorobenzene	U		0.21	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,2-Dichloroethane	U		0.29	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,2-Dichloropropane	U		0.27	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,3-Dichlorobenzene	U		0.19	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
1,4-Dichlorobenzene	U		0.22	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
2-Butanone	**26**		**0.79**	**10**	**µg/Kg-dry**	0.785	3/29/2013 15:37
2-Hexanone	U		0.31	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
4-Methyl-2-pentanone	U		0.20	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Acetone	U		1.2	13	µg/Kg-dry	1	3/28/2013 08:35
Benzene	U		0.26	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Bromodichloromethane	U		0.21	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Bromoform	U		0.16	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Bromomethane	U		0.36	10	µg/Kg-dry	0.785	3/29/2013 15:37
Carbon disulfide	**0.57**	J	**0.38**	**5.2**	**µg/Kg-dry**	0.785	3/29/2013 15:37

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

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-3
Collection Date: 3/22/2013 02:05 PM

Work Order: 1303837
Lab ID: 1303837-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	U		0.21	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Chlorobenzene	U		0.23	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Chloroethane	U		0.58	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Chloroform	**0.53**	J	**0.27**	**5.2**	**µg/Kg-dry**	0.785	3/29/2013 15:37
Chloromethane	U		0.32	10	µg/Kg-dry	0.785	3/29/2013 15:37
cis-1,2-Dichloroethene	U		0.31	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
cis-1,3-Dichloropropene	U		0.19	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Cyclohexane	U		0.33	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Dibromochloromethane	U		0.17	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Dichlorodifluoromethane	U		0.34	10	µg/Kg-dry	0.785	3/29/2013 15:37
Ethylbenzene	U		0.20	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Isopropylbenzene	U		0.20	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
m,p-Xylene	U		0.39	2.6	µg/Kg-dry	0.785	3/29/2013 15:37
Methyl acetate	U		0.83	10	µg/Kg-dry	0.785	3/29/2013 15:37
Methyl tert-butyl ether	U		0.26	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Methylcyclohexane	U		0.29	10	µg/Kg-dry	0.785	3/29/2013 15:37
Methylene chloride	**0.75**	J	**0.29**	**5.2**	**µg/Kg-dry**	0.785	3/29/2013 15:37
o-Xylene	U		0.21	2.6	µg/Kg-dry	0.785	3/29/2013 15:37
Styrene	U		0.19	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Tetrachloroethene	U		0.31	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Toluene	U		0.24	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
trans-1,2-Dichloroethene	U		0.30	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
trans-1,3-Dichloropropene	U		0.19	10	µg/Kg-dry	0.785	3/29/2013 15:37
Trichloroethene	U		0.24	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Trichlorofluoromethane	U		1.2	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Vinyl chloride	U		0.32	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Xylenes, Total	U		0.60	5.2	µg/Kg-dry	0.785	3/29/2013 15:37
Surr: 1,2-Dichloroethane-d4	*97.4*			*70-120*	*%REC*	1	3/28/2013 08:35
Surr: 1,2-Dichloroethane-d4	*98.0*			*70-120*	*%REC*	0.785	3/29/2013 15:37
Surr: 4-Bromofluorobenzene	*98.8*			*75-120*	*%REC*	1	3/28/2013 08:35
Surr: 4-Bromofluorobenzene	*96.6*			*75-120*	*%REC*	0.785	3/29/2013 15:37
Surr: Dibromofluoromethane	*97.0*			*85-115*	*%REC*	1	3/28/2013 08:35
Surr: Dibromofluoromethane	*9.35*	S		*85-115*	*%REC*	0.785	3/29/2013 15:37
Surr: Toluene-d8	*94.6*			*85-120*	*%REC*	1	3/28/2013 08:35
Surr: Toluene-d8	*93.5*			*85-120*	*%REC*	0.785	3/29/2013 15:37
MOISTURE		Method: **A2540 G**					Analyst: **RLF**
Moisture	**24**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 16:15

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-4
Collection Date: 3/22/2013 04:00 PM

Work Order: 1303837
Lab ID: 1303837-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
HERBICIDES		Method: **SW8151**			Prep: SW8151M / 3/27/13		Analyst: **RM**
2,4,5-T	U		12,000	630,000	µg/Kg-dry	10	4/1/2013 14:52
2,4,5-TP (Silvex)	U		8,400	1,300,000	µg/Kg-dry	10	4/1/2013 14:52
2,4-D	U		9,000	630,000	µg/Kg-dry	10	4/1/2013 14:52
2,4-DB	U		41,000	630,000	µg/Kg-dry	10	4/1/2013 14:52
Dalapon	U		41,000	630,000	µg/Kg-dry	10	4/1/2013 14:52
Dicamba	U		41,000	630,000	µg/Kg-dry	10	4/1/2013 14:52
Dichlorprop	U		41,000	630,000	µg/Kg-dry	10	4/1/2013 14:52
Dinoseb	U		41,000	630,000	µg/Kg-dry	10	4/1/2013 14:52
MCPA	U		4,100,000	21,000,000	µg/Kg-dry	10	4/1/2013 14:52
MCPP	U		4,100,000	21,000,000	µg/Kg-dry	10	4/1/2013 14:52
Surr: DCAA	*62.0*			*30-150*	*%REC*	10	4/1/2013 14:52
PESTICIDES		Method: **SW8081**			Prep: SW3541 / 3/26/13		Analyst: **RM**
4,4´-DDD	U		20	64	µg/Kg-dry	5	3/29/2013 17:16
4,4´-DDE	U		12	64	µg/Kg-dry	5	3/29/2013 17:16
4,4´-DDT	U		15	64	µg/Kg-dry	5	3/29/2013 17:16
Aldrin	U		5.7	64	µg/Kg-dry	5	3/29/2013 17:16
alpha-BHC	U		20	64	µg/Kg-dry	5	3/29/2013 17:16
alpha-Chlordane	U		18	64	µg/Kg-dry	5	3/29/2013 17:16
beta-BHC	U		24	64	µg/Kg-dry	5	3/29/2013 17:16
Chlordane, Technical	U		63	160	µg/Kg-dry	5	3/29/2013 17:16
delta-BHC	U		24	64	µg/Kg-dry	5	3/29/2013 17:16
Dieldrin	U		5.4	64	µg/Kg-dry	5	3/29/2013 17:16
Endosulfan I	U		8.3	64	µg/Kg-dry	5	3/29/2013 17:16
Endosulfan II	U		7.0	64	µg/Kg-dry	5	3/29/2013 17:16
Endosulfan sulfate	U		7.8	64	µg/Kg-dry	5	3/29/2013 17:16
Endrin	U		19	64	µg/Kg-dry	5	3/29/2013 17:16
Endrin aldehyde	U		15	64	µg/Kg-dry	5	3/29/2013 17:16
Endrin ketone	U		25	64	µg/Kg-dry	5	3/29/2013 17:16
gamma-BHC (Lindane)	U		30	64	µg/Kg-dry	5	3/29/2013 17:16
gamma-Chlordane	U		11	64	µg/Kg-dry	5	3/29/2013 17:16
Heptachlor	U		33	64	µg/Kg-dry	5	3/29/2013 17:16
Heptachlor epoxide	U		10	64	µg/Kg-dry	5	3/29/2013 17:16
Methoxychlor	U		16	64	µg/Kg-dry	5	3/29/2013 17:16
Toxaphene	U		75	380	µg/Kg-dry	5	3/29/2013 17:16
Surr: Decachlorobiphenyl	*105*			*45-135*	*%REC*	5	3/29/2013 17:16
Surr: Tetrachloro-m-xylene	*90.1*			*45-124*	*%REC*	5	3/29/2013 17:16
MERCURY BY CVAA		Method: **SW7471**			Prep: SW7471 / 3/29/13		Analyst: **LR**

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-4
Collection Date: 3/22/2013 04:00 PM

Work Order: 1303837
Lab ID: 1303837-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Mercury	**0.054**		**0.00095**	**0.019**	**mg/Kg-dry**	1	3/29/2013 14:00
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 3/28/13		Analyst: **RH**
Antimony	**0.54**		**0.0020**	**0.50**	**mg/Kg-dry**	1	3/29/2013 18:45
Arsenic	**7.2**		**0.067**	**0.50**	**mg/Kg-dry**	1	3/29/2013 18:45
Beryllium	**0.51**		**0.0040**	**0.20**	**mg/Kg-dry**	1	3/29/2013 18:45
Cadmium	**0.85**		**0.0020**	**0.20**	**mg/Kg-dry**	1	4/1/2013 21:41
Chromium	**18**		**0.081**	**0.50**	**mg/Kg-dry**	1	3/29/2013 18:45
Copper	**15**		**0.097**	**0.50**	**mg/Kg-dry**	1	3/29/2013 18:45
Lead	**41**		**0.0020**	**0.50**	**mg/Kg-dry**	1	4/1/2013 21:41
Nickel	**23**		**0.050**	**0.50**	**mg/Kg-dry**	1	3/29/2013 18:45
Selenium	**1.2**		**0.063**	**0.50**	**mg/Kg-dry**	1	3/29/2013 18:45
Silver	**0.072**	J	**0.0020**	**0.50**	**mg/Kg-dry**	1	4/1/2013 21:41
Thallium	**0.27**	J	**0.012**	**0.50**	**mg/Kg-dry**	1	4/1/2013 21:41
Zinc	**95**		**0.042**	**0.99**	**mg/Kg-dry**	1	3/29/2013 18:45
DIESEL RANGE ORGANICS BY GC-MS		Method: **SW8270**			Prep: SW3541 / 3/28/13		Analyst: **RM**
DRO (C10-C21)	**27**		**1.6**	**3.7**	**mg/Kg-dry**	1	4/1/2013 15:35
ORO (C21-C35)	**47**		**1.8**	**3.7**	**mg/Kg-dry**	1	4/1/2013 15:35
Surr: 4-Terphenyl-d14	*98.5*			*25-137*	*%REC*	1	4/1/2013 15:35
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW8270**			Prep: SW3541 / 3/28/13		Analyst: **RM**
1,1`-Biphenyl	U		6.3	420	µg/Kg-dry	1	4/1/2013 15:35
2,4,5-Trichlorophenol	U		10	200	µg/Kg-dry	1	4/1/2013 15:35
2,4,6-Trichlorophenol	U		10	200	µg/Kg-dry	1	4/1/2013 15:35
2,4-Dichlorophenol	U		12	200	µg/Kg-dry	1	4/1/2013 15:35
2,4-Dimethylphenol	U		52	420	µg/Kg-dry	1	4/1/2013 15:35
2,4-Dinitrophenol	U		54	840	µg/Kg-dry	1	4/1/2013 15:35
2,4-Dinitrotoluene	U		11	200	µg/Kg-dry	1	4/1/2013 15:35
2,6-Dinitrotoluene	U		12	200	µg/Kg-dry	1	4/1/2013 15:35
2-Chloronaphthalene	U		12	100	µg/Kg-dry	1	4/1/2013 15:35
2-Chlorophenol	U		11	200	µg/Kg-dry	1	4/1/2013 15:35
2-Methylnaphthalene	U		13	100	µg/Kg-dry	1	4/1/2013 15:35
2-Methylphenol	U		12	200	µg/Kg-dry	1	4/1/2013 15:35
2-Nitroaniline	U		9.7	840	µg/Kg-dry	1	4/1/2013 15:35
2-Nitrophenol	U		11	200	µg/Kg-dry	1	4/1/2013 15:35
3,3´-Dichlorobenzidine	U		12	840	µg/Kg-dry	1	4/1/2013 15:35
3-Nitroaniline	U		100	840	µg/Kg-dry	1	4/1/2013 15:35
4,6-Dinitro-2-methylphenol	U		61	420	µg/Kg-dry	1	4/1/2013 15:35
4-Bromophenyl phenyl ether	U		11	200	µg/Kg-dry	1	4/1/2013 15:35
4-Chloro-3-methylphenol	U		12	200	µg/Kg-dry	1	4/1/2013 15:35

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

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-4
Collection Date: 3/22/2013 04:00 PM

Work Order: 1303837
Lab ID: 1303837-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloroaniline	U		16	840	µg/Kg-dry	1	4/1/2013 15:35
4-Chlorophenyl phenyl ether	U		12	200	µg/Kg-dry	1	4/1/2013 15:35
4-Methylphenol	U		13	200	µg/Kg-dry	1	4/1/2013 15:35
4-Nitroaniline	U		19	840	µg/Kg-dry	1	4/1/2013 15:35
4-Nitrophenol	U		52	840	µg/Kg-dry	1	4/1/2013 15:35
Acenaphthene	U		12	38	µg/Kg-dry	1	4/1/2013 15:35
Acenaphthylene	U		12	38	µg/Kg-dry	1	4/1/2013 15:35
Acetophenone	U		6.4	420	µg/Kg-dry	1	4/1/2013 15:35
Anthracene	U		13	38	µg/Kg-dry	1	4/1/2013 15:35
Atrazine	U		13	420	µg/Kg-dry	1	4/1/2013 15:35
Benzaldehyde	U		16	420	µg/Kg-dry	1	4/1/2013 15:35
Benzo(a)anthracene	U		16	38	µg/Kg-dry	1	4/1/2013 15:35
Benzo(a)pyrene	U		20	38	µg/Kg-dry	1	4/1/2013 15:35
Benzo(b)fluoranthene	U		21	38	µg/Kg-dry	1	4/1/2013 15:35
Benzo(g,h,i)perylene	U		30	38	µg/Kg-dry	1	4/1/2013 15:35
Benzo(k)fluoranthene	U		17	38	µg/Kg-dry	1	4/1/2013 15:35
Bis(2-chloroethoxy)methane	U		10	200	µg/Kg-dry	1	4/1/2013 15:35
Bis(2-chloroethyl)ether	U		11	200	µg/Kg-dry	1	4/1/2013 15:35
Bis(2-chloroisopropyl)ether	U		9.9	200	µg/Kg-dry	1	4/1/2013 15:35
Bis(2-ethylhexyl)phthalate	U		13	420	µg/Kg-dry	1	4/1/2013 15:35
Butyl benzyl phthalate	U		18	200	µg/Kg-dry	1	4/1/2013 15:35
Caprolactam	U		19	420	µg/Kg-dry	1	4/1/2013 15:35
Carbazole	U		15	200	µg/Kg-dry	1	4/1/2013 15:35
Chrysene	U		14	38	µg/Kg-dry	1	4/1/2013 15:35
Dibenzo(a,h)anthracene	U		22	38	µg/Kg-dry	1	4/1/2013 15:35
Dibenzofuran	U		12	200	µg/Kg-dry	1	4/1/2013 15:35
Diethyl phthalate	U		11	420	µg/Kg-dry	1	4/1/2013 15:35
Dimethyl phthalate	U		11	420	µg/Kg-dry	1	4/1/2013 15:35
Di-n-butyl phthalate	U		13	420	µg/Kg-dry	1	4/1/2013 15:35
Di-n-octyl phthalate	U		16	200	µg/Kg-dry	1	4/1/2013 15:35
Fluoranthene	**24**	J	**15**	**38**	**µg/Kg-dry**	1	4/1/2013 15:35
Fluorene	U		11	38	µg/Kg-dry	1	4/1/2013 15:35
Hexachlorobenzene	U		12	200	µg/Kg-dry	1	4/1/2013 15:35
Hexachlorobutadiene	U		11	200	µg/Kg-dry	1	4/1/2013 15:35
Hexachlorocyclopentadiene	U		45	420	µg/Kg-dry	1	4/1/2013 15:35
Hexachloroethane	U		11	200	µg/Kg-dry	1	4/1/2013 15:35
Indeno(1,2,3-cd)pyrene	U		24	38	µg/Kg-dry	1	4/1/2013 15:35
Isophorone	U		11	200	µg/Kg-dry	1	4/1/2013 15:35
Naphthalene	U		11	38	µg/Kg-dry	1	4/1/2013 15:35
Nitrobenzene	U		11	200	µg/Kg-dry	1	4/1/2013 15:35

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

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-4
Collection Date: 3/22/2013 04:00 PM

Work Order: 1303837
Lab ID: 1303837-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitrosodi-n-propylamine	U		11	200	µg/Kg-dry	1	4/1/2013 15:35
N-Nitrosodiphenylamine	U		76	200	µg/Kg-dry	1	4/1/2013 15:35
Pentachlorophenol	U		19	420	µg/Kg-dry	1	4/1/2013 15:35
Phenanthrene	U		38	38	µg/Kg-dry	1	4/1/2013 15:35
Phenol	U		11	200	µg/Kg-dry	1	4/1/2013 15:35
Pyrene	U		16	38	µg/Kg-dry	1	4/1/2013 15:35
Surr: 2,4,6-Tribromophenol	*85.6*			*34-140*	*%REC*	1	4/1/2013 15:35
Surr: 2-Fluorobiphenyl	*73.7*			*12-100*	*%REC*	1	4/1/2013 15:35
Surr: 2-Fluorophenol	*83.3*			*33-117*	*%REC*	1	4/1/2013 15:35
Surr: 4-Terphenyl-d14	*98.5*			*25-137*	*%REC*	1	4/1/2013 15:35
Surr: Nitrobenzene-d5	*74.9*			*37-107*	*%REC*	1	4/1/2013 15:35
Surr: Phenol-d6	*82.2*			*40-106*	*%REC*	1	4/1/2013 15:35
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**		Prep: SW5035 / 3/27/13		Analyst: **AK**
GRO (C6-C10)	U		1,600		µg/Kg-dry	1	3/28/2013 08:58
Surr: Toluene-d8	*88.1*			*70-130*	*%REC*	1	3/28/2013 08:58
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260**				Analyst: **AK**
1,1,1-Trichloroethane	U		0.22	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,1,2,2-Tetrachloroethane	U		0.14	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,1,2-Trichloroethane	U		0.20	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,1,2-Trichlorotrifluoroethane	U		0.28	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,1-Dichloroethane	U		0.26	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,1-Dichloroethene	U		0.23	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,2,4-Trichlorobenzene	U		0.21	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,2-Dibromo-3-chloropropane	U		0.20	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,2-Dibromoethane	U		0.21	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,2-Dichlorobenzene	U		0.21	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,2-Dichloroethane	U		0.28	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,2-Dichloropropane	U		0.26	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,3-Dichlorobenzene	U		0.19	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
1,4-Dichlorobenzene	U		0.21	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
2-Butanone	**23**		**0.78**	**10**	**µg/Kg-dry**	0.789	3/29/2013 16:04
2-Hexanone	U		0.31	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
4-Methyl-2-pentanone	U		0.20	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Acetone	U		1.2	13	µg/Kg-dry	1	3/28/2013 08:58
Benzene	U		0.25	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Bromodichloromethane	U		0.21	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Bromoform	U		0.16	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Bromomethane	U		0.36	10	µg/Kg-dry	0.789	3/29/2013 16:04
Carbon disulfide	**0.45**	J	**0.37**	**5.1**	**µg/Kg-dry**	0.789	3/29/2013 16:04

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Sample ID: SS-4
Collection Date: 3/22/2013 04:00 PM

Work Order: 1303837
Lab ID: 1303837-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	U		0.21	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Chlorobenzene	U		0.22	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Chloroethane	U		0.57	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Chloroform	**0.49**	J	**0.27**	**5.1**	**µg/Kg-dry**	0.789	3/29/2013 16:04
Chloromethane	U		0.31	10	µg/Kg-dry	0.789	3/29/2013 16:04
cis-1,2-Dichloroethene	U		0.30	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
cis-1,3-Dichloropropene	U		0.18	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Cyclohexane	U		0.32	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Dibromochloromethane	U		0.17	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Dichlorodifluoromethane	U		0.34	10	µg/Kg-dry	0.789	3/29/2013 16:04
Ethylbenzene	U		0.20	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Isopropylbenzene	U		0.20	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
m,p-Xylene	U		0.38	2.5	µg/Kg-dry	0.789	3/29/2013 16:04
Methyl acetate	U		0.82	10	µg/Kg-dry	0.789	3/29/2013 16:04
Methyl tert-butyl ether	U		0.26	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Methylcyclohexane	U		0.28	10	µg/Kg-dry	0.789	3/29/2013 16:04
Methylene chloride	**1.0**	J	**0.29**	**5.1**	**µg/Kg-dry**	0.789	3/29/2013 16:04
o-Xylene	U		0.20	2.5	µg/Kg-dry	0.789	3/29/2013 16:04
Styrene	U		0.18	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Tetrachloroethene	U		0.30	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Toluene	U		0.24	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
trans-1,2-Dichloroethene	U		0.30	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
trans-1,3-Dichloropropene	U		0.19	10	µg/Kg-dry	0.789	3/29/2013 16:04
Trichloroethene	U		0.24	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Trichlorofluoromethane	U		1.2	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Vinyl chloride	U		0.31	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Xylenes, Total	U		0.59	5.1	µg/Kg-dry	0.789	3/29/2013 16:04
Surr: 1,2-Dichloroethane-d4	*98.4*			*70-120*	*%REC*	1	3/28/2013 08:58
Surr: 1,2-Dichloroethane-d4	*92.6*			*70-120*	*%REC*	0.789	3/29/2013 16:04
Surr: 4-Bromofluorobenzene	*99.2*			*75-120*	*%REC*	1	3/28/2013 08:58
Surr: 4-Bromofluorobenzene	*112*			*75-120*	*%REC*	0.789	3/29/2013 16:04
Surr: Dibromofluoromethane	*96.4*			*85-115*	*%REC*	1	3/28/2013 08:58
Surr: Dibromofluoromethane	*8.80*	S		*85-115*	*%REC*	0.789	3/29/2013 16:04
Surr: Toluene-d8	*97.4*			*85-120*	*%REC*	1	3/28/2013 08:58
Surr: Toluene-d8	*101*			*85-120*	*%REC*	0.789	3/29/2013 16:04
MOISTURE		Method: **A2540 G**					Analyst: **RLF**
Moisture	**22**		**0.025**	**0.050**	**% of sample**	1	3/27/2013 16:15

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

ALS Group USA, Corp

Date: *17-Apr-13*

Client: Tetra Tech
Project: Municipal Farms Animal Shelter 3/22/13
Work Order: 1303837
Sample ID: SB-7 (9-11')
Lab ID: 1303837-06
Collection Date: 3/22/2013 04:40 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PARTICLE-SIZE ANALYSIS OF SOILS			**D422**			Analyst: **KK**
3 Inch Sieve	**100**			**% Passing**	1	4/15/2013
1.5 Inch Sieve	**100**			**% Passing**	1	4/15/2013
0.75 Inch Sieve	**100**			**% Passing**	1	4/15/2013
0.375 Inch Sieve	**100**			**% Passing**	1	4/15/2013
No. 4 Sieve (4.75 mm)	**100**			**% Passing**	1	4/15/2013
No. 10 Sieve (2.00 mm)	**99.0**			**% Passing**	1	4/15/2013
No. 16 Sieve (1.18 mm)	**97.2**			**% Passing**	1	4/15/2013
No. 30 Sieve (0.60 mm)	**95.1**			**% Passing**	1	4/15/2013
No. 50 Sieve (0.30 mm)	**94.6**			**% Passing**	1	4/15/2013
No. 60 Sieve (0.25 mm)	**94.4**			**% Passing**	1	4/15/2013
No. 100 Sieve (0.15 mm)	**93.4**			**% Passing**	1	4/15/2013
No. 200 Sieve (0.075 mm)	**91.3**			**% Passing**	1	4/15/2013
0.030 mm (Hydrometer)	**88.0**			**% Passing**	1	4/15/2013
0.005 mm (Hydrometer)	**65.5**			**% Passing**	1	4/15/2013
0.0015 mm (Hydrometer)	**45.0**			**% Passing**	1	4/15/2013
% Gravel	**1.05**			**% Passing**	1	4/15/2013
% Sand	**7.69**			**% Passing**	1	4/15/2013
% Silt, Clay, Colloids	**91.3**			**% Passing**	1	4/15/2013

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

Batch ID: **47181** Instrument ID **GC12** Method: **SW8081**

MBLK Sample ID: **PBLKS1-47181-47181** Units: **µg/Kg** Analysis Date: **3/29/2013 05:16 PM**

Client ID: Run ID: **GC12_130329A** SeqNo: **2254723** Prep Date: **3/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	U	10								
4,4´-DDE	U	10								
4,4´-DDT	U	10								
Aldrin	U	10								
alpha-BHC	U	10								
alpha-Chlordane	U	10								
beta-BHC	U	10								
Chlordane, Technical	U	25								
delta-BHC	U	10								
Dieldrin	U	10								
Endosulfan I	U	10								
Endosulfan II	U	10								
Endosulfan sulfate	U	10								
Endrin	U	10								
Endrin aldehyde	U	10								
Endrin ketone	U	10								
gamma-BHC (Lindane)	U	10								
gamma-Chlordane	U	10								
Heptachlor	U	10								
Heptachlor epoxide	U	10								
Methoxychlor	U	10								
Toxaphene	U	60								
Surr: Decachlorobiphenyl	*39.67*	0	*33.3*	0	*119*	*45-135*	0			
Surr: Tetrachloro-m-xylene	*40*	0	*33.3*	0	*120*	*45-124*	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47181** Instrument ID **GC12** Method: **SW8081**

LCS Sample ID: **PLCSS1-47181-47181** Units: **µg/Kg** Analysis Date: **3/29/2013 05:16 PM**
Client ID: Run ID: **GC12_130329A** SeqNo: **2254724** Prep Date: **3/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	37.33	10	33.33	0	112	30-135	0			
4,4´-DDE	34	10	33.33	0	102	70-125	0			
4,4´-DDT	43	10	33.33	0	129	45-140	0			
Aldrin	35	10	33.33	0	105	45-140	0			
alpha-BHC	36.67	10	33.33	0	110	60-125	0			
alpha-Chlordane	32.33	10	33.33	0	97	50-150	0			
beta-BHC	30.67	10	33.33	0	92	60-125	0			
delta-BHC	41.67	10	33.33	0	125	55-130	0			
Dieldrin	33	10	33.33	0	99	65-125	0			
Endosulfan I	33.67	10	33.33	0	101	15-135	0			
Endosulfan II	34	10	33.33	0	102	35-140	0			
Endosulfan sulfate	35	10	33.33	0	105	60-135	0			
Endrin	41	10	33.33	0	123	60-135	0			
Endrin aldehyde	28.33	10	33.33	0	85	35-145	0			
Endrin ketone	32.33	10	33.33	0	97	50-150	0			
gamma-BHC (Lindane)	39	10	33.33	0	117	60-125	0			
gamma-Chlordane	32.67	10	33.33	0	98	50-150	0			
Heptachlor	31	10	33.33	0	93	50-140	0			
Heptachlor epoxide	33.67	10	33.33	0	101	65-130	0			
Methoxychlor	48.67	10	33.33	0	146	55-145	0			S
Surr: Decachlorobiphenyl	*39*	0	*33.3*	0	*117*	*45-135*	0			
Surr: Tetrachloro-m-xylene	*40*	0	*33.3*	0	*120*	*45-124*	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47181** Instrument ID **GC12** Method: **SW8081**

MS Sample ID: **1303691-01C MS** Units: **µg/Kg** Analysis Date: **3/29/2013 05:16 PM**
Client ID: Run ID: **GC12_130329A** SeqNo: **2254714** Prep Date: **3/26/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	37.28	49	32.42	0	115	30-135	0			J
4,4´-DDE	32.42	49	32.42	0	100	70-125	0			J
4,4´-DDT	29.18	49	32.42	0	90	45-140	0			J
Aldrin	30.8	49	32.42	0	95	45-140	0			J
alpha-BHC	32.42	49	32.42	0	100	60-125	0			J
alpha-Chlordane	32.42	49	32.42	0	100	50-150	0			J
beta-BHC	25.94	49	32.42	0	80	60-125	0			J
delta-BHC	37.28	49	32.42	0	115	55-130	0			J
Dieldrin	32.42	49	32.42	0	100	65-125	0			J
Endosulfan I	32.42	49	32.42	0	100	15-135	0			J
Endosulfan II	30.8	49	32.42	0	95	35-140	0			J
Endosulfan sulfate	35.66	49	32.42	0	110	60-135	0			J
Endrin	37.28	49	32.42	0	115	60-135	0			J
Endrin aldehyde	27.56	49	32.42	0	85	35-145	0			J
Endrin ketone	30.8	49	32.42	0	95	50-150	0			J
gamma-BHC (Lindane)	32.42	49	32.42	0	100	60-125	0			J
gamma-Chlordane	32.42	49	32.42	0	100	50-150	0			J
Heptachlor	27.56	49	32.42	0	85	50-140	0			J
Heptachlor epoxide	32.42	49	32.42	0	100	65-130	0			J
Methoxychlor	37.28	49	32.42	0	115	55-145	0			J
Surr: Decachlorobiphenyl	*38.9*	0	*32.39*	0	*120*	*45-135*	0			
Surr: Tetrachloro-m-xylene	*37.28*	0	*32.39*	0	*115*	*45-124*	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47181** Instrument ID **GC12** Method: **SW8081**

MSD Sample ID: **1303691-01C MSD** Units: **µg/Kg** Analysis Date: **3/29/2013 05:16 PM**
Client ID: Run ID: **GC12_130329A** SeqNo: **2254715** Prep Date: **3/26/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	33.7	48	32.09	0	105	30-135	37.28	0	35	J
4,4´-DDE	32.09	48	32.09	0	100	70-125	32.42	0	35	J
4,4´-DDT	35.3	48	32.09	0	110	45-140	29.18	0	35	J
Aldrin	30.49	48	32.09	0	95	45-140	30.8	0	35	J
alpha-BHC	32.09	48	32.09	0	100	60-125	32.42	0	35	J
alpha-Chlordane	32.09	48	32.09	0	100	50-150	32.42	0	35	J
beta-BHC	25.68	48	32.09	0	80	60-125	25.94	0	35	J
delta-BHC	38.51	48	32.09	0	120	55-130	37.28	0	35	J
Dieldrin	30.49	48	32.09	0	95	65-125	32.42	0	35	J
Endosulfan I	32.09	48	32.09	0	100	15-135	32.42	0	35	J
Endosulfan II	28.89	48	32.09	0	90	35-140	30.8	0	35	J
Endosulfan sulfate	40.12	48	32.09	0	125	60-135	35.66	0	35	J
Endrin	38.51	48	32.09	0	120	60-135	37.28	0	35	J
Endrin aldehyde	25.68	48	32.09	0	80	35-145	27.56	0	35	J
Endrin ketone	30.49	48	32.09	0	95	50-150	30.8	0	35	J
gamma-BHC (Lindane)	33.7	48	32.09	0	105	60-125	32.42	0	35	J
gamma-Chlordane	30.49	48	32.09	0	95	50-150	32.42	0	35	J
Heptachlor	27.28	48	32.09	0	85	50-140	27.56	0	35	J
Heptachlor epoxide	33.7	48	32.09	0	105	65-130	32.42	0	35	J
Methoxychlor	35.3	48	32.09	0	110	55-145	37.28	0	35	J
Surr: Decachlorobiphenyl	*38.51*	0	*32.06*	0	*120*	*45-135*	38.9	*1.01*	*35*	
Surr: Tetrachloro-m-xylene	*38.51*	0	*32.06*	0	*120*	*45-124*	37.28	*3.25*	*35*	

The following samples were analyzed in this batch: 1303837-02A 1303837-03A 1303837-04A 1303837-05A

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47230** Instrument ID **GC7** Method: **SW8151**

MBLK Sample ID: **HBLKS1-47230-47230** Units: **µg/Kg** Analysis Date: **4/1/2013 02:52 PM**
Client ID: Run ID: **GC7_130401A** SeqNo: **2257711** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	U	50,000								
2,4,5-TP (Silvex)	U	100,000								
2,4-D	U	50,000								
2,4-DB	U	50,000								
Dalapon	U	50,000								
Dicamba	U	50,000								
Dichlorprop	U	50,000								
Dinoseb	U	50,000								
MCPA	U	1,700,000								
MCPP	U	1,700,000								
Surr: DCAA	*179.3*	0	*166.7*	0	*108*	*30-150*	0			

LCS Sample ID: **HLCSS1-47230-47230** Units: **µg/Kg** Analysis Date: **4/1/2013 02:52 PM**
Client ID: Run ID: **GC7_130401A** SeqNo: **2257712** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	175	50,000	166.7	0	105	30-150	0			J
2,4,5-TP (Silvex)	179.3	100,000	166.7	0	108	30-150	0			J
2,4-D	178	50,000	166.7	0	107	20-130	0			J
2,4-DB	208	50,000	166.7	0	125	30-150	0			J
Dalapon	147.3	50,000	166.7	0	88.4	30-150	0			J
Dicamba	149.3	50,000	166.7	0	89.6	30-150	0			J
Dichlorprop	159.7	50,000	166.7	0	95.8	30-150	0			J
Dinoseb	171	50,000	166.7	0	103	10-110	0			J
MCPA	17890	1,700,000	16670	0	107	20-130	0			J
MCPP	22370	1,700,000	16670	0	134	20-130	0			JS
Surr: DCAA	*190*	0	*166.7*	0	*114*	*30-150*	0			

MS Sample ID: **1303837-02A MS** Units: **µg/Kg** Analysis Date: **4/1/2013 02:52 PM**
Client ID: **SS-1** Run ID: **GC7_130401A** SeqNo: **2257706** Prep Date: **3/27/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	115.7	500,000	165.3	0	70	30-150	0			J
2,4,5-TP (Silvex)	79.35	990,000	165.3	0	48	30-150	0			J
2,4-D	201.7	500,000	165.3	0	122	20-130	0			J
2,4-DB	112.4	500,000	165.3	0	68	30-150	0			J
Dalapon	85.96	500,000	165.3	0	52	30-150	0			J
Dichlorprop	396.7	500,000	165.3	0	240	30-150	0			JS
MCPA	8807	17,000,000	16530	0	53.3	20-130	0			J
MCPP	9710	17,000,000	16530	0	58.7	20-130	0			J
Surr: DCAA	*135.6*	0	*165.3*	0	*82*	*30-150*	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47230** Instrument ID **GC7** Method: **SW8151**

MSD Sample ID: **1303837-02A MSD** Units: **µg/Kg** Analysis Date: **4/1/2013 02:52 PM**
Client ID: **SS-1** Run ID: **GC7_130401A** SeqNo: **2257707** Prep Date: **3/27/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	122.8	500,000	165.9	0	74	30-150	115.7	0	30	J
2,4,5-TP (Silvex)	79.63	1,000,000	165.9	0	48	30-150	79.35	0	30	J
2,4-D	189.1	500,000	165.9	0	114	20-130	201.7	0	30	J
2,4-DB	122.8	500,000	165.9	0	74	30-150	112.4	0	30	J
Dalapon	86.27	500,000	165.9	0	52	30-150	85.96	0	30	J
Dichlorprop	408.1	500,000	165.9	0	246	30-150	396.7	0	30	JS
MCPA	8647	17,000,000	16590	0	52.1	20-130	8807	0	30	J
MCPP	8985	17,000,000	16590	0	54.2	20-130	9710	0	30	J
Surr: DCAA	*129.4*	0	*165.9*	0	*78*	*30-150*	135.6	*4.64*	*30*	

The following samples were analyzed in this batch: 1303837-02A 1303837-03A 1303837-04A 1303837-05A

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47245** Instrument ID **GC7** Method: **SW8151**

MBLK Sample ID: **HBLKW1-47245-47245** Units: **µg/L** Analysis Date: **4/1/2013 02:52 PM**
Client ID: Run ID: **GC7_130401A** SeqNo: **2257725** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	U	5.0								
2,4,5-TP (Silvex)	U	10								
2,4-D	U	10								
2,4-DB	U	5.0								
Dalapon	U	5.0								
Dicamba	U	5.0								
Dichlorprop	U	5.0								
Dinoseb	U	5.0								
MCPA	U	10								
MCPP	U	10								
Surr: DCAA	*209.5*	0	*200*	0	*105*	*30-150*	0			

LCS Sample ID: **HLCSW1-47245-47245** Units: **µg/L** Analysis Date: **4/1/2013 02:52 PM**
Client ID: Run ID: **GC7_130401A** SeqNo: **2257726** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	198.5	5.0	200	0	99.2	50-150	0			
2,4,5-TP (Silvex)	236	10	200	0	118	50-150	0			
2,4-D	232	10	200	0	116	50-150	0			
2,4-DB	251	5.0	200	0	126	30-150	0			
Dalapon	141.5	5.0	200	0	70.8	50-150	0			
Dicamba	175	5.0	200	0	87.5	50-150	0			
Dichlorprop	232	5.0	200	0	116	50-150	0			
Dinoseb	133.5	5.0	200	0	66.8	50-150	0			
MCPA	21480	10	20000	0	107	50-150	0			
MCPP	24120	10	20000	0	121	50-150	0			
Surr: DCAA	*253.5*	0	*200*	0	*127*	*30-150*	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47245** Instrument ID **GC7** Method: **SW8151**

MS Sample ID: **1303834-12B MS** Units: **µg/L** Analysis Date: **4/1/2013 02:52 PM**
Client ID: Run ID: **GC7_130401A** SeqNo: **2257722** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	3.3	0.10	5	0	66	50-150	0			
2,4,5-TP (Silvex)	4.51	0.20	5	0	90.2	50-150	0			
2,4-D	3.44	0.20	5	0	68.8	50-150	0			
2,4-DB	4.88	0.10	5	0	97.6	30-150	0			
Dalapon	0.5	0.10	5	0	10	50-150	0			S
Dicamba	3.09	0.10	5	0	61.8	50-150	0			
Dichlorprop	4.45	0.10	5	0	89	50-150	0			
Dinoseb	4.36	0.10	5	0	87.2	50-150	0			
MCPA	500	0.20	500	0	100	50-150	0			
MCPP	415.8	0.20	500	0	83.2	50-150	0			
Surr: DCAA	*4.87*	0	*5*	0	*97.4*	*30-150*	0			

MSD Sample ID: **1303834-12B MSD** Units: **µg/L** Analysis Date: **4/1/2013 02:52 PM**
Client ID: Run ID: **GC7_130401A** SeqNo: **2257723** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	3.86	0.10	5	0	77.2	50-150	3.3	15.6	30	
2,4,5-TP (Silvex)	4.83	0.20	5	0	96.6	50-150	4.51	6.85	30	
2,4-D	3.89	0.20	5	0	77.8	50-150	3.44	12.3	30	
2,4-DB	4.97	0.10	5	0	99.4	30-150	4.88	1.83	30	
Dalapon	0.63	0.10	5	0	12.6	50-150	0.5	23	30	S
Dicamba	3.19	0.10	5	0	63.8	50-150	3.09	3.18	30	
Dichlorprop	5.23	0.10	5	0	105	50-150	4.45	16.1	30	
Dinoseb	4.36	0.10	5	0	87.2	50-150	4.36	0	30	
MCPA	432.3	0.20	500	0	86.5	50-150	500	14.5	30	
MCPP	520.5	0.20	500	0	104	50-150	415.8	22.4	30	
Surr: DCAA	*4.95*	0	*5*	0	*99*	*30-150*	4.87	*1.63*	*30*	

The following samples were analyzed in this batch: 1303837-01B

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47280** Instrument ID **GC12** Method: **SW8081**

MBLK Sample ID: **PBLKW1-47280-47280** Units: **µg/L** Analysis Date: **4/1/2013 04:08 PM**
Client ID: Run ID: **GC12_130401C** SeqNo: **2257607** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	U	0.020								
4,4´-DDE	U	0.020								
4,4´-DDT	U	0.020								
Aldrin	U	0.010								
alpha-BHC	U	0.010								
alpha-Chlordane	U	0.020								
beta-BHC	U	0.010								
Chlordane, Technical	U	0.50								
delta-BHC	U	0.010								
Dieldrin	U	0.020								
Endosulfan I	U	0.020								
Endosulfan II	U	0.020								
Endosulfan sulfate	U	0.020								
Endrin	U	0.020								
Endrin aldehyde	U	0.020								
Endrin ketone	U	0.020								
gamma-BHC (Lindane)	U	0.010								
gamma-Chlordane	U	0.020								
Heptachlor	U	0.010								
Heptachlor epoxide	U	0.010								
Methoxychlor	U	0.040								
Toxaphene	U	2.0								
Surr: Decachlorobiphenyl	*0.079*	0	*0.1*	0	*79*	*30-135*	0			
Surr: Tetrachloro-m-xylene	*0.089*	0	*0.1*	0	*89*	*25-140*	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47280** Instrument ID **GC12** Method: **SW8081**

LCS Sample ID: **PLCSW1-47280-47280** Units: **µg/L** Analysis Date: **4/1/2013 04:08 PM**
Client ID: Run ID: **GC12_130401C** SeqNo: **2257608** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.073	0.020	0.1	0	73	25-150	0			
4,4´-DDE	0.072	0.020	0.1	0	72	35-140	0			
4,4´-DDT	0.102	0.020	0.1	0	102	45-140	0			
Aldrin	0.061	0.010	0.1	0	61	25-140	0			
alpha-BHC	0.069	0.010	0.1	0	69	60-130	0			
alpha-Chlordane	0.07	0.020	0.1	0	70	50-150	0			
beta-BHC	0.073	0.010	0.1	0	73	65-125	0			
delta-BHC	0.085	0.010	0.1	0	85	45-135	0			
Dieldrin	0.072	0.020	0.1	0	72	60-130	0			
Endosulfan I	0.062	0.020	0.1	0	62	50-110	0			
Endosulfan II	0.077	0.020	0.1	0	77	30-130	0			
Endosulfan sulfate	0.087	0.020	0.1	0	87	55-135	0			
Endrin	0.077	0.020	0.1	0	77	55-135	0			
Endrin aldehyde	0.073	0.020	0.1	0	73	55-135	0			
Endrin ketone	0.08	0.020	0.1	0	80	50-150	0			
gamma-BHC (Lindane)	0.081	0.010	0.1	0	81	25-135	0			
gamma-Chlordane	0.072	0.020	0.1	0	72	50-150	0			
Heptachlor	0.079	0.010	0.1	0	79	40-130	0			
Heptachlor epoxide	0.075	0.010	0.1	0	75	60-130	0			
Methoxychlor	0.118	0.040	0.1	0	118	55-150	0			
Surr: Decachlorobiphenyl	*0.082*	0	*0.1*	0	*82*	*30-135*	0			
Surr: Tetrachloro-m-xylene	*0.059*	0	*0.1*	0	*59*	*25-140*	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47280** Instrument ID **GC12** Method: **SW8081**

MS Sample ID: **1303834-12B MS** Units: **µg/L** Analysis Date: **4/1/2013 04:08 PM**
Client ID: Run ID: **GC12_130401C** SeqNo: **2257603** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.76	0.20	1	0	76	25-150	0			
4,4´-DDE	0.74	0.20	1	0	74	35-140	0			
4,4´-DDT	1.04	0.20	1	0	104	45-140	0			
Aldrin	0.62	0.10	1	0	62	25-140	0			
alpha-BHC	0.75	0.10	1	0	75	60-130	0			
alpha-Chlordane	0.7	0.20	1	0	70	50-150	0			
beta-BHC	0.76	0.10	1	0	76	65-125	0			
delta-BHC	0.87	0.10	1	0	87	45-135	0			
Dieldrin	0.71	0.20	1	0	71	60-130	0			
Endosulfan I	0.58	0.20	1	0	58	50-110	0			
Endosulfan II	0.76	0.20	1	0	76	30-130	0			
Endosulfan sulfate	0.76	0.20	1	0	76	55-135	0			
Endrin	0.78	0.20	1	0	78	55-135	0			
Endrin aldehyde	0.74	0.20	1	0	74	55-135	0			
Endrin ketone	0.75	0.20	1	0	75	55-135	0			
gamma-BHC (Lindane)	0.86	0.10	1	0	86	25-135	0			
gamma-Chlordane	0.72	0.20	1	0	72	55-135	0			
Heptachlor	0.82	0.10	1	0	82	40-130	0			
Heptachlor epoxide	0.76	0.10	1	0	76	60-130	0			
Methoxychlor	1.17	0.40	1	0	117	55-150	0			
Surr: Decachlorobiphenyl	*0.82*	0	*1*	0	*82*	*30-135*	0			
Surr: Tetrachloro-m-xylene	*0.63*	0	*1*	0	*63*	*25-140*	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47280** Instrument ID **GC12** Method: **SW8081**

MSD Sample ID: **1303834-12B MSD** Units: **µg/L** Analysis Date: **4/1/2013 04:08 PM**
Client ID: Run ID: **GC12_130401C** SeqNo: **2257604** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.74	0.20	1	0	74	25-150	0.76	2.67	50	
4,4´-DDE	0.75	0.20	1	0	75	35-140	0.74	1.34	50	
4,4´-DDT	1.02	0.20	1	0	102	45-140	1.04	1.94	50	
Aldrin	0.61	0.10	1	0	61	25-140	0.62	1.63	50	
alpha-BHC	0.73	0.10	1	0	73	60-130	0.75	2.7	50	
alpha-Chlordane	0.71	0.20	1	0	71	50-150	0.7	1.42	50	
beta-BHC	0.74	0.10	1	0	74	65-125	0.76	2.67	50	
delta-BHC	0.87	0.10	1	0	87	45-135	0.87	0	50	
Dieldrin	0.73	0.20	1	0	73	60-130	0.71	2.78	50	
Endosulfan I	0.6	0.20	1	0	60	50-110	0.58	3.39	50	
Endosulfan II	0.76	0.20	1	0	76	30-130	0.76	0	50	
Endosulfan sulfate	0.85	0.20	1	0	85	55-135	0.76	11.2	50	
Endrin	0.79	0.20	1	0	79	55-135	0.78	1.27	50	
Endrin aldehyde	0.77	0.20	1	0	77	55-135	0.74	3.97	50	
Endrin ketone	0.79	0.20	1	0	79	55-135	0.75	5.19	50	
gamma-BHC (Lindane)	0.84	0.10	1	0	84	25-135	0.86	2.35	50	
gamma-Chlordane	0.72	0.20	1	0	72	55-135	0.72	0	50	
Heptachlor	0.8	0.10	1	0	80	40-130	0.82	2.47	50	
Heptachlor epoxide	0.76	0.10	1	0	76	60-130	0.76	0	50	
Methoxychlor	1.15	0.40	1	0	115	55-150	1.17	1.72	50	
Surr: Decachlorobiphenyl	*0.82*	0	*1*	0	*82*	*30-135*	0.82	*0*	*50*	
Surr: Tetrachloro-m-xylene	*0.67*	0	*1*	0	*67*	*25-140*	0.63	*6.15*	*50*	

The following samples were analyzed in this batch: 1303837-01B

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47291** Instrument ID **HG1** Method: **SW7470**

MBLK Sample ID: **MBLK-47291-47291** Units: **mg/L** Analysis Date: **3/29/2013 12:21 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254055** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS Sample ID: **LCS-47291-47291** Units: **mg/L** Analysis Date: **3/29/2013 12:23 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254056** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002005	0.00020	0.002	0	100	80-120	0			

MS Sample ID: **1303876-01CMS** Units: **mg/L** Analysis Date: **3/29/2013 12:39 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254065** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001842	0.00020	0.002	0.000022	91	75-125	0			

MS Sample ID: **1303876-01DMS** Units: **mg/L** Analysis Date: **3/29/2013 12:58 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254071** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00179	0.00020	0.002	0.000006	89.2	75-125	0			

MSD Sample ID: **1303876-01CMSD** Units: **mg/L** Analysis Date: **3/29/2013 12:54 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254069** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001853	0.00020	0.002	0.000022	91.6	75-125	0.001842	0.595	20	

MSD Sample ID: **1303876-01DMSD** Units: **mg/L** Analysis Date: **3/29/2013 01:00 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254072** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001822	0.00020	0.002	0.000006	90.8	75-125	0.00179	1.77	20	

The following samples were analyzed in this batch: 1303837-01C

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47292** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-47292-47292** Units: **mg/Kg** Analysis Date: **3/29/2013 01:20 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254183** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS Sample ID: **LCS-47292-47292** Units: **mg/Kg** Analysis Date: **3/29/2013 02:16 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254337** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1839	0.020	0.1665	0	110	80-120	0			

MS Sample ID: **1303900-01AMS** Units: **mg/Kg** Analysis Date: **3/29/2013 01:27 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254208** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1588	0.016	0.1372	0.01465	105	75-125	0			

MSD Sample ID: **1303900-01AMSD** Units: **mg/Kg** Analysis Date: **3/29/2013 01:29 PM**
Client ID: Run ID: **HG1_130329A** SeqNo: **2254209** Prep Date: **3/29/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1458	0.015	0.1282	0.01465	102	75-125	0.1588	8.51	35	

The following samples were analyzed in this batch:

1303837-02A	1303837-03A	1303837-04A
1303837-05A		

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47263** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-47263-47263** Units: **mg/Kg** Analysis Date: **3/28/2013 07:52 PM**
Client ID: Run ID: **ICPMS1_130328A** SeqNo: **2253552** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.25								
Arsenic	U	0.25								
Beryllium	0.003174	0.10								J
Cadmium	0.002356	0.10								J
Chromium	U	0.25								
Copper	U	0.25								
Lead	0.004447	0.25								J
Nickel	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								
Thallium	0.02516	0.25								J
Zinc	U	0.50								

LCS Sample ID: **LCS-47263-47263** Units: **mg/Kg** Analysis Date: **3/28/2013 07:58 PM**
Client ID: Run ID: **ICPMS1_130328A** SeqNo: **2253553** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.506	0.25	5	0	90.1	80-120	0			
Arsenic	4.66	0.25	5	0	93.2	80-120	0			
Beryllium	4.923	0.10	5	0	98.5	80-120	0			
Cadmium	4.554	0.10	5	0	91.1	80-120	0			
Chromium	4.732	0.25	5	0	94.6	80-120	0			
Copper	4.594	0.25	5	0	91.9	80-120	0			
Lead	4.777	0.25	5	0	95.5	80-120	0			
Nickel	4.668	0.25	5	0	93.4	80-120	0			
Selenium	4.338	0.25	5	0	86.8	80-120	0			
Silver	4.578	0.25	5	0	91.6	80-120	0			
Thallium	4.51	0.25	5	0	90.2	80-120	0			
Zinc	4.347	0.50	5	0	86.9	80-120	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47263** Instrument ID **ICPMS1** Method: **SW6020A**

MS Sample ID: **1303887-05AMS** Units: **mg/Kg** Analysis Date: **3/28/2013 08:09 PM**
Client ID: Run ID: **ICPMS1_130328A** SeqNo: **2253555** Prep Date: **3/28/2013** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	7.37	1.6	7.911	0.5615	86.1	75-125	0			
Arsenic	17.49	1.6	7.911	11.86	71.2	75-125	0			S
Beryllium	7.475	0.63	7.911	0.3576	90	75-125	0			
Cadmium	8.924	0.63	7.911	1.399	95.1	75-125	0			
Chromium	94.3	1.6	7.911	86.06	104	75-125	0			O
Copper	48.54	1.6	7.911	42.12	81.2	75-125	0			O
Lead	83.92	1.6	7.911	80.48	43.5	75-125	0			SO
Nickel	28.19	1.6	7.911	22.37	73.6	75-125	0			S
Selenium	8.408	1.6	7.911	1.017	93.4	75-125	0			
Silver	8.193	1.6	7.911	1.016	90.7	75-125	0			
Thallium	7.18	1.6	7.911	0.1997	88.2	75-125	0			
Zinc	205.3	3.2	7.911	201.5	47.2	75-125	0			SO

MSD Sample ID: **1303887-05AMSD** Units: **mg/Kg** Analysis Date: **3/28/2013 08:15 PM**
Client ID: Run ID: **ICPMS1_130328A** SeqNo: **2253556** Prep Date: **3/28/2013** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	7.912	1.6	7.874	0.5615	93.3	75-125	7.37	7.09	25	
Arsenic	21	1.6	7.874	11.86	116	75-125	17.49	18.3	25	
Beryllium	8.031	0.63	7.874	0.3576	97.5	75-125	7.475	7.18	25	
Cadmium	9.446	0.63	7.874	1.399	102	75-125	8.924	5.68	25	
Chromium	92	1.6	7.874	86.06	75.4	75-125	94.3	2.47	25	O
Copper	47.18	1.6	7.874	42.12	64.3	75-125	48.54	2.85	25	SO
Lead	85.92	1.6	7.874	80.48	69	75-125	83.92	2.35	25	SO
Nickel	29.2	1.6	7.874	22.37	86.7	75-125	28.19	3.52	25	
Selenium	8.923	1.6	7.874	1.017	100	75-125	8.408	5.94	25	
Silver	8.608	1.6	7.874	1.016	96.4	75-125	8.193	4.94	25	
Thallium	7.761	1.6	7.874	0.1997	96	75-125	7.18	7.77	25	
Zinc	211	3.1	7.874	201.5	121	75-125	205.3	2.77	25	O

The following samples were analyzed in this batch: 1303837-02A 1303837-03A 1303837-04A 1303837-05A

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118293A** Instrument ID **ICPMS2** Method: **SW6020A** **(Dissolve)**

MS Sample ID: **1303913-01CMS** Units: **mg/L** Analysis Date: **4/2/2013 04:28 PM**
Client ID: Run ID: **ICPMS2_130402A** SeqNo: **2257898** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09525	0.0050	0.1	0.0007346	94.5	75-125	0			
Arsenic	0.1031	0.0050	0.1	0.004391	98.7	75-125	0			
Beryllium	0.1044	0.0020	0.1	-5.912E-05	104	75-125	0			
Cadmium	0.1016	0.0020	0.1	0.0000466	102	75-125	0			
Chromium	0.09605	0.0050	0.1	0.00339	92.7	75-125	0			
Copper	0.09487	0.0050	0.1	0.001445	93.4	75-125	0			
Lead	0.09944	0.0050	0.1	0.001012	98.4	75-125	0			
Nickel	0.09673	0.0050	0.1	0.003386	93.3	75-125	0			
Selenium	0.09953	0.0050	0.1	0.001193	98.3	75-125	0			
Silver	0.0991	0.0050	0.1	-0.0006572	99.8	75-125	0			
Thallium	0.09595	0.0050	0.1	-0.0001521	96.1	75-125	0			
Zinc	0.1014	0.010	0.1	0.00634	95.1	75-125	0			

MSD Sample ID: **1303913-01CMSD** Units: **mg/L** Analysis Date: **4/2/2013 04:33 PM**
Client ID: Run ID: **ICPMS2_130402A** SeqNo: **2257899** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09507	0.0050	0.1	0.0007346	94.3	75-125	0.09525	0.189	20	
Arsenic	0.1022	0.0050	0.1	0.004391	97.8	75-125	0.1031	0.877	20	
Beryllium	0.1031	0.0020	0.1	-5.912E-05	103	75-125	0.1044	1.25	20	
Cadmium	0.1023	0.0020	0.1	0.0000466	102	75-125	0.1016	0.687	20	
Chromium	0.09636	0.0050	0.1	0.00339	93	75-125	0.09605	0.322	20	
Copper	0.09409	0.0050	0.1	0.001445	92.6	75-125	0.09487	0.826	20	
Lead	0.09892	0.0050	0.1	0.001012	97.9	75-125	0.09944	0.524	20	
Nickel	0.09588	0.0050	0.1	0.003386	92.5	75-125	0.09673	0.883	20	
Selenium	0.09779	0.0050	0.1	0.001193	96.6	75-125	0.09953	1.76	20	
Silver	0.0991	0.0050	0.1	-0.0006572	99.8	75-125	0.0991	0	20	
Thallium	0.09618	0.0050	0.1	-0.0001521	96.3	75-125	0.09595	0.239	20	
Zinc	0.101	0.010	0.1	0.00634	94.7	75-125	0.1014	0.395	20	

The following samples were analyzed in this batch: 1303837-01C

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: **SBLKS1-47241-47241** Units: **µg/Kg** Analysis Date: **4/1/2013 01:58 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258584** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	330								
2,4,5-Trichlorophenol	U	160								
2,4,6-Trichlorophenol	U	160								
2,4-Dichlorophenol	U	160								
2,4-Dimethylphenol	U	330								
2,4-Dinitrophenol	U	660								
2,4-Dinitrotoluene	U	160								
2,6-Dinitrotoluene	U	160								
2-Chloronaphthalene	U	80								
2-Chlorophenol	U	160								
2-Methylnaphthalene	U	80								
2-Methylphenol	U	160								
2-Nitroaniline	U	660								
2-Nitrophenol	U	160								
3,3´-Dichlorobenzidine	U	660								
3-Nitroaniline	U	660								
4,6-Dinitro-2-methylphenol	U	330								
4-Bromophenyl phenyl ether	U	160								
4-Chloro-3-methylphenol	U	160								
4-Chloroaniline	U	660								
4-Chlorophenyl phenyl ether	U	160								
4-Methylphenol	U	160								
4-Nitroaniline	U	660								
4-Nitrophenol	U	660								
Acenaphthene	U	30								
Acenaphthylene	U	30								
Acetophenone	U	330								
Anthracene	U	30								
Atrazine	U	330								
Benzaldehyde	U	330								
Benzo(a)anthracene	U	30								
Benzo(a)pyrene	U	30								
Benzo(b)fluoranthene	U	30								
Benzo(g,h,i)perylene	U	30								
Benzo(k)fluoranthene	U	30								
Bis(2-chloroethoxy)methane	U	160								
Bis(2-chloroethyl)ether	U	160								
Bis(2-chloroisopropyl)ether	U	160								
Bis(2-ethylhexyl)phthalate	U	330								
Butyl benzyl phthalate	U	160								
Caprolactam	U	330								
Carbazole	U	160								

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

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

Chrysene	U	30					
Dibenzo(a,h)anthracene	U	30					
Dibenzofuran	U	160					
Diethyl phthalate	U	330					
Dimethyl phthalate	U	330					
Di-n-butyl phthalate	U	330					
Di-n-octyl phthalate	U	160					
Fluoranthene	U	30					
Fluorene	U	30					
Hexachlorobenzene	U	160					
Hexachlorobutadiene	U	160					
Hexachlorocyclopentadiene	U	330					
Hexachloroethane	U	160					
Indeno(1,2,3-cd)pyrene	U	30					
Isophorone	U	160					
Naphthalene	U	30					
Nitrobenzene	U	160					
N-Nitrosodi-n-propylamine	U	160					
N-Nitrosodiphenylamine	U	160					
Pentachlorophenol	U	330					
Phenanthrene	U	30					
Phenol	U	160					
Pyrene	U	30					
Surr: 2,4,6-Tribromophenol	*1134*	0	*1667*	0	*68*	*34-140*	0
Surr: 2-Fluorobiphenyl	*1361*	0	*1667*	0	*81.7*	*12-100*	0
Surr: 2-Fluorophenol	*1485*	0	*1667*	0	*89.1*	*33-117*	0
Surr: 4-Terphenyl-d14	*1723*	0	*1667*	0	*103*	*25-137*	0
Surr: Nitrobenzene-d5	*1457*	0	*1667*	0	*87.4*	*37-107*	0
Surr: Phenol-d6	*1517*	0	*1667*	0	*91*	*40-106*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

LCS Sample ID: **SLCSS1-47241-47241** Units: **µg/Kg** Analysis Date: **4/1/2013 02:28 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258585** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	536.3	160	666.7	0	80.4	50-110	0			
2,4,6-Trichlorophenol	523	160	666.7	0	78.4	45-110	0			
2,4-Dichlorophenol	580.7	160	666.7	0	87.1	45-110	0			
2,4-Dimethylphenol	408.3	330	666.7	0	61.2	30-105	0			
2,4-Dinitrophenol	479	660	666.7	0	71.8	15-130	0			J
2,4-Dinitrotoluene	601.3	160	666.7	0	90.2	50-115	0			
2,6-Dinitrotoluene	584.7	160	666.7	0	87.7	50-110	0			
2-Chloronaphthalene	575	80	666.7	0	86.2	45-105	0			
2-Chlorophenol	589.3	160	666.7	0	88.4	45-105	0			
2-Methylnaphthalene	596	80	666.7	0	89.4	45-105	0			
2-Methylphenol	574.3	160	666.7	0	86.1	40-105	0			
2-Nitroaniline	608	660	666.7	0	91.2	45-120	0			J
2-Nitrophenol	579.7	160	666.7	0	86.9	40-110	0			
3-Nitroaniline	607.7	660	666.7	0	91.1	25-150	0			J
4-Bromophenyl phenyl ether	573.7	160	666.7	0	86	45-115	0			
4-Chloro-3-methylphenol	589.3	160	666.7	0	88.4	45-115	0			
4-Chloroaniline	371.3	660	666.7	0	55.7	15-110	0			J
4-Chlorophenyl phenyl ether	630.3	160	666.7	0	94.5	45-110	0			
4-Methylphenol	595.3	160	666.7	0	89.3	40-105	0			
4-Nitroaniline	462.3	660	666.7	0	69.3	35-150	0			J
4-Nitrophenol	644.3	660	666.7	0	96.6	15-140	0			J
Acenaphthene	559.7	30	666.7	0	83.9	45-110	0			
Acenaphthylene	576	30	666.7	0	86.4	45-105	0			
Anthracene	596	30	666.7	0	89.4	55-105	0			
Benzo(a)anthracene	603.7	30	666.7	0	90.5	50-110	0			
Benzo(a)pyrene	640	30	666.7	0	96	50-110	0			
Benzo(b)fluoranthene	622.3	30	666.7	0	93.3	45-115	0			
Benzo(g,h,i)perylene	648.3	30	666.7	0	97.2	40-125	0			
Benzo(k)fluoranthene	679	30	666.7	0	102	45-115	0			
Bis(2-chloroethoxy)methane	575.7	160	666.7	0	86.3	45-110	0			
Bis(2-chloroethyl)ether	562.7	160	666.7	0	84.4	40-105	0			
Bis(2-chloroisopropyl)ether	634.3	160	666.7	0	95.1	20-115	0			
Bis(2-ethylhexyl)phthalate	661.7	330	666.7	0	99.2	45-125	0			
Butyl benzyl phthalate	659	160	666.7	0	98.8	50-125	0			
Carbazole	1142	160	666.7	0	171	50-150	0			S
Chrysene	631.7	30	666.7	0	94.7	55-110	0			
Dibenzo(a,h)anthracene	688	30	666.7	0	103	40-125	0			
Dibenzofuran	579	160	666.7	0	86.8	50-105	0			
Diethyl phthalate	596.3	330	666.7	0	89.4	50-115	0			
Dimethyl phthalate	567.7	330	666.7	0	85.1	50-110	0			
Di-n-butyl phthalate	656.7	330	666.7	0	98.5	55-110	0			
Di-n-octyl phthalate	703.3	160	666.7	0	105	40-130	0			

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

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

Fluoranthene	613	30	666.7	0	91.9	55-115	0
Fluorene	609.7	30	666.7	0	91.4	50-110	0
Hexachlorobenzene	589.7	160	666.7	0	88.4	45-120	0
Hexachlorobutadiene	552.7	160	666.7	0	82.9	40-115	0
Hexachlorocyclopentadiene	347	330	666.7	0	52	40-115	0
Hexachloroethane	559	160	666.7	0	83.8	35-110	0
Indeno(1,2,3-cd)pyrene	684.7	30	666.7	0	103	40-120	0
Isophorone	570	160	666.7	0	85.5	45-110	0
Naphthalene	569	30	666.7	0	85.3	40-105	0
Nitrobenzene	583.3	160	666.7	0	87.5	40-115	0
N-Nitrosodi-n-propylamine	622	160	666.7	0	93.3	40-115	0
N-Nitrosodiphenylamine	638.7	160	666.7	0	95.8	50-115	0
Pentachlorophenol	583.3	330	666.7	0	87.5	25-120	0
Phenanthrene	573.7	30	666.7	0	86	50-110	0
Phenol	587	160	666.7	0	88	40-100	0
Pyrene	599	30	666.7	0	89.8	45-125	0
Surr: 2,4,6-Tribromophenol	*1441*	0	*1667*	0	*86.5*	*34-140*	0
Surr: 2-Fluorobiphenyl	*1318*	0	*1667*	0	*79.1*	*12-100*	0
Surr: 2-Fluorophenol	*1518*	0	*1667*	0	*91.1*	*33-117*	0
Surr: 4-Terphenyl-d14	*1732*	0	*1667*	0	*104*	*25-137*	0
Surr: Nitrobenzene-d5	*1424*	0	*1667*	0	*85.4*	*37-107*	0
Surr: Phenol-d6	*1460*	0	*1667*	0	*87.6*	*40-106*	0

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

MS Sample ID: **1303834-09B MS** Units: **µg/Kg** Analysis Date: **4/1/2013 05:08 AM**

Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258586** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1108	320	1328	0	83.4	50-110	0			
2,4,6-Trichlorophenol	1049	320	1328	0	79	45-110	0			
2,4-Dichlorophenol	1122	320	1328	0	84.5	45-110	0			
2,4-Dimethylphenol	675.1	660	1328	0	50.8	30-105	0			
2,4-Dinitrophenol	1005	1,300	1328	0	75.7	15-130	0			J
2,4-Dinitrotoluene	1157	320	1328	0	87.1	50-115	0			
2,6-Dinitrotoluene	1138	320	1328	0	85.7	50-110	0			
2-Chloronaphthalene	1083	160	1328	0	81.6	45-105	0			
2-Chlorophenol	1101	320	1328	0	82.9	45-105	0			
2-Methylnaphthalene	1126	160	1328	0	84.8	45-105	0			
2-Methylphenol	1046	320	1328	0	78.7	40-105	0			
2-Nitroaniline	1171	1,300	1328	0	88.2	45-120	0			J
2-Nitrophenol	1103	320	1328	0	83.1	40-110	0			
3-Nitroaniline	1167	1,300	1328	0	87.9	25-110	0			J
4-Bromophenyl phenyl ether	1125	320	1328	0	84.7	45-115	0			
4-Chloro-3-methylphenol	1154	320	1328	0	86.9	45-115	0			
4-Chloroaniline	446.8	1,300	1328	0	33.6	15-110	0			J
4-Chlorophenyl phenyl ether	1214	320	1328	0	91.4	45-110	0			
4-Methylphenol	1092	320	1328	0	82.2	40-105	0			
4-Nitroaniline	1284	1,300	1328	0	96.7	35-150	0			J
4-Nitrophenol	1279	1,300	1328	0	96.3	15-140	0			J
Acenaphthene	1074	60	1328	0	80.9	45-110	0			
Acenaphthylene	1084	60	1328	0	81.6	45-105	0			
Anthracene	1157	60	1328	0	87.1	55-105	0			
Benzo(a)anthracene	1165	60	1328	37.67	84.9	50-110	0			
Benzo(a)pyrene	1221	60	1328	33.7	89.4	50-110	0			
Benzo(b)fluoranthene	1208	60	1328	46.26	87.5	45-115	0			
Benzo(g,h,i)perylene	1235	60	1328	25.44	91.1	40-125	0			
Benzo(k)fluoranthene	1300	60	1328	18.83	96.5	45-115	0			
Bis(2-chloroethoxy)methane	1082	320	1328	0	81.5	45-110	0			
Bis(2-chloroethyl)ether	1050	320	1328	0	79	40-105	0			
Bis(2-chloroisopropyl)ether	1172	320	1328	0	88.3	20-115	0			
Bis(2-ethylhexyl)phthalate	1255	660	1328	0	94.5	45-125	0			
Butyl benzyl phthalate	1237	320	1328	0	93.1	50-125	0			
Carbazole	2123	320	1328	0	160	50-150	0			S
Chrysene	1220	60	1328	41.96	88.7	55-110	0			
Dibenzo(a,h)anthracene	1308	60	1328	0	98.5	40-125	0			
Dibenzofuran	1114	320	1328	0	83.9	50-105	0			
Diethyl phthalate	1152	660	1328	0	86.7	50-115	0			
Dimethyl phthalate	1078	660	1328	0	81.2	50-110	0			
Di-n-butyl phthalate	1234	660	1328	0	92.9	55-110	0			
Di-n-octyl phthalate	1334	320	1328	0	100	40-130	0			

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

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

Fluoranthene	1218	60	1328	83.93	85.4	55-115	0	
Fluorene	1186	60	1328	0	89.3	50-110	0	
Hexachlorobenzene	1154	320	1328	0	86.9	45-120	0	
Hexachlorobutadiene	1032	320	1328	0	77.7	40-115	0	
Hexachlorocyclopentadiene	531.7	660	1328	0	40	40-115	0	J
Hexachloroethane	1031	320	1328	0	77.6	35-110	0	
Indeno(1,2,3-cd)pyrene	1310	60	1328	20.82	97.1	40-120	0	
Isophorone	1069	320	1328	0	80.5	45-110	0	
Naphthalene	1075	60	1328	0	80.9	40-105	0	
Nitrobenzene	1091	320	1328	0	82.2	40-115	0	
N-Nitrosodi-n-propylamine	1162	320	1328	0	87.5	40-115	0	
N-Nitrosodiphenylamine	1218	320	1328	0	91.7	50-115	0	
Pentachlorophenol	1240	660	1328	0	93.4	25-120	0	
Phenanthrene	1168	60	1328	48.24	84.4	50-110	0	
Phenol	1103	320	1328	0	83.1	40-100	0	
Pyrene	1160	60	1328	65.75	82.4	45-125	0	
Surr: 2,4,6-Tribromophenol	*2967*	0	*3319*	0	*89.4*	*34-140*	0	
Surr: 2-Fluorobiphenyl	*2513*	0	*3319*	0	*75.7*	*12-100*	0	
Surr: 2-Fluorophenol	*2862*	0	*3319*	0	*86.2*	*33-117*	0	
Surr: 4-Terphenyl-d14	*3317*	0	*3319*	0	*99.9*	*25-137*	0	
Surr: Nitrobenzene-d5	*2700*	0	*3319*	0	*81.3*	*37-107*	0	
Surr: Phenol-d6	*2793*	0	*3319*	0	*84.2*	*40-106*	0	

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

MSD Sample ID: **1303834-09B MSD** Units: **µg/Kg** Analysis Date: **4/1/2013 05:37 AM**

Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258587** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1098	310	1297	0	84.7	50-110	1108	0.881	30	
2,4,6-Trichlorophenol	1041	310	1297	0	80.2	45-110	1049	0.798	30	
2,4-Dichlorophenol	1137	310	1297	0	87.7	45-110	1122	1.35	30	
2,4-Dimethylphenol	560.8	640	1297	0	43.2	30-105	675.1	0	30	J
2,4-Dinitrophenol	899.8	1,300	1297	0	69.4	15-130	1005	0	30	J
2,4-Dinitrotoluene	1149	310	1297	0	88.6	50-115	1157	0.718	30	
2,6-Dinitrotoluene	1133	310	1297	0	87.4	50-110	1138	0.404	30	
2-Chloronaphthalene	1112	160	1297	0	85.7	45-105	1083	2.59	30	
2-Chlorophenol	1129	310	1297	0	87.1	45-105	1101	2.57	30	
2-Methylnaphthalene	1153	160	1297	0	88.9	45-105	1126	2.41	30	
2-Methylphenol	1050	310	1297	0	80.9	40-105	1046	0.387	30	
2-Nitroaniline	1190	1,300	1297	0	91.8	45-120	1171	0	30	J
2-Nitrophenol	1116	310	1297	0	86	40-110	1103	1.12	30	
3-Nitroaniline	1187	1,300	1297	0	91.5	25-110	1167	0	30	J
4-Bromophenyl phenyl ether	1116	310	1297	0	86	45-115	1125	0.846	30	
4-Chloro-3-methylphenol	1149	310	1297	0	88.6	45-115	1154	0.488	30	
4-Chloroaniline	547.2	1,300	1297	0	42.2	15-110	446.8	0	30	J
4-Chlorophenyl phenyl ether	1230	310	1297	0	94.9	45-110	1214	1.33	30	
4-Methylphenol	1118	310	1297	0	86.2	40-105	1092	2.32	30	
4-Nitroaniline	1374	1,300	1297	0	106	35-150	1284	6.81	30	
4-Nitrophenol	1262	1,300	1297	0	97.3	15-140	1279	0	30	J
Acenaphthene	1090	58	1297	0	84.1	45-110	1074	1.51	30	
Acenaphthylene	1109	58	1297	0	85.5	45-105	1084	2.3	30	
Anthracene	1140	58	1297	0	87.9	55-105	1157	1.45	30	
Benzo(a)anthracene	1160	58	1297	37.67	86.5	50-110	1165	0.449	30	
Benzo(a)pyrene	1203	58	1297	33.7	90.1	50-110	1221	1.5	30	
Benzo(b)fluoranthene	1235	58	1297	46.26	91.7	45-115	1208	2.2	30	
Benzo(g,h,i)perylene	1206	58	1297	25.44	91	40-125	1235	2.37	30	
Benzo(k)fluoranthene	1240	58	1297	18.83	94.1	45-115	1300	4.8	30	
Bis(2-chloroethoxy)methane	1109	310	1297	0	85.5	45-110	1082	2.48	30	
Bis(2-chloroethyl)ether	1076	310	1297	0	82.9	40-105	1050	2.45	30	
Bis(2-chloroisopropyl)ether	1219	310	1297	0	94	20-115	1172	3.89	30	
Bis(2-ethylhexyl)phthalate	1268	640	1297	0	97.8	45-125	1255	1.01	30	
Butyl benzyl phthalate	1253	310	1297	0	96.6	50-125	1237	1.27	30	
Carbazole	2104	310	1297	0	162	50-150	2123	0.909	30	S
Chrysene	1200	58	1297	41.96	89.3	55-110	1220	1.66	30	
Dibenzo(a,h)anthracene	1306	58	1297	0	101	40-125	1308	0.16	30	
Dibenzofuran	1125	310	1297	0	86.8	50-105	1114	1.03	30	
Diethyl phthalate	1144	640	1297	0	88.2	50-115	1152	0.654	30	
Dimethyl phthalate	1096	640	1297	0	84.5	50-110	1078	1.62	30	
Di-n-butyl phthalate	1240	640	1297	0	95.6	55-110	1234	0.443	30	
Di-n-octyl phthalate	1354	310	1297	0	104	40-130	1334	1.49	30	

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

QC BATCH REPORT

Batch ID: **47241** Instrument ID **SVMS6** Method: **SW8270**

Fluoranthene	1171	58	1297	83.93	83.9	55-115	1218	3.91	30	
Fluorene	1195	58	1297	0	92.1	50-110	1186	0.773	30	
Hexachlorobenzene	1148	310	1297	0	88.5	45-120	1154	0.487	30	
Hexachlorobutadiene	1062	310	1297	0	81.9	40-115	1032	2.83	30	
Hexachlorocyclopentadiene	514.1	640	1297	0	39.6	40-115	531.7	0	30	JS
Hexachloroethane	1059	310	1297	0	81.7	35-110	1031	2.72	30	
Indeno(1,2,3-cd)pyrene	1281	58	1297	20.82	97.2	40-120	1310	2.27	30	
Isophorone	1095	310	1297	0	84.4	45-110	1069	2.42	30	
Naphthalene	1089	58	1297	0	84	40-105	1075	1.33	30	
Nitrobenzene	1114	310	1297	0	85.9	40-115	1091	2.09	30	
N-Nitrosodi-n-propylamine	1201	310	1297	0	92.6	40-115	1162	3.3	30	
N-Nitrosodiphenylamine	1207	310	1297	0	93.1	50-115	1218	0.908	30	
Pentachlorophenol	1221	640	1297	0	94.2	25-120	1240	1.52	30	
Phenanthrene	1131	58	1297	48.24	83.5	50-110	1168	3.22	30	
Phenol	1138	310	1297	0	87.7	40-100	1103	3.08	30	
Pyrene	1158	58	1297	65.75	84.2	45-125	1160	0.218	30	
Surr: 2,4,6-Tribromophenol	*2867*	0	*3242*	0	*88.4*	*34-140*	2967	*3.45*	*40*	
Surr: 2-Fluorobiphenyl	*2564*	0	*3242*	0	*79.1*	*12-100*	2513	*2.03*	*40*	
Surr: 2-Fluorophenol	*2920*	0	*3242*	0	*90.1*	*33-117*	2862	*2.01*	*40*	
Surr: 4-Terphenyl-d14	*3260*	0	*3242*	0	*101*	*25-137*	3317	*1.73*	*40*	
Surr: Nitrobenzene-d5	*2733*	0	*3242*	0	*84.3*	*37-107*	2700	*1.23*	*40*	
Surr: Phenol-d6	*2838*	0	*3242*	0	*87.5*	*40-106*	2793	*1.57*	*40*	

The following samples were analyzed in this batch: 1303837-02A 1303837-03A 1303837-04A 1303837-05A

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47242** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: **DBLKS1-47242-47242** Units: **mg/Kg** Analysis Date: **4/1/2013 01:58 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258547** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	U	4.2								
ORO (C21-C35)	U	4.2								
Surr: 4-Terphenyl-d14	*1.723*	0	*1.667*	0	*103*	*25-137*	0			

LCS Sample ID: **DLCSS1-47242-47242** Units: **mg/Kg** Analysis Date: **4/1/2013 03:27 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258551** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	132.4	4.2	166.7	0	79.4	49-124	0			
ORO (C21-C35)	139.4	4.2	166.7	0	83.6	60-130	0			
Surr: 4-Terphenyl-d14	*1.675*	0	*1.667*	0	*101*	*25-137*	0			

MS Sample ID: **1303834-09B MS** Units: **mg/Kg** Analysis Date: **4/1/2013 06:07 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258555** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	256.2	8.3	331.6	0	77.3	31-135	0			
ORO (C21-C35)	301.1	8.3	331.6	13.57	86.7	31-135	0			
Surr: 4-Terphenyl-d14	*3.358*	0	*3.316*	0	*101*	*25-137*	0			

MSD Sample ID: **1303834-09B MSD** Units: **mg/Kg** Analysis Date: **4/1/2013 06:37 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258559** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	262	8.1	324.1	0	80.8	31-135	256.2	2.22	30	
ORO (C21-C35)	296.4	8.1	324.1	13.57	87.3	31-135	301.1	1.58	30	
Surr: 4-Terphenyl-d14	*3.313*	0	*3.241*	0	*102*	*25-137*	3.358	*1.35*	*30*	

The following samples were analyzed in this batch: 1303837-02A 1303837-03A 1303837-04A 1303837-05A

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

MBLK Sample ID: **SBLKW1-47243-47243** Units: **µg/L** Analysis Date: **3/28/2013 10:40 PM**
Client ID: Run ID: **SVMS7_130328A** SeqNo: **2254344** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1`-Biphenyl	U	5.0								
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dichlorophenol	U	10								
2,4-Dimethylphenol	U	5.0								
2,4-Dinitrophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
2,6-Dinitrotoluene	U	5.0								
2-Chloronaphthalene	U	5.0								
2-Chlorophenol	U	5.0								
2-Methylnaphthalene	U	5.0								
2-Methylphenol	U	5.0								
2-Nitroaniline	U	20								
2-Nitrophenol	U	5.0								
3,3´-Dichlorobenzidine	U	5.0								
3-Nitroaniline	U	20								
4,6-Dinitro-2-methylphenol	U	20								
4-Bromophenyl phenyl ether	U	5.0								
4-Chloro-3-methylphenol	U	5.0								
4-Chloroaniline	U	20								
4-Chlorophenyl phenyl ether	U	5.0								
4-Methylphenol	U	5.0								
4-Nitroaniline	U	20								
4-Nitrophenol	U	20								
Acenaphthene	U	5.0								
Acenaphthylene	U	5.0								
Acetophenone	U	1.0								
Anthracene	U	5.0								
Atrazine	U	1.0								
Benzaldehyde	U	1.0								
Benzo(a)anthracene	U	5.0								
Benzo(a)pyrene	U	5.0								
Benzo(b)fluoranthene	U	5.0								
Benzo(g,h,i)perylene	U	5.0								
Benzo(k)fluoranthene	U	5.0								
Bis(2-chloroethoxy)methane	U	5.0								
Bis(2-chloroethyl)ether	U	5.0								
Bis(2-chloroisopropyl)ether	U	5.0								
Bis(2-ethylhexyl)phthalate	1.96	5.0								J
Butyl benzyl phthalate	U	5.0								
Caprolactam	U	10								
Carbazole	U	10								

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

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

Chrysene	U	5.0							
Dibenzo(a,h)anthracene	U	5.0							
Dibenzofuran	U	5.0							
Diethyl phthalate	U	20							
Dimethyl phthalate	U	20							
Di-n-butyl phthalate	1.04	5.0							J
Di-n-octyl phthalate	0.56	5.0							J
Fluoranthene	U	5.0							
Fluorene	U	5.0							
Hexachlorobenzene	U	5.0							
Hexachlorobutadiene	U	5.0							
Hexachlorocyclopentadiene	U	20							
Hexachloroethane	U	5.0							
Indeno(1,2,3-cd)pyrene	U	5.0							
Isophorone	U	5.0							
Naphthalene	U	5.0							
Nitrobenzene	U	5.0							
N-Nitrosodi-n-propylamine	U	5.0							
N-Nitrosodiphenylamine	U	5.0							
Pentachlorophenol	U	20							
Phenanthrene	U	5.0							
Phenol	U	5.0							
Pyrene	U	5.0							
Surr: 2,4,6-Tribromophenol	*27.48*	0	*50*	0	*55*	*38-115*	0		
Surr: 2-Fluorobiphenyl	*26.89*	0	*50*	0	*53.8*	*32-100*	0		
Surr: 2-Fluorophenol	*16.55*	0	*50*	0	*33.1*	*22-59*	0		
Surr: 4-Terphenyl-d14	*47.34*	0	*50*	0	*94.7*	*23-112*	0		
Surr: Nitrobenzene-d5	*27.89*	0	*50*	0	*55.8*	*31-93*	0		
Surr: Phenol-d6	*8.25*	0	*50*	0	*16.5*	*13-36*	0		

MBLK Sample ID: **SBLKW1-47243-47243** Units: **µg/L** Analysis Date: **3/28/2013 10:40 PM**

Client ID: Run ID: **SVMS7_130328A** SeqNo: **2254378** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
Hexachlorobenzene	U	5.0								
Hexachloroethane	U	5.0								
Nitrobenzene	U	5.0								
Pentachlorophenol	U	20								
Surr: 2,4,6-Tribromophenol	*27.48*	0	*50*	0	*55*	*21-125*	0			
Surr: 2-Fluorobiphenyl	*26.89*	0	*50*	0	*53.8*	*36-94*	0			
Surr: 2-Fluorophenol	*16.55*	0	*50*	0	*33.1*	*10-75*	0			
Surr: 4-Terphenyl-d14	*47.34*	0	*50*	0	*94.7*	*26-119*	0			
Surr: Nitrobenzene-d5	*27.89*	0	*50*	0	*55.8*	*41-104*	0			
Surr: Phenol-d6	*8.25*	0	*50*	0	*16.5*	*11-50*	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

LCS Sample ID: **SLCSW1-47243-47243** Units: **µg/L** Analysis Date: **3/28/2013 11:20 AM**

Client ID: Run ID: **SVMS7_130328A** SeqNo: **2252096** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	12.1	5.0	20	0	60.5	50-110	0			
2,4,6-Trichlorophenol	12.23	5.0	20	0	61.2	50-115	0			
2,4-Dichlorophenol	13.44	10	20	0	67.2	50-105	0			
2,4-Dimethylphenol	13.23	5.0	20	0	66.2	30-110	0			
2,4-Dinitrophenol	11.47	5.0	20	0	57.4	15-140	0			
2,4-Dinitrotoluene	15.45	5.0	20	0	77.2	50-120	0			
2,6-Dinitrotoluene	14.61	5.0	20	0	73	50-115	0			
2-Chloronaphthalene	13.93	5.0	20	0	69.6	50-105	0			
2-Chlorophenol	13.17	5.0	20	0	65.8	35-105	0			
2-Methylnaphthalene	14.66	5.0	20	0	73.3	45-105	0			
2-Methylphenol	11.05	5.0	20	0	55.2	40-110	0			
2-Nitroaniline	16.27	20	20	0	81.4	50-115	0			J
2-Nitrophenol	13.52	5.0	20	0	67.6	40-115	0			
3-Nitroaniline	11.59	20	20	0	58	20-125	0			J
4,6-Dinitro-2-methylphenol	13.12	20	20	0	65.6	40-130	0			J
4-Bromophenyl phenyl ether	12.97	5.0	20	0	64.8	50-115	0			
4-Chloro-3-methylphenol	14.57	5.0	20	0	72.8	45-110	0			
4-Chloroaniline	16.57	20	20	0	82.8	15-110	0			J
4-Chlorophenyl phenyl ether	14.36	5.0	20	0	71.8	50-110	0			
4-Methylphenol	9.64	5.0	20	0	48.2	30-110	0			
4-Nitroaniline	13.19	20	20	0	66	35-150	0			J
4-Nitrophenol	2.4	20	20	0	12	1-58	0			J
Acenaphthene	14.4	5.0	20	0	72	45-110	0			
Acenaphthylene	14.93	5.0	20	0	74.6	50-105	0			
Anthracene	15.43	5.0	20	0	77.2	55-110	0			
Benzo(a)anthracene	15.28	5.0	20	0	76.4	55-110	0			
Benzo(a)pyrene	15.71	5.0	20	0	78.6	55-110	0			
Benzo(b)fluoranthene	15.94	5.0	20	0	79.7	45-120	0			
Benzo(g,h,i)perylene	15.03	5.0	20	0	75.2	40-125	0			
Benzo(k)fluoranthene	16.12	5.0	20	0	80.6	45-125	0			
Bis(2-chloroethoxy)methane	14.95	5.0	20	0	74.8	45-105	0			
Bis(2-chloroethyl)ether	15.27	5.0	20	0	76.4	35-110	0			
Bis(2-chloroisopropyl)ether	16.17	5.0	20	0	80.8	25-130	0			
Bis(2-ethylhexyl)phthalate	16.96	5.0	20	0	84.8	40-125	0			
Butyl benzyl phthalate	16.4	5.0	20	0	82	45-115	0			
Carbazole	15.16	10	20	0	75.8	50-150	0			
Chrysene	15.78	5.0	20	0	78.9	55-110	0			
Dibenzo(a,h)anthracene	16.73	5.0	20	0	83.6	40-125	0			
Dibenzofuran	14.41	5.0	20	0	72	55-105	0			
Diethyl phthalate	16.07	20	20	0	80.4	40-120	0			J
Dimethyl phthalate	15.08	20	20	0	75.4	25-125	0			J
Di-n-butyl phthalate	15.97	5.0	20	0	79.8	55-115	0			

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

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

Di-n-octyl phthalate	18.13	5.0	20	0	90.6	35-135	0		
Fluoranthene	15.72	5.0	20	0	78.6	55-115	0		
Fluorene	14.05	5.0	20	0	70.2	50-110	0		
Hexachlorobenzene	12.87	5.0	20	0	64.4	50-110	0		
Hexachlorobutadiene	12.32	5.0	20	0	61.6	25-105	0		
Hexachlorocyclopentadiene	7.44	20	20	0	37.2	25-105	0		J
Hexachloroethane	15.26	5.0	20	0	76.3	30-95	0		
Indeno(1,2,3-cd)pyrene	16.96	5.0	20	0	84.8	45-125	0		
Isophorone	15.18	5.0	20	0	75.9	50-110	0		
Naphthalene	14.43	5.0	20	0	72.2	40-100	0		
Nitrobenzene	14.79	5.0	20	0	74	45-110	0		
N-Nitrosodi-n-propylamine	16.54	5.0	20	0	82.7	35-130	0		
N-Nitrosodiphenylamine	15.36	5.0	20	0	76.8	50-110	0		
Pentachlorophenol	12.14	20	20	0	60.7	40-115	0		J
Phenanthrene	14.52	5.0	20	0	72.6	50-115	0		
Phenol	5.23	5.0	20	0	26.2	12-43	0		
Pyrene	16.62	5.0	20	0	83.1	50-130	0		
Surr: 2,4,6-Tribromophenol	*26.28*	0	*50*	0	*52.6*	*38-115*	0		
Surr: 2-Fluorobiphenyl	*29.95*	0	*50*	0	*59.9*	*32-100*	0		
Surr: 2-Fluorophenol	*18.32*	0	*50*	0	*36.6*	*22-59*	0		
Surr: 4-Terphenyl-d14	*43.81*	0	*50*	0	*87.6*	*23-112*	0		
Surr: Nitrobenzene-d5	*35.29*	0	*50*	0	*70.6*	*31-93*	0		
Surr: Phenol-d6	*10.91*	0	*50*	0	*21.8*	*13-36*	0		

LCS Sample ID: **SLCSW1-47243-47243** Units: **µg/L** Analysis Date: **3/28/2013 11:20 AM**

Client ID: Run ID: **SVMS7_130328A** SeqNo: **2254377** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	12.1	5.0	20	0	60.5	50-110	0			
2,4,6-Trichlorophenol	12.23	5.0	20	0	61.2	50-115	0			
2,4-Dinitrotoluene	15.45	5.0	20	0	77.2	50-120	0			
Hexachlorobenzene	12.87	5.0	20	0	64.4	50-110	0			
Hexachloroethane	15.26	5.0	20	0	76.3	30-95	0			
Nitrobenzene	14.79	5.0	20	0	74	45-110	0			
Pentachlorophenol	12.14	20	20	0	60.7	40-115	0			J
Surr: 2,4,6-Tribromophenol	*26.28*	0	*50*	0	*52.6*	*21-125*	0			
Surr: 2-Fluorobiphenyl	*29.95*	0	*50*	0	*59.9*	*36-94*	0			
Surr: 2-Fluorophenol	*18.32*	0	*50*	0	*36.6*	*10-75*	0			
Surr: 4-Terphenyl-d14	*43.81*	0	*50*	0	*87.6*	*26-119*	0			
Surr: Nitrobenzene-d5	*35.29*	0	*50*	0	*70.6*	*41-104*	0			
Surr: Phenol-d6	*10.91*	0	*50*	0	*21.8*	*11-50*	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

MS Sample ID: **1303834-12B MS** Units: **µg/L** Analysis Date: **3/29/2013 12:43 PM**

Client ID: Run ID: **SVMS7_130328A** SeqNo: **2254347** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	128.2	50	200	0	64.1	50-110	0			
2,4,6-Trichlorophenol	126.1	50	200	0	63	50-115	0			
2,4-Dichlorophenol	133.2	100	200	0	66.6	50-105	0			
2,4-Dimethylphenol	129.9	50	200	0	65	30-110	0			
2,4-Dinitrophenol	74.7	50	200	0	37.4	15-140	0			
2,4-Dinitrotoluene	147.9	50	200	0	74	50-120	0			
2,6-Dinitrotoluene	146.6	50	200	0	73.3	50-115	0			
2-Chloronaphthalene	146.9	50	200	0	73.4	50-105	0			
2-Chlorophenol	132.8	50	200	0	66.4	35-105	0			
2-Methylnaphthalene	149.7	50	200	0	74.8	45-105	0			
2-Methylphenol	109.1	50	200	0	54.6	40-110	0			
2-Nitroaniline	143.2	200	200	0	71.6	50-115	0			J
2-Nitrophenol	128.5	50	200	0	64.2	40-115	0			
3-Nitroaniline	122	200	200	0	61	20-125	0			J
4,6-Dinitro-2-methylphenol	104.2	200	200	0	52.1	40-130	0			J
4-Bromophenyl phenyl ether	146.4	50	200	0	73.2	50-115	0			
4-Chloro-3-methylphenol	130.5	50	200	0	65.2	45-110	0			
4-Chloroaniline	182.4	200	200	0	91.2	15-110	0			J
4-Chlorophenyl phenyl ether	150.7	50	200	0	75.4	50-110	0			
4-Methylphenol	95.4	50	200	0	47.7	30-110	0			
4-Nitroaniline	142.3	200	200	0	71.2	35-150	0			J
4-Nitrophenol	93.9	200	200	0	47	1-58	0			J
Acenaphthene	142.1	50	200	0	71	45-110	0			
Acenaphthylene	152.5	50	200	0	76.2	50-105	0			
Anthracene	159.1	50	200	0	79.6	55-110	0			
Benzo(a)anthracene	148.8	50	200	0	74.4	55-110	0			
Benzo(a)pyrene	144.5	50	200	0	72.2	55-110	0			
Benzo(b)fluoranthene	143.6	50	200	0	71.8	45-120	0			
Benzo(g,h,i)perylene	137.2	50	200	0	68.6	40-125	0			
Benzo(k)fluoranthene	165.9	50	200	0	83	45-125	0			
Bis(2-chloroethoxy)methane	142.5	50	200	0	71.2	45-105	0			
Bis(2-chloroethyl)ether	138	50	200	0	69	35-110	0			
Bis(2-chloroisopropyl)ether	145	50	200	0	72.5	25-130	0			
Bis(2-ethylhexyl)phthalate	191.2	50	200	1.78	94.7	40-125	0			
Butyl benzyl phthalate	168.3	50	200	0	84.2	45-115	0			
Carbazole	185.3	100	200	0	92.6	50-150	0			
Chrysene	153.5	50	200	0	76.8	55-110	0			
Dibenzo(a,h)anthracene	141.3	50	200	0	70.6	40-125	0			
Dibenzofuran	145.5	50	200	0	72.8	55-105	0			
Diethyl phthalate	163.5	200	200	0	81.8	40-120	0			J
Dimethyl phthalate	155.9	200	200	0	78	25-125	0			J
Di-n-butyl phthalate	181.6	50	200	0	90.8	55-115	0			

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

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

Di-n-octyl phthalate	156.4	50	200	0	78.2	35-135	0		
Fluoranthene	171	50	200	0	85.5	55-115	0		
Fluorene	158.5	50	200	0	79.2	50-110	0		
Hexachlorobenzene	142.6	50	200	0	71.3	50-110	0		
Hexachlorobutadiene	131.3	50	200	0	65.6	25-105	0		
Hexachlorocyclopentadiene	97.6	200	200	0	48.8	25-105	0		J
Hexachloroethane	137.8	50	200	0	68.9	30-95	0		
Indeno(1,2,3-cd)pyrene	140.7	50	200	0	70.4	45-125	0		
Isophorone	149.7	50	200	0	74.8	50-110	0		
Naphthalene	139.7	50	200	0	69.8	40-100	0		
Nitrobenzene	137.1	50	200	0	68.6	45-110	0		
N-Nitrosodi-n-propylamine	149.3	50	200	0	74.6	35-130	0		
N-Nitrosodiphenylamine	161	50	200	0	80.5	50-110	0		
Pentachlorophenol	134.3	200	200	0	67.2	40-115	0		J
Phenanthrene	155	50	200	0	77.5	50-115	0		
Phenol	51.3	50	200	0	25.6	12-43	0		
Pyrene	160.7	50	200	0	80.4	50-130	0		
Surr: 2,4,6-Tribromophenol	*348.7*	0	*500*	0	*69.7*	*38-115*	0		
Surr: 2-Fluorobiphenyl	*336.7*	0	*500*	0	*67.3*	*32-100*	0		
Surr: 2-Fluorophenol	*190.6*	0	*500*	0	*38.1*	*22-59*	0		
Surr: 4-Terphenyl-d14	*449.5*	0	*500*	0	*89.9*	*23-112*	0		
Surr: Nitrobenzene-d5	*340*	0	*500*	0	*68*	*31-93*	0		
Surr: Phenol-d6	*109.3*	0	*500*	0	*21.9*	*13-36*	0		

MS Sample ID: **1303834-12B MS** Units: **µg/L** Analysis Date: **3/29/2013 12:43 PM**

Client ID: Run ID: **SVMS7_130328A** SeqNo: **2254391** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	128.2	50	200	0	64.1	50-110	0			
2,4,6-Trichlorophenol	126.1	50	200	0	63	50-115	0			
2,4-Dinitrotoluene	147.9	50	200	0	74	50-120	0			
Hexachlorobenzene	142.6	50	200	0	71.3	50-110	0			
Hexachloroethane	137.8	50	200	0	68.9	30-95	0			
Nitrobenzene	137.1	50	200	0	68.6	45-110	0			
Pentachlorophenol	134.3	200	200	0	67.2	40-115	0			J
Surr: 2,4,6-Tribromophenol	*348.7*	0	*500*	0	*69.7*	*21-125*	0			
Surr: 2-Fluorobiphenyl	*336.7*	0	*500*	0	*67.3*	*36-94*	0			
Surr: 2-Fluorophenol	*190.6*	0	*500*	0	*38.1*	*10-75*	0			
Surr: 4-Terphenyl-d14	*449.5*	0	*500*	0	*89.9*	*26-119*	0			
Surr: Nitrobenzene-d5	*340*	0	*500*	0	*68*	*41-104*	0			
Surr: Phenol-d6	*109.3*	0	*500*	0	*21.9*	*11-50*	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

MSD Sample ID: **1303834-12B MSD** Units: **µg/L** Analysis Date: **3/29/2013 01:10 AM**

Client ID: Run ID: **SVMS7_130328A** SeqNo: **2254345** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	127.1	50	200	0	63.6	50-110	128.2	0.862	30	
2,4,6-Trichlorophenol	126	50	200	0	63	50-115	126.1	0.0793	30	
2,4-Dichlorophenol	138.5	100	200	0	69.2	50-105	133.2	3.9	30	
2,4-Dimethylphenol	125.1	50	200	0	62.6	30-110	129.9	3.76	30	
2,4-Dinitrophenol	91.6	50	200	0	45.8	15-140	74.7	20.3	30	
2,4-Dinitrotoluene	146	50	200	0	73	50-120	147.9	1.29	30	
2,6-Dinitrotoluene	143.4	50	200	0	71.7	50-115	146.6	2.21	30	
2-Chloronaphthalene	146.4	50	200	0	73.2	50-105	146.9	0.341	30	
2-Chlorophenol	136.2	50	200	0	68.1	35-105	132.8	2.53	30	
2-Methylnaphthalene	155.3	50	200	0	77.6	45-105	149.7	3.67	30	
2-Methylphenol	110.2	50	200	0	55.1	40-110	109.1	1	30	
2-Nitroaniline	139.5	200	200	0	69.8	50-115	143.2	0	30	J
2-Nitrophenol	138	50	200	0	69	40-115	128.5	7.13	30	
3-Nitroaniline	111.5	200	200	0	55.8	20-125	122	0	30	J
4,6-Dinitro-2-methylphenol	130.4	200	200	0	65.2	40-130	104.2	0	30	J
4-Bromophenyl phenyl ether	150.2	50	200	0	75.1	50-115	146.4	2.56	30	
4-Chloro-3-methylphenol	134.3	50	200	0	67.2	45-110	130.5	2.87	30	
4-Chloroaniline	179.2	200	200	0	89.6	15-110	182.4	0	30	J
4-Chlorophenyl phenyl ether	150.1	50	200	0	75	50-110	150.7	0.399	30	
4-Methylphenol	96.6	50	200	0	48.3	30-110	95.4	1.25	30	
4-Nitroaniline	128.3	200	200	0	64.2	35-150	142.3	0	30	J
4-Nitrophenol	87.4	200	200	0	43.7	1-58	93.9	0	0	J
Acenaphthene	142.8	50	200	0	71.4	45-110	142.1	0.491	30	
Acenaphthylene	150.7	50	200	0	75.4	50-105	152.5	1.19	30	
Anthracene	159.6	50	200	0	79.8	55-110	159.1	0.314	30	
Benzo(a)anthracene	146.5	50	200	0	73.2	55-110	148.8	1.56	30	
Benzo(a)pyrene	144.3	50	200	0	72.2	55-110	144.5	0.139	30	
Benzo(b)fluoranthene	136.3	50	200	0	68.2	45-120	143.6	5.22	30	
Benzo(g,h,i)perylene	139.2	50	200	0	69.6	40-125	137.2	1.45	30	
Benzo(k)fluoranthene	170	50	200	0	85	45-125	165.9	2.44	30	
Bis(2-chloroethoxy)methane	147.5	50	200	0	73.8	45-105	142.5	3.45	30	
Bis(2-chloroethyl)ether	142.3	50	200	0	71.2	35-110	138	3.07	30	
Bis(2-chloroisopropyl)ether	151.2	50	200	0	75.6	25-130	145	4.19	30	
Bis(2-ethylhexyl)phthalate	191.1	50	200	1.78	94.7	40-125	191.2	0.0523	30	
Butyl benzyl phthalate	171.5	50	200	0	85.8	45-115	168.3	1.88	30	
Carbazole	186.5	100	200	0	93.2	50-150	185.3	0.646	30	
Chrysene	154.1	50	200	0	77	55-110	153.5	0.39	30	
Dibenzo(a,h)anthracene	141.6	50	200	0	70.8	40-125	141.3	0.212	30	
Dibenzofuran	144.4	50	200	0	72.2	55-105	145.5	0.759	30	
Diethyl phthalate	158.3	200	200	0	79.2	40-120	163.5	0	30	J
Dimethyl phthalate	150.1	200	200	0	75	25-125	155.9	0	30	J
Di-n-butyl phthalate	183.1	50	200	0	91.6	55-115	181.6	0.823	30	

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

Batch ID: **47243** Instrument ID **SVMS7** Method: **SW8270**

Di-n-octyl phthalate	155	50	200	0	77.5	35-135	156.4	0.899	30	
Fluoranthene	172.1	50	200	0	86	55-115	171	0.641	30	
Fluorene	156.2	50	200	0	78.1	50-110	158.5	1.46	30	
Hexachlorobenzene	145.1	50	200	0	72.6	50-110	142.6	1.74	30	
Hexachlorobutadiene	140.1	50	200	0	70	25-105	131.3	6.48	30	
Hexachlorocyclopentadiene	101.5	200	200	0	50.8	25-105	97.6	0	30	J
Hexachloroethane	144.7	50	200	0	72.4	30-95	137.8	4.88	30	
Indeno(1,2,3-cd)pyrene	140.9	50	200	0	70.4	45-125	140.7	0.142	30	
Isophorone	154.5	50	200	0	77.2	50-110	149.7	3.16	30	
Naphthalene	145.2	50	200	0	72.6	40-100	139.7	3.86	30	
Nitrobenzene	145.1	50	200	0	72.6	45-110	137.1	5.67	30	
N-Nitrosodi-n-propylamine	156.5	50	200	0	78.2	35-130	149.3	4.71	30	
N-Nitrosodiphenylamine	166.9	50	200	0	83.4	50-110	161	3.6	30	
Pentachlorophenol	145.2	200	200	0	72.6	40-115	134.3	0	30	J
Phenanthrene	154.8	50	200	0	77.4	50-115	155	0.129	30	
Phenol	50	50	200	0	25	12-43	51.3	2.57	30	
Pyrene	159.1	50	200	0	79.6	50-130	160.7	1	30	
Surr: 2,4,6-Tribromophenol	*365.2*	0	*500*	0	*73*	*38-115*	348.7	*4.62*	*40*	
Surr: 2-Fluorobiphenyl	*324.1*	0	*500*	0	*64.8*	*32-100*	336.7	*3.81*	*40*	
Surr: 2-Fluorophenol	*188.7*	0	*500*	0	*37.7*	*22-59*	190.6	*1*	*40*	
Surr: 4-Terphenyl-d14	*446.6*	0	*500*	0	*89.3*	*23-112*	449.5	*0.647*	*40*	
Surr: Nitrobenzene-d5	*361.4*	0	*500*	0	*72.3*	*31-93*	340	*6.1*	*40*	
Surr: Phenol-d6	*105.7*	0	*500*	0	*21.1*	*13-36*	109.3	*3.35*	*40*	

MSD Sample ID: **1303834-12B MSD** Units: **µg/L** Analysis Date: **3/29/2013 01:10 AM**

Client ID: Run ID: **SVMS7_130328A** SeqNo: **2254381** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	127.1	50	200	0	63.6	50-110	128.2	0.862	30	
2,4,6-Trichlorophenol	126	50	200	0	63	50-115	126.1	0.0793	30	
2,4-Dinitrotoluene	146	50	200	0	73	50-120	147.9	1.29	30	
Hexachlorobenzene	145.1	50	200	0	72.6	50-110	142.6	1.74	30	
Hexachloroethane	144.7	50	200	0	72.4	30-95	137.8	4.88	30	
Nitrobenzene	145.1	50	200	0	72.6	45-110	137.1	5.67	30	
Pentachlorophenol	145.2	200	200	0	72.6	40-115	134.3	0	30	J
Surr: 2,4,6-Tribromophenol	*365.2*	0	*500*	0	*73*	*21-125*	348.7	*4.62*	*0*	
Surr: 2-Fluorobiphenyl	*324.1*	0	*500*	0	*64.8*	*36-94*	336.7	*3.81*	*0*	
Surr: 2-Fluorophenol	*188.7*	0	*500*	0	*37.7*	*10-75*	190.6	*1*	*0*	
Surr: 4-Terphenyl-d14	*446.6*	0	*500*	0	*89.3*	*26-119*	449.5	*0.647*	*0*	
Surr: Nitrobenzene-d5	*361.4*	0	*500*	0	*72.3*	*41-104*	340	*6.1*	*0*	
Surr: Phenol-d6	*105.7*	0	*500*	0	*21.1*	*11-50*	109.3	*3.35*	*0*	

The following samples were analyzed in this batch: 1303837-01B

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47247** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: **DBLKW1-47247-47247** Units: **mg/L** Analysis Date: **4/1/2013 01:28 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258488** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	U	0.10								
ORO (C21-C35)	U	0.10								
Surr: 4-Terphenyl-d14	*0.04113*	0	*0.05*	0	*82.3*	*23-112*	0			

LCS Sample ID: **DLCSW1-47247-47247** Units: **mg/L** Analysis Date: **4/1/2013 02:57 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258492** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	3.31	0.10	5	0	66.2	44-116	0			
ORO (C21-C35)	3.794	0.10	5	0	75.9	44-116	0			
Surr: 4-Terphenyl-d14	*0.04072*	0	*0.05*	0	*81.4*	*23-112*	0			

MS Sample ID: **1303834-11B MS** Units: **mg/L** Analysis Date: **4/1/2013 07:07 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258499** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	28.46	1.0	50	0	56.9	44-116	0			
ORO (C21-C35)	31.18	1.0	50	0	62.4	44-116	0			
Surr: 4-Terphenyl-d14	*0.2788*	0	*0.5*	0	*55.8*	*23-112*	0			

MSD Sample ID: **1303834-11B MSD** Units: **mg/L** Analysis Date: **4/1/2013 07:37 AM**
Client ID: Run ID: **SVMS6_130331A** SeqNo: **2258501** Prep Date: **3/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C21)	28.92	1.0	50	0	57.8	44-116	28.46	1.61	30	
ORO (C21-C35)	32.02	1.0	50	0	64	44-116	31.18	2.64	30	
Surr: 4-Terphenyl-d14	*0.3472*	0	*0.5*	0	*69.4*	*23-112*	0.2788	*21.9*	*30*	

The following samples were analyzed in this batch: 1303837-01B

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **MBLK-47249-47249** Units: **µg/Kg** Analysis Date: **3/27/2013 01:58 PM**
Client ID: Run ID: **VMS5_130327A** SeqNo: **2251782** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

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

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
Surr: 1,2-Dichloroethane-d4	*983.5*	0	*1000*	0	*98.4*	*70-130*	0
Surr: 4-Bromofluorobenzene	*990*	0	*1000*	0	*99*	*70-130*	0
Surr: Dibromofluoromethane	*960*	0	*1000*	0	*96*	*70-130*	0
Surr: Toluene-d8	*958*	0	*1000*	0	*95.8*	*70-130*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **MBLK-47249-47249** Units: **µg/Kg** Analysis Date: **3/27/2013 06:16 PM**
Client ID: Run ID: **VMS9_130327A** SeqNo: **2252497** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

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

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
Surr: 1,2-Dichloroethane-d4	*1028*	0	*1000*	0	*103*	*70-130*	0
Surr: 4-Bromofluorobenzene	*861.5*	0	*1000*	0	*86.2*	*70-130*	0
Surr: Dibromofluoromethane	*980.5*	0	*1000*	0	*98*	*70-130*	0
Surr: Toluene-d8	*953*	0	*1000*	0	*95.3*	*70-130*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **MBLK-47249-47249** Units: **µg/Kg** Analysis Date: **3/28/2013 02:23 AM**
Client ID: Run ID: **VMS5_130327B** SeqNo: **2253073** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

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

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
Surr: 1,2-Dichloroethane-d4	*995*	0	*1000*	0	*99.5*	*70-130*	0
Surr: 4-Bromofluorobenzene	*988.5*	0	*1000*	0	*98.8*	*70-130*	0
Surr: Dibromofluoromethane	*973.5*	0	*1000*	0	*97.4*	*70-130*	0
Surr: Toluene-d8	*951*	0	*1000*	0	*95.1*	*70-130*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **MBLK-47249-47249** Units: **µg/Kg** Analysis Date: **3/28/2013 02:23 AM**
Client ID: Run ID: **VMS5_130327B** SeqNo: **2253077** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

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

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
Surr: 1,2-Dichloroethane-d4	*897*	0	*1000*	0	*89.7*	*70-130*	0
Surr: 4-Bromofluorobenzene	*941*	0	*1000*	0	*94.1*	*70-130*	0
Surr: Dibromofluoromethane	*879*	0	*1000*	0	*87.9*	*70-130*	0
Surr: Toluene-d8	*893.5*	0	*1000*	0	*89.4*	*70-130*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **MBLK-47249-47249** Units: **µg/Kg** Analysis Date: **3/28/2013 10:31 AM**
Client ID: Run ID: **VMS6_130328A** SeqNo: **2253530** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30	0	0	0	0-0	0			
1,1,2,2-Tetrachloroethane	U	30	0	0	0	0-0	0			
1,1,2-Trichloroethane	U	30	0	0	0	0-0	0			
1,1,2-Trichlorotrifluoroethane	U	30	0	0	0		0			
1,1-Dichloroethane	U	30	0	0	0	0-0	0			
1,1-Dichloroethene	U	30	0	0	0	0-0	0			
1,2,4-Trichlorobenzene	U	30	0	0	0	0-0	0			
1,2-Dibromo-3-chloropropane	U	30	0	0	0	0-0	0			
1,2-Dibromoethane	U	30	0	0	0	0-0	0			
1,2-Dichlorobenzene	U	30	0	0	0	0-0	0			
1,2-Dichloroethane	U	30	0	0	0	0-0	0			
1,2-Dichloropropane	U	30	0	0	0	0-0	0			
1,3-Dichlorobenzene	U	30	0	0	0	0-0	0			
1,4-Dichlorobenzene	U	30	0	0	0	0-0	0			
2-Butanone	U	200	0	0	0	0-0	0			
2-Hexanone	U	30	0	0	0	0-0	0			
4-Methyl-2-pentanone	U	30	0	0	0	0-0	0			
Acetone	U	100	0	0	0	0-0	0			
Benzene	U	30	0	0	0	0-0	0			
Bromodichloromethane	U	30	0	0	0	0-0	0			
Bromoform	U	30	0	0	0	0-0	0			
Bromomethane	U	75	0	0	0	0-0	0			
Carbon disulfide	U	30	0	0	0	0-0	0			
Carbon tetrachloride	U	30	0	0	0	0-0	0			
Chlorobenzene	U	30	0	0	0	0-0	0			
Chloroethane	U	100	0	0	0	0-0	0			
Chloroform	U	30	0	0	0	0-0	0			
Chloromethane	U	100	0	0	0	0-0	0			
cis-1,2-Dichloroethene	U	30	0	0	0	0-0	0			
cis-1,3-Dichloropropene	U	30	0	0	0	0-0	0			
Cyclohexane	U	30	0	0	0		0			
Dibromochloromethane	U	30	0	0	0	0-0	0			
Dichlorodifluoromethane	U	30	0	0	0	0-0	0			
Ethylbenzene	U	30	0	0	0	0-0	0			
GRO (C6-C10)	U	2,500	0	0	0		0			
Isopropylbenzene	U	30	0	0	0	0-0	0			
m,p-Xylene	U	60	0	0	0	0-0	0			
Methyl acetate	U	200	0	0	0		0			
Methyl tert-butyl ether	U	30	0	0	0	0-0	0			
Methylcyclohexane	U	30	0	0	0		0			
Methylene chloride	U	30	0	0	0	0-0	0			
o-Xylene	U	30	0	0	0	0-0	0			

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

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

Styrene	U	30	0	0	0	0-0	0
Tetrachloroethene	U	30	0	0	0	0-0	0
Toluene	U	30	0	0	0	0-0	0
trans-1,2-Dichloroethene	U	30	0	0	0	0-0	0
trans-1,3-Dichloropropene	U	30	0	0	0	0-0	0
Trichloroethene	U	30	0	0	0	0-0	0
Trichlorofluoromethane	U	30	0	0	0	0-0	0
Vinyl chloride	U	30	0	0	0	0-0	0
Xylenes, Total	U	90	0	0	0	0-0	0
Surr: 1,2-Dichloroethane-d4	*956.5*	0	*1000*	0	*95.6*	*70-130*	0
Surr: 4-Bromofluorobenzene	*946*	0	*1000*	0	*94.6*	*70-130*	0
Surr: Dibromofluoromethane	*943*	0	*1000*	0	*94.3*	*70-130*	0
Surr: Toluene-d8	*942.5*	0	*1000*	0	*94.2*	*70-130*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **MBLK-47249-47249** Units: **µg/Kg** Analysis Date: **3/29/2013 11:01 AM**
Client ID: Run ID: **VMS6_130329A** SeqNo: **2255694** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
GRO (C6-C10)	U	2,500								
Isopropylbenzene	U	30								
m,p-Xylene	U	60								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
o-Xylene	U	30								

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

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

Styrene	U	30					
Tetrachloroethene	U	30					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
Surr: 1,2-Dichloroethane-d4	*941*	0	*1000*	0	*94.1*	*70-130*	0
Surr: 4-Bromofluorobenzene	*936.5*	0	*1000*	0	*93.6*	*70-130*	0
Surr: Dibromofluoromethane	*942.5*	0	*1000*	0	*94.2*	*70-130*	0
Surr: Toluene-d8	*943*	0	*1000*	0	*94.3*	*70-130*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

LCS Sample ID: **LCS-47249-47249** Units: **µg/Kg** Analysis Date: **3/27/2013 12:48 PM**
Client ID: Run ID: **VMS5_130327A** SeqNo: **2251781** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1031	30	1000	0	103	70-135	0			
1,1,2,2-Tetrachloroethane	924.5	30	1000	0	92.4	55-130	0			
1,1,2-Trichloroethane	937	30	1000	0	93.7	60-125	0			
1,1-Dichloroethane	1047	30	1000	0	105	75-125	0			
1,1-Dichloroethene	1090	30	1000	0	109	65-135	0			
1,2,4-Trichlorobenzene	1070	30	1000	0	107	65-130	0			
1,2-Dibromo-3-chloropropane	956	30	1000	0	95.6	40-135	0			
1,2-Dibromoethane	985	30	1000	0	98.5	70-125	0			
1,2-Dichlorobenzene	977.5	30	1000	0	97.8	75-120	0			
1,2-Dichloroethane	975	30	1000	0	97.5	70-135	0			
1,2-Dichloropropane	1060	30	1000	0	106	70-120	0			
1,3-Dichlorobenzene	982.5	30	1000	0	98.2	70-125	0			
1,4-Dichlorobenzene	971	30	1000	0	97.1	70-125	0			
2-Butanone	1041	200	1000	0	104	30-160	0			
2-Hexanone	937.5	30	1000	0	93.8	45-145	0			
4-Methyl-2-pentanone	1358	30	1000	0	136	45-145	0			
Acetone	1170	100	1000	0	117	20-160	0			
Benzene	1011	30	1000	0	101	75-125	0			
Bromodichloromethane	969	30	1000	0	96.9	70-130	0			
Bromoform	948.5	30	1000	0	94.8	55-135	0			
Bromomethane	1313	75	1000	0	131	30-160	0			
Carbon disulfide	1122	30	1000	0	112	45-160	0			
Carbon tetrachloride	1050	30	1000	0	105	65-135	0			
Chlorobenzene	1010	30	1000	0	101	75-125	0			
Chloroethane	1106	100	1000	0	111	40-155	0			
Chloroform	1023	30	1000	0	102	70-125	0			
Chloromethane	1028	100	1000	0	103	50-130	0			
cis-1,2-Dichloroethene	1042	30	1000	0	104	65-125	0			
cis-1,3-Dichloropropene	1048	30	1000	0	105	70-125	0			
Dibromochloromethane	958.5	30	1000	0	95.8	65-135	0			
Dichlorodifluoromethane	925	30	1000	0	92.5	35-135	0			
Ethylbenzene	979.5	30	1000	0	98	75-125	0			
Isopropylbenzene	1006	30	1000	0	101	75-130	0			
m,p-Xylene	1968	60	2000	0	98.4	80-125	0			
Methyl tert-butyl ether	1064	30	1000	0	106	75-125	0			
Methylene chloride	968	30	1000	0	96.8	55-145	0			
o-Xylene	997.5	30	1000	0	99.8	75-125	0			
Styrene	1006	30	1000	0	101	75-125	0			
Tetrachloroethene	1004	30	1000	0	100	64-140	0			
Toluene	996.5	30	1000	0	99.6	70-125	0			
trans-1,2-Dichloroethene	1074	30	1000	0	107	65-135	0			
trans-1,3-Dichloropropene	1045	30	1000	0	104	65-125	0			

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

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	965.5	30	1000	0	96.6	75-125	0
Trichlorofluoromethane	1084	30	1000	0	108	25-185	0
Vinyl chloride	1132	30	1000	0	113	60-125	0
Xylenes, Total	2965	90	3000	0	98.8	75-125	0
Surr: 1,2-Dichloroethane-d4	*952.5*	0	*1000*	0	*95.2*	*70-130*	0
Surr: 4-Bromofluorobenzene	*996*	0	*1000*	0	*99.6*	*70-130*	0
Surr: Dibromofluoromethane	*979*	0	*1000*	0	*97.9*	*70-130*	0
Surr: Toluene-d8	*973*	0	*1000*	0	*97.3*	*70-130*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

LCS	Sample ID: **LCS-47249-47249**				Units: **µg/Kg**		Analysis Date: **3/27/2013 05:00 PM**			
Client ID:		Run ID: **VMS9_130327A**			SeqNo: **2252496**		Prep Date: **3/27/2013**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	993.5	30	1000	0	99.4	70-135	0			
1,1,2,2-Tetrachloroethane	939	30	1000	0	93.9	55-130	0			
1,1,2-Trichloroethane	901	30	1000	0	90.1	60-125	0			
1,1-Dichloroethane	925	30	1000	0	92.5	75-125	0			
1,1-Dichloroethene	1010	30	1000	0	101	65-135	0			
1,2,4-Trichlorobenzene	935.5	30	1000	0	93.6	65-130	0			
1,2-Dibromo-3-chloropropane	816	30	1000	0	81.6	40-135	0			
1,2-Dibromoethane	925.5	30	1000	0	92.6	70-125	0			
1,2-Dichlorobenzene	962.5	30	1000	0	96.2	75-120	0			
1,2-Dichloroethane	905.5	30	1000	0	90.6	70-135	0			
1,2-Dichloropropane	934.5	30	1000	0	93.4	70-120	0			
1,3-Dichlorobenzene	950.5	30	1000	0	95	70-125	0			
1,4-Dichlorobenzene	964.5	30	1000	0	96.4	70-125	0			
2-Butanone	843.5	200	1000	0	84.4	30-160	0			
2-Hexanone	946.5	30	1000	0	94.6	45-145	0			
4-Methyl-2-pentanone	1101	30	1000	0	110	45-145	0			
Acetone	1072	100	1000	0	107	20-160	0			
Benzene	897	30	1000	0	89.7	75-125	0			
Bromodichloromethane	916	30	1000	0	91.6	70-130	0			
Bromoform	914.5	30	1000	0	91.4	55-135	0			
Bromomethane	1241	75	1000	0	124	30-160	0			
Carbon disulfide	993.5	30	1000	0	99.4	45-160	0			
Carbon tetrachloride	986	30	1000	0	98.6	65-135	0			
Chlorobenzene	967	30	1000	0	96.7	75-125	0			
Chloroethane	984.5	100	1000	0	98.4	40-155	0			
Chloroform	912	30	1000	0	91.2	70-125	0			
Chloromethane	1120	100	1000	0	112	50-130	0			
cis-1,2-Dichloroethene	943.5	30	1000	0	94.4	65-125	0			
cis-1,3-Dichloropropene	940	30	1000	0	94	70-125	0			
Dibromochloromethane	891.5	30	1000	0	89.2	65-135	0			
Dichlorodifluoromethane	1050	30	1000	0	105	35-135	0			
Ethylbenzene	1016	30	1000	0	102	75-125	0			
Isopropylbenzene	1104	30	1000	0	110	75-130	0			
m,p-Xylene	2078	60	2000	0	104	80-125	0			
Methyl tert-butyl ether	1024	30	1000	0	102	75-125	0			
Methylene chloride	1027	30	1000	0	103	55-145	0			
o-Xylene	1034	30	1000	0	103	75-125	0			
Styrene	1077	30	1000	0	108	75-125	0			
Tetrachloroethene	1350	30	1000	0	135	64-140	0			
Toluene	879	30	1000	0	87.9	70-125	0			
trans-1,2-Dichloroethene	965	30	1000	0	96.5	65-135	0			
trans-1,3-Dichloropropene	912.5	30	1000	0	91.2	65-125	0			

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

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	891	30	1000	0	89.1	75-125	0
Trichlorofluoromethane	1038	30	1000	0	104	25-185	0
Vinyl chloride	1004	30	1000	0	100	60-125	0
Xylenes, Total	3112	90	3000	0	104	75-125	0
Surr: 1,2-Dichloroethane-d4	*955*	0	*1000*	0	*95.5*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1045*	0	*1000*	0	*104*	*70-130*	0
Surr: Dibromofluoromethane	*971*	0	*1000*	0	*97.1*	*70-130*	0
Surr: Toluene-d8	*995.5*	0	*1000*	0	*99.6*	*70-130*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

LCS Sample ID: **LCS-47249-47249** Units: **µg/Kg** Analysis Date: **3/28/2013 01:13 AM**
Client ID: Run ID: **VMS5_130327B** SeqNo: **2253072** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1011	30	1000	0	101	70-135	0			
1,1,2,2-Tetrachloroethane	940.5	30	1000	0	94	55-130	0			
1,1,2-Trichloroethane	909	30	1000	0	90.9	60-125	0			
1,1-Dichloroethane	1044	30	1000	0	104	75-125	0			
1,1-Dichloroethene	1056	30	1000	0	106	65-135	0			
1,2,4-Trichlorobenzene	958.5	30	1000	0	95.8	65-130	0			
1,2-Dibromo-3-chloropropane	912	30	1000	0	91.2	40-135	0			
1,2-Dibromoethane	975.5	30	1000	0	97.6	70-125	0			
1,2-Dichlorobenzene	970	30	1000	0	97	75-120	0			
1,2-Dichloroethane	980	30	1000	0	98	70-135	0			
1,2-Dichloropropane	1060	30	1000	0	106	70-120	0			
1,3-Dichlorobenzene	987	30	1000	0	98.7	70-125	0			
1,4-Dichlorobenzene	956.5	30	1000	0	95.6	70-125	0			
2-Butanone	1027	200	1000	0	103	30-160	0			
2-Hexanone	1014	30	1000	0	101	45-145	0			
4-Methyl-2-pentanone	1392	30	1000	0	139	45-145	0			
Acetone	1060	100	1000	0	106	20-160	0			
Benzene	1024	30	1000	0	102	75-125	0			
Bromodichloromethane	1020	30	1000	0	102	70-130	0			
Bromoform	967	30	1000	0	96.7	55-135	0			
Bromomethane	1348	75	1000	0	135	30-160	0			
Carbon disulfide	1062	30	1000	0	106	45-160	0			
Carbon tetrachloride	1020	30	1000	0	102	65-135	0			
Chlorobenzene	1019	30	1000	0	102	75-125	0			
Chloroethane	1096	100	1000	0	110	40-155	0			
Chloroform	1016	30	1000	0	102	70-125	0			
Chloromethane	1010	100	1000	0	101	50-130	0			
cis-1,2-Dichloroethene	1030	30	1000	0	103	65-125	0			
cis-1,3-Dichloropropene	1044	30	1000	0	104	70-125	0			
Dibromochloromethane	950.5	30	1000	0	95	65-135	0			
Dichlorodifluoromethane	829.5	30	1000	0	83	35-135	0			
Ethylbenzene	997.5	30	1000	0	99.8	75-125	0			
Isopropylbenzene	1014	30	1000	0	101	75-130	0			
m,p-Xylene	2000	60	2000	0	100	80-125	0			
Methyl tert-butyl ether	1176	30	1000	0	118	75-125	0			
Methylene chloride	955.5	30	1000	0	95.6	55-145	0			
o-Xylene	1012	30	1000	0	101	75-125	0			
Styrene	1032	30	1000	0	103	75-125	0			
Tetrachloroethene	997	30	1000	0	99.7	64-140	0			
Toluene	998.5	30	1000	0	99.8	70-125	0			
trans-1,2-Dichloroethene	1068	30	1000	0	107	65-135	0			
trans-1,3-Dichloropropene	1028	30	1000	0	103	65-125	0			

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

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	972.5	30	1000	0	97.2	75-125	0
Trichlorofluoromethane	1062	30	1000	0	106	25-185	0
Vinyl chloride	1112	30	1000	0	111	60-125	0
Xylenes, Total	3012	90	3000	0	100	75-125	0
Surr: 1,2-Dichloroethane-d4	*952.5*	0	*1000*	0	*95.2*	*70-130*	0
Surr: 4-Bromofluorobenzene	*1008*	0	*1000*	0	*101*	*70-130*	0
Surr: Dibromofluoromethane	*982*	0	*1000*	0	*98.2*	*70-130*	0
Surr: Toluene-d8	*960*	0	*1000*	0	*96*	*70-130*	0

LCS Sample ID: **LCS-47249-47249** Units: **µg/Kg** Analysis Date: **3/28/2013 01:37 AM**

Client ID: Run ID: **VMS5_130327B** SeqNo: **2253076** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	18280	2,500	25000	0	73.1	30-130	0			
Surr: 1,2-Dichloroethane-d4	*864*	0	*1000*	0	*86.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*951.5*	0	*1000*	0	*95.2*	*70-130*	0			
Surr: Dibromofluoromethane	*857.5*	0	*1000*	0	*85.8*	*70-130*	0			
Surr: Toluene-d8	*887.5*	0	*1000*	0	*88.8*	*70-130*	0			

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

LCS Sample ID: **LCS-47249-47249** Units: **µg/Kg** Analysis Date: **3/28/2013 09:18 AM**
Client ID: Run ID: **VMS6_130328A** SeqNo: **2253529** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	960.5	30	1000	0	96	70-135	0			
1,1,2,2-Tetrachloroethane	813.5	30	1000	0	81.4	55-130	0			
1,1,2-Trichloroethane	808.5	30	1000	0	80.8	60-125	0			
1,1-Dichloroethane	839	30	1000	0	83.9	75-125	0			
1,1-Dichloroethene	965.5	30	1000	0	96.6	65-135	0			
1,2,4-Trichlorobenzene	923.5	30	1000	0	92.4	65-130	0			
1,2-Dibromo-3-chloropropane	750.5	30	1000	0	75	40-135	0			
1,2-Dibromoethane	881	30	1000	0	88.1	70-125	0			
1,2-Dichlorobenzene	890.5	30	1000	0	89	75-120	0			
1,2-Dichloroethane	909.5	30	1000	0	91	70-135	0			
1,2-Dichloropropane	789.5	30	1000	0	79	70-120	0			
1,3-Dichlorobenzene	867.5	30	1000	0	86.8	70-125	0			
1,4-Dichlorobenzene	885	30	1000	0	88.5	70-125	0			
2-Butanone	946	200	1000	0	94.6	30-160	0			
2-Hexanone	917.5	30	1000	0	91.8	45-145	0			
4-Methyl-2-pentanone	1153	30	1000	0	115	45-145	0			
Acetone	802.5	100	1000	0	80.2	20-160	0			
Benzene	945	30	1000	0	94.5	75-125	0			
Bromodichloromethane	834.5	30	1000	0	83.4	70-130	0			
Bromoform	776	30	1000	0	77.6	55-135	0			
Bromomethane	1538	75	1000	0	154	30-160	0			
Carbon disulfide	992	30	1000	0	99.2	45-160	0			
Carbon tetrachloride	1008	30	1000	0	101	65-135	0			
Chlorobenzene	902	30	1000	0	90.2	75-125	0			
Chloroethane	916.5	100	1000	0	91.6	40-155	0			
Chloroform	842	30	1000	0	84.2	70-125	0			
Chloromethane	907	100	1000	0	90.7	50-130	0			
cis-1,2-Dichloroethene	849	30	1000	0	84.9	65-125	0			
cis-1,3-Dichloropropene	843.5	30	1000	0	84.4	70-125	0			
Dibromochloromethane	810	30	1000	0	81	65-135	0			
Dichlorodifluoromethane	1037	30	1000	0	104	35-135	0			
Ethylbenzene	909.5	30	1000	0	91	75-125	0			
Isopropylbenzene	931.5	30	1000	0	93.2	75-130	0			
m,p-Xylene	1800	60	2000	0	90	80-125	0			
Methyl tert-butyl ether	932	30	1000	0	93.2	75-125	0			
Methylene chloride	904.5	30	1000	0	90.4	55-145	0			
o-Xylene	890	30	1000	0	89	75-125	0			
Styrene	897	30	1000	0	89.7	75-125	0			
Tetrachloroethene	986	30	1000	0	98.6	64-140	0			
Toluene	902.5	30	1000	0	90.2	70-125	0			
trans-1,2-Dichloroethene	911	30	1000	0	91.1	65-135	0			
trans-1,3-Dichloropropene	839	30	1000	0	83.9	65-125	0			

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

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	913.5	30	1000	0	91.4	75-125	0
Trichlorofluoromethane	1076	30	1000	0	108	25-185	0
Vinyl chloride	981.5	30	1000	0	98.2	60-125	0
Xylenes, Total	2690	90	3000	0	89.7	75-125	0
Surr: 1,2-Dichloroethane-d4	*936*	0	*1000*	0	*93.6*	*70-130*	0
Surr: 4-Bromofluorobenzene	*968.5*	0	*1000*	0	*96.8*	*70-130*	0
Surr: Dibromofluoromethane	*971.5*	0	*1000*	0	*97.2*	*70-130*	0
Surr: Toluene-d8	*950.5*	0	*1000*	0	*95*	*70-130*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

LCS Sample ID: **LCS-47249-47249** Units: **µg/Kg** Analysis Date: **3/29/2013 09:48 AM**
Client ID: Run ID: **VMS6_130329A** SeqNo: **2255693** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1026	30	1000	0	103	70-135	0			
1,1,2,2-Tetrachloroethane	852.5	30	1000	0	85.2	55-130	0			
1,1,2-Trichloroethane	844	30	1000	0	84.4	60-125	0			
1,1-Dichloroethane	896.5	30	1000	0	89.6	75-125	0			
1,1-Dichloroethene	1051	30	1000	0	105	65-135	0			
1,2,4-Trichlorobenzene	982	30	1000	0	98.2	65-130	0			
1,2-Dibromo-3-chloropropane	753	30	1000	0	75.3	40-135	0			
1,2-Dibromoethane	947.5	30	1000	0	94.8	70-125	0			
1,2-Dichlorobenzene	953	30	1000	0	95.3	75-120	0			
1,2-Dichloroethane	967	30	1000	0	96.7	70-135	0			
1,2-Dichloropropane	849	30	1000	0	84.9	70-120	0			
1,3-Dichlorobenzene	943.5	30	1000	0	94.4	70-125	0			
1,4-Dichlorobenzene	961.5	30	1000	0	96.2	70-125	0			
2-Butanone	981	200	1000	0	98.1	30-160	0			
2-Hexanone	947.5	30	1000	0	94.8	45-145	0			
4-Methyl-2-pentanone	1209	30	1000	0	121	45-145	0			
Acetone	841.5	100	1000	0	84.2	20-160	0			
Benzene	1018	30	1000	0	102	75-125	0			
Bromodichloromethane	878.5	30	1000	0	87.8	70-130	0			
Bromoform	853	30	1000	0	85.3	55-135	0			
Bromomethane	1345	75	1000	0	134	30-160	0			
Carbon disulfide	1074	30	1000	0	107	45-160	0			
Carbon tetrachloride	1090	30	1000	0	109	65-135	0			
Chlorobenzene	972.5	30	1000	0	97.2	75-125	0			
Chloroethane	957	100	1000	0	95.7	40-155	0			
Chloroform	920	30	1000	0	92	70-125	0			
Chloromethane	920.5	100	1000	0	92	50-130	0			
cis-1,2-Dichloroethene	906	30	1000	0	90.6	65-125	0			
cis-1,3-Dichloropropene	907.5	30	1000	0	90.8	70-125	0			
Dibromochloromethane	866.5	30	1000	0	86.6	65-135	0			
Dichlorodifluoromethane	1103	30	1000	0	110	35-135	0			
Ethylbenzene	976.5	30	1000	0	97.6	75-125	0			
Isopropylbenzene	1006	30	1000	0	101	75-130	0			
m,p-Xylene	1941	60	2000	0	97	80-125	0			
Methyl tert-butyl ether	1026	30	1000	0	103	75-125	0			
Methylene chloride	1004	30	1000	0	100	55-145	0			
o-Xylene	951.5	30	1000	0	95.2	75-125	0			
Styrene	969.5	30	1000	0	97	75-125	0			
Tetrachloroethene	1060	30	1000	0	106	64-140	0			
Toluene	972	30	1000	0	97.2	70-125	0			
trans-1,2-Dichloroethene	960	30	1000	0	96	65-135	0			
trans-1,3-Dichloropropene	895	30	1000	0	89.5	65-125	0			

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

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	999	30	1000	0	99.9	75-125	0
Trichlorofluoromethane	1147	30	1000	0	115	25-185	0
Vinyl chloride	1052	30	1000	0	105	60-125	0
Xylenes, Total	2892	90	3000	0	96.4	75-125	0
Surr: 1,2-Dichloroethane-d4	*917*	0	*1000*	0	*91.7*	*70-130*	0
Surr: 4-Bromofluorobenzene	*966*	0	*1000*	0	*96.6*	*70-130*	0
Surr: Dibromofluoromethane	*963*	0	*1000*	0	*96.3*	*70-130*	0
Surr: Toluene-d8	*956.5*	0	*1000*	0	*95.6*	*70-130*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

MS Sample ID: **1303875-01A MS** Units: **µg/Kg** Analysis Date: **3/28/2013 02:24 AM**
Client ID: Run ID: **VMS9_130327A** SeqNo: **2252528** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	944	30	1000	0	94.4	70-135	0			
1,1,2,2-Tetrachloroethane	949.5	30	1000	0	95	55-130	0			
1,1,2-Trichloroethane	839.5	30	1000	0	84	60-125	0			
1,1-Dichloroethane	893	30	1000	0	89.3	75-125	0			
1,1-Dichloroethene	843.5	30	1000	0	84.4	65-135	0			
1,2,4-Trichlorobenzene	767	30	1000	0	76.7	65-130	0			
1,2-Dibromo-3-chloropropane	769	30	1000	0	76.9	40-135	0			
1,2-Dibromoethane	886.5	30	1000	0	88.6	70-125	0			
1,2-Dichlorobenzene	865	30	1000	0	86.5	75-120	0			
1,2-Dichloroethane	875	30	1000	0	87.5	70-135	0			
1,2-Dichloropropane	898	30	1000	0	89.8	70-120	0			
1,3-Dichlorobenzene	859	30	1000	0	85.9	70-125	0			
1,4-Dichlorobenzene	872.5	30	1000	0	87.2	70-125	0			
2-Butanone	866	200	1000	0	86.6	30-160	0			
2-Hexanone	1014	30	1000	0	101	45-145	0			
4-Methyl-2-pentanone	1200	30	1000	0	120	45-145	0			
Acetone	1082	100	1000	0	108	20-160	0			
Benzene	845	30	1000	0	84.5	75-125	0			
Bromodichloromethane	854	30	1000	0	85.4	70-130	0			
Bromoform	812	30	1000	0	81.2	55-135	0			
Bromomethane	942	75	1000	0	94.2	30-160	0			
Carbon disulfide	782	30	1000	0	78.2	45-160	0			
Carbon tetrachloride	989	30	1000	0	98.9	65-135	0			
Chlorobenzene	893	30	1000	0	89.3	75-125	0			
Chloroethane	647.5	100	1000	0	64.8	40-155	0			
Chloroform	878	30	1000	0	87.8	70-125	0			
Chloromethane	1272	100	1000	0	127	50-130	0			
cis-1,2-Dichloroethene	932	30	1000	0	93.2	65-125	0			
cis-1,3-Dichloropropene	848.5	30	1000	0	84.8	70-125	0			
Dibromochloromethane	812	30	1000	0	81.2	65-135	0			
Dichlorodifluoromethane	631	30	1000	0	63.1	35-135	0			
Ethylbenzene	911.5	30	1000	0	91.2	75-125	0			
Isopropylbenzene	1029	30	1000	0	103	75-130	0			
m,p-Xylene	1900	60	2000	54.5	92.2	80-125	0			
Methyl tert-butyl ether	998	30	1000	0	99.8	75-125	0			
Methylene chloride	984.5	30	1000	0	98.4	55-145	0			
o-Xylene	939	30	1000	0	93.9	75-125	0			
Styrene	1047	30	1000	0	105	75-125	0			
Tetrachloroethene	1146	30	1000	0	115	64-140	0			
Toluene	782	30	1000	42.5	74	70-125	0			
trans-1,2-Dichloroethene	868	30	1000	0	86.8	65-135	0			
trans-1,3-Dichloropropene	793	30	1000	0	79.3	65-125	0			

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

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	836.5	30	1000	0	83.6	75-125	0	
Trichlorofluoromethane	956	30	1000	0	95.6	25-185	0	
Vinyl chloride	559	30	1000	0	55.9	60-125	0	S
Xylenes, Total	2838	90	3000	54.5	92.8	75-125	0	
Surr: 1,2-Dichloroethane-d4	*998.5*	0	*1000*	0	*99.8*	*70-130*	0	
Surr: 4-Bromofluorobenzene	*1124*	0	*1000*	0	*112*	*70-130*	0	
Surr: Dibromofluoromethane	*993.5*	0	*1000*	0	*99.4*	*70-130*	0	
Surr: Toluene-d8	*933.5*	0	*1000*	0	*93.4*	*70-130*	0	

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249** Instrument ID **VMS5** Method: **SW8260**

MSD Sample ID: **1303875-01A MSD** Units: **µg/Kg** Analysis Date: **3/28/2013 02:50 AM**

Client ID: Run ID: **VMS9_130327A** SeqNo: **2252529** Prep Date: **3/27/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	925.5	30	1000	0	92.6	70-135	944	1.98	30	
1,1,2,2-Tetrachloroethane	989	30	1000	0	98.9	55-130	949.5	4.08	30	
1,1,2-Trichloroethane	843.5	30	1000	0	84.4	60-125	839.5	0.475	30	
1,1-Dichloroethane	851	30	1000	0	85.1	75-125	893	4.82	30	
1,1-Dichloroethene	840.5	30	1000	0	84	65-135	843.5	0.356	30	
1,2,4-Trichlorobenzene	787	30	1000	0	78.7	65-130	767	2.57	30	
1,2-Dibromo-3-chloropropane	745	30	1000	0	74.5	40-135	769	3.17	30	
1,2-Dibromoethane	878	30	1000	0	87.8	70-125	886.5	0.963	30	
1,2-Dichlorobenzene	849	30	1000	0	84.9	75-120	865	1.87	30	
1,2-Dichloroethane	867	30	1000	0	86.7	70-135	875	0.918	30	
1,2-Dichloropropane	877	30	1000	0	87.7	70-120	898	2.37	30	
1,3-Dichlorobenzene	856	30	1000	0	85.6	70-125	859	0.35	30	
1,4-Dichlorobenzene	856	30	1000	0	85.6	70-125	872.5	1.91	30	
2-Butanone	900	200	1000	0	90	30-160	866	3.85	30	
2-Hexanone	1008	30	1000	0	101	45-145	1014	0.593	30	
4-Methyl-2-pentanone	1195	30	1000	0	120	45-145	1200	0.459	30	
Acetone	1044	100	1000	0	104	20-160	1082	3.57	30	
Benzene	827	30	1000	0	82.7	75-125	845	2.15	30	
Bromodichloromethane	826	30	1000	0	82.6	70-130	854	3.33	30	
Bromoform	787.5	30	1000	0	78.8	55-135	812	3.06	30	
Bromomethane	942	75	1000	0	94.2	30-160	942	0	30	
Carbon disulfide	746.5	30	1000	0	74.6	45-160	782	4.65	30	
Carbon tetrachloride	915.5	30	1000	0	91.6	65-135	989	7.72	30	
Chlorobenzene	876	30	1000	0	87.6	75-125	893	1.92	30	
Chloroethane	664.5	100	1000	0	66.4	40-155	647.5	2.59	30	
Chloroform	835	30	1000	0	83.5	70-125	878	5.02	30	
Chloromethane	1216	100	1000	0	122	50-130	1272	4.46	30	
cis-1,2-Dichloroethene	821	30	1000	0	82.1	65-125	932	12.7	30	
cis-1,3-Dichloropropene	846.5	30	1000	0	84.6	70-125	848.5	0.236	30	
Dibromochloromethane	792.5	30	1000	0	79.2	65-135	812	2.43	30	
Dichlorodifluoromethane	648	30	1000	0	64.8	35-135	631	2.66	30	
Ethylbenzene	895	30	1000	0	89.5	75-125	911.5	1.83	30	
Isopropylbenzene	1032	30	1000	0	103	75-130	1029	0.34	30	
m,p-Xylene	1887	60	2000	54.5	91.6	80-125	1900	0.66	30	
Methyl tert-butyl ether	926.5	30	1000	0	92.6	75-125	998	7.43	30	
Methylene chloride	860	30	1000	0	86	55-145	984.5	13.5	30	
o-Xylene	941.5	30	1000	0	94.2	75-125	939	0.266	30	
Styrene	1042	30	1000	0	104	75-125	1047	0.527	30	
Tetrachloroethene	1070	30	1000	0	107	64-140	1146	6.91	30	
Toluene	768.5	30	1000	42.5	72.6	70-125	782	1.74	30	
trans-1,2-Dichloroethene	781	30	1000	0	78.1	65-135	868	10.6	30	
trans-1,3-Dichloropropene	782.5	30	1000	0	78.2	65-125	793	1.33	30	

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **47249**	Instrument ID **VMS5**		Method: **SW8260**							
Trichloroethene	790	30	1000	0	79	75-125	836.5	5.72	30	
Trichlorofluoromethane	904	30	1000	0	90.4	25-185	956	5.59	30	
Vinyl chloride	943	30	1000	0	94.3	60-125	559	51.1	30	R
Xylenes, Total	2828	90	3000	54.5	92.5	75-125	2838	0.353	30	
Surr: 1,2-Dichloroethane-d4	*964*	0	*1000*	0	*96.4*	*70-130*	998.5	*3.52*	*30*	
Surr: 4-Bromofluorobenzene	*1134*	0	*1000*	0	*113*	*70-130*	1124	*0.974*	*30*	
Surr: Dibromofluoromethane	*989.5*	0	*1000*	0	*99*	*70-130*	993.5	*0.403*	*30*	
Surr: Toluene-d8	*928*	0	*1000*	0	*92.8*	*70-130*	933.5	*0.591*	*30*	

The following samples were analyzed in this batch: 1303837-02B 1303837-03B 1303837-04B 1303837-05B

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **VBLKW2-130327-R118006A** Units: **µg/L** Analysis Date: **3/28/2013 02:00 AM**
Client ID: Run ID: **VMS5_130327B** SeqNo: **2252816** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
m,p-Xylene	U	2.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
o-Xylene	U	1.0								
Styrene	U	1.0								

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

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

Tetrachloroethene	U	2.0					
Toluene	U	1.0					
trans-1,2-Dichloroethene	U	1.0					
trans-1,3-Dichloropropene	U	1.0					
Trichloroethene	U	1.0					
Trichlorofluoromethane	U	1.0					
Vinyl chloride	U	1.0					
Xylenes, Total	U	3.0					
Surr: 1,2-Dichloroethane-d4	*19.22*	0	*20*	0	*96.1*	*70-120*	0
Surr: 4-Bromofluorobenzene	*19.96*	0	*20*	0	*99.8*	*75-120*	0
Surr: Dibromofluoromethane	*19.19*	0	*20*	0	*96*	*85-115*	0
Surr: Toluene-d8	*19.48*	0	*20*	0	*97.4*	*85-120*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

LCS Sample ID: **VLCSW2-130327-R118006A** Units: **µg/L** Analysis Date: **3/28/2013 01:13 AM**
Client ID: Run ID: **VMS5_130327B** SeqNo: **2252815** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.22	1.0	20	0	101	65-130	0			
1,1,2,2-Tetrachloroethane	18.81	1.0	20	0	94	65-130	0			
1,1,2-Trichloroethane	18.18	1.0	20	0	90.9	75-125	0			
1,1-Dichloroethane	20.87	1.0	20	0	104	70-135	0			
1,1-Dichloroethene	21.11	1.0	20	0	106	70-130	0			
1,2,4-Trichlorobenzene	19.17	1.0	20	0	95.8	65-135	0			
1,2-Dibromo-3-chloropropane	18.24	1.0	20	0	91.2	50-130	0			
1,2-Dibromoethane	19.51	1.0	20	0	97.6	80-120	0			
1,2-Dichlorobenzene	19.4	1.0	20	0	97	70-120	0			
1,2-Dichloroethane	19.6	1.0	20	0	98	70-130	0			
1,2-Dichloropropane	21.2	2.0	20	0	106	75-125	0			
1,3-Dichlorobenzene	19.74	2.0	20	0	98.7	75-125	0			
1,4-Dichlorobenzene	19.13	2.0	20	0	95.6	75-125	0			
2-Butanone	20.54	5.0	20	0	103	30-150	0			
2-Hexanone	20.28	5.0	20	0	101	55-130	0			
4-Methyl-2-pentanone	27.84	5.0	20	0	139	60-135	0			S
Acetone	21.21	20	20	0	106	40-140	0			
Benzene	20.48	1.0	20	0	102	80-120	0			
Bromodichloromethane	20.39	1.0	20	0	102	75-120	0			
Bromoform	19.34	1.0	20	0	96.7	70-130	0			
Bromomethane	26.96	1.0	20	0	135	30-145	0			
Carbon disulfide	21.25	2.5	20	0	106	35-165	0			
Carbon tetrachloride	20.39	1.0	20	0	102	65-140	0			
Chlorobenzene	20.38	1.0	20	0	102	80-120	0			
Chloroethane	21.93	1.0	20	0	110	60-135	0			
Chloroform	20.33	1.0	20	0	102	65-135	0			
Chloromethane	20.19	1.0	20	0	101	70-125	0			
cis-1,2-Dichloroethene	20.59	1.0	20	0	103	70-125	0			
cis-1,3-Dichloropropene	20.88	1.0	20	0	104	70-130	0			
Dibromochloromethane	19.01	1.0	20	0	95	60-135	0			
Dichlorodifluoromethane	16.59	1.0	20	0	83	30-155	0			
Ethylbenzene	19.95	1.0	20	0	99.8	75-125	0			
Isopropylbenzene	20.27	1.0	20	0	101	75-125	0			
m,p-Xylene	40.01	2.0	40	0	100	75-130	0			
Methyl tert-butyl ether	23.53	5.0	20	0	118	65-125	0			
Methylene chloride	19.11	5.0	20	0	95.6	55-140	0			
o-Xylene	20.24	1.0	20	0	101	80-120	0			
Styrene	20.63	1.0	20	0	103	65-135	0			
Tetrachloroethene	19.94	2.0	20	0	99.7	45-150	0			
Toluene	19.97	1.0	20	0	99.8	75-120	0			
trans-1,2-Dichloroethene	21.36	1.0	20	0	107	60-140	0			
trans-1,3-Dichloropropene	20.57	1.0	20	0	103	55-140	0			

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

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	19.45	1.0	20	0	97.2	70-125	0
Trichlorofluoromethane	21.23	1.0	20	0	106	60-145	0
Vinyl chloride	22.24	1.0	20	0	111	50-145	0
Xylenes, Total	60.25	3.0	60	0	100	75-130	0
Surr: 1,2-Dichloroethane-d4	*19.05*	0	*20*	0	*95.2*	*70-120*	0
Surr: 4-Bromofluorobenzene	*20.16*	0	*20*	0	*101*	*75-120*	0
Surr: Dibromofluoromethane	*19.64*	0	*20*	0	*98.2*	*85-115*	0
Surr: Toluene-d8	*19.2*	0	*20*	0	*96*	*85-120*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

MS Sample ID: **1303837-01A MS** Units: **µg/L** Analysis Date: **3/28/2013 10:31 AM**
Client ID: **GW-2** Run ID: **VMS5_130327B** SeqNo: **2252821** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.78	1.0	20	0	104	65-130	0			
1,1,2,2-Tetrachloroethane	U	1.0	20	0	0	65-130	0			S
1,1,2-Trichloroethane	8.47	1.0	20	0	42.4	75-125	0			S
1,1-Dichloroethane	20.9	1.0	20	0	104	70-135	0			
1,1-Dichloroethene	31.27	1.0	20	0	156	70-130	0			S
1,2,4-Trichlorobenzene	20.04	1.0	20	0	100	65-135	0			
1,2-Dibromo-3-chloropropane	8.75	1.0	20	0	43.8	50-130	0			S
1,2-Dibromoethane	18.58	1.0	20	0	92.9	80-120	0			
1,2-Dichlorobenzene	19.5	1.0	20	0	97.5	70-120	0			
1,2-Dichloroethane	19.11	1.0	20	0	95.6	70-130	0			
1,2-Dichloropropane	20.78	2.0	20	0	104	75-125	0			
1,3-Dichlorobenzene	20.01	2.0	20	0	100	75-125	0			
1,4-Dichlorobenzene	18.83	2.0	20	0	94.2	75-125	0			
2-Butanone	38.59	5.0	20	0	193	30-150	0			S
2-Hexanone	33.27	5.0	20	0	166	55-130	0			S
4-Methyl-2-pentanone	22.21	5.0	20	0	111	60-135	0			
Acetone	51.15	20	20	0	256	40-140	0			S
Benzene	20.69	1.0	20	0	103	80-120	0			
Bromodichloromethane	16.09	1.0	20	0	80.4	75-120	0			
Bromoform	16.46	1.0	20	0	82.3	70-130	0			
Bromomethane	18.12	1.0	20	0	90.6	30-145	0			
Carbon disulfide	8.36	2.5	20	0	41.8	35-165	0			
Carbon tetrachloride	20.9	1.0	20	0	104	65-140	0			
Chlorobenzene	19.67	1.0	20	0	98.4	80-120	0			
Chloroethane	23.09	1.0	20	0	115	60-135	0			
Chloroform	20.95	1.0	20	0	105	65-135	0			
Chloromethane	20.39	1.0	20	0	102	70-125	0			
cis-1,2-Dichloroethene	20.27	1.0	20	0	101	70-125	0			
cis-1,3-Dichloropropene	18.27	1.0	20	0	91.4	70-130	0			
Dibromochloromethane	15.32	1.0	20	0	76.6	60-135	0			
Dichlorodifluoromethane	18.86	1.0	20	0	94.3	30-155	0			
Ethylbenzene	20.37	1.0	20	0	102	75-125	0			
Isopropylbenzene	21.12	1.0	20	0	106	75-125	0			
m,p-Xylene	40.76	2.0	40	0	102	75-130	0			
Methyl tert-butyl ether	22.57	5.0	20	0	113	65-125	0			
Methylene chloride	19.37	5.0	20	0	96.8	55-140	0			
o-Xylene	20.55	1.0	20	0	103	80-120	0			
Styrene	20.62	1.0	20	0	103	65-135	0			
Tetrachloroethene	37.32	2.0	20	0	187	45-150	0			S
Toluene	20.45	1.0	20	0	102	75-120	0			
trans-1,2-Dichloroethene	21.15	1.0	20	0	106	60-140	0			
trans-1,3-Dichloropropene	18.26	1.0	20	0	91.3	55-140	0			

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

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	38.55	1.0	20	0	193	70-125	0	S
Trichlorofluoromethane	22.15	1.0	20	0	111	60-145	0	
Vinyl chloride	23.63	1.0	20	0	118	50-145	0	
Xylenes, Total	61.31	3.0	60	0	102	75-130	0	
Surr: 1,2-Dichloroethane-d4	*20.05*	0	*20*	0	*100*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*20.27*	0	*20*	0	*101*	*75-120*	0	
Surr: Dibromofluoromethane	*18.67*	0	*20*	0	*93.4*	*85-115*	0	
Surr: Toluene-d8	*19.38*	0	*20*	0	*96.9*	*85-120*	0	

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

MSD Sample ID: **1303837-01A MSD** Units: **µg/L** Analysis Date: **3/28/2013 10:54 AM**
Client ID: **GW-2** Run ID: **VMS5_130327B** SeqNo: **2252822** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.47	1.0	20	0	102	65-130	20.78	1.5	30	
1,1,2,2-Tetrachloroethane	U	1.0	20	0	0	65-130	0	0	30	S
1,1,2-Trichloroethane	8.41	1.0	20	0	42	75-125	8.47	0.711	30	S
1,1-Dichloroethane	20.68	1.0	20	0	103	70-135	20.9	1.06	30	
1,1-Dichloroethene	30.89	1.0	20	0	154	70-130	31.27	1.22	30	S
1,2,4-Trichlorobenzene	20.83	1.0	20	0	104	65-135	20.04	3.87	30	
1,2-Dibromo-3-chloropropane	8.21	1.0	20	0	41	50-130	8.75	6.37	30	S
1,2-Dibromoethane	18.74	1.0	20	0	93.7	80-120	18.58	0.857	30	
1,2-Dichlorobenzene	19.63	1.0	20	0	98.2	70-120	19.5	0.664	30	
1,2-Dichloroethane	19.23	1.0	20	0	96.2	70-130	19.11	0.626	30	
1,2-Dichloropropane	20.93	2.0	20	0	105	75-125	20.78	0.719	30	
1,3-Dichlorobenzene	19.93	2.0	20	0	99.6	75-125	20.01	0.401	30	
1,4-Dichlorobenzene	19.67	2.0	20	0	98.4	75-125	18.83	4.36	30	
2-Butanone	38.08	5.0	20	0	190	30-150	38.59	1.33	30	S
2-Hexanone	33.01	5.0	20	0	165	55-130	33.27	0.785	30	S
4-Methyl-2-pentanone	23.18	5.0	20	0	116	60-135	22.21	4.27	30	
Acetone	51.34	20	20	0	257	40-140	51.15	0.371	30	S
Benzene	19.91	1.0	20	0	99.6	80-120	20.69	3.84	30	
Bromodichloromethane	15.48	1.0	20	0	77.4	75-120	16.09	3.86	30	
Bromoform	17.08	1.0	20	0	85.4	70-130	16.46	3.7	30	
Bromomethane	18.94	1.0	20	0	94.7	30-145	18.12	4.43	30	
Carbon disulfide	7.7	2.5	20	0	38.5	35-165	8.36	8.22	30	
Carbon tetrachloride	20.45	1.0	20	0	102	65-140	20.9	2.18	30	
Chlorobenzene	19.61	1.0	20	0	98	80-120	19.67	0.305	30	
Chloroethane	22.77	1.0	20	0	114	60-135	23.09	1.4	30	
Chloroform	20.85	1.0	20	0	104	65-135	20.95	0.478	30	
Chloromethane	20.16	1.0	20	0	101	70-125	20.39	1.13	30	
cis-1,2-Dichloroethene	20.14	1.0	20	0	101	70-125	20.27	0.643	30	
cis-1,3-Dichloropropene	17.66	1.0	20	0	88.3	70-130	18.27	3.4	30	
Dibromochloromethane	15.88	1.0	20	0	79.4	60-135	15.32	3.59	30	
Dichlorodifluoromethane	19.35	1.0	20	0	96.8	30-155	18.86	2.56	30	
Ethylbenzene	20.08	1.0	20	0	100	75-125	20.37	1.43	30	
Isopropylbenzene	21.27	1.0	20	0	106	75-125	21.12	0.708	30	
m,p-Xylene	40.27	2.0	40	0	101	75-130	40.76	1.21	30	
Methyl tert-butyl ether	22.73	5.0	20	0	114	65-125	22.57	0.706	30	
Methylene chloride	19.09	5.0	20	0	95.4	55-140	19.37	1.46	30	
o-Xylene	20.26	1.0	20	0	101	80-120	20.55	1.42	30	
Styrene	20.44	1.0	20	0	102	65-135	20.62	0.877	30	
Tetrachloroethene	35.97	2.0	20	0	180	45-150	37.32	3.68	30	S
Toluene	19.89	1.0	20	0	99.4	75-120	20.45	2.78	30	
trans-1,2-Dichloroethene	20.7	1.0	20	0	104	60-140	21.15	2.15	30	
trans-1,3-Dichloropropene	17.57	1.0	20	0	87.8	55-140	18.26	3.85	30	

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118006A** Instrument ID **VMS5** Method: **SW8260**

Trichloroethene	37.42	1.0	20	0	187	70-125	38.55	2.97	30	S
Trichlorofluoromethane	22.31	1.0	20	0	112	60-145	22.15	0.72	30	
Vinyl chloride	23.07	1.0	20	0	115	50-145	23.63	2.4	30	
Xylenes, Total	60.53	3.0	60	0	101	75-130	61.31	1.28	30	
Surr: 1,2-Dichloroethane-d4	*19.66*	0	*20*	0	*98.3*	*70-120*	20.05	*1.96*	*30*	
Surr: 4-Bromofluorobenzene	*20.75*	0	*20*	0	*104*	*75-120*	20.27	*2.34*	*30*	
Surr: Dibromofluoromethane	*18.23*	0	*20*	0	*91.2*	*85-115*	18.67	*2.38*	*30*	
Surr: Toluene-d8	*19.27*	0	*20*	0	*96.4*	*85-120*	19.38	*0.569*	*30*	

The following samples were analyzed in this batch: 1303837-01A

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118006B** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **VBLKW2-130327-R118006B** Units: **µg/L** Analysis Date: **3/28/2013 02:00 AM**
Client ID: Run ID: **VMS5_130327B** SeqNo: **2253032** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	50								
Surr: 1,2-Dichloroethane-d4	*17.33*	0	*20*	0	*86.6*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*18.49*	0	*20*	0	*92.4*	*75-120*	0			
Surr: Dibromofluoromethane	*17.33*	0	*20*	0	*86.6*	*85-115*	0			
Surr: Toluene-d8	*17.77*	0	*20*	0	*88.8*	*85-120*	0			

LCS Sample ID: **VLCSW3-130327-R118006B** Units: **µg/L** Analysis Date: **3/28/2013 01:37 AM**
Client ID: Run ID: **VMS5_130327B** SeqNo: **2253031** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	365.6	50	500	0	73.1	70-130	0			
Surr: Toluene-d8	*17.75*	0	*20*	0	*88.8*	*85-120*	0			

The following samples were analyzed in this batch: 1303837-01A

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: **VBLKS1-130328-R118032** Units: **µg/Kg** Analysis Date: **3/28/2013 12:43 PM**
Client ID: Run ID: **VMS7_130328A** SeqNo: **2254242** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1,2-Trichlorotrifluoroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	0.4	5.0								J
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	0.41	5.0								J
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	10								
Ethylbenzene	U	5.0								
GRO (C6-C10)	U	0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	2.5								
Methyl acetate	U	10								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	10								
Methylene chloride	0.84	5.0								J
o-Xylene	U	2.5								
Styrene	U	5.0								

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

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

Tetrachloroethene	U	5.0					
Toluene	U	5.0					
trans-1,2-Dichloroethene	U	5.0					
trans-1,3-Dichloropropene	U	10					
Trichloroethene	U	5.0					
Trichlorofluoromethane	U	5.0					
Vinyl chloride	U	5.0					
Xylenes, Total	U	5.0					
Surr: 1,2-Dichloroethane-d4	*18.11*	0	*20*	0	*90.6*	*70-120*	0
Surr: 4-Bromofluorobenzene	*19.39*	0	*20*	0	*97*	*75-120*	0
Surr: Dibromofluoromethane	*19.31*	0	*20*	0	*96.6*	*85-115*	0
Surr: Toluene-d8	*19.9*	0	*20*	0	*99.5*	*85-120*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: **VLCSS2-130328-R118032** Units: **µg/Kg** Analysis Date: **3/28/2013 11:37 AM**
Client ID: Run ID: **VMS7_130328A** SeqNo: **2254238** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.09	5.0	20	0	100	70-135	0			
1,1,2,2-Tetrachloroethane	18.85	5.0	20	0	94.2	55-130	0			
1,1,2-Trichloroethane	19.2	5.0	20	0	96	60-125	0			
1,1-Dichloroethane	20.46	5.0	20	0	102	75-125	0			
1,1-Dichloroethene	22.04	5.0	20	0	110	65-135	0			
1,2,4-Trichlorobenzene	21.24	5.0	20	0	106	65-130	0			
1,2-Dibromo-3-chloropropane	20.78	5.0	20	0	104	40-135	0			
1,2-Dibromoethane	20.17	5.0	20	0	101	70-125	0			
1,2-Dichlorobenzene	20.05	5.0	20	0	100	75-120	0			
1,2-Dichloroethane	21.09	5.0	20	0	105	70-135	0			
1,2-Dichloropropane	20.41	5.0	20	0	102	70-120	0			
1,3-Dichlorobenzene	20.15	5.0	20	0	101	70-125	0			
1,4-Dichlorobenzene	20.49	5.0	20	0	102	70-125	0			
2-Butanone	19.87	10	20	0	99.4	30-160	0			
2-Hexanone	22.49	5.0	20	0	112	45-145	0			
4-Methyl-2-pentanone	32.44	5.0	20	0	162	45-145	0			S
Benzene	20.82	5.0	20	0	104	75-125	0			
Bromodichloromethane	21.5	5.0	20	0	108	70-130	0			
Bromoform	19.97	5.0	20	0	99.8	55-135	0			
Bromomethane	16.49	10	20	0	82.4	30-160	0			
Carbon disulfide	24.38	5.0	20	0	122	45-160	0			
Carbon tetrachloride	22.7	5.0	20	0	114	65-135	0			
Chlorobenzene	20.17	5.0	20	0	101	75-125	0			
Chloroethane	22.32	5.0	20	0	112	40-155	0			
Chloroform	21.11	5.0	20	0	106	70-125	0			
Chloromethane	20.77	10	20	0	104	50-130	0			
cis-1,2-Dichloroethene	22.54	5.0	20	0	113	65-125	0			
cis-1,3-Dichloropropene	19.85	5.0	20	0	99.2	70-125	0			
Dibromochloromethane	20.23	5.0	20	0	101	65-135	0			
Dichlorodifluoromethane	18.92	10	20	0	94.6	35-135	0			
Ethylbenzene	20.63	5.0	20	0	103	75-125	0			
Isopropylbenzene	19.54	5.0	20	0	97.7	75-130	0			
m,p-Xylene	40.31	2.5	40	0	101	80-125	0			
Methyl tert-butyl ether	27.46	5.0	20	0	137	75-125	0			S
Methylene chloride	23.57	5.0	20	0	118	55-140	0			
o-Xylene	20.02	2.5	20	0	100	75-125	0			
Styrene	20.15	5.0	20	0	101	75-125	0			
Tetrachloroethene	20.05	5.0	20	0	100	65-140	0			
Toluene	20.5	5.0	20	0	102	70-125	0			
trans-1,2-Dichloroethene	22.34	5.0	20	0	112	65-135	0			
trans-1,3-Dichloropropene	21.66	10	20	0	108	65-125	0			
Trichloroethene	19.29	5.0	20	0	96.4	75-125	0			

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

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

Trichlorofluoromethane	20.61	5.0	20	0	103	25-185	0
Vinyl chloride	21.23	5.0	20	0	106	60-125	0
Xylenes, Total	60.33	5.0	60	0	101	75-125	0
Surr: 1,2-Dichloroethane-d4	*20.83*	0	*20*	0	*104*	*70-120*	0
Surr: 4-Bromofluorobenzene	*18.69*	0	*20*	0	*93.4*	*75-120*	0
Surr: Dibromofluoromethane	*20.64*	0	*20*	0	*103*	*85-115*	0
Surr: Toluene-d8	*20.05*	0	*20*	0	*100*	*85-120*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

MS	Sample ID: **1303834-01A MS**				Units: **µg/Kg**			Analysis Date: **3/28/2013 09:38 PM**		
Client ID:		Run ID: **VMS7_130328A**			SeqNo: **2254272**		Prep Date:		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	15.84	5.0	20	0	79.2	70-135	0			
1,1,2,2-Tetrachloroethane	16.92	5.0	20	0	84.6	55-130	0			
1,1,2-Trichloroethane	15.71	5.0	20	0	78.6	60-125	0			
1,1-Dichloroethane	17.59	5.0	20	0	88	75-125	0			
1,1-Dichloroethene	19.9	5.0	20	0	99.5	65-135	0			
1,2,4-Trichlorobenzene	13.86	5.0	20	0	69.3	65-130	0			
1,2-Dibromo-3-chloropropane	15.84	5.0	20	0	79.2	40-135	0			
1,2-Dibromoethane	16.59	5.0	20	0	83	70-125	0			
1,2-Dichlorobenzene	15.56	5.0	20	0	77.8	75-120	0			
1,2-Dichloroethane	14.55	5.0	20	0	72.8	70-135	0			
1,2-Dichloropropane	16.21	5.0	20	0	81	70-120	0			
1,3-Dichlorobenzene	15.71	5.0	20	0	78.6	70-125	0			
1,4-Dichlorobenzene	15.25	5.0	20	0	76.2	70-125	0			
2-Butanone	13.27	10	20	1.103	60.8	30-160	0			
2-Hexanone	18.18	5.0	20	0	90.9	45-145	0			
4-Methyl-2-pentanone	23.37	5.0	20	0	117	45-145	0			
Benzene	16	5.0	20	0	80	75-125	0			
Bromodichloromethane	15.5	5.0	20	0	77.5	70-130	0			
Bromoform	16.66	5.0	20	0	83.3	55-135	0			
Bromomethane	9.79	10	20	0	49	30-160	0			J
Carbon disulfide	21.31	5.0	20	0.5611	104	45-160	0			
Carbon tetrachloride	17.54	5.0	20	0	87.7	65-135	0			
Chlorobenzene	16.99	5.0	20	0	85	75-125	0			
Chloroethane	20.94	5.0	20	0	105	40-155	0			
Chloroform	15.72	5.0	20	0.485	76.2	70-125	0			
Chloromethane	18.03	10	20	0	90.2	50-130	0			
cis-1,2-Dichloroethene	15.88	5.0	20	0	79.4	65-125	0			
cis-1,3-Dichloropropene	14.07	5.0	20	0	70.4	70-125	0			
Dibromochloromethane	16.89	5.0	20	0	84.4	65-135	0			
Dichlorodifluoromethane	17.44	10	20	0	87.2	35-135	0			
Ethylbenzene	17.56	5.0	20	0	87.8	75-125	0			
Isopropylbenzene	16.78	5.0	20	0	83.9	75-130	0			
m,p-Xylene	33.58	2.5	40	0	84	80-125	0			
Methyl tert-butyl ether	19.07	5.0	20	0	95.4	75-125	0			
Methylene chloride	19.76	5.0	20	0.7893	94.9	55-140	0			
o-Xylene	16.24	2.5	20	0	81.2	75-125	0			
Styrene	15.9	5.0	20	0	79.5	75-125	0			
Tetrachloroethene	17.94	5.0	20	0	89.7	65-140	0			
Toluene	16.95	5.0	20	0.1236	84.1	70-125	0			
trans-1,2-Dichloroethene	19.63	5.0	20	0	98.2	65-135	0			
trans-1,3-Dichloropropene	14.32	10	20	0	71.6	65-125	0			
Trichloroethene	16.84	5.0	20	0	84.2	75-125	0			

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

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

Trichlorofluoromethane	18.89	5.0	20	0	94.4	25-185	0
Vinyl chloride	19.91	5.0	20	0	99.6	60-125	0
Xylenes, Total	49.82	5.0	60	0	83	75-125	0
Surr: 1,2-Dichloroethane-d4	*18.57*	0	*20*	0	*92.8*	*70-120*	0
Surr: 4-Bromofluorobenzene	*21.09*	0	*20*	0	*105*	*75-120*	0
Surr: Dibromofluoromethane	*20*	0	*20*	0	*100*	*85-115*	0
Surr: Toluene-d8	*19.77*	0	*20*	0	*98.8*	*85-120*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: **1303834-01A MSD** Units: **µg/Kg** Analysis Date: **3/28/2013 10:08 PM**
Client ID: Run ID: **VMS7_130328A** SeqNo: **2254273** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	15.32	5.0	20	0	76.6	70-135	15.84	3.34	30	
1,1,2,2-Tetrachloroethane	15.07	5.0	20	0	75.4	55-130	16.92	11.6	30	
1,1,2-Trichloroethane	14.37	5.0	20	0	71.8	60-125	15.71	8.91	30	
1,1-Dichloroethane	16.04	5.0	20	0	80.2	75-125	17.59	9.22	30	
1,1-Dichloroethene	18.42	5.0	20	0	92.1	65-135	19.9	7.72	30	
1,2,4-Trichlorobenzene	13.44	5.0	20	0	67.2	65-130	13.86	3.08	30	
1,2-Dibromo-3-chloropropane	16.32	5.0	20	0	81.6	40-135	15.84	2.99	30	
1,2-Dibromoethane	14.88	5.0	20	0	74.4	70-125	16.59	10.9	30	
1,2-Dichlorobenzene	14.57	5.0	20	0	72.8	75-120	15.56	6.57	30	S
1,2-Dichloroethane	14.2	5.0	20	0	71	70-135	14.55	2.43	30	
1,2-Dichloropropane	15.32	5.0	20	0	76.6	70-120	16.21	5.65	30	
1,3-Dichlorobenzene	14.5	5.0	20	0	72.5	70-125	15.71	8.01	30	
1,4-Dichlorobenzene	14.43	5.0	20	0	72.2	70-125	15.25	5.53	30	
2-Butanone	12.34	10	20	1.103	56.2	30-160	13.27	7.26	30	
2-Hexanone	14.83	5.0	20	0	74.2	45-145	18.18	20.3	30	
4-Methyl-2-pentanone	20.77	5.0	20	0	104	45-145	23.37	11.8	30	
Benzene	15.66	5.0	20	0	78.3	75-125	16	2.15	30	
Bromodichloromethane	14.82	5.0	20	0	74.1	70-130	15.5	4.49	30	
Bromoform	15.96	5.0	20	0	79.8	55-135	16.66	4.29	30	
Bromomethane	13.72	10	20	0	68.6	30-160	9.79	33.4	30	R
Carbon disulfide	20.55	5.0	20	0.5611	99.9	45-160	21.31	3.63	30	
Carbon tetrachloride	17.49	5.0	20	0	87.4	65-135	17.54	0.285	30	
Chlorobenzene	15.11	5.0	20	0	75.6	75-125	16.99	11.7	30	
Chloroethane	18.39	5.0	20	0	92	40-155	20.94	13	30	
Chloroform	14.37	5.0	20	0.485	69.4	70-125	15.72	8.97	30	S
Chloromethane	15.73	10	20	0	78.6	50-130	18.03	13.6	30	
cis-1,2-Dichloroethene	14.62	5.0	20	0	73.1	65-125	15.88	8.26	30	
cis-1,3-Dichloropropene	13.48	5.0	20	0	67.4	70-125	14.07	4.28	30	S
Dibromochloromethane	15.01	5.0	20	0	75	65-135	16.89	11.8	30	
Dichlorodifluoromethane	16.88	10	20	0	84.4	35-135	17.44	3.26	30	
Ethylbenzene	16.66	5.0	20	0	83.3	75-125	17.56	5.26	30	
Isopropylbenzene	15.72	5.0	20	0	78.6	75-130	16.78	6.52	30	
m,p-Xylene	31.98	2.5	40	0	80	80-125	33.58	4.88	30	S
Methyl tert-butyl ether	18.91	5.0	20	0	94.6	75-125	19.07	0.843	30	
Methylene chloride	18.55	5.0	20	0.7893	88.8	55-140	19.76	6.32	30	
o-Xylene	14.78	2.5	20	0	73.9	75-125	16.24	9.41	30	S
Styrene	14.72	5.0	20	0	73.6	75-125	15.9	7.71	30	S
Tetrachloroethene	17.16	5.0	20	0	85.8	65-140	17.94	4.44	30	
Toluene	15.97	5.0	20	0.1236	79.2	70-125	16.95	5.95	30	
trans-1,2-Dichloroethene	18.59	5.0	20	0	93	65-135	19.63	5.44	30	
trans-1,3-Dichloropropene	12.94	10	20	0	64.7	65-125	14.32	10.1	30	S
Trichloroethene	16.32	5.0	20	0	81.6	75-125	16.84	3.14	30	

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118032** Instrument ID **VMS7** Method: **SW8260**

Trichlorofluoromethane	17.33	5.0	20	0	86.6	25-185	18.89	8.61	30
Vinyl chloride	19.28	5.0	20	0	96.4	60-125	19.91	3.22	30
Xylenes, Total	46.76	5.0	60	0	77.9	75-125	49.82	6.34	30
Surr: 1,2-Dichloroethane-d4	*19.24*	0	*20*	0	*96.2*	*70-120*	18.57	*3.54*	*30*
Surr: 4-Bromofluorobenzene	*19.48*	0	*20*	0	*97.4*	*75-120*	21.09	*7.94*	*30*
Surr: Dibromofluoromethane	*21.14*	0	*20*	0	*106*	*85-115*	20	*5.54*	*30*
Surr: Toluene-d8	*19.35*	0	*20*	0	*96.8*	*85-120*	19.77	*2.15*	*30*

The following samples were analyzed in this batch: 1303837-02B 1303837-03B

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118121** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: **VBLKS1-130329-R118121** Units: **µg/Kg** Analysis Date: **3/29/2013 02:57 PM**
Client ID: Run ID: **VMS7_130329A** SeqNo: **2256245** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1,2-Trichlorotrifluoroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	5.0								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	0.45	5.0								J
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	2.5								
Methyl acetate	U	10								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	10								
Methylene chloride	0.95	5.0								J
o-Xylene	U	2.5								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								

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

QC BATCH REPORT

Batch ID: **R118121** Instrument ID **VMS7** Method: **SW8260**

Toluene	U	5.0					
trans-1,2-Dichloroethene	U	5.0					
trans-1,3-Dichloropropene	U	10					
Trichloroethene	U	5.0					
Trichlorofluoromethane	U	5.0					
Vinyl chloride	U	5.0					
Xylenes, Total	U	5.0					
Surr: 1,2-Dichloroethane-d4	*18.93*	0	*20*	0	*94.6*	*70-120*	0
Surr: 4-Bromofluorobenzene	*18.54*	0	*20*	0	*92.7*	*75-120*	0
Surr: Dibromofluoromethane	*18.92*	0	*20*	0	*94.6*	*85-115*	0
Surr: Toluene-d8	*19.59*	0	*20*	0	*98*	*85-120*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118121** Instrument ID **VMS7** Method: **SW8260**

LCS	Sample ID: **VLCSS1-130329-R118121**				Units: **µg/Kg**		Analysis Date: **3/29/2013 01:51 PM**			
Client ID:		Run ID: **VMS7_130329A**			SeqNo: **2256244**		Prep Date:		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.49	5.0	20	0	97.4	70-135	0			
1,1,2,2-Tetrachloroethane	18.23	5.0	20	0	91.2	55-130	0			
1,1,2-Trichloroethane	18.76	5.0	20	0	93.8	60-125	0			
1,1-Dichloroethane	19.63	5.0	20	0	98.2	75-125	0			
1,1-Dichloroethene	21.4	5.0	20	0	107	65-135	0			
1,2,4-Trichlorobenzene	21.51	5.0	20	0	108	65-130	0			
1,2-Dibromo-3-chloropropane	19.71	5.0	20	0	98.6	40-135	0			
1,2-Dibromoethane	18.96	5.0	20	0	94.8	70-125	0			
1,2-Dichlorobenzene	20.22	5.0	20	0	101	75-120	0			
1,2-Dichloroethane	17.9	5.0	20	0	89.5	70-135	0			
1,2-Dichloropropane	19.28	5.0	20	0	96.4	70-120	0			
1,3-Dichlorobenzene	20.72	5.0	20	0	104	70-125	0			
1,4-Dichlorobenzene	20.14	5.0	20	0	101	70-125	0			
2-Butanone	13.87	10	20	0	69.4	30-160	0			
2-Hexanone	19.13	5.0	20	0	95.6	45-145	0			
4-Methyl-2-pentanone	26.75	5.0	20	0	134	45-145	0			
Benzene	20.11	5.0	20	0	101	75-125	0			
Bromodichloromethane	19.97	5.0	20	0	99.8	70-130	0			
Bromoform	20.07	5.0	20	0	100	55-135	0			
Bromomethane	17.77	10	20	0	88.8	30-160	0			
Carbon disulfide	23.62	5.0	20	0	118	45-160	0			
Carbon tetrachloride	21.35	5.0	20	0	107	65-135	0			
Chlorobenzene	20.19	5.0	20	0	101	75-125	0			
Chloroethane	20.89	5.0	20	0	104	40-155	0			
Chloroform	18.1	5.0	20	0	90.5	70-125	0			
Chloromethane	21.25	10	20	0	106	50-130	0			
cis-1,2-Dichloroethene	18.87	5.0	20	0	94.4	65-125	0			
cis-1,3-Dichloropropene	19.17	5.0	20	0	95.8	70-125	0			
Dibromochloromethane	19.69	5.0	20	0	98.4	65-135	0			
Dichlorodifluoromethane	17.86	10	20	0	89.3	35-135	0			
Ethylbenzene	20.45	5.0	20	0	102	75-125	0			
Isopropylbenzene	19.77	5.0	20	0	98.8	75-130	0			
m,p-Xylene	38.23	2.5	40	0	95.6	80-125	0			
Methyl tert-butyl ether	25.43	5.0	20	0	127	75-125	0			S
Methylene chloride	21.02	5.0	20	0	105	55-140	0			
o-Xylene	18.79	2.5	20	0	94	75-125	0			
Styrene	19.41	5.0	20	0	97	75-125	0			
Tetrachloroethene	20.93	5.0	20	0	105	65-140	0			
Toluene	20.55	5.0	20	0	103	70-125	0			
trans-1,2-Dichloroethene	21.95	5.0	20	0	110	65-135	0			
trans-1,3-Dichloropropene	19.62	10	20	0	98.1	65-125	0			
Trichloroethene	19.79	5.0	20	0	99	75-125	0			

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

QC BATCH REPORT

Batch ID: **R118121** Instrument ID **VMS7** Method: **SW8260**

Trichlorofluoromethane	19.82	5.0	20	0	99.1	25-185	0
Vinyl chloride	21.76	5.0	20	0	109	60-125	0
Xylenes, Total	57.02	5.0	60	0	95	75-125	0
Surr: 1,2-Dichloroethane-d4	*17.83*	0	*20*	0	*89.2*	*70-120*	0
Surr: 4-Bromofluorobenzene	*19.11*	0	*20*	0	*95.6*	*75-120*	0
Surr: Dibromofluoromethane	*20.2*	0	*20*	0	*101*	*85-115*	0
Surr: Toluene-d8	*20.13*	0	*20*	0	*101*	*85-120*	0

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118121** Instrument ID **VMS7** Method: **SW8260**

MS Sample ID: **1303837-04A MS** Units: **µg/Kg** Analysis Date: **3/29/2013 11:57 PM**
Client ID: **SS-3** Run ID: **VMS7_130329A** SeqNo: **2256257** Prep Date: DF: **0.996**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	12.48	5.0	19.92	0	62.6	70-135	0			S
1,1,2,2-Tetrachloroethane	14.39	5.0	19.92	0	72.2	55-130	0			
1,1,2-Trichloroethane	16.88	5.0	19.92	0	84.8	60-125	0			
1,1-Dichloroethane	14.15	5.0	19.92	0	71	75-125	0			S
1,1-Dichloroethene	12.96	5.0	19.92	0	65	65-135	0			
1,2,4-Trichlorobenzene	6.584	5.0	19.92	0	33	65-130	0			S
1,2-Dibromo-3-chloropropane	13.52	5.0	19.92	0	67.8	40-135	0			
1,2-Dibromoethane	12.62	5.0	19.92	0	63.4	70-125	0			S
1,2-Dichlorobenzene	9.731	5.0	19.92	0	48.8	75-120	0			S
1,2-Dichloroethane	14.69	5.0	19.92	0	73.8	70-135	0			
1,2-Dichloropropane	14.77	5.0	19.92	0	74.2	70-120	0			
1,3-Dichlorobenzene	9.462	5.0	19.92	0	47.5	70-125	0			S
1,4-Dichlorobenzene	9.532	5.0	19.92	0	47.8	70-125	0			S
2-Butanone	13.66	10	19.92	19.89	-31.3	30-160	0			S
2-Hexanone	8.665	5.0	19.92	0	43.5	45-145	0			S
4-Methyl-2-pentanone	9.093	5.0	19.92	0	45.6	45-145	0			
Benzene	13.36	5.0	19.92	0.1099	66.5	75-125	0			S
Bromodichloromethane	14.91	5.0	19.92	0	74.8	70-130	0			
Bromoform	11.74	5.0	19.92	0	59	55-135	0			
Bromomethane	3.117	10	19.92	0	15.6	30-160	0			JS
Carbon disulfide	12.86	5.0	19.92	0.4318	62.4	45-160	0			
Carbon tetrachloride	13.46	5.0	19.92	0	67.6	65-135	0			
Chlorobenzene	12.15	5.0	19.92	0	61	75-125	0			S
Chloroethane	11.88	5.0	19.92	0	59.6	40-155	0			
Chloroform	13.89	5.0	19.92	0.4004	67.7	70-125	0			S
Chloromethane	11.04	10	19.92	0	55.4	50-130	0			
cis-1,2-Dichloroethene	13.8	5.0	19.92	0	69.3	65-125	0			
cis-1,3-Dichloropropene	7.5	5.0	19.92	0	37.6	70-125	0			S
Dibromochloromethane	13.99	5.0	19.92	0	70.2	65-135	0			
Dichlorodifluoromethane	10.89	10	19.92	0	54.6	35-135	0			
Ethylbenzene	12.06	5.0	19.92	0	60.6	75-125	0			S
Isopropylbenzene	11.89	5.0	19.92	0	59.7	75-130	0			S
m,p-Xylene	24.05	2.5	39.84	0.1334	60	80-125	0			S
Methyl tert-butyl ether	24.52	5.0	19.92	0	123	75-125	0			
Methylene chloride	15.69	5.0	19.92	0.573	75.9	55-140	0			
o-Xylene	12.33	2.5	19.92	0	61.9	75-125	0			S
Styrene	10.94	5.0	19.92	0	54.9	75-125	0			S
Tetrachloroethene	14.72	5.0	19.92	0	73.9	65-140	0			
Toluene	12.62	5.0	19.92	0.1727	62.5	70-125	0			S
trans-1,2-Dichloroethene	14.44	5.0	19.92	0	72.5	65-135	0			
trans-1,3-Dichloropropene	7.799	10	19.92	0	39.2	65-125	0			JS
Trichloroethene	13.2	5.0	19.92	0	66.2	75-125	0			S

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

QC BATCH REPORT

Batch ID: **R118121** Instrument ID **VMS7** Method: **SW8260**

Trichlorofluoromethane	12.15	5.0	19.92	0	61	25-185	0	
Vinyl chloride	12.37	5.0	19.92	0	62.1	60-125	0	
Xylenes, Total	36.38	5.0	59.76	0.1334	60.7	75-125	0	S
Surr: 1,2-Dichloroethane-d4	*19.32*	0	*19.92*	0	*97*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*20.97*	0	*19.92*	0	*105*	*75-120*	0	
Surr: Dibromofluoromethane	*20.76*	0	*19.92*	0	*104*	*85-115*	0	
Surr: Toluene-d8	*21.12*	0	*19.92*	0	*106*	*85-120*	0	

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118121** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: **1303837-04A MSD** Units: **µg/Kg** Analysis Date: **3/30/2013 12:25 PM**
Client ID: **SS-3** Run ID: **VMS7_130329A** SeqNo: **2256258** Prep Date: DF: **0.949**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	14.25	4.7	18.98	0	75.1	70-135	12.48	13.3	30	
1,1,2,2-Tetrachloroethane	13.15	4.7	18.98	0	69.3	55-130	14.39	9	30	
1,1,2-Trichloroethane	14.61	4.7	18.98	0	77	60-125	16.88	14.5	30	
1,1-Dichloroethane	14.3	4.7	18.98	0	75.4	75-125	14.15	1.04	30	
1,1-Dichloroethene	14.26	4.7	18.98	0	75.2	65-135	12.96	9.59	30	
1,2,4-Trichlorobenzene	6.89	4.7	18.98	0	36.3	65-130	6.584	4.54	30	S
1,2-Dibromo-3-chloropropane	11.24	4.7	18.98	0	59.2	40-135	13.52	18.4	30	
1,2-Dibromoethane	11.44	4.7	18.98	0	60.3	70-125	12.62	9.76	30	S
1,2-Dichlorobenzene	9.471	4.7	18.98	0	49.9	75-120	9.731	2.71	30	S
1,2-Dichloroethane	14.81	4.7	18.98	0	78	70-135	14.69	0.833	30	
1,2-Dichloropropane	15.05	4.7	18.98	0	79.3	70-120	14.77	1.88	30	
1,3-Dichlorobenzene	9.946	4.7	18.98	0	52.4	70-125	9.462	4.98	30	S
1,4-Dichlorobenzene	9.794	4.7	18.98	0	51.6	70-125	9.532	2.71	30	S
2-Butanone	12.67	9.5	18.98	19.89	-38.1	30-160	13.66	7.49	30	S
2-Hexanone	7.26	4.7	18.98	0	38.2	45-145	8.665	17.6	30	S
4-Methyl-2-pentanone	8.503	4.7	18.98	0	44.8	45-145	9.093	6.71	30	S
Benzene	14.2	4.7	18.98	0.1099	74.2	75-125	13.36	6.1	30	S
Bromodichloromethane	14.87	4.7	18.98	0	78.4	70-130	14.91	0.264	30	
Bromoform	11.37	4.7	18.98	0	59.9	55-135	11.74	3.23	30	
Bromomethane	4.432	9.5	18.98	0	23.4	30-160	3.117	0	30	JS
Carbon disulfide	13.8	4.7	18.98	0.4318	70.4	45-160	12.86	7.05	30	
Carbon tetrachloride	14.24	4.7	18.98	0	75	65-135	13.46	5.63	30	
Chlorobenzene	12.69	4.7	18.98	0	66.8	75-125	12.15	4.32	30	S
Chloroethane	11.03	4.7	18.98	0	58.1	40-155	11.88	7.46	30	
Chloroform	15.36	4.7	18.98	0.4004	78.8	70-125	13.89	10	30	
Chloromethane	11.34	9.5	18.98	0	59.8	50-130	11.04	2.72	30	
cis-1,2-Dichloroethene	14.81	4.7	18.98	0	78	65-125	13.8	7.05	30	
cis-1,3-Dichloropropene	7.431	4.7	18.98	0	39.2	70-125	7.5	0.927	30	S
Dibromochloromethane	13.26	4.7	18.98	0	69.8	65-135	13.99	5.4	30	
Dichlorodifluoromethane	11.52	9.5	18.98	0	60.7	35-135	10.89	5.66	30	
Ethylbenzene	12.83	4.7	18.98	0	67.6	75-125	12.06	6.18	30	S
Isopropylbenzene	12.2	4.7	18.98	0	64.3	75-130	11.89	2.59	30	S
m,p-Xylene	25.78	2.4	37.96	0.1334	67.6	80-125	24.05	6.95	30	S
Methyl tert-butyl ether	24.25	4.7	18.98	0	128	75-125	24.52	1.13	30	S
Methylene chloride	16.13	4.7	18.98	0.573	82	55-140	15.69	2.8	30	
o-Xylene	12.26	2.4	18.98	0	64.6	75-125	12.33	0.564	30	S
Styrene	11.15	4.7	18.98	0	58.8	75-125	10.94	1.94	30	S
Tetrachloroethene	16.13	4.7	18.98	0	85	65-140	14.72	9.15	30	
Toluene	13.01	4.7	18.98	0.1727	67.6	70-125	12.62	3.05	30	S
trans-1,2-Dichloroethene	15.08	4.7	18.98	0	79.4	65-135	14.44	4.32	30	
trans-1,3-Dichloropropene	7.592	9.5	18.98	0	40	65-125	7.799	0	30	JS
Trichloroethene	13.35	4.7	18.98	0	70.4	75-125	13.2	1.17	30	S

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118121** Instrument ID **VMS7** Method: **SW8260**

Trichlorofluoromethane	12.76	4.7	18.98	0	67.2	25-185	12.15	4.92	30	
Vinyl chloride	13.75	4.7	18.98	0	72.4	60-125	12.37	10.6	30	
Xylenes, Total	38.05	4.7	56.94	0.1334	66.6	75-125	36.38	4.46	30	S
Surr: 1,2-Dichloroethane-d4	*18.94*	0	*18.98*	0	*99.8*	*70-120*	19.32	*1.99*	*30*	
Surr: 4-Bromofluorobenzene	*19.41*	0	*18.98*	0	*102*	*75-120*	20.97	*7.72*	*30*	
Surr: Dibromofluoromethane	*19.63*	0	*18.98*	0	*103*	*85-115*	20.76	*5.6*	*30*	
Surr: Toluene-d8	*19.18*	0	*18.98*	0	*101*	*85-120*	21.12	*9.61*	*30*	

The following samples were analyzed in this batch: 1303837-04B 1303837-05B

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118034** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R118034** Units: **% of sample** Analysis Date: **3/27/2013 03:35 PM**
Client ID: Run ID: **MOIST_130327B** SeqNo: **2252193** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R118034** Units: **% of sample** Analysis Date: **3/27/2013 03:35 PM**
Client ID: Run ID: **MOIST_130327B** SeqNo: **2252189** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1303834-01CDUP** Units: **% of sample** Analysis Date: **3/27/2013 03:35 PM**
Client ID: Run ID: **MOIST_130327B** SeqNo: **2252176** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.83	0.050	0	0	0	0-0	15.83	0	20	

DUP Sample ID: **1303834-10CDUP** Units: **% of sample** Analysis Date: **3/27/2013 03:35 PM**
Client ID: Run ID: **MOIST_130327B** SeqNo: **2252185** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.33	0.050	0	0	0	0-0	18.98	1.83	20	

The following samples were analyzed in this batch: 1303837-02A 1303837-03A

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118036** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R118036** Units: **% of sample** Analysis Date: **3/27/2013 04:15 PM**
Client ID: Run ID: **MOIST_130327C** SeqNo: **2252232** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R118036** Units: **% of sample** Analysis Date: **3/27/2013 04:15 PM**
Client ID: Run ID: **MOIST_130327C** SeqNo: **2252227** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1303861-01ADUP** Units: **% of sample** Analysis Date: **3/27/2013 04:15 PM**
Client ID: Run ID: **MOIST_130327C** SeqNo: **2252204** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	18.4	0.050	0	0	0	0-0	16.34	11.9	20	H

DUP Sample ID: **1303872-07ADUP** Units: **% of sample** Analysis Date: **3/27/2013 04:15 PM**
Client ID: Run ID: **MOIST_130327C** SeqNo: **2252215** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.15	0.050	0	0	0	0-0	5.85	5	20	

DUP Sample ID: **1303875-06BDUP** Units: **% of sample** Analysis Date: **3/27/2013 04:15 PM**
Client ID: Run ID: **MOIST_130327C** SeqNo: **2252224** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.45	0.050	0	0	0	0-0	15.26	1.24	20	

The following samples were analyzed in this batch: 1303837-04A 1303837-05A

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

Client: Tetra Tech
Work Order: 1303837
Project: Municipal Farms Animal Shelter 3/22/13

QC BATCH REPORT

Batch ID: **R118094** Instrument ID **TDS** Method: **A2540 C**

MBLK Sample ID: **WBLKW1-130328-R118094** Units: **mg/L** Analysis Date: **3/28/2013 05:10 PM**
Client ID: Run ID: **TDS_130328A** SeqNo: **2253804** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	U	10								

LCS Sample ID: **WLCSW1-130328-R118094** Units: **mg/L** Analysis Date: **3/28/2013 05:10 PM**
Client ID: Run ID: **TDS_130328A** SeqNo: **2253803** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	479	10	495	0	96.8	80-120	0			

DUP Sample ID: **1303824-01ADUP** Units: **mg/L** Analysis Date: **3/28/2013 05:10 PM**
Client ID: Run ID: **TDS_130328A** SeqNo: **2253784** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	1979	10	0	0	0	0-0	1978	0.0505	20	

DUP Sample ID: **1303899-01CDUP** Units: **mg/L** Analysis Date: **3/28/2013 05:10 PM**
Client ID: Run ID: **TDS_130328A** SeqNo: **2253790** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	657	10	0	0	0	0-0	648	1.38	20	

The following samples were analyzed in this batch: 1303837-01D

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

ALS Environmental

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 3 of 3

COC ID: 69739

1303837

ALS Project Manager: | ALS Work Order #: ~~1303837~~ KW

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Municipal Farm Animal Shelter	A	TCL Volatiles with GRO (C6-C10), % Moisture
Work Order		Project Number	9004.06.0002.015.022	B	Svols, DRO (C10-C21), ORO (C21-C35), Pest & Herb
Company Name	Tetra Tech	Bill To Company	Tetra Tech	C	Priority Pollutant Metals-Total
Send Report To	Emily Fisher	Invoice Attn	Emily Fisher	D	Priority Pollutant Metals-Dissolved
Address	415 Oak Street	Address	415 Oak Street	E	RCRA 8 Metals-Dissolved
				F	RCRA 8 Metals-Total
City/State/Zip	Kansas City, MO 64106	City/State/Zip	Kansas City, MO 64106	G	Lead Only
Phone	(816) 412-1755	Phone	(816) 412-1755	H	Grain Size ASTM D422-No Hydrometer
Fax	(816) 410-1748	Fax	(816) 410-1748	I	TDS
e-Mail Address		e-Mail Address		J	Project Specific MS/MSD on this sample point

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
~~13~~ 1	(-1) GW-2	3-22-13	1440	H_2O		9	X	X		X					X		
~~14~~ 2	(-2) SS-1	3-22-13	1347	Soil		7	X	X	X								
~~15~~ 3	(-3) SS-2	3-22-13	1535	Soil		7	X	X	X								
~~16~~ 4	(-4) SS-3	3-22-13	1405	Soil		7	X	X	X								
~~17~~ 5	(-5) SS-4	3-22-13	1600	Soil		7	X	X	X								
~~18~~ 6	(-6) SB-7 (9-11')	3-22-13	1640	Soil		1								X			
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Danny O'Connor

Shipment Method: Fedex

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:		Date: 3-25-13	Time: 1000	Received by: FEDEx
Relinquished by: FEDEx		Date: 3/26/13	Time: 0930	Received by (Laboratory):
Logged by (Laboratory): YR		Date: 3/26/13	Time: 1215	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **TETRATECH - MO** Date/Time Received: **26-Mar-13 09:30**

Work Order: **1303837** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 26-Mar-13 (Date) Reviewed by: Ann Preston (eSignature) 26-Mar-13 (Date)

Matrices: Soil & Water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.8 - 9.0 C		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	3/26/2013 2:30:44 PM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

eurofins | Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Tetra Tech, Inc.
415 Oak Street
Kansas City MO 64106

April 12, 2013

Project: KC Municipal Farms Site, Kansas City, KS

Submittal Date: 03/29/2013
Group Number: 1379124
PO Number: 1093415
State of Sample Origin: MO

Client Sample Description	Lancaster Labs (LLI) #
SS-1 Composite Soil	7002408
SS-2 Composite Soil	7002409
SS-3 Composite Soil	7002410
SS-4 Composite Soil	7002411

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Tetra Tech	Attn: Kaitlyn Bahr
ELECTRONIC COPY TO	Tetra Tech	Attn: Emily Fisher
ELECTRONIC COPY TO	Tetra Tech, Inc.	Attn: Dave Zimmermann

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: SS-1 Composite Soil
KC Municipal Farms - Animal Shelter

LLI Sample # SW 7002408
LLI Group # 1379124
Account # 14738

Project Name: KC Municipal Farms Site, Kansas City, KS

Collected: 03/22/2013 13:47 by DO

Submitted: 03/29/2013 09:45
Reported: 04/12/2013 14:00

Tetra Tech, Inc.
415 Oak Street
Kansas City MO 64106

KCSS1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
LC/MS/MS	**SW-846 8321B**		**ug/kg**	**ug/kg**	**ug/kg**	
Miscellaneous	**modified**					
12764	Warfarin	81-81-2	N.D.	6.8	14	1
	Samples are field collected in glass containers, and preserved within 48 hours. An aliquot of the methanolic extract of the sample is diluted in reagent water and purged at ambient temperature with helium.					
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	26.2	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.5C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.1-9.1C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12764	Warfarin by SW-846 8321B Mod.	SW-846 8321B modified	1	13094002	04/11/2013 17:01	Meng Yu	1
00111	Moisture	SM 2540 G-1997	1	13091820004B	04/01/2013 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: SS-2 Composite Soil
KC Municipal Farms - Animal Shelter

LLI Sample # SW 7002409
LLI Group # 1379124
Account # 14738

Project Name: KC Municipal Farms Site, Kansas City, KS

Collected: 03/22/2013 15:35 by DO

Submitted: 03/29/2013 09:45
Reported: 04/12/2013 14:00

Tetra Tech, Inc.
415 Oak Street
Kansas City MO 64106

KCSS2

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
LC/MS/MS	**SW-846 8321B**		**ug/kg**	**ug/kg**	**ug/kg**	
Miscellaneous	**modified**					
12764	Warfarin	81-81-2	N.D.	7.2	14	1
	Samples are field collected in glass containers, and preserved within 48 hours. An aliquot of the methanolic extract of the sample is diluted in reagent water and purged at ambient temperature with helium.					
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	30.1	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.5C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.1-9.1C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12764	Warfarin by SW-846 8321B Mod.	SW-846 8321B modified	1	13094002	04/11/2013 16:45	Meng Yu	1
00111	Moisture	SM 2540 G-1997	1	13091820004B	04/01/2013 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: SS-3 Composite Soil
KC Municipal Farms - Animal Shelter

LLI Sample # SW 7002410
LLI Group # 1379124
Account # 14738

Project Name: KC Municipal Farms Site, Kansas City, KS

Collected: 03/22/2013 14:05 by DO

Submitted: 03/29/2013 09:45
Reported: 04/12/2013 14:00

Tetra Tech, Inc.
415 Oak Street
Kansas City MO 64106

KCSS3

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
LC/MS/MS	**SW-846 8321B**		**ug/kg**	**ug/kg**	**ug/kg**	
Miscellaneous	**modified**					
12764	Warfarin	81-81-2	N.D.	6.6	13	1
	Samples are field collected in glass containers, and preserved within 48 hours. An aliquot of the methanolic extract of the sample is diluted in reagent water and purged at ambient temperature with helium.					
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	24.1	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.5C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.1-9.1C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12764	Warfarin by SW-846 8321B Mod.	SW-846 8321B modified	1	13094002	04/11/2013 17:06	Meng Yu	1
00111	Moisture	SM 2540 G-1997	1	13091820004B	04/01/2013 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: SS-4 Composite Soil
KC Municipal Farms - Animal Shelter

LLI Sample # SW 7002411
LLI Group # 1379124
Account # 14738

Project Name: KC Municipal Farms Site, Kansas City, KS

Collected: 03/22/2013 16:00 by DO

Submitted: 03/29/2013 09:45
Reported: 04/12/2013 14:00

Tetra Tech, Inc.
415 Oak Street
Kansas City MO 64106

KCSS4

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
LC/MS/MS	**SW-846 8321B**		**ug/kg**	**ug/kg**	**ug/kg**	
Miscellaneous	**modified**					
12764	Warfarin	81-81-2	N.D.	6.5	13	1
	Samples are field collected in glass containers, and preserved within 48 hours. An aliquot of the methanolic extract of the sample is diluted in reagent water and purged at ambient temperature with helium.					
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	23.1	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.5C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.1-9.1C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12764	Warfarin by SW-846 8321B Mod.	SW-846 8321B modified	1	13094002	04/11/2013 17:12	Meng Yu	1
00111	Moisture	SM 2540 G-1997	1	13091820004B	04/01/2013 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Tetra Tech, Inc. Group Number: 1379124
Reported: 04/12/13 at 02:00 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 13094002	Sample number(s): 7002408-7002411								
Warfarin	N.D.	5.0	10	ug/kg	110		50-130		
Batch number: 13091820004B	Sample number(s): 7002408-7002411								
Moisture					100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 13094002	Sample number(s): 7002408-7002411 UNSPK: 7002409								
Warfarin	64	42*	50-130	41*	30				
Batch number: 13091820004B	Sample number(s): 7002408-7002411 BKG: 7002411								
Moisture						23.1	23.6	2	13

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # ~~14578~~ 14738 (3) AC 4/1/13

For Eurofins Lancaster Laboratories use only
Group # 1379124 Sample # 7002408-11
Instructions on reverse side correspond with circled numbers.

COC # 328987

(1) Client Information

Client: Tetra Tech - Kansas City	Acct. #:
Project Name/#: 9004.06.0002.015.022	PWSID #:
Project Manager: Dave Zimmermann	P.O. #: 109345
Sampler: Danny O'Connor	Quote #:

Name of state where samples were collected: KC Municipal Farms - Animal Shelter

(4) Matrix

Sediment ☐ | Soil ☒ | Water: Ground ☐ Potable ☐ Surface ☐ NPDES ☐ | Other: ☐

(5) Analysis Requested

Preservation Codes

For Lab Use Only

FSC: 13ellis
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

(6) Remarks

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	(3) Composite	Soil	Water	Other	Total # of Containers	Warfarin + Diphacinone LCMSMS
SS-1	3.22.13	1347		X	X			1	X
SS-2	3.22.13	1535		X	X			1	X
SS-3	3.22.13	1405		X	X			1	X
SS-4	3.22.13	1600		X	X			1	X

Danny O. 3-28-13

(7) Turnaround Time (TAT) Requested (please circle)

(Standard) Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: _____

E-mail address: dave.zimmermann@tetratech.com

(8) Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	3/28/13	15:15			
[signature]	3-28-13	1200			
			[signature]	3.29.13	945

(9)

EDD Required? Yes (No)
If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes (No)
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx X Other _____

Temperature upon receipt 8.5 °C 9.1 - 8.9

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

APPENDIX E

TABLES

TABLE E-1

SUMMARY OF SURFACE SOIL AND GROUNDWATER SAMPLES COLLECTED DURING PHASE II TBA ACTIVITIES
MUNICIPAL FARMS ANIMAL SHELTER SITE
4400 RAYTOWN ROAD, KANSAS CITY, MISSOURI

Sample Number	Sample Description	Sample Type	Sample Analyses
SS-1	Surface soil from southeast side of building near exterior dog kennels from 0-6 inches bgs	Soil	VOCs, SVOCs, Priority Pollutant Metals, TPH-GRO, TPH-DRO, TPH-ORO, Pesticides, Herbicides, Warfarin
SS-2	Surface soil from south side of kennel area of building from 0-6 inches bgs	Soil	VOCs, SVOCs, Priority Pollutant Metals, TPH-GRO, TPH-DRO, TPH-ORO, Pesticides, Herbicides, Warfarin
SS-3	Surface soil from southwest side of subject property from 0-6 inches bgs	Soil	VOCs, SVOCs, Priority Pollutant Metals, TPH-GRO, TPH-DRO, TPH-ORO, Pesticides, Herbicides, Warfarin
SS-4	Surface soil from northeast side of subject property in wood area from 0-6 inches bgs	Soil	VOCs, SVOCs, Priority Pollutant Metals, TPH-GRO, TPH-DRO, TPH-ORO, Pesticides, Herbicides, Warfarin
SB-7	Soil classification from northeast side of subject property in wood area from 9 to 11 feet bgs	Soil	Soil type classification
GW-2	Groundwater from north side of subject property from 28 to 32 feet bgs	Groundwater	VOCs, SVOCs, dissolved Priority Pollutant Metals, TPH-GRO, TPH-DRO, TPH-ORO, Pesticides, Herbicides, TSS

Notes:

bgs	Below ground surface
DRO	Diesel range organics
GRO	Gasoline range organics
ORO	Oil range organics
NCMRWC	North Central Missouri Regional Water Commission
PCB	Polychlorinated biphenyl
SVOC	Semivolatile organic compound
TPH	Total petroleum hydrocarbons
TSS	Total suspended solids
VOC	Volatile organic compound

TABLE E-2

SUMMARY OF VOC ANALYSIS OF SURFACE SOIL SAMPLES
MUNICIPAL FARMS - ANIMAL SHELTER, JACKSON COUNTY, MISSOURI

Analyte	Screening Values (mg/kg)				Sample ID (mg/kg)			
	EPA RSL Residential	EPA RSL Industrial	MRBCA Tier 1 Clay Soil Residential	MRBCA Tier 1 Clay Soil Non-residential	SS-1	SS-2	SS-3	SS-4
2-Butanone	28,000	200,000	44200	579000	0.050	0.051	0.026	0.023
Carbon disulfide	820	3700	7,290	95,600	0.00076 J	0.00049 J	0.00057 J	0.00045 J
Chloroform	0.29	1.5	180	678	0.00065 J	0.0008 J	0.00053 J	0.00049 J
Methylene chloride	56	960	842	3,700	0.00091 J	0.0009 J	0.00075 J	0.0001 J

Notes

EPA	U. S. Environmental Protection Agency
ID	Identification
J	Analyte detected below quantitation limit
mg/kg	Milligrams per kilogram
MRBCA	Missouri risk-based corrective action
RSL	Regional screening level

TABLE E-3

SUMMARY OF SVOC ANALYSIS OF SURFACE SOIL SAMPLES
MUNICIPAL FARMS - ANIMAL SHELTER, JACKSON COUNTY, MISSOURI

Analyte	Screening Values (mg/kg)				Sample ID (mg/kg)			
	EPA RSL Residential	EPA RSL Industrial	MRBCA Tier 1 Clay Soil Residential	MRBCA Tier 1 Clay Soil Non-Residential	SS-1	SS-2	SS-3	SS-4
TPH-DRO	-	-	140,000	1,410,000	26	23	15	27
TPH-ORO	-	-	124,000	1,250,000	110	96	33	47
Acenaphthylene	-	-	4,390	54,100	ND	0.026 J	ND	ND
Anthracene	17,000	170,000	16,400	154,000	ND	0.034 J	ND	ND
Benzo(a)anthracene	0.15	2.1	6	21.1	0.029 J	0.130	ND	ND
Benzo(a)pyrene	0.02	0.21	0.62	2.11	**0.025 J**	**0.150**	ND	ND
Benzo(b)fluoranthene	0.15	2.1	6.2	21.1	0.044	**0.500**	ND	ND
Benzo(g,h,i)perylene	-	-	1,720	16,500	ND	0.069	ND	ND
Benzo(k)fluoranthene	1.5	21	62	211	ND	0.085	ND	ND
Bis(2-ethylhexyl)phthalate	35	120	347	1,230	0.053 J	0.071 J	0.033 J	ND
Butyl benzyl phthalate	260	910	12,200	123,000	ND	0.140 J	ND	ND
Chrysene	15	210	608	2,040	0.036 J	0.190	ND	ND
Fluoranthene	2300	22,000	2,280	21,900	0.051	0.220	ND	0.024 J
Indeno (1,2,3-cd)pyrene	0.15	2	3.77	12.8	ND	0.067	ND	ND
Phenanthrene	-	-	2,250	28,200	ND	0.084	ND	ND
Pyrene	1,700	17,000	1,710	16,400	0.041	0.200	ND	ND

Notes

Bold value indicates result is greater than a benchmark value.

DRO	Diesel range organics
EPA	U.S. Environmental Protection Agency
ID	Identification
J	Analyte detected below quantitation limit
mg/kg	Milligrams per kilogram
MRBCA	Missouri risk-based corrective action
ND	Not detected
ORO	Oil range organics
RSL	Regional screening level
TPH	Total petroleum hydrocarbons

TABLE E-4

SUMMARY OF METALS ANALYSIS OF SURFACE SOIL SAMPLES
MUNICIPAL FARMS - ANIMAL SHELTER, JACKSON COUNTY, MISSOURI

Analyte	Screening Values (mg/kg)					Sample ID (mg/kg)			
	EPA RSL Residential	EPA RSL Industrial	MRBCA Tier 1 Clay Soil Residential	MRBCA Tier 1 Clay Soil Non-Residential	USGS Background Concentrations	SS-1	SS-2	SS-3	SS-4
Mercury	10	43	46.3	630	0.016	0.047	0.11	0.038	0.054
Antimony	31	410	30.4	383		0.58	1.2	0.53	0.54
Arsenic	0.39	1.6	3.89	15.9	16.603	**6.4**	**6.1**	**4.4**	**7.2**
Beryllium	160	2,000	1	3.19	-	0.5	0.52	0.47	0.51
Cadmium	70	800	16.8	74.8	-	0.62	1.7	0.81	0.85
Chromium	120,000	1,500,000	74,600	472,000	-	17	21	17	18
Copper	3,100	41,000	3,040	38,100	20.064	16	20	27	15
Lead	400	800	260	660	40.96	37	80	21	41
Nickel	3,700	44,000	1,510	18,600		23	28	21	23
Selenium	390	5,100	380	4,780	0.499	1.2	1.5	0.96	1.2
Silver	390	5,100	374	4,480		0.068 J	0.17 J	0.079 J	0.072 J
Thallium	0.78	10	6.09	76.7	-	0.26 J	0.29 J	0.2 J	0.27J
Zinc	23,000	310,000	22,800	288,000	90.924	74	150	87	95

Notes

Bold value indicates result is greater than a benchmark value.

EPA	U.S. Environmental Protection Agency
ID	Identification
J	Analyte detected below quantitation limit
mg/kg	Milligrams per kilogram
MRBCA	Missouri risk-based corrective action
RSL	Regional screening level
USGS	United States Geological Survey

TABLE E-5

SUMMARY OF PESTICIDE ANALYSIS OF SOIL SAMPLES
MUNICIPAL FARMS - ANIMAL SHELTER, JACKSON COUNTY, MISSOURI

Analyte	Screening Values (mg/kg)				Sample ID (mg/kg)			
	EPA RSL Residential	EPA RSL Industrial	MRBCA Tier 1 Clay Soil Residential	MRBCA Tier 1 Clay Soil Non-Residential	SS-1	SS-2	SS-3	SS-4
4,4'-DDD	2	7.2	14.3	71.8	U	0.073	U	U
4,4'-DDE	1.4	5.1	20.2	50.7	U	0.170	U	U
4,4'-DDT	1.7	7	14.3	50.7	U	0.290	U	U

Notes:

DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethene
DDT	Dichlorodiphenyltrichloroethane
EPA	U.S. Environmental Protection Agency
ID	Identification
mg/kg	Milligrams per kilogram
MRBCA	Missouri risk-based corrective action
RSL	Regional screening level
U	Analyte not detected above method detection limit

TABLE E-6

SUMMARY OF METALS ANALYSIS OF GROUNDWATER SAMPLES
MUNICIPAL FARMS - ANIMAL SHELTER, JACKSON COUNTY, MISSOURI

Analyte	Screening Values (µg/L)			Sample ID (µg/L)
	EPA RSL	MRBCA Tier 1 Clay Soil Residential	MRBCA Tier 1 Clay Soil Non-Residential	GW-2
Antimony	6	2,230	12,400	0.097 J
Cadmium	5	625	2,280	0.20 J
Chromium	100	2.83	10.3	0.37 J
Lead	15	-	-	0.075J
Nickel	-	559,000	3,100,000	8.6
Selenium	50	27,900	15,500	2.0 J
Zinc	-	4,690	15,500,000	3.8 J

Notes

Bold value indicates result is greater than a benchmark value.

EPA	U.S. Environmental Protection Agency
ID	Identification
J	Analyte detected below quantitation limit
µg/L	Micrograms per liter
MRBCA	Missouri risk-based corrective action
RSL	Regional screening level

TABLE E-7

SUMMARY OF SUSPECT ACM LABORATORY ANALYSIS
MUNICIPAL FARMS ANIMAL SHELTER SITE
4400 RAYTOWN ROAD, KANSAS CITY, MISSOURI

Sample ID	Material Description	Material Locations	Analytical Result (% ACM*)	Quantity	Friable
AS-1-CR-FT-1	12 X 12 Tan/Marble Floor Tile	Free Roaming Cat Room, Caged Cat Room, Office	ND	NA	No
AS-1-CR-FT-2	12 X 12 Tan/Marble Floor Tile	Free Roaming Cat Room, Caged Cat Room, Office	ND	NA	No
AS-1-CR-FT-3	12 X 12 Tan/Marble Floor Tile	Free Roaming Cat Room, Caged Cat Room, Office	ND	NA	No
AS-1-CR-DWJC-1	Drywall/Joint Compound	Throughout	ND	NA	No
AS-1-CA-DWJC-2	Drywall/Joint Compound	Throughout	ND	NA	No
AS-1-CA-DWJC-3	Drywall/Joint Compound	Throughout	ND	NA	No
AS-1-CR-CT-1	2 X 4 (2 X 2) Fizzured/Pinhole Ceiling Tile	Throughout	ND	NA	Yes
AS-1-CA-CT-2	2 X 4 (2 X 2) Fizzured/Pinhole Ceiling Tile	Throughout	ND	NA	Yes
AS-1-CA-CT-3	2 X 4 (2 X 2) Fizzured/Pinhole Ceiling Tile	Throughout	ND	NA	Yes
AS-1-CR-CBM-1	Cove Base Mastic (4" Brown)	Throughout Office and Cat Areas	ND	NA	No
AS-1-CR-CBM-2	Cove Base Mastic (4" Brown)	Throughout Office and Cat Areas	ND	NA	No
AS-1-CR-CBM-3	Cove Base Mastic (4" Brown)	Throughout Office and Cat Areas	ND	NA	No
AS-1-CR-FT2-1	**12 X 12 Floor Tile (older tan)**	**Bathrooms, Throughout Office and Cat Area, Reception**	**ND-Floor Tile 6% - Chry - Mastic**	**2,200 sq. ft.**	**No**
AS-1-R-FT2-2	**12 X 12 Floor Tile (older tan)**	**Bathrooms, Throughout Office and Cat Area, Reception**			**No**
AS-1-HW-FT2-3	**12 X 12 Floor Tile (older tan)**	**Bathrooms, Throughout Office and Cat Area, Reception**			**No**

TABLE E-7 (Continued)

SUMMARY OF SUSPECT ACM LABORATORY ANALYSIS
MUNICIPAL FARMS ANIMAL SHELTER SITE
4400 RAYTOWN ROAD, KANSAS CITY, MISSOURI

Sample ID	Material Description	Material Locations	Analytical Result (% ACM*)	Quantity	Friable
AS-1-CR-PLSC-1	Skim Coat over Concrete	Throughout Exterior Walls	ND	NA	No
AS-1-CA-PLSC-2	Skim Coat over Concrete	Throughout Exterior Walls	ND	NA	No
AS-1-CA-PLSC-3	Skim Coat over Concrete	Throughout Exterior Walls	ND	NA	No
AS-1-OF-FT3-1	12 X 12 Light Marble Floor Tile	Office	ND	70 sq. ft.	No
AS-1-OF-FT3-2	12 X 12 Light Marble Floor Tile	Office	ND	NA	No
AS-1-OF-FT3-3	12 X 12 Light Marble Floor Tile	Office	ND	NA	No
AS-1-CA-CBM2-1	Cove Base Mastic (4" light brown)	Clinic Side of Building	ND	NA	No
AS-1-CA-CBM2-2	Cove Base Mastic (4" light brown)	Clinic Side of Building	ND	NA	No
AS-1-CA-CBM2-3	Cove Base Mastic (4" light brown)	Clinic Side of Building	ND	NA	No
AS-1-CD-CT2-1	**Transite® Ceiling Tile (Holes)**	**Caged Dog Room and Behavior Observation Room on Clinic Side of Building**	**25% - Chry**	**400 sq. ft.**	**No**
AS-1-CD-CT2-2	**Transite® Ceiling Tile (Holes)**	**Caged Dog Room and Behavior Observation Room on Clinic Side of Building**			**No**
AS-1-CD-CT2-3	**Transite® Ceiling Tile (Holes)**	**Caged Dog Room and Behavior Observation Room on Clinic Side of Building**			**No**
AS-1-SR-FT4-1	**Floor Tile**	**Behavior Observation Room**	**3% - Chry - Floor Tile 5% - Chry - Mastic**	**180 sq. ft.**	**No**
AS-1-SR-FT4-2	**Floor Tile**	**Behavior Observation Room**			**No**
AS-1-SR-FT4-3	**Floor Tile**	**Behavior Observation Room**			**No**

TABLE E-7 (Continued)

SUMMARY OF SUSPECT ACM LABORATORY ANALYSIS
MUNICIPAL FARMS ANIMAL SHELTER SITE
4400 RAYTOWN ROAD, KANSAS CITY, MISSOURI

Sample ID	Material Description	Material Locations	Analytical Result (% ACM*)	Quantity	Friable
AS-1-CA-SU-1	Grey Sink Undercoat	Clinic	ND	1 Sink	No
AS-1-CA-SU-2	Grey Sink Undercoat	Clinic	ND	NA	No
AS-1-CA-SU-3	Grey Sink Undercoat	Clinic	ND	NA	No
AS-EXT-WC-1	Window Caulking	Exterior	ND	NA	No
AS-EXT-WC-2	Window Caulking	Exterior	ND	NA	No
AS-EXT-WC-3	Window Caulking	Exterior	ND	NA	No
AS-EXT-WG-1	Window Glazing	Exterior	ND	NA	No
AS-EXT-WG-2	Window Glazing	Exterior	ND	NA	No
AS-EXT-WG-3	Window Glazing	Exterior	ND	NA	No
AS-EXT-C-1	Caulk	Exterior Building Seams	ND	NA	No
AS-EXT-C-2	Caulk	Exterior Building Seams	ND	NA	No
AS-EXT-C-3	Caulk	Exterior Building Seams	ND	NA	No
AS-B-TSI-1	TSI	Basement Elbows	ND	NA	No
AS-B-TSI-2	TSI	Basement Elbows	ND	NA	No
AS-B-TSI-3	TSI	Basement Elbows	ND	NA	No
AS-EXT-RM-1	Roof Material	Exterior	ND	NA	No
AS-EXT-RM-2	Roof Material	Exterior	ND	NA	No
AS-EXT-RM-3	Roof Material	Exterior	ND	NA	No
AS-EXT-WC-D	Window Caulk Duplicate Sample	Exterior	ND	NA	No
AS-1-OF-FT3-D	12 X 12 Light Marble Floor Tile Duplicate Sample	Office	ND	NA	No
AS-1-CR-CBM-D	Cove Base Mastic (4” Brown) Duplicate Sample	Throughout Office and Cat Areas	ND	NA	No
AS-1-CA-CBM2-D	Cove Base Mastic (4” light brown) Duplicate Sample	Clinic Side of Building	ND	NA	No

Notes:

*AHERA defines ACM as any material or product that contains more than 1 percent asbestos.

%	Percent
”	Inches
ACM	Asbestos-containing material
AHERA	Asbestos Hazard and Emergency Response Act of 1986
Chry	Chrysotile asbestos
ID	Identification
NA	Not applicable
ND	Not detected
sq. ft.	Square feet
TSI	Thermal system insulation

TABLE E-8

SUMMARY OF LBP SCREENING
MUNICIPAL FARMS ANIMAL SHELTER SITE
4400 RAYTOWN ROAD, KANSAS CITY, MISSOURI

Sample No.	Paint Color	Room	Component	Substrate	XRF Reading (mg/cm^2)	Damaged*	Confirmation Paint Chip Sample ID	Laboratory Analytical Result (mg/cm^2)	Quantity
1	Purple	Reception	Wall	Drywall	0.00	No	NA	NA	NA
2	Yellow	Reception	Wall	Drywall	0.00	No	NA	NA	NA
3	Black	Reception	Door Frame	Metal	0.00	No	NA	NA	NA
4	Green	Hallway	Wall	Drywall	0.00	No	NA	NA	NA
5	Blue/Purple	Caged Cat Room	Wall	Drywall	0.00	No	NA	NA	NA
6	Beige	Caged Cat Room	Door Frame	Metal	0.00	No	NA	NA	NA
7	Blue	Caged Cat Room Closet	Wall	Concrete	0.00	No	NA	NA	NA
8	Blue	Caged Cat Room	Wall	Drywall	0.00	No	NA	NA	NA
9	Yellow	Bathrooms	Wall	Drywall	0.00	No	NA	NA	NA
10	Brown	Hallway to Clinic	Door	Metal	0.00	No	NA	NA	NA
11	Brown	Hallway to Clinic	Door Frame	Metal	0.00	No	NA	NA	NA
12	Green	Hallway in Clinic Area	Wall	Cinderblock	0.00	No	NA	NA	NA
13	White	Behavior Observation Room	Wall	Cinderblock	0.00	No	NA	NA	NA
14	Yellow	Behavior Observation Room	Wall	Cinderblock	0.00	No	AS-LBP4	<0.00796	NA
15	Light Purple	Caged Dog Room	Wall	Drywall	0.00	No	NA	NA	NA
16	Light Green	Caged Dog Room	Wall	Drywall	0.00	No	NA	NA	NA
17	Blue	Caged Dog Room	Wall	Drywall	0.00	No	NA	NA	NA
18	Tan	Hallway by Clinic	Wall	Cinderblock	0.00	No	NA	NA	NA
19	Beige	Hallway by Clinic	Wall	Drywall	0.00	No	NA	NA	NA
20	Grey	Hallway by Clinic	Floor	Concrete	0.00	No	NA	NA	NA
21	White	Clinic	Wall	Concrete	0.00	No	NA	NA	NA
22	Red/Brown	Clinic	Floor	Concrete	0.00	No	NA	NA	NA
23	Green	Clinic	Wall	Concrete	0.00	No	NA	NA	NA
24	Turquoise	Kennel	Wall	Concrete	0.00	No	NA	NA	NA

TABLE E-8 (Continued)

SUMMARY OF LBP SCREENING
MUNICIPAL FARMS ANIMAL SHELTER SITE
4400 RAYTOWN ROAD, KANSAS CITY, MISSOURI

Sample No.	Paint Color	Room	Component	Substrate	XRF Reading (mg/cm^2)	Damaged*	Confirmation Paint Chip Sample ID	Laboratory Analytical Result (mg/cm^2)	Quantity
25	Light Blue	Kennel	Wall	Concrete	0.00	No	NA	NA	NA
26	Grey	Kennel	Floor	Concrete	0.00	No	AS-LBP3	<0.00844	NA
27	**Dark Turquoise**	**Kennel**	**Support Beam**	**Metal**	**3.2**	**No**	**NA**	**NA**	**250 sq. ft.**
28	Turquoise	Kennel	Door	Metal	0.00	No	NA	NA	NA
29	Brick Red	Garage	Support Beams	Metal	0.00	No	NA	NA	NA
30	Pink/Purple	Garage	Door	Metal	0.00	No	NA	NA	NA
31	Tan	Garage	Door	Metal	0.00	No	NA	NA	NA
32	Grey	Exterior	Window Panel	Metal	0.00	No	AS-LBP2	0.103	NA
33	Grey	Exterior	Wall	Concrete	0.00	No	NA	NA	NA
34	Grey	Exterior	Support Beams	Metal	0.00	No	AS-LBP1	<0.0169	NA
35	Green/Teal	Basement	Wall	Drywall	0.00	No	NA	NA	NA
36	Green/Teal	Basement	Door Frame	Wood	0.00	No	NA	NA	NA
37	Light Blue	Basement	Wall	Concrete	0.00	No	NA	NA	NA
38	Purple	Basement	Wall	Concrete	0.00	No	NA	NA	NA
39	Yellow	Basement	Wall	Concrete	0.00	No	NA	NA	NA

Notes:

Bolded result indicates positive identification of LBP (>1 mg/cm^2).

* This column describes identified LBP surfaces that are damaged. If no damage is present prior to renovation activities, preliminary removal of chipping and peeling paint is not necessary prior to the encapsulation process.

>	Greater than
<	Less than laboratory reporting limit
mg/cm^2	Milligrams per square centimeter
ID	Identification
LBP	Lead-based paint
NA	Not applicable
No.	Number
sq. ft.	Square feet
XRF	X-ray fluorescence

APPENDIX F

PROPERTY PROFILE FORMS

United States
ENVIRONMENTAL PROTECTION AGENCY
Washington, DC 20460

Form Approved
OMB Number No. 2050-0192
Expires 07-31-2012

PROPERTY PROFILE FORM—Brownfields

PART I- PROPERTY INFORMATION

COOPERATIVE AGREEMENT RECIPIENT INFORMATION

1. Cooperative Agreement Recipient Name (State/Tribe for Section 128(a) Cooperative Agreements; requestor/contractor for TBAs):

City of Kansas City, Missouri

2. Cooperative Agreement Number (contract number for TBAs):

3. What type of cooperative agreement funding is being used for this property?

- ☐ Assessment
- ☐ Section 128(a) – State and Tribal Response
- ☐ Revolving Loan Fund
- ☑ TBA (EPA Regions Only)
- ☐ Cleanup

4. For Assessment, Cleanup, and Revolving Loan Fund cooperative agreements, what type of funding is being used at this property?

- ☐ Hazardous Substance
- ☐ Petroleum
- ☐ Both

5a. Indicate if this form is the initial or Updated Form:

- ☑ Initial Form
- ☐ Updated Form

5b. If "Updated Form," what's the ACRES Property ID?

PROPERTY BACKGROUND INFORMATION

6. Property Name: Municipal Farms - Animal Shelter Site

7a. Street Address: 4400 Raytown Road

7b. City: Kansas City

7c. County: **Jackson**

7d. State: **MO**

7e. Zip code:

8. Size (in acres): 1.90

9. Parcel Number(s):

STATE & TRIBAL BROWNFIELDS/VOLUNTARY RESPONSE PROGRAM INFORMATION

10. State & Tribal Program Enrollment (If the property is not enrolled in a state program, check Property Not Enrolled check box):

Date of Enrollment:

ID Number (if applicable):

☑ Property Not Enrolled in a State or Tribal Program

PROPERTY GEOGRAPHIC INFORMATION *(EPA Brownfields Program, or its contractors, will provide complete latitude/longitude information if cooperative agreement recipients are unable)*

11a. Latitude (use 00.000000 decimal degree format):

39.044482

11b. Longitude (use -000.000000 decimal degree format):

-94.493607

11c. Horizontal Collection Method:

Address Matching- Primary Name

11d. Source Map Scale Number (Only if a map/photo was used):

11e. Reference Point (e.g., Center of Facility or Station):

Center of a Facility or Station

11f. Horizontal Reference Datum (Choose one):

- ☐ NAD27-North American Datum of 1927
- ☐ WGS84-World Geodetic System of 1984
- ☑ NAD83-North American Datum of 1983

PART II- ENVIRONMENTAL ACTIVITIES

ENVIRONMENTAL ASSESSMENT INFORMATION *(mandatory for Assessment Cooperative Agreements, State & Tribal Property-Specific Assessments, and TBAs; as available for Cleanup and RLF cooperative agreement recipients; CA = Cooperative Agreement)*

Table A – Environmental Assessment Activity (If there are multiple assessments, please use a separate line for each assessment)

Environmental Assessment Detail			Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this						
Activity	Start Date	Completion Date	This US EPA CA	Other Federal	State/Tribal (exclude §128(a) funds)	Local Gov't	Private/ Other	Name of Entity Providing Funds	Amount of Funding Expended on this Activity
Phase I	10/19/2012	12/18/2012	☑	☐	☐	☐	☐		
Phase II	10/19/2012	4/25/2013	☑	☐	☐	☐	☐		
			☐	☐	☐	☐	☐		

12. Indicate whether cleanup is required: ☐ Yes ☐ No ☑ Unknown

CONTAMINANTS & MEDIA AFFECTED INFORMATION *(mandatory for all cooperative agreement types)*

Table B - Contaminants and Media Affected (check all that apply):

Contaminants

Class of Contaminant	REC*	Found	Cleaned Up
Petroleum/Petroleum Products	☐	☐	☐
Controlled Substances	☐	☐	☐
Asbestos	☐	☐	☐
PCBs	☐	☐	☐
VOCs	☐	☐	☐
Lead	☐	☐	☐
Other Metals	☐	☐	☐
PAHs	☐	☐	☐
Other Contaminants	☐	☐	☐
No Contaminants	☐		
Unknown	☑		

Media

Media	Affected	Cleaned Up
Soil	☐	☐
Air	☐	☐
Surface Water	☐	☐
Ground Water	☐	☐
Drinking Water	☐	☐
Sediments	☐	☐
No Media Affected	☐	
Unknown	☑	

*REC = Recognized Environmental Conditions

ENVIRONMENTAL CLEANUP INFORMATION *(mandatory for Cleanup and RLF Cooperative Agreements and State & Tribal Property-Specific Cleanups; as available for Assessment Cooperative Agreements and TBAs)*

13. Cleanup Activity Start Date: _____

14. Cleanup Activity Completion Date: _____

15. Acres Cleaned Up: _____

16. Date No Further Action/Cleanup Completion Document Issued
(If the property was not enrolled in a state or tribal program, leave blank): Date: _____

17. Number of Cleanup Jobs Leveraged: _____

18. If EPA Brownfields funding was used, indicate the type and amount (If any non-EPA funding was used, fill out Table C):

Type	Amount	Type	Amount
☐ Cleanup Cooperative Agreement	_____	☐ RLF Subgrant	_____
☐ RLF Loan	_____ Date RLF Loan Signed _____	☐ Section 128(a) State/Tribal Cooperative Agreement	_____

Table C - Environmental Cleanup Leveraged Funding Detail

Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this EPA Cooperative Agreement)					
Other Federal	State/Tribal (exclude §128(a) funds)	Local Gov't	Private/ Other	Name of Entity Providing Funds	Amount of Funding Expended on this Activity
☐	☐	☐	☐		
☐	☐	☐	☐		
☐	☐	☐	☐		

PART II- ENVIRONMENTAL ACTIVITIES (continued)

INSTITUTIONAL & ENGINEERING CONTROLS INFORMATION *(mandatory for all cooperative agreement types)*

19a. Indicate whether Institutional Controls are required: ☐ Yes ☐ No ☐ Unknown

19b. If Institutional Controls were required, indicate the category (check all that apply):

☐ Proprietary Controls (e.g., easements, covenants)
☐ Governmental Controls (e.g., zoning, building codes)
☐ Informational Devices (e.g., state registries, deed notices)
☐ Enforcement/Permit Tools (e.g., permits, consent decrees)

Additional Institutional Controls Information:

Address of Data Source (URL if available): _____

19c. Indicate whether Institutional Controls in place: ☐ Yes ☐ No Date: _____

20a. Indicate whether Engineering Controls are required: ☐ Yes ☐ No ☐ Unknown

20b. If Engineering Controls were required, indicate the category (check all that apply):

☐ Cover Technologies (e.g., Capping)
☐ Immobilization Process (e.g., Encapsulation, In-Situ Solidification)
☐ Engineered Barriers (e.g., Slurry Walls, Sheet)
☐ Security (e.g., Guard, Fences)
☐ Other _____

Additional Engineering Controls Information:

Address of Data Source (URL if available): _____

20c. Indicate whether Engineering Controls in place: ☐ Yes ☐ No Date: _____

REDEVELOPMENT AND OTHER LEVERAGED ACCOMPLISHMENTS *(Mandatory for Assessment, Cleanup and RLF Cooperative Agreements; as available for State and Tribal Property Specific Activities and TBAs)*

21. Redevelopment Start Date: _____ **22.** Redevelopment Completion Date: _____

Table D- Redevelopment Leveraged Funding Detail

Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this EPA Cooperative Agreement)				Name of Entity Providing Funds	Amount of Funding Expended on this Activity
Other Federal	State/Tribal	Local Gov't	Private/ Other		
☐	☐	☐	☐		
☐	☐	☐	☐		
☐	☐	☐	☐		
☐	☐	☐	☐		

23. Number of Redevelopment Jobs Leveraged: _____

24. Future Use and Estimated Acreage (check all that apply; For properties with multi-story buildings only, please indicate also the square footage for each type of reuse (e.g. a three story building with first floor commercial and remaining floors residential).

☐ Multi-story building

☐ Greenspace _____ acres _____ sq. ft. ☐ Commercial _____ acres _____ sq. ft.

☐ Industrial _____ acres _____ sq. ft. ☐ Residential _____ acres _____ sq. ft.

25. Actual Acreage(s) and Type(s) of Greenspace Created: _____

PART II- ENVIRONMENTAL ACTIVITIES (continued)

ANECDOTAL PROPERTY INFORMATION *(as available for all cooperative agreement types)*

26. Property Highlights:

See attached document

PROPERTY PHOTOGRAPH INFORMATION

27. Indicate whether photographs are available: ☑ Yes ☐ No **28.** Indicate whether video is available: ☐ Yes ☑ No

PART III- ADDITIONAL PROPERTY INFORMATION

PROPERTY HISTORY INFORMATION

29. Property Description / History / Past Ownership:

See attached document

30. Predominant Past Use(s) (check all that apply; For properties with multi-story buildings only, please indicate also the square footage for each type of reuse (e.g. a three story building with first floor commercial and remaining floors residential):

☐ Multi-story building

☐ Greenspace	_____ acres	_____ sq. ft.	☑ Commercial	1.90 acres	_____ sq. ft.
☐ Residential	_____ acres	_____ sq. ft.	☐ Industrial	_____ acres	_____ sq. ft.

OWNERSHIP & SUPERFUND LIABILITY *(Mandatory for Cleanup and RLF Cooperative Agreements)*

31a. Ownership Entity:

☑ Government (Tribal, State, Local) ☑ Private

31b.Current Owner:

City of Kansas City, Missouri

32a. During the life of the cooperative agreement, did ownership change?

☐ Yes ☑ No

32b. If "yes," did Superfund federal landowner liability protections factor into the ownership change?

☐ Yes ☐ No ☐ Unknown

PART IV- APPROVALS

33. Cooperative Agreement Recipient Project Manager

Name (please print): _____ Signature _____ Date: _____

34. US EPA Regional Representative

Name (please print): _____ Signature _____ Date: _____

Property Description/History/Highlights/Past Ownership:

The subject property is defined as one parcel with three buildings encompassing approximately 12,000 square feet at 4400 Raytown Road in Kansas City, Missouri. The buildings on the subject property are currently used as an animal shelter operated by Kansas City Pet Project. The subject property is currently occupied by an animal shelter. Exact dates of historical subject property use are unknown but can be approximated through review of historical records. Aerial photographs show the subject property as forest land or green space until 1955, when and thereafter the photographs show the subject property developed as an animal shelter. City directories identify the subject property as an animal shelter as early as 1951.