PHASE II
ENVIRONMENTAL SITE ASSESSMENT

STEVE ELY HOME SITE
RONAN, MONTANA

JULY 2009

Confederated Salish and
Kootenai Tribes
Natural Resource Department

AMEC Geomatrix

PHASE II ENVIRONMENTAL SITE ASSESSMENT
STEVE ELY HOME SITE

2247 Leighton Road
Ronan, Montana

Prepared for:

Confederated Salish & Kootenai Tribes
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July 2009

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1.0 INTRODUCTION

AMEC Geomatrix, Inc. (AMEC) has completed a Phase II Environmental Site Assessment (ESA) of the Steve Ely home site near Ronan, Montana on the Flathead Indian Reservation on behalf of the Confederated Salish and Kootenai Tribes (CSKT). The investigation was completed in accordance with the Sampling and Analysis Plan (SAP) submitted to and approved by the U.S. Environmental Protection Agency (EPA) (AMEC Geomatrix 2008). The purpose of the assessment was to evaluate recognized environmental conditions (REC) identified during a Phase I ESA, including the potential for soil impacts from the clandestine manufacture of methamphetamine (meth) at the site, and to evaluate the potential presence of lead-based paint (LBP) in onsite structures. Figures and tables follow the text of this report. The laboratory analytical report for soil and septic tank wastewater is provided in **Appendix A**, and the laboratory report for building materials samples is provided in **Appendix B**.

1.1 Background and General Site Description

The site is located northwest of Ronan at 2247 Leighton Road on the Flathead Indian Reservation, Lake County, Montana (**Figure 1**). The property is located in a predominantly rural, agricultural area of the reservation and is bounded on all sides by agricultural and range lands. The property is currently vacant and includes a two-story residence and a singlewide mobile home (**Figure 2**). Both the residence and mobile home have burned. The mobile home was almost completely destroyed in the fire. The residence was severely damaged, but remains standing. Other onsite structures include three storage sheds and a pump house. One of the storage sheds has also burned.

AMEC completed a Phase I ESA of the site in July 2008. The Phase I revealed that the site was used in the past for the manufacture of meth. In addition, potential asbestos-containing materials (ACM) were observed in the ground floor of the residence during a visual survey of the property. Lead-based paint (LBP) may be present due to the unknown age of the building. Areas of stressed and discolored vegetation and multiple debris and garbage piles were also observed on the property during the site visit. Based on these findings, AMEC recommended that a Phase II ESA be completed to evaluate whether the manufacture of meth has contaminated soils and/or septic system wastes on the property and whether ACM and LBP are associated with onsite buildings (Geomatrix 2008).

The primary concern associated with the illegal manufacture of meth is the use of hazardous substances in the production process. These substances include volatile organic compounds (VOCs) used in the extraction process (such as acetone, benzene, hexane, and toluene) and corrosives used in the reaction process (including sodium hydroxide and hydrochloric acid).

2.0 FIELD ACTIVITIES

AMEC conducted a Phase II ESA of the Ely home site on May 5 and 6, 2009. The assessment was completed in accordance with the Phase II SAP (AMEC Geomatrix 2008) and the Quality Assurance Project Plan (QAPP) for the CSKT Brownfield Project, which was approved by the U.S. Environmental Protection Agency in December 2005 (Maxim 2005). The site investigation activities are discussed below.

2.1 Surface Soil Investigation

Four composite surface soil samples were collected on May 6, 2009 to evaluate whether the production of meth and historic waste disposal practices have affected the property. Each sample consisted of five sub-samples collected in accordance with the QAPP. The samples were collected from locations having the greatest potential for impact based on the presence of stressed vegetation, and the contents of debris piles at the sample location (**Figure 2**). The composite samples were submitted to Pace Analytical Services (Pace) of Billings, Montana (formerly Northern Analytical Laboratories, Inc.) for analysis of the following meth-related analytes:

- VOCs by EPA Method 8260;
- Resource Conservation and Recovery Act (RCRA) metals by EPA Method 6010B and 7471; and
- pH by EPA Method 9045C.

2.2 Septic System Investigation

Chemical wastes generated during the manufacture of meth on the property may have been improperly disposed of in the onsite septic system. AMEC conducted field screening and sampling to characterize the contents of the septic tank for disposal purposes, and to evaluate if chemical discharge to the septic system warrants subsurface investigation outside the septic tank.

A backhoe was used to locate and uncover the access port for the septic tank near the southeast corner of the primary onsite residence (**Figure 2**). Field personnel monitored VOCs using a Photoionization Detector (PID), and measured the pH of the septic tank contents using a pH meter. AMEC collected one septic tank wastewater sample on May 5, 2009 using a drum thief. The sample was analyzed for the meth-related analytes listed in Section 2.1. The samples were also analyzed for the following constituents for waste characterization purposes:

- Ignitability (Flash Point) by EPA Method 1010;
- Corrosivity by EPA Method 1110A; and
- Reactivity by EPA Methods 7.3.3.2 and 7.3.4.1.

2.3 Asbestos and Lead-Based Paint Investigation

Because of safety concerns associated with the partially burned buildings, ACM samples were not collected during the Phase II ESA. Regulatory permission to sample for asbestos at the time of building demolition has been obtained from the EPA. At the time of demolition, a Montana-licensed asbestos inspector will direct proper waste management in accordance with applicable statutes.

To assess the potential presence of LBP, A.L.M. Consulting, LLC (ALM) collected a bulk building-material sample from the residence on June 22, 2009. The sample was submitted to EMSL Analytical, Inc. of

Westmont, New Jersey for analysis of lead by EPA Method 1311 - Toxicity Characteristic Leaching Procedure (TCLP). Sample results were used to evaluate whether the demolition debris is a hazardous waste in accordance with 40 CFR 261.24. The material collected was a proportional composite sample of the debris based on a visual estimate of the quantity/volume of each building material in the demolition waste stream.

3.0 INVESTIGATION RESULTS

Surface soil and septic tank wastewater laboratory results are summarized in **Tables 1** and **2**, respectively. The laboratory report for soil and septic tank samples is provided in **Appendix A**. TCLP results are included in **Appendix B**. The results of the investigation are discussed below.

3.1 Surface Soil

According to the SAP, the analytical results for soil were to be compared to EPA Region IX Preliminary Remediation Goals (PRGs) for residential soil, and to EPA Soil Screening Levels (SSLs). However, the EPA PRGs and SSLs were recently superseded with EPA Regional Screening Levels (RSLs) (EPA 2009). The newly promulgated RSLs were used in combination with the Montana Department of Environmental Quality (DEQ) Tier 1 Risk-Based Screening Levels (RBSLs) and DEQ Arsenic Action Level to evaluate soil sample results from the Ely home site (**Table 1**).

VOCs were not detected in any of the surface soil samples collected at the site. As shown in **Table 1**, several metals were detected in the surface soil samples. The arsenic concentrations were below the Montana arsenic action level of 40 mg/kg. Concentrations of the other metals concentrations were below the EPA RSLs for direct exposure to residential soil. However, concentrations of several metals at sampling location SS4 exceeded SSLs for leaching from soil to groundwater (**Table 1**). Arsenic, chromium and lead levels were elevated at location SS4 relative to samples collected from other locations. The mercury concentration exceeded the SSL at three of the four sampling locations.

3.2 Septic Tank

Laboratory results for the septic tank sample show that low concentrations of metals and VOCs were detected in the septic tank wastewater (**Table 2**). Barium, cadmium, chromium, and selenium, which are not typically present in wastes from meth production, were detected at concentrations below DEQ-7 groundwater standards. Although mercury is a common component of meth-lab waste streams (University of Minnesota Extension Service 2005); it was detected below the DEQ-7 groundwater standard. In contrast to the mercury results, arsenic and lead were detected in the septic wastewater sample at concentrations above DEQ-7 groundwater standards; however, the sample was of wastewater, not groundwater, and arsenic and lead are not commonly associated with the production of meth (University of Minnesota Extension Service 2005; Washington State Department of Ecology 2001).

The field PID reading (0.0 ppm) indicated that high concentrations of VOCs were not present in the tank. Low concentrations of 1,4-dichlorobenzene, cis-1,2-dichloroethene, trimethylbenzenes, and xylenes were detected in the septic tank sample by the laboratory (**Table 1**). Xylenes are the only detected VOCs that are typically associated with clandestine meth lab wastes (Washington State Department of Ecology 2001; University of Minnesota 2005). 1,3,5-trimethylbenzene results from combustion processes. The solvent 1,2,4-trimethylbenzene is used for the manufacture of dyes and perfumes and as a gasoline additive, and has been previously documented in septic systems (Zogorski et al. 2006).

Domestic sewage is specifically excluded from the definition of Solid Waste under 40 CFR 261.4; and therefore, the septic tank contents are not a hazardous waste. Furthermore, the septic system contents do not have hazardous waste characteristics, as listed below. Both the field-measured pH (7.6) and the laboratory pH (8.2) pass the thresholds for corrosivity shown in **Table 3** below. The flashpoint of the waste was reported as greater than 210°F, which passes the threshold for ignitability. The reactive

sulfides and cyanide constituents of the waste are at or below reporting limits, and the wastewater had no apparent reaction with air, so the waste passes the narrative thresholds for reactivity.

Characteristic	Corrosivity	Ignitability
Test Method	pH at 25 °C	Flashpoint
Septic Tank Laboratory Result	8.2	>210 °F
Hazardous Waste Thresholds	<2.0 or >12.5	<140 °F
Determination	Non-hazardous	Non-hazardous

Table 3. Hazardous waste assessment for corrosivity and ignitability characteristics.

3.3 Building Materials

The TCLP results for the Ely home site are included in **Appendix B** as sample SE-TCLP-01. The lead concentration (<0.40 mg/L) indicates that lead is not a concern for worker safety or disposal if the building is demolished.

3.4 Quality Assurance / Quality Control

All field samples were collected using new disposable equipment or collected directly into sampling containers. Therefore, no equipment rinse blank sample was collected. Due to the suspected small-scale heterogeneity of soil and the small number of total samples, field duplicate soil samples were not collected. One septic tank wastewater duplicate sample was collected. A trip blank sample provided by the laboratory accompanied the field samples through the field event. The trip blank was analyzed by Pace for VOCs using EPA Method 8260.

Field natural samples collected during this investigation were four composite surface soil samples and one septic tank wastewater sample. Sample collection procedures generally followed the project QAPP (Maxim 2005) and the SAP for the Phase II assessment (AMEC Geomatrix 2008). All samples were placed in the proper containers with Teflon-sealed lids to avoid volatilization, and were kept in a dark cooler. The sampling containers were received intact by the laboratory and analyzed within the respective holding times. The samples arrived on ice at the laboratory at a temperature of 8.0°C. The EPA standard for the temperature of samples in transit is 6.0°C, which was adjusted downward in 2008 from the previous default of 10°C. It is unlikely that the slightly elevated temperature of the samples resulted in biased results, and no data qualification is necessary.

The VOA vials were not preserved with hydrochloric acid in the field prior to shipment to Pace Analytical Laboratories. However, according to Pace, the sample results should be unaffected because the samples were analyzed within the 7-day holding time for unpreserved VOCs. Therefore, the results were accepted.

3.4.1 Field Quality Control Samples

AMEC collected one wastewater field duplicate from the septic tank. Field duplicate relative percent differences (RPDs) were outside of the QAPP-required control limits for arsenic, barium, cadmium, chromium, and lead. Failure to meet the specified control limits is likely the result of inherent variability of wastewater from a septic tank. Because these metals are not commonly found in meth-related wastes, the high RPDs did not likely affect investigation results.

The methanol trip blank vial contained headspace when it was received by the laboratory. According to the laboratory, because sample was a methanol trip blank, not water, the headspace will not cause unacceptable loss of VOCs. The trip blank had no detectable VOCs.

3.4.2 Laboratory Quality Assurance/Quality Control

Laboratory procedures were consistent with the project requirements. Sample holding time requirements were met for all samples with the exception of pH. The holding time for this analyte is 15 minutes. However, AMEC personnel also measured the pH of septic tank wastewater while onsite using a calibrated handheld pH meter.

Laboratory preparation blanks were analyzed at the required frequency and all results were below the reporting limits. Laboratory control samples were also within the required control limits. Laboratory duplicate and matrix spike (MS) samples were prepared and analyzed at the required frequencies. The laboratory duplicate and matrix spike recoveries were within the required control limits, with the following exceptions:

- All metals were below control limits except for one MS sample. The metals were all less than 5% below the acceptable QC range, except barium. The associated LCS had results at the low end of the QC range, indicating that the slightly out-of-limits MS results for metals other than barium are not an indication of matrix effects large enough to warrant qualification. In addition, the other MS and the MS Duplicate associated with the work order had acceptable recoveries for all metals, except barium. QC results for barium indicate potential low bias of up to 50% on the associated natural sample, which is the sample collected from the former outhouse at the Burland home site. This results is qualified as estimated in the report for that site
- The MS and MS Duplicate percent recoveries associated with the water samples were below laboratory control limits for barium. The RPD between the MS and MS Duplicate was acceptable, and the LCS was within range, indicating that the out-of-limits results are due to matrix effects. The QC results indicate a potential low bias of up to 20% for the associated water sample, Ely Septic. This result is qualified accordingly in **Table 2**.

3.5 Deviations from SAP

The SAP specified that analytical results would be compared to EPA Region IX PRGs and SSLs. However, in April 2009, RSLs replaced the PRGs, and updated SSLs were posted. AMEC compared sample results with the RSLs and new SSLs.

The SAP proposed the collection of ACM samples. Because of safety concerns, no potential ACM samples were collected during the Phase II ESA. Samples will instead be collected during building demolition, as mentioned in Section 2.3.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the Phase II ESA at the Ely Home Site are summarized below.

1. Metals were detected in surface soil at concentrations above generic screening levels. Specifically, barium, cadmium, mercury, selenium, and silver were detected at location SS4 below RSLs for direct exposure to residential soils, but above SSLs for migration to groundwater. In addition, mercury was detected in surface soil at sampling locations SS1 and SS2 at concentrations above the RSL, but below the SSL. However, the results that exceed the 2009 generic SSLs do not indicate that groundwater contamination via leaching from soil is likely at the site. The 2009 SSL model has restrictive assumptions that are not applicable to this site. Specifically, the SSLs assume that the impacted soil is in contact with groundwater, with no sorption or degradation of contaminants as the soil leachate passes through an un-impacted soil column. The SSLs also assume that no dilution occurs when the soil leachate mixes with groundwater. In contrast, the previous EPA Region 9 SSLs accounted for dilution and attenuation with a conservative general Dilution Attenuation Factor (DAF) of 20. In addition, the 2009 SSLs also do not account for background concentrations. The EPA soil screening guidance (EPA 1996) states that background concentrations above SSLs do not require remediation.

   Comparison of surface soil sample results to 2004 SSLs (which account for dilution and attenuation) and background concentrations indicates that groundwater at the site is unlikely to be affected by metals detected in surface soil at the site.

   - Arsenic – All results are below the Montana Action Level of 40 mg/kg.
   - Chromium, lead – No SSL exists for these compounds. Concentrations of both are below the respective RSLs.
   - Barium, cadmium, and selenium – Each metal is below the 2004 SSL for DAF of 20.
   - Mercury – The 2004 SSLs do not include elemental mercury. The detected mercury concentrations are either below or close to typical background concentrations for the Western U.S. (Shacklette and Boerngen 1984).
   - Silver – No 2004 SSL or typical background concentration has been identified. The highest detection at the site, 2.8 mg/kg in sample SS4, is only slightly above the restrictive 2009 SSL that assumes no dilution or attenuation, despite the potential for soil sorption between the surface soil and groundwater, and for dilution due to mixing of leachate with groundwater.

   The precise depth to groundwater at the site is unknown. Groundwater literature for the Mission Valley (Lafave 2000) estimates shallow groundwater depths of less than 50 feet for the vicinity of the site. AMEC recommends that groundwater information be obtained specific to the Ely site, including measuring the depth to water in the on-site well, and further review be conducted of groundwater information for the site vicinity. In addition, AMEC recommends that one soil sample be collected from a depth of 2.0 feet at locations SS1, SS2, and SS4 and analyzed for those metals that exceeded 2009 SSLs in the surface sample at that location. The results from the soil samples collected at 2.0 feet would be used to document whether un-impacted soil is present in the soil column between the soil surface and groundwater.

2. Results of field screening do not indicate that the manufacture of meth resulted in improper disposal of meth-related wastes into the onsite septic tank. Field screening showed that organic vapors were not detected in the headspace of the septic tank, and that the septic tank contents had a near-neutral pH.
3. Concentrations of metals and VOCs were low in the wastewater sample collected from the septic system. For most constituents, concentrations were below DEQ water quality standards. Concentrations of metals and VOCs commonly used for meth production (e.g., mercury, xylenes) were low. Other VOCs commonly used for the production of meth (e.g., acetone, benzene, and toluene) were not detected in the wastewater system. AMEC does not propose any additional investigation with respect to the septic tank or drain field.
4. The Washington State Department of Ecology (2001) provided guidance regarding management of septic tank wastes potentially impacted by meth-related chemicals. The total concentration of detected VOCs in septic system wastewater at the Ely home site was far below the State of Washington threshold of 1,000 mg/L for septic tank wastes that would require aeration or special disposal. According to the State of Washington guidance, the septic tank contents at the Ely site should be treated in the same manner as common wastes from septic tanks that have not been impacted by meth-related activities.
5. Sampling results indicate that lead-based paint is not a chief component of building materials at the site. The materials are therefore not considered to be hazardous waste for the purposes of building demolition and disposal of the debris.
6. Because of safety concerns associated with the partially burned buildings, ACM samples were not collected during the Phase II ESA. Regulatory permission to sample for asbestos at the time of building demolition has been obtained from the EPA. At the time of demolition, a Montana-licensed asbestos inspector will direct proper waste management in accordance with applicable statutes.

5.0 REFERENCES

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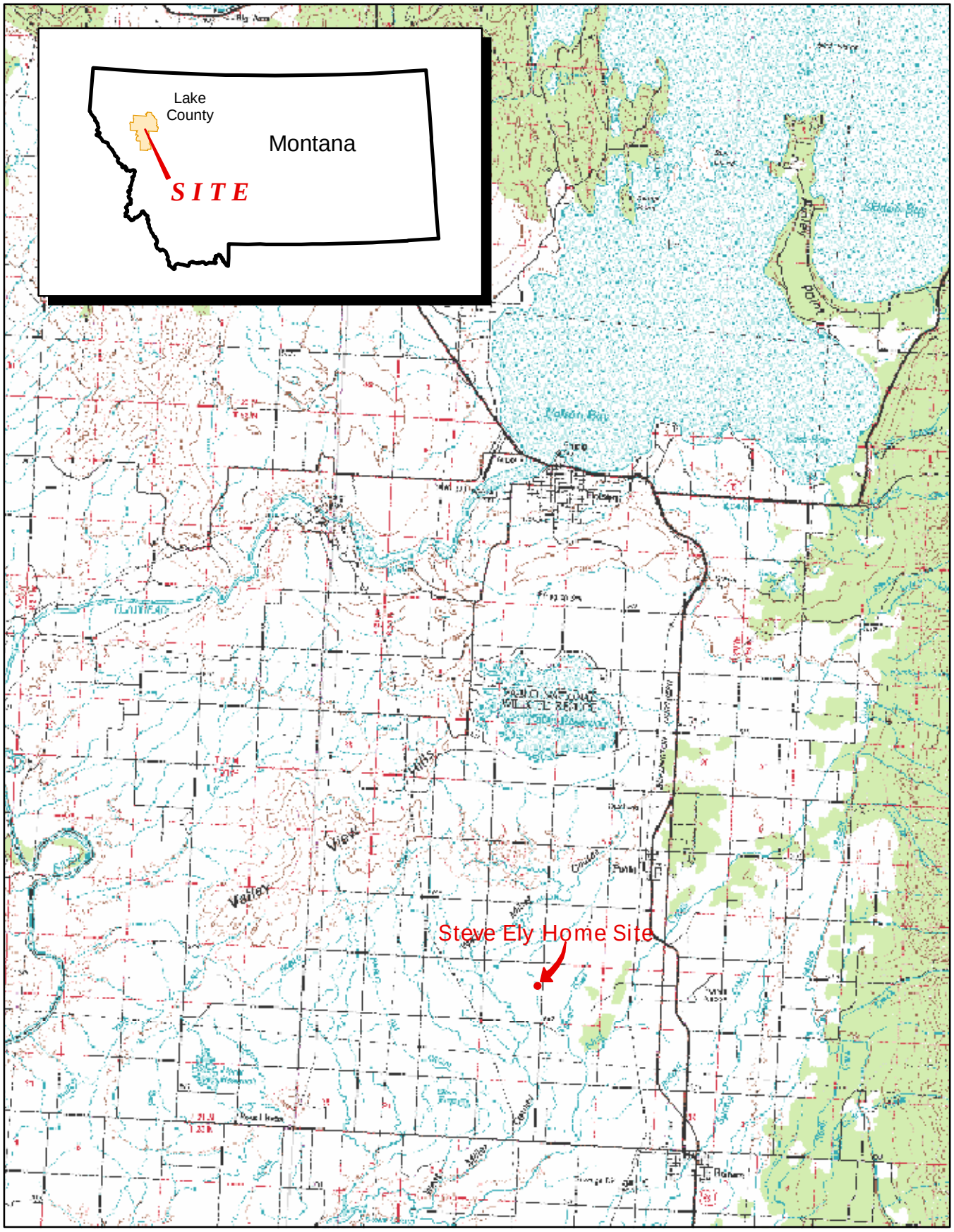
FIGURES



Source: USGS 100k Polson Quad

Feet
0 6,000 12,000

AMEC Geomatrix

Location Map
Steve Ely Home Site
Lake County, Montana
FIGURE 1

TABLES

Table 1
Soil Laboratory Results -
Detected Analytes
Steve Ely Home Site
2247 Leighton Road, Ronan, Montana
May 2009

Screening Criterion or Site ID	Date Sampled	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury	pH at 25 °C
MT Arsenic Action Level		40	--	--	--	--	--	--	--	--
RSL (Direct Exposure)		--	15000	70	280	400	390	390	4.3	--
2009 SSL (Leaching to Groundwater)		--	300	1.4	--	--	0.95	1.6	0.03	--
2004 SSL (Leaching to Groundwater)		--	1600	8.0	38	--	5.00	--	--	--
Typical Background Concentration[1]		--	700	--	50	20	0.15	--	0.08	--
SS1	5/6/09	3.2	108	0.65	4.9	59.1	0.51 J	< 0.28	0.079	6.7
SS2	5/6/09	5.9	158	0.87	5.6	40.5	0.57 J	< 0.26	0.097	8.2
SS3	5/6/09	3.3	100	0.53	4.5	10.5	0.74 J	< 0.26	0.015 J	9.0
SS4	5/6/09	8.5	820	5.5	16.8	74.6	1.5	2.8	0.12	8.6

Notes:

Results are in milligrams per kilogram (mg/kg) except for pH (standard units)

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

< = Not detected. Reporting limit shown.

-- = Not applicable

RSL = EPA Regional Screening Level for direct exposure to residential soil, updated April 2009.

SSL = EPA Risk-Based Soil Screening Level for leaching to groundwater pathway, updated April 2009 assuming no dilution or attenuation from impacted soil location to groundwater.

[1] From Shacklette and Boerngen, 1984. Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States - USGS Professional Paper 1270.

Detection exceeds SSL

Table 2
Septic Wastewater Laboratory Results -
Detected Analytes
Steve Ely Home Site
2247 Leighton Road, Ronan, Montana
May 2009

Screening Level or Site ID	Date Sampled	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Mercury	1,4-DCB	cis-1,2-DCE	1,2,4-TMB	1,3,5-TMB	Total Xylenes	m&p-Xylenes	o-Xylene	pH at 25 °C	Flashpoint	Reactive Sulfide	Reactive Cyanide
40 CFR 261-C (Waste)		5000	100,000	1000	5000	5000	1000	200	--	--	--	--	--	--	--	< 2 or > 12.5	< 140	--	--
DEQ-7 (Groundwater)		10	2000	5	100	15	50	2	75	70	--	--	10,000	--	--	--	--	--	--
Ely Septic	5/5/09	19.3	457 M%-	0.93 J	10.6	17.8	26.3	0.12 J	0.95 J	3.5	1.4	0.60 J	2.2 J	1.5 J	0.77 J	8.2	> 210	2.0 J	<0.0008
Ely Septic Duplicate	5/5/09	13.3	149 M%-	<0.50	<5	<1.5	26.7	< 0.10	0.94 J	3.6	1.5	0.60 J	2.0 J	1.3 J	0.67 J	8.0	NA	NA	NA

Notes:

Results are in micrograms per liter (µg/L) except as follows: pH (std. units), flashpoint (°F).

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

M%- = Matrix effects resulted in low bias for this result.

-- = No standard

40 CFR 261-C = Code of Federal Regulations regarding characteristics of Hazardous Waste

DEQ-7 = Montana Numeric Groundwater Quality Standards

< = Not detected. Reporting limit shown.

DCB - dichlorobenzene

DCE - dichloroethene

TMB - trimethylbenzene

Detection exceeds DEQ-7 standard.

Soil Screening Level (SSL) Calculations - pH Adjustment for Metals
Steve Ely Home Site
2247 Leighton Road, Ronan, Montana

Parameters Listed by Metal

Metal	Cw (MCL)	Kd (default pH=6.8)	Kd (pH =8)[1]
Barium	2	41	52
Cadmium	0.005	75	4300
Selenium	0.05	5	2.2
Silver	--	--	NA
Mercury	0.002	52	200

Soil Screening Levels (SSLs)

	Generic SSL (mg/kg, matches EPA table[2])	Site-specific SSL (mg/kg, calculated)
Barium	83	105
Cadmium	0.376	22
Selenium	0.264	0.124
Silver	--	NA
Mercury	0.105	0.401

Parameter Definitions and Assumed Values [3]

Cw	see above	target soil leachate conc. (mg/L)
Kd	see above	soil water partition coefficient (L/kg), pH dependent
Theta-w (Lwater/Lsoil)	0.3	water-filled soil porosity (Lwater/Lsoil)
Theta-a (Lair/Lsoil)	0.134	air-filled soil porosity (Lair/Lsoil): (n minus Theta-w)
n	0.434	total soil porosity (Lpore/Lsoil): (1-Rb/Rs)
Rb	1.5	Dry soil bulk density (kg/L)
Rs	2.65	Soil particle density (kg/L)
H	1	Dimensionless Henry's Law constant for metals

SSL Equation [3]

$$SSL\left(\frac{mg}{kg}\right) = C_w\left(\frac{mg}{L}\right) \times \left[K_d\left(\frac{L}{kg}\right) + \frac{\left(\theta_w\left(\frac{L_{water}}{L_{soil}}\right) + \theta_a\left(\frac{L_{air}}{L_{soil}}\right) \times H'\right)}{\rho_b\left(\frac{1.5\ kg}{L}\right)} \right]$$

where:

$$\theta_a\left(\frac{L_{air}}{L_{soil}}\right) = n\left(\frac{L_{water}}{L_{soil}}\right) - \theta_w\left(\frac{0.3\ L_{water}}{L_{soil}}\right);$$

$$n\left(\frac{L_{pore}}{L_{soil}}\right) = 1 - \left(\frac{\rho_b\left(\frac{1.5\ kg}{L}\right)}{\rho_s\left(\frac{2.65\ kg}{L}\right)}\right) \text{ and}$$

$$K_d\left(\frac{L}{kg}\right) = K_{oc}\left(\frac{L}{kg}\right) \times f_{oc}\ (0.002\ \text{unitless})$$

Notes:

NA = Not Applicable. SSL for silver is not pH-dependent.

[1] From EPA 1996 *Soil Screening Guidance: User's Guide* Table C-4 showing pH dependent Kd values for each metal.

[2] From EPA 2009 *Regional Screening Levels (RSLs)* Master Table.

[3] From EPA 2008 *User's Guide to Regional Screening Levels* available at http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/usersguide.htm.

QC Calculations
Septic Wastewater Results
Steve Ely Home Site
2247 Leighton Road, Ronan, Montana
May 2009

Screening Level or Site ID	Date Sampled	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Mercury	1,4-DCB	cis-1,2-DCE	1,2,4-TMB	1,3,5-TMB	Total Xylenes	m&p-Xylenes	o-Xylene	pH at 25 °C
Ely Septic	5/5/09	19.3	457	0.93	10.6	17.8	26.3	0.120	0.950	3.5	1.4	0.6	2.2	1.5	0.8	8.2
Ely Septic Duplicate	5/5/09	13.3	149	0.50	5.0	1.5	26.7	< 0.10	0.940	3.6	1.5	0.6	2.0	1.3	0.7	8.0
RPD		36.8	101.7	60.1	71.8	168.9	1.5		1.1	2.8	6.9	0.0	9.5	14.3	13.9	2.5

Notes:

Results are in micrograms per liter (μg/L) except as follows: pH (std. units); flashpoint (°F); and reactive sulfide/cyanide (mg/L)

APPENDIX A
LABORATORY ANALYTICAL REPORT
SOIL AND SEPTIC WASTEWATER SAMPLES

Pace Analytical Services, Inc.
602 S 25th Street
Billings, MT 591014549
(406)254-7226

May 19, 2009

Wilhelm Welzenbach
AMEC Geomatrix
1001 South Higgins Ave
Missoula, MT 59801

RE: Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Dear Wilhelm Welzenbach:
Enclosed are the analytical results for sample(s) received by the laboratory on May 08, 2009. The results relate only to the samples included in this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Denise Jensen

denise.jensen@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
602 S 25th Street
Billings, MT 591014549
(406)254-7226

CERTIFICATIONS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Minnesota Certification IDs

Wisconsin Certification #: 999407970
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Alaska Certification #: UST-078

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11887
New York Certification #: 11888
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

Kansas Certification IDs

Washington Certification #: C2069
Utah Certification #: 9135995665
Texas Certification #: T104704407-08-TX
Oklahoma Certification #: 9205/9935
Nevada Certification #: KS000212008A
Louisiana Certification #: 03055
Kansas/NELAP Certification #: E-10116
Iowa Certification #: 118
Illinois Certification #: 001191
Arkansas Certification #: 05-008-0
A2LA Certification #: 2456.01

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SAMPLE SUMMARY

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1094676001	**SS1**	Solid	05/06/09 16:50	05/08/09 09:45
1094676002	**SS2**	Solid	05/06/09 16:55	05/08/09 09:45
1094676003	**SS3**	Solid	05/06/09 17:00	05/08/09 09:45
1094676004	**SS4**	Solid	05/06/09 17:05	05/08/09 09:45
1094676005	**ELY SEPTIC**	Water	05/05/09 16:45	05/08/09 09:45
1094676006	**DUP**	Water	05/05/09 00:00	05/08/09 09:45
1094676007	**TRIP BLANK**	Solid		05/08/09 09:45

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SAMPLE ANALYTE COUNT

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1094676001	**SS1**	% Moisture	MWD	1	PASI-M
		EPA 6010	IP	7	PASI-M
		EPA 7471	TEM	1	PASI-M
		EPA 8260	RTP	63	PASI-M
		EPA 9045	MWD	1	PASI-M
1094676002	**SS2**	% Moisture	MWD	1	PASI-M
		EPA 6010	IP	7	PASI-M
		EPA 7471	TEM	1	PASI-M
		EPA 8260	RTP	63	PASI-M
		EPA 9045	MWD	1	PASI-M
1094676003	**SS3**	% Moisture	MWD	1	PASI-M
		EPA 6010	IP	7	PASI-M
		EPA 7471	TEM	1	PASI-M
		EPA 8260	RTP	63	PASI-M
		EPA 9045	MWD	1	PASI-M
1094676004	**SS4**	% Moisture	MWD	1	PASI-M
		EPA 6010	IP	7	PASI-M
		EPA 7471	TEM	1	PASI-M
		EPA 8260	RTP	63	PASI-M
		EPA 9045	MWD	1	PASI-M
1094676005	**ELY SEPTIC**	EPA 1010	MY	1	PASI-G
		EPA 6010	IP	7	PASI-M
		EPA 7470	TEM	1	PASI-M
		EPA 8260	CNC	70	PASI-M
		SM 4500-H+B	MWD	1	PASI-M
		SW-846 7.3.3.2 Modified	JML	1	PASI-K
		SW-846 7.3.4.2 Modified	AJM	1	PASI-K
1094676006	**DUP**	EPA 6010	IP	7	PASI-M
		EPA 7470	TEM	1	PASI-M
		EPA 8260	CNC	70	PASI-M
		SM 4500-H+B	MWD	1	PASI-M
1094676007	**TRIP BLANK**	EPA 8260	RTP	63	PASI-M

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

General Information:
6 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.
The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/15632

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 1094671001,1094688016

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 618556)
  - Barium
- MS (Lab ID: 618558)
  - Arsenic
  - Barium
  - Cadmium
  - Chromium
  - Lead
  - Selenium
  - Silver

QC Batch: MPRP/15651

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 1094671006

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 619061)
  - Barium

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

QC Batch: MPRP/15651

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 1094671006

M0: Matrix spike recovery was outside laboratory control limits.

- MSD (Lab ID: 619062)
  - Barium

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **EPA 7470**
Description: 7470 Mercury
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

General Information:
2 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **EPA 7471**
Description: 7471 Mercury
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

General Information:
4 samples were analyzed for EPA 7471. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/3431

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 1094704001,1094719002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 618861)
  - Mercury

QC Batch: MERP/3434

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 1094717001

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 619413)
  - Mercury
- MSD (Lab ID: 619414)
  - Mercury

R1: RPD value was outside control limits.

- MSD (Lab ID: 619414)
  - Mercury

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **EPA 7471**
Description: 7471 Mercury
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

Additional Comments:

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **% Moisture**
Description: Dry Weight
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

General Information:
4 samples were analyzed for % Moisture. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **EPA 8260**
Description: 8260 MSV 5030 Med Level
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

General Information:
5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/12232

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 1094671001

M0: Matrix spike recovery was outside laboratory control limits.

- MSD (Lab ID: 619723)
  - 1,2,4-Trichlorobenzene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **EPA 8260**
Description: 8260 VOC
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.
- DUP (Lab ID: 1094676006)
- ELY SEPTIC (Lab ID: 1094676005)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/12220

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 1094714005

M0: Matrix spike recovery was outside laboratory control limits.
- MS (Lab ID: 618890)
  - Dichlorodifluoromethane
- MSD (Lab ID: 618891)
  - Dichlorodifluoromethane

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **EPA 1010**
Description: 1010 Flashpoint,Closed Cup
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

General Information:
1 sample was analyzed for EPA 1010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **EPA 9045**
Description: 9045 pH
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

General Information:
4 samples were analyzed for EPA 9045. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WET/16016

1M: Reduced sample volume due to dry matrix.
- DUP (Lab ID: 617668)
  - pH at 25 Degrees C

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

General Information:
2 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated more than 15 minutes after sample collection.
- DUP (Lab ID: 1094676006)
- ELY SEPTIC (Lab ID: 1094676005)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **SW-846 7.3.4.2 Modified**
Description: 734S Reactive Sulfide
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

General Information:
1 sample was analyzed for SW-846 7.3.4.2 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Method: **SW-846 7.3.3.2 Modified**
Description: 733C Reactive Cyanide
Client: AMEC Geomatrix, Inc.
Date: May 19, 2009

General Information:
1 sample was analyzed for SW-846 7.3.3.2 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: SS1 **Lab ID: 1094676001** Collected: 05/06/09 16:50 Received: 05/08/09 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**3.2**	mg/kg	0.57	0.32	1	05/12/09 14:10	05/13/09 11:07	7440-38-2	
Barium	**108**	mg/kg	0.57	0.28	1	05/12/09 14:10	05/13/09 11:07	7440-39-3	
Cadmium	**0.65**	mg/kg	0.057	0.028	1	05/12/09 14:10	05/13/09 11:07	7440-43-9	
Chromium	**4.9**	mg/kg	0.57	0.28	1	05/12/09 14:10	05/13/09 11:07	7440-47-3	
Lead	**59.1**	mg/kg	0.34	0.17	1	05/12/09 14:10	05/13/09 11:07	7439-92-1	
Selenium	**0.51J**	mg/kg	0.85	0.43	1	05/12/09 14:10	05/13/09 11:07	7782-49-2	
Silver	**<0.28**	mg/kg	0.57	0.28	1	05/12/09 14:10	05/13/09 11:07	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.079**	mg/kg	0.026	0.013	1	05/11/09 17:48	05/12/09 12:06	7439-97-6	
Dry Weight	Analytical Method: % Moisture								
Percent Moisture	**24.6**	%	0.10	0.10	1		05/14/09 00:00		
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<33.2**	ug/kg	66.3	33.2	1	05/13/09 00:00	05/14/09 18:55	71-43-2	
Bromobenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	108-86-1	
Bromochloromethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	74-97-5	
Bromodichloromethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	75-27-4	
Bromoform	**<265**	ug/kg	531	265	1	05/13/09 00:00	05/14/09 18:55	75-25-2	
Bromomethane	**<332**	ug/kg	663	332	1	05/13/09 00:00	05/14/09 18:55	74-83-9	
n-Butylbenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	104-51-8	
sec-Butylbenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	135-98-8	
tert-Butylbenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	98-06-6	
Carbon tetrachloride	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	56-23-5	
Chlorobenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	108-90-7	
Chloroethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	75-00-3	
Chloroform	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	67-66-3	
Chloromethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	74-87-3	
2-Chlorotoluene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	95-49-8	
4-Chlorotoluene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	106-43-4	
1,2-Dibromo-3-chloropropane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	96-12-8	
Dibromochloromethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	124-48-1	
1,2-Dibromoethane (EDB)	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	106-93-4	
Dibromomethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	74-95-3	
1,2-Dichlorobenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	95-50-1	
1,3-Dichlorobenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	541-73-1	
1,4-Dichlorobenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	106-46-7	
Dichlorodifluoromethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	75-71-8	
1,1-Dichloroethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	75-34-3	
1,2-Dichloroethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	107-06-2	
1,1-Dichloroethene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	75-35-4	
cis-1,2-Dichloroethene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	156-59-2	
trans-1,2-Dichloroethene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	156-60-5	
1,2-Dichloropropane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	78-87-5	

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: SS1 **Lab ID: 1094676001** Collected: 05/06/09 16:50 Received: 05/08/09 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,3-Dichloropropane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	142-28-9	
2,2-Dichloropropane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	594-20-7	
1,1-Dichloropropene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	563-58-6	
cis-1,3-Dichloropropene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	10061-01-5	
trans-1,3-Dichloropropene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	10061-02-6	
Ethylbenzene	**<33.2**	ug/kg	66.3	33.2	1	05/13/09 00:00	05/14/09 18:55	100-41-4	
Hexachloro-1,3-butadiene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	87-68-3	
Isopropylbenzene (Cumene)	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	98-82-8	
p-Isopropyltoluene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	99-87-6	
Methylene Chloride	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	75-09-2	
Methyl-tert-butyl ether	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	1634-04-4	
Naphthalene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	91-20-3	
n-Propylbenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	103-65-1	
Styrene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	100-42-5	
1,1,1,2-Tetrachloroethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	630-20-6	
1,1,2,2-Tetrachloroethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	79-34-5	
Tetrachloroethene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	127-18-4	
Toluene	**<33.2**	ug/kg	66.3	33.2	1	05/13/09 00:00	05/14/09 18:55	108-88-3	
1,2,3-Trichlorobenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	87-61-6	
1,2,4-Trichlorobenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	120-82-1	
1,1,1-Trichloroethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	71-55-6	
1,1,2-Trichloroethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	79-00-5	
Trichloroethene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	79-01-6	
Trichlorofluoromethane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	75-69-4	
1,2,3-Trichloropropane	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	96-18-4	
1,2,4-Trimethylbenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	95-63-6	
1,3,5-Trimethylbenzene	**<133**	ug/kg	265	133	1	05/13/09 00:00	05/14/09 18:55	108-67-8	
Vinyl chloride	**<33.2**	ug/kg	66.3	33.2	1	05/13/09 00:00	05/14/09 18:55	75-01-4	
Xylene (Total)	**<99.5**	ug/kg	199	99.5	1	05/13/09 00:00	05/14/09 18:55	1330-20-7	
Dibromofluoromethane (S)	96	%	61-139		1	05/13/09 00:00	05/14/09 18:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	68-136		1	05/13/09 00:00	05/14/09 18:55	17060-07-0	
Toluene-d8 (S)	93	%	68-133		1	05/13/09 00:00	05/14/09 18:55	2037-26-5	
4-Bromofluorobenzene (S)	90	%	68-126		1	05/13/09 00:00	05/14/09 18:55	460-00-4	
9045 pH	Analytical Method: EPA 9045								
pH at 25 Degrees C	**6.7**	Std. Units	0.10	0.050	1		05/12/09 12:30		

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: SS2 **Lab ID: 1094676002** Collected: 05/06/09 16:55 Received: 05/08/09 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**5.9**	mg/kg	0.51	0.29	1	05/12/09 14:10	05/13/09 11:12	7440-38-2	
Barium	**158**	mg/kg	0.51	0.26	1	05/12/09 14:10	05/13/09 11:12	7440-39-3	
Cadmium	**0.87**	mg/kg	0.051	0.026	1	05/12/09 14:10	05/13/09 11:12	7440-43-9	
Chromium	**5.6**	mg/kg	0.51	0.26	1	05/12/09 14:10	05/13/09 11:12	7440-47-3	
Lead	**40.5**	mg/kg	0.31	0.15	1	05/12/09 14:10	05/13/09 11:12	7439-92-1	
Selenium	**0.57J**	mg/kg	0.77	0.38	1	05/12/09 14:10	05/13/09 11:12	7782-49-2	
Silver	**<0.26**	mg/kg	0.51	0.26	1	05/12/09 14:10	05/13/09 11:12	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.097**	mg/kg	0.025	0.013	1	05/11/09 17:48	05/12/09 12:07	7439-97-6	
Dry Weight	Analytical Method: % Moisture								
Percent Moisture	**25.3**	%	0.10	0.10	1		05/14/09 00:00		
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<33.9**	ug/kg	67.8	33.9	1	05/13/09 00:00	05/14/09 19:17	71-43-2	
Bromobenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	108-86-1	
Bromochloromethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	74-97-5	
Bromodichloromethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	75-27-4	
Bromoform	**<271**	ug/kg	542	271	1	05/13/09 00:00	05/14/09 19:17	75-25-2	
Bromomethane	**<339**	ug/kg	678	339	1	05/13/09 00:00	05/14/09 19:17	74-83-9	
n-Butylbenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	104-51-8	
sec-Butylbenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	135-98-8	
tert-Butylbenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	98-06-6	
Carbon tetrachloride	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	56-23-5	
Chlorobenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	108-90-7	
Chloroethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	75-00-3	
Chloroform	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	67-66-3	
Chloromethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	74-87-3	
2-Chlorotoluene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	95-49-8	
4-Chlorotoluene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	106-43-4	
1,2-Dibromo-3-chloropropane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	96-12-8	
Dibromochloromethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	124-48-1	
1,2-Dibromoethane (EDB)	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	106-93-4	
Dibromomethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	74-95-3	
1,2-Dichlorobenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	95-50-1	
1,3-Dichlorobenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	541-73-1	
1,4-Dichlorobenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	106-46-7	
Dichlorodifluoromethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	75-71-8	
1,1-Dichloroethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	75-34-3	
1,2-Dichloroethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	107-06-2	
1,1-Dichloroethene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	75-35-4	
cis-1,2-Dichloroethene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	156-59-2	
trans-1,2-Dichloroethene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	156-60-5	
1,2-Dichloropropane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	78-87-5	

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: SS2 **Lab ID: 1094676002** Collected: 05/06/09 16:55 Received: 05/08/09 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,3-Dichloropropane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	142-28-9	
2,2-Dichloropropane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	594-20-7	
1,1-Dichloropropene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	563-58-6	
cis-1,3-Dichloropropene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	10061-01-5	
trans-1,3-Dichloropropene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	10061-02-6	
Ethylbenzene	**<33.9**	ug/kg	67.8	33.9	1	05/13/09 00:00	05/14/09 19:17	100-41-4	
Hexachloro-1,3-butadiene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	87-68-3	
Isopropylbenzene (Cumene)	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	98-82-8	
p-Isopropyltoluene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	99-87-6	
Methylene Chloride	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	75-09-2	
Methyl-tert-butyl ether	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	1634-04-4	
Naphthalene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	91-20-3	
n-Propylbenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	103-65-1	
Styrene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	100-42-5	
1,1,1,2-Tetrachloroethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	630-20-6	
1,1,2,2-Tetrachloroethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	79-34-5	
Tetrachloroethene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	127-18-4	
Toluene	**<33.9**	ug/kg	67.8	33.9	1	05/13/09 00:00	05/14/09 19:17	108-88-3	
1,2,3-Trichlorobenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	87-61-6	
1,2,4-Trichlorobenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	120-82-1	
1,1,1-Trichloroethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	71-55-6	
1,1,2-Trichloroethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	79-00-5	
Trichloroethene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	79-01-6	
Trichlorofluoromethane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	75-69-4	
1,2,3-Trichloropropane	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	96-18-4	
1,2,4-Trimethylbenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	95-63-6	
1,3,5-Trimethylbenzene	**<136**	ug/kg	271	136	1	05/13/09 00:00	05/14/09 19:17	108-67-8	
Vinyl chloride	**<33.9**	ug/kg	67.8	33.9	1	05/13/09 00:00	05/14/09 19:17	75-01-4	
Xylene (Total)	**<102**	ug/kg	203	102	1	05/13/09 00:00	05/14/09 19:17	1330-20-7	
Dibromofluoromethane (S)	101	%	61-139		1	05/13/09 00:00	05/14/09 19:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	68-136		1	05/13/09 00:00	05/14/09 19:17	17060-07-0	
Toluene-d8 (S)	96	%	68-133		1	05/13/09 00:00	05/14/09 19:17	2037-26-5	
4-Bromofluorobenzene (S)	93	%	68-126		1	05/13/09 00:00	05/14/09 19:17	460-00-4	
9045 pH	Analytical Method: EPA 9045								
pH at 25 Degrees C	**8.2**	Std. Units	0.10	0.050	1		05/12/09 12:30		

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: SS3 **Lab ID: 1094676003** Collected: 05/06/09 17:00 Received: 05/08/09 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**3.3**	mg/kg	0.53	0.29	1	05/12/09 14:10	05/13/09 11:18	7440-38-2	
Barium	**100**	mg/kg	0.53	0.26	1	05/12/09 14:10	05/13/09 11:18	7440-39-3	
Cadmium	**0.53**	mg/kg	0.053	0.026	1	05/12/09 14:10	05/13/09 11:18	7440-43-9	
Chromium	**4.5**	mg/kg	0.53	0.26	1	05/12/09 14:10	05/13/09 11:18	7440-47-3	
Lead	**10.5**	mg/kg	0.32	0.16	1	05/12/09 14:10	05/13/09 11:18	7439-92-1	
Selenium	**0.74J**	mg/kg	0.79	0.39	1	05/12/09 14:10	05/13/09 11:18	7782-49-2	
Silver	**<0.26**	mg/kg	0.53	0.26	1	05/12/09 14:10	05/13/09 11:18	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.015J**	mg/kg	0.022	0.011	1	05/12/09 18:54	05/13/09 13:09	7439-97-6	
Dry Weight	Analytical Method: % Moisture								
Percent Moisture	**20.2**	%	0.10	0.10	1		05/14/09 00:00		
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<31.3**	ug/kg	62.7	31.3	1	05/13/09 00:00	05/14/09 19:38	71-43-2	
Bromobenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	108-86-1	
Bromochloromethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	74-97-5	
Bromodichloromethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	75-27-4	
Bromoform	**<251**	ug/kg	502	251	1	05/13/09 00:00	05/14/09 19:38	75-25-2	
Bromomethane	**<313**	ug/kg	627	313	1	05/13/09 00:00	05/14/09 19:38	74-83-9	
n-Butylbenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	104-51-8	
sec-Butylbenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	135-98-8	
tert-Butylbenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	98-06-6	
Carbon tetrachloride	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	56-23-5	
Chlorobenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	108-90-7	
Chloroethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	75-00-3	
Chloroform	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	67-66-3	
Chloromethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	74-87-3	
2-Chlorotoluene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	95-49-8	
4-Chlorotoluene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	106-43-4	
1,2-Dibromo-3-chloropropane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	96-12-8	
Dibromochloromethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	124-48-1	
1,2-Dibromoethane (EDB)	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	106-93-4	
Dibromomethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	74-95-3	
1,2-Dichlorobenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	95-50-1	
1,3-Dichlorobenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	541-73-1	
1,4-Dichlorobenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	106-46-7	
Dichlorodifluoromethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	75-71-8	
1,1-Dichloroethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	75-34-3	
1,2-Dichloroethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	107-06-2	
1,1-Dichloroethene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	75-35-4	
cis-1,2-Dichloroethene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	156-59-2	
trans-1,2-Dichloroethene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	156-60-5	
1,2-Dichloropropane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	78-87-5	

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: SS3 **Lab ID: 1094676003** Collected: 05/06/09 17:00 Received: 05/08/09 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,3-Dichloropropane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	142-28-9	
2,2-Dichloropropane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	594-20-7	
1,1-Dichloropropene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	563-58-6	
cis-1,3-Dichloropropene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	10061-01-5	
trans-1,3-Dichloropropene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	10061-02-6	
Ethylbenzene	**<31.3**	ug/kg	62.7	31.3	1	05/13/09 00:00	05/14/09 19:38	100-41-4	
Hexachloro-1,3-butadiene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	87-68-3	
Isopropylbenzene (Cumene)	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	98-82-8	
p-Isopropyltoluene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	99-87-6	
Methylene Chloride	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	75-09-2	
Methyl-tert-butyl ether	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	1634-04-4	
Naphthalene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	91-20-3	
n-Propylbenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	103-65-1	
Styrene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	100-42-5	
1,1,1,2-Tetrachloroethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	630-20-6	
1,1,2,2-Tetrachloroethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	79-34-5	
Tetrachloroethene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	127-18-4	
Toluene	**<31.3**	ug/kg	62.7	31.3	1	05/13/09 00:00	05/14/09 19:38	108-88-3	
1,2,3-Trichlorobenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	87-61-6	
1,2,4-Trichlorobenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	120-82-1	
1,1,1-Trichloroethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	71-55-6	
1,1,2-Trichloroethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	79-00-5	
Trichloroethene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	79-01-6	
Trichlorofluoromethane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	75-69-4	
1,2,3-Trichloropropane	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	96-18-4	
1,2,4-Trimethylbenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	95-63-6	
1,3,5-Trimethylbenzene	**<125**	ug/kg	251	125	1	05/13/09 00:00	05/14/09 19:38	108-67-8	
Vinyl chloride	**<31.3**	ug/kg	62.7	31.3	1	05/13/09 00:00	05/14/09 19:38	75-01-4	
Xylene (Total)	**<94.0**	ug/kg	188	94.0	1	05/13/09 00:00	05/14/09 19:38	1330-20-7	
Dibromofluoromethane (S)	95	%	61-139		1	05/13/09 00:00	05/14/09 19:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	68-136		1	05/13/09 00:00	05/14/09 19:38	17060-07-0	
Toluene-d8 (S)	93	%	68-133		1	05/13/09 00:00	05/14/09 19:38	2037-26-5	
4-Bromofluorobenzene (S)	93	%	68-126		1	05/13/09 00:00	05/14/09 19:38	460-00-4	
9045 pH	Analytical Method: EPA 9045								
pH at 25 Degrees C	**9.0**	Std. Units	0.10	0.050	1		05/12/09 12:30		

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: SS4 **Lab ID: 1094676004** Collected: 05/06/09 17:05 Received: 05/08/09 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**8.5**	mg/kg	0.58	0.33	1	05/12/09 14:11	05/13/09 11:24	7440-38-2	
Barium	**820**	mg/kg	0.58	0.29	1	05/12/09 14:11	05/13/09 11:24	7440-39-3	
Cadmium	**5.5**	mg/kg	0.058	0.029	1	05/12/09 14:11	05/13/09 11:24	7440-43-9	
Chromium	**16.8**	mg/kg	0.58	0.29	1	05/12/09 14:11	05/13/09 11:24	7440-47-3	
Lead	**74.6**	mg/kg	0.35	0.17	1	05/12/09 14:11	05/13/09 11:24	7439-92-1	
Selenium	**1.5**	mg/kg	0.87	0.44	1	05/12/09 14:11	05/13/09 11:24	7782-49-2	
Silver	**2.8**	mg/kg	0.58	0.29	1	05/12/09 14:11	05/13/09 11:24	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.12**	mg/kg	0.025	0.013	1	05/13/09 16:09	05/14/09 14:08	7439-97-6	
Dry Weight	Analytical Method: % Moisture								
Percent Moisture	**28.2**	%	0.10	0.10	1		05/14/09 00:00		
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<34.8**	ug/kg	69.7	34.8	1	05/13/09 00:00	05/14/09 20:00	71-43-2	
Bromobenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	108-86-1	
Bromochloromethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	74-97-5	
Bromodichloromethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	75-27-4	
Bromoform	**<279**	ug/kg	557	279	1	05/13/09 00:00	05/14/09 20:00	75-25-2	
Bromomethane	**<348**	ug/kg	697	348	1	05/13/09 00:00	05/14/09 20:00	74-83-9	
n-Butylbenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	104-51-8	
sec-Butylbenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	135-98-8	
tert-Butylbenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	98-06-6	
Carbon tetrachloride	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	56-23-5	
Chlorobenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	108-90-7	
Chloroethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	75-00-3	
Chloroform	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	67-66-3	
Chloromethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	74-87-3	
2-Chlorotoluene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	95-49-8	
4-Chlorotoluene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	96-12-8	
Dibromochloromethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	124-48-1	
1,2-Dibromoethane (EDB)	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	106-93-4	
Dibromomethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	74-95-3	
1,2-Dichlorobenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	95-50-1	
1,3-Dichlorobenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	541-73-1	
1,4-Dichlorobenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	106-46-7	
Dichlorodifluoromethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	75-71-8	
1,1-Dichloroethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	75-34-3	
1,2-Dichloroethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	107-06-2	
1,1-Dichloroethene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	75-35-4	
cis-1,2-Dichloroethene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	156-59-2	
trans-1,2-Dichloroethene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	156-60-5	
1,2-Dichloropropane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	78-87-5	

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: SS4 **Lab ID: 1094676004** Collected: 05/06/09 17:05 Received: 05/08/09 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,3-Dichloropropane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	142-28-9	
2,2-Dichloropropane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	594-20-7	
1,1-Dichloropropene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	563-58-6	
cis-1,3-Dichloropropene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	10061-01-5	
trans-1,3-Dichloropropene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	10061-02-6	
Ethylbenzene	**<34.8**	ug/kg	69.7	34.8	1	05/13/09 00:00	05/14/09 20:00	100-41-4	
Hexachloro-1,3-butadiene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	87-68-3	
Isopropylbenzene (Cumene)	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	98-82-8	
p-Isopropyltoluene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	99-87-6	
Methylene Chloride	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	75-09-2	
Methyl-tert-butyl ether	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	1634-04-4	
Naphthalene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	91-20-3	
n-Propylbenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	103-65-1	
Styrene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	630-20-6	
1,1,2,2-Tetrachloroethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	79-34-5	
Tetrachloroethene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	127-18-4	
Toluene	**<34.8**	ug/kg	69.7	34.8	1	05/13/09 00:00	05/14/09 20:00	108-88-3	
1,2,3-Trichlorobenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	87-61-6	
1,2,4-Trichlorobenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	120-82-1	
1,1,1-Trichloroethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	71-55-6	
1,1,2-Trichloroethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	79-00-5	
Trichloroethene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	79-01-6	
Trichlorofluoromethane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	75-69-4	
1,2,3-Trichloropropane	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	96-18-4	
1,2,4-Trimethylbenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	95-63-6	
1,3,5-Trimethylbenzene	**<139**	ug/kg	279	139	1	05/13/09 00:00	05/14/09 20:00	108-67-8	
Vinyl chloride	**<34.8**	ug/kg	69.7	34.8	1	05/13/09 00:00	05/14/09 20:00	75-01-4	
Xylene (Total)	**<104**	ug/kg	209	104	1	05/13/09 00:00	05/14/09 20:00	1330-20-7	
Dibromofluoromethane (S)	103	%	61-139		1	05/13/09 00:00	05/14/09 20:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	68-136		1	05/13/09 00:00	05/14/09 20:00	17060-07-0	
Toluene-d8 (S)	101	%	68-133		1	05/13/09 00:00	05/14/09 20:00	2037-26-5	
4-Bromofluorobenzene (S)	97	%	68-126		1	05/13/09 00:00	05/14/09 20:00	460-00-4	
9045 pH	Analytical Method: EPA 9045								
pH at 25 Degrees C	**8.6**	Std. Units	0.10	0.050	1		05/12/09 12:30		

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: ELY SEPTIC **Lab ID: 1094676005** Collected: 05/05/09 16:45 Received: 05/08/09 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**19.3**	ug/L	10.0	5.0	1	05/13/09 17:16	05/15/09 14:27	7440-38-2	
Barium	**457**	ug/L	10.0	5.0	1	05/13/09 17:16	05/15/09 14:27	7440-39-3	
Cadmium	**0.93J**	ug/L	1.0	0.50	1	05/13/09 17:16	05/15/09 14:27	7440-43-9	
Chromium	**10.6**	ug/L	10.0	5.0	1	05/13/09 17:16	05/15/09 14:27	7440-47-3	
Lead	**17.8**	ug/L	3.0	1.5	1	05/13/09 17:16	05/15/09 14:27	7439-92-1	
Selenium	**26.3**	ug/L	15.0	7.5	1	05/13/09 17:16	05/15/09 14:27	7782-49-2	
Silver	**<5.0**	ug/L	10.0	5.0	1	05/13/09 17:16	05/15/09 14:27	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.12J**	ug/L	0.20	0.10	1	05/14/09 07:24	05/14/09 11:12	7439-97-6	
8260 VOC	Analytical Method: EPA 8260								
Acetone	**<5.0**	ug/L	10.0	5.0	1		05/12/09 01:50	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	71-43-2	
Bromobenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	108-86-1	
Bromochloromethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	75-27-4	
Bromoform	**<4.0**	ug/L	8.0	4.0	1		05/12/09 01:50	75-25-2	
Bromomethane	**<2.0**	ug/L	4.0	2.0	1		05/12/09 01:50	74-83-9	
2-Butanone (MEK)	**<2.0**	ug/L	4.0	2.0	1		05/12/09 01:50	78-93-3	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	104-51-8	
sec-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	135-98-8	
tert-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	108-90-7	
Chloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	75-00-3	
Chloroform	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	67-66-3	
Chloromethane	**<2.0**	ug/L	4.0	2.0	1		05/12/09 01:50	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	95-49-8	
4-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	4.0	2.0	1		05/12/09 01:50	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	124-48-1	
1,2-Dibromoethane (EDB)	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	106-93-4	
Dibromomethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	541-73-1	
1,4-Dichlorobenzene	**0.95J**	ug/L	1.0	0.50	1		05/12/09 01:50	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	75-71-8	
1,1-Dichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	75-35-4	
cis-1,2-Dichloroethene	**3.5**	ug/L	1.0	0.50	1		05/12/09 01:50	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	156-60-5	
Dichlorofluoromethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	75-43-4	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	142-28-9	

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: ELY SEPTIC **Lab ID: 1094676005** Collected: 05/05/09 16:45 Received: 05/08/09 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260								
2,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	594-20-7	
1,1-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	563-58-6	
cis-1,3-Dichloropropene	**<2.0**	ug/L	4.0	2.0	1		05/12/09 01:50	10061-01-5	
trans-1,3-Dichloropropene	**<2.0**	ug/L	4.0	2.0	1		05/12/09 01:50	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	100-41-4	
Hexachloro-1,3-butadiene	**<2.0**	ug/L	4.0	2.0	1		05/12/09 01:50	87-68-3	
Isopropylbenzene (Cumene)	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	99-87-6	
Methylene Chloride	**<2.0**	ug/L	4.0	2.0	1		05/12/09 01:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<2.0**	ug/L	4.0	2.0	1		05/12/09 01:50	108-10-1	
Methyl-tert-butyl ether	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	1634-04-4	
Naphthalene	**<2.0**	ug/L	4.0	2.0	1		05/12/09 01:50	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	108-88-3	
1,2,3-Trichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	87-61-6	
1,2,4-Trichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	71-55-6	
1,1,2-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	79-00-5	
Trichloroethene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 01:50	76-13-1	
1,2,4-Trimethylbenzene	**1.4**	ug/L	1.0	0.50	1		05/12/09 01:50	95-63-6	
1,3,5-Trimethylbenzene	**0.60J**	ug/L	1.0	0.50	1		05/12/09 01:50	108-67-8	
Vinyl chloride	**<0.20**	ug/L	0.40	0.20	1		05/12/09 01:50	75-01-4	
Xylene (Total)	**2.2J**	ug/L	3.0	1.5	1		05/12/09 01:50	1330-20-7	
m&p-Xylene	**1.5J**	ug/L	2.0	1.0	1		05/12/09 01:50	1330-20-7	
o-Xylene	**0.77J**	ug/L	1.0	0.50	1		05/12/09 01:50	95-47-6	
Dibromofluoromethane (S)	99	%	75-125		1		05/12/09 01:50	1868-53-7	pH
1,2-Dichloroethane-d4 (S)	108	%	75-125		1		05/12/09 01:50	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1		05/12/09 01:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		05/12/09 01:50	460-00-4	
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010								
Flashpoint	**>210**	deg F			1		05/13/09 14:30		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**8.2**	Std. Units	0.10		1		05/11/09 13:45		H6
734S Reactive Sulfide	Analytical Method: SW-846 7.3.4.2 Modified								
Sulfide, Reactive	**2.0J**	mg/L	10.0	0.94	1		05/15/09 00:00		

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: ELY SEPTIC **Lab ID: 1094676005** Collected: 05/05/09 16:45 Received: 05/08/09 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
733C Reactive Cyanide	Analytical Method: SW-846 7.3.3.2 Modified								
Cyanide, Reactive	**<0.00080**	mg/L	0.0050	0.00080	1		05/14/09 17:55		

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: DUP **Lab ID: 1094676006** Collected: 05/05/09 00:00 Received: 05/08/09 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**13.3**	ug/L	10.0	5.0	1	05/13/09 17:16	05/15/09 14:34	7440-38-2	
Barium	**149**	ug/L	10.0	5.0	1	05/13/09 17:16	05/15/09 14:34	7440-39-3	
Cadmium	**<0.50**	ug/L	1.0	0.50	1	05/13/09 17:16	05/15/09 14:34	7440-43-9	
Chromium	**<5.0**	ug/L	10.0	5.0	1	05/13/09 17:16	05/15/09 14:34	7440-47-3	
Lead	**<1.5**	ug/L	3.0	1.5	1	05/13/09 17:16	05/15/09 14:34	7439-92-1	
Selenium	**26.7**	ug/L	15.0	7.5	1	05/13/09 17:16	05/15/09 14:34	7782-49-2	
Silver	**<5.0**	ug/L	10.0	5.0	1	05/13/09 17:16	05/15/09 14:34	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.10**	ug/L	0.20	0.10	1	05/14/09 07:24	05/14/09 11:19	7439-97-6	
8260 VOC	Analytical Method: EPA 8260								
Acetone	**<5.0**	ug/L	10.0	5.0	1		05/12/09 02:12	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	71-43-2	
Bromobenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	108-86-1	
Bromochloromethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	75-27-4	
Bromoform	**<4.0**	ug/L	8.0	4.0	1		05/12/09 02:12	75-25-2	
Bromomethane	**<2.0**	ug/L	4.0	2.0	1		05/12/09 02:12	74-83-9	
2-Butanone (MEK)	**<2.0**	ug/L	4.0	2.0	1		05/12/09 02:12	78-93-3	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	104-51-8	
sec-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	135-98-8	
tert-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	108-90-7	
Chloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	75-00-3	
Chloroform	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	67-66-3	
Chloromethane	**<2.0**	ug/L	4.0	2.0	1		05/12/09 02:12	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	95-49-8	
4-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	4.0	2.0	1		05/12/09 02:12	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	124-48-1	
1,2-Dibromoethane (EDB)	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	106-93-4	
Dibromomethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	541-73-1	
1,4-Dichlorobenzene	**0.94J**	ug/L	1.0	0.50	1		05/12/09 02:12	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	75-71-8	
1,1-Dichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	75-35-4	
cis-1,2-Dichloroethene	**3.6**	ug/L	1.0	0.50	1		05/12/09 02:12	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	156-60-5	
Dichlorofluoromethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	75-43-4	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	142-28-9	

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: DUP **Lab ID: 1094676006** Collected: 05/05/09 00:00 Received: 05/08/09 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260								
2,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	594-20-7	
1,1-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	563-58-6	
cis-1,3-Dichloropropene	**<2.0**	ug/L	4.0	2.0	1		05/12/09 02:12	10061-01-5	
trans-1,3-Dichloropropene	**<2.0**	ug/L	4.0	2.0	1		05/12/09 02:12	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	100-41-4	
Hexachloro-1,3-butadiene	**<2.0**	ug/L	4.0	2.0	1		05/12/09 02:12	87-68-3	
Isopropylbenzene (Cumene)	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	99-87-6	
Methylene Chloride	**<2.0**	ug/L	4.0	2.0	1		05/12/09 02:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<2.0**	ug/L	4.0	2.0	1		05/12/09 02:12	108-10-1	
Methyl-tert-butyl ether	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	1634-04-4	
Naphthalene	**<2.0**	ug/L	4.0	2.0	1		05/12/09 02:12	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	108-88-3	
1,2,3-Trichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	87-61-6	
1,2,4-Trichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	71-55-6	
1,1,2-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	79-00-5	
Trichloroethene	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.50**	ug/L	1.0	0.50	1		05/12/09 02:12	76-13-1	
1,2,4-Trimethylbenzene	**1.5**	ug/L	1.0	0.50	1		05/12/09 02:12	95-63-6	
1,3,5-Trimethylbenzene	**0.60J**	ug/L	1.0	0.50	1		05/12/09 02:12	108-67-8	
Vinyl chloride	**<0.20**	ug/L	0.40	0.20	1		05/12/09 02:12	75-01-4	
Xylene (Total)	**2.0J**	ug/L	3.0	1.5	1		05/12/09 02:12	1330-20-7	
m&p-Xylene	**1.3J**	ug/L	2.0	1.0	1		05/12/09 02:12	1330-20-7	
o-Xylene	**0.67J**	ug/L	1.0	0.50	1		05/12/09 02:12	95-47-6	
Dibromofluoromethane (S)	96	%	75-125		1		05/12/09 02:12	1868-53-7	pH
1,2-Dichloroethane-d4 (S)	105	%	75-125		1		05/12/09 02:12	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1		05/12/09 02:12	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1		05/12/09 02:12	460-00-4	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**8.0**	Std. Units	0.10		1		05/11/09 13:45		H6

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: TRIP BLANK **Lab ID: 1094676007** Collected: Received: 05/08/09 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	05/13/09 00:00	05/14/09 16:46	71-43-2	
Bromobenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	108-86-1	
Bromochloromethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	74-97-5	
Bromodichloromethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	75-27-4	
Bromoform	**<200**	ug/kg	400	200	1	05/13/09 00:00	05/14/09 16:46	75-25-2	
Bromomethane	**<250**	ug/kg	500	250	1	05/13/09 00:00	05/14/09 16:46	74-83-9	
n-Butylbenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	104-51-8	
sec-Butylbenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	135-98-8	
tert-Butylbenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	98-06-6	
Carbon tetrachloride	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	56-23-5	
Chlorobenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	108-90-7	
Chloroethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	75-00-3	
Chloroform	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	67-66-3	
Chloromethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	74-87-3	
2-Chlorotoluene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	95-49-8	
4-Chlorotoluene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	106-43-4	
1,2-Dibromo-3-chloropropane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	96-12-8	
Dibromochloromethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	124-48-1	
1,2-Dibromoethane (EDB)	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	106-93-4	
Dibromomethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	74-95-3	
1,2-Dichlorobenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	95-50-1	
1,3-Dichlorobenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	541-73-1	
1,4-Dichlorobenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	106-46-7	
Dichlorodifluoromethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	75-71-8	
1,1-Dichloroethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	75-34-3	
1,2-Dichloroethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	107-06-2	
1,1-Dichloroethene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	75-35-4	
cis-1,2-Dichloroethene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	156-59-2	
trans-1,2-Dichloroethene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	156-60-5	
1,2-Dichloropropane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	78-87-5	
1,3-Dichloropropane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	142-28-9	
2,2-Dichloropropane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	594-20-7	
1,1-Dichloropropene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	563-58-6	
cis-1,3-Dichloropropene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	10061-01-5	
trans-1,3-Dichloropropene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	10061-02-6	
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	05/13/09 00:00	05/14/09 16:46	100-41-4	
Hexachloro-1,3-butadiene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	87-68-3	
Isopropylbenzene (Cumene)	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	98-82-8	
p-Isopropyltoluene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	99-87-6	
Methylene Chloride	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	75-09-2	
Methyl-tert-butyl ether	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	1634-04-4	
Naphthalene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	91-20-3	
n-Propylbenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	103-65-1	
Styrene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	100-42-5	
1,1,1,2-Tetrachloroethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	630-20-6	

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ANALYTICAL RESULTS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Sample: TRIP BLANK **Lab ID: 1094676007** Collected: Received: 05/08/09 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,2,2-Tetrachloroethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	79-34-5	
Tetrachloroethene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	127-18-4	
Toluene	**<25.0**	ug/kg	50.0	25.0	1	05/13/09 00:00	05/14/09 16:46	108-88-3	
1,2,3-Trichlorobenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	87-61-6	
1,2,4-Trichlorobenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	120-82-1	
1,1,1-Trichloroethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	71-55-6	
1,1,2-Trichloroethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	79-00-5	
Trichloroethene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	79-01-6	
Trichlorofluoromethane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	75-69-4	
1,2,3-Trichloropropane	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	96-18-4	
1,2,4-Trimethylbenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	95-63-6	
1,3,5-Trimethylbenzene	**<100**	ug/kg	200	100	1	05/13/09 00:00	05/14/09 16:46	108-67-8	
Vinyl chloride	**<25.0**	ug/kg	50.0	25.0	1	05/13/09 00:00	05/14/09 16:46	75-01-4	
Xylene (Total)	**<75.0**	ug/kg	150	75.0	1	05/13/09 00:00	05/14/09 16:46	1330-20-7	
Dibromofluoromethane (S)	120	%	61-139		1	05/13/09 00:00	05/14/09 16:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	68-136		1	05/13/09 00:00	05/14/09 16:46	17060-07-0	
Toluene-d8 (S)	116	%	68-133		1	05/13/09 00:00	05/14/09 16:46	2037-26-5	
4-Bromofluorobenzene (S)	113	%	68-126		1	05/13/09 00:00	05/14/09 16:46	460-00-4	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: WET/3573
QC Batch Method: EPA 1010
Analysis Method: EPA 1010
Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 1094676005

SAMPLE DUPLICATE: 157382

Parameter	Units	1094671006 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	>210	>210			

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: WET/16016 Analysis Method: EPA 9045
QC Batch Method: EPA 9045 Analysis Description: 9045 pH
Associated Lab Samples: 1094676001, 1094676002, 1094676003, 1094676004

LABORATORY CONTROL SAMPLE: 617669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.1	102	98-102	

SAMPLE DUPLICATE: 617668

Parameter	Units	1094461001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	8.0	1	3	1M

SAMPLE DUPLICATE: 619073

Parameter	Units	1094676002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.2	1	3	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: MPRP/15632 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 1094676001, 1094676002, 1094676003, 1094676004

METHOD BLANK: 618554 Matrix: Solid
Associated Lab Samples: 1094676001, 1094676002, 1094676003, 1094676004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.26	0.46	05/13/09 10:04	
Barium	mg/kg	<0.23	0.46	05/13/09 10:04	
Cadmium	mg/kg	<0.023	0.046	05/13/09 10:04	
Chromium	mg/kg	<0.23	0.46	05/13/09 10:04	
Lead	mg/kg	<0.14	0.28	05/13/09 10:04	
Selenium	mg/kg	<0.34	0.69	05/13/09 10:04	
Silver	mg/kg	<0.23	0.46	05/13/09 10:04	

LABORATORY CONTROL SAMPLE: 618555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	45.5	39.6	87	80-120	
Barium	mg/kg	45.5	41.1	90	80-120	
Cadmium	mg/kg	45.5	39.5	87	80-120	
Chromium	mg/kg	45.5	40.6	89	80-120	
Lead	mg/kg	45.5	40.9	90	80-120	
Selenium	mg/kg	45.5	38.0	84	80-120	
Silver	mg/kg	22.7	19.6	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 618556 618557

Parameter	Units	1094671001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	20.6	57	54.1	68.3	68.4	84	88	75-125	0	30	
Barium	mg/kg	420	57	54.1	500	477	141	105	75-125	5	30	M0
Cadmium	mg/kg	0.90	57	54.1	48.5	47.1	84	85	75-125	3	30	
Chromium	mg/kg	15.1	57	54.1	61.4	60.6	81	84	75-125	1	30	
Lead	mg/kg	29.6	57	54.1	75.4	74.9	80	84	75-125	1	30	
Selenium	mg/kg	0.85J	57	54.1	46.7	46.0	80	84	75-125	1	30	
Silver	mg/kg	<0.32	28.4	27.1	24.2	23.7	85	88	75-125	2	30	

MATRIX SPIKE SAMPLE: 618558

Parameter	Units	1094688016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	1.6	67.4	49.1	71	75-125	M0
Barium	mg/kg	137	67.4	159	32	75-125	M0
Cadmium	mg/kg	0.085	67.4	49.3	73	75-125	M0
Chromium	mg/kg	5.1	67.4	52.2	70	75-125	M0

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

MATRIX SPIKE SAMPLE: 618558

Parameter	Units	1094688016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	3.8	67.4	51.1	70	75-125	M0
Selenium	mg/kg	1.1	67.4	49.3	72	75-125	M0
Silver	mg/kg	0.96	33.6	25.5	73	75-125	M0

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: MERP/3422 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 1094676001, 1094676002

METHOD BLANK: 618585 Matrix: Solid
Associated Lab Samples: 1094676001, 1094676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.0094	0.019	05/12/09 11:29	

LABORATORY CONTROL SAMPLE: 618586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.44	0.44	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 618587 618588

Parameter	Units	1094596004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.063	.49	.52	0.56	0.58	101	99	80-120	3	20	

MATRIX SPIKE SAMPLE: 618589

Parameter	Units	1094676002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.097	.58	0.73	110	80-120	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: WET/16027
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 1094676005, 1094676006

LABORATORY CONTROL SAMPLE: 618694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.0	100	98-102	H6

SAMPLE DUPLICATE: 618692

Parameter	Units	1094671007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.7	1	3	H6

SAMPLE DUPLICATE: 618693

Parameter	Units	1094699003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	3	H6

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: MERP/3431 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 1094676003

METHOD BLANK: 618857 Matrix: Solid
Associated Lab Samples: 1094676003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.0088	0.018	05/13/09 12:49	

LABORATORY CONTROL SAMPLE: 618858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.48	0.51	105	80-120	

MATRIX SPIKE SAMPLE: 618861

Parameter	Units	1094704001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	1.1	3	4.8	123	80-120	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619603 619604

Parameter	Units	1094719002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.088	.5	.52	0.66	0.66	114	111	80-120	1	20	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: MSV/12220 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 1094676005, 1094676006

METHOD BLANK: 618888 Matrix: Water
Associated Lab Samples: 1094676005, 1094676006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	1.0	05/11/09 23:37	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	05/11/09 23:37	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	1.0	05/11/09 23:37	
1,1,2-Trichloroethane	ug/L	<0.50	1.0	05/11/09 23:37	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	1.0	05/11/09 23:37	
1,1-Dichloroethane	ug/L	<0.50	1.0	05/11/09 23:37	
1,1-Dichloroethene	ug/L	<0.50	1.0	05/11/09 23:37	
1,1-Dichloropropene	ug/L	<0.50	1.0	05/11/09 23:37	
1,2,3-Trichlorobenzene	ug/L	<0.50	1.0	05/11/09 23:37	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	05/11/09 23:37	
1,2,4-Trichlorobenzene	ug/L	<0.50	1.0	05/11/09 23:37	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	05/11/09 23:37	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	4.0	05/11/09 23:37	
1,2-Dibromoethane (EDB)	ug/L	<0.50	1.0	05/11/09 23:37	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	05/11/09 23:37	
1,2-Dichloroethane	ug/L	<0.50	1.0	05/11/09 23:37	
1,2-Dichloropropane	ug/L	<0.50	1.0	05/11/09 23:37	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	05/11/09 23:37	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	05/11/09 23:37	
1,3-Dichloropropane	ug/L	<0.50	1.0	05/11/09 23:37	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	05/11/09 23:37	
2,2-Dichloropropane	ug/L	<0.50	1.0	05/11/09 23:37	
2-Butanone (MEK)	ug/L	<2.0	4.0	05/11/09 23:37	
2-Chlorotoluene	ug/L	<0.50	1.0	05/11/09 23:37	
4-Chlorotoluene	ug/L	<0.50	1.0	05/11/09 23:37	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.0	4.0	05/11/09 23:37	
Acetone	ug/L	<5.0	10.0	05/11/09 23:37	
Benzene	ug/L	<0.50	1.0	05/11/09 23:37	
Bromobenzene	ug/L	<0.50	1.0	05/11/09 23:37	
Bromochloromethane	ug/L	<0.50	1.0	05/11/09 23:37	
Bromodichloromethane	ug/L	<0.50	1.0	05/11/09 23:37	
Bromoform	ug/L	<4.0	8.0	05/11/09 23:37	
Bromomethane	ug/L	<2.0	4.0	05/11/09 23:37	
Carbon tetrachloride	ug/L	<0.50	1.0	05/11/09 23:37	
Chlorobenzene	ug/L	<0.50	1.0	05/11/09 23:37	
Chloroethane	ug/L	<0.50	1.0	05/11/09 23:37	
Chloroform	ug/L	<0.50	1.0	05/11/09 23:37	
Chloromethane	ug/L	<2.0	4.0	05/11/09 23:37	
cis-1,2-Dichloroethene	ug/L	<0.50	1.0	05/11/09 23:37	
cis-1,3-Dichloropropene	ug/L	<2.0	4.0	05/11/09 23:37	
Dibromochloromethane	ug/L	<0.50	1.0	05/11/09 23:37	
Dibromomethane	ug/L	<0.50	1.0	05/11/09 23:37	
Dichlorodifluoromethane	ug/L	<0.50	1.0	05/11/09 23:37	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

METHOD BLANK: 618888 Matrix: Water

Associated Lab Samples: 1094676005, 1094676006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorofluoromethane	ug/L	<0.50	1.0	05/11/09 23:37	
Ethylbenzene	ug/L	<0.50	1.0	05/11/09 23:37	
Hexachloro-1,3-butadiene	ug/L	<2.0	4.0	05/11/09 23:37	
Isopropylbenzene (Cumene)	ug/L	<0.50	1.0	05/11/09 23:37	
m&p-Xylene	ug/L	<1.0	2.0	05/11/09 23:37	
Methyl-tert-butyl ether	ug/L	<0.50	1.0	05/11/09 23:37	
Methylene Chloride	ug/L	<2.0	4.0	05/11/09 23:37	
n-Butylbenzene	ug/L	<0.50	1.0	05/11/09 23:37	
n-Propylbenzene	ug/L	<0.50	1.0	05/11/09 23:37	
Naphthalene	ug/L	<2.0	4.0	05/11/09 23:37	
o-Xylene	ug/L	<0.50	1.0	05/11/09 23:37	
p-Isopropyltoluene	ug/L	<0.50	1.0	05/11/09 23:37	
sec-Butylbenzene	ug/L	<0.50	1.0	05/11/09 23:37	
Styrene	ug/L	<0.50	1.0	05/11/09 23:37	
tert-Butylbenzene	ug/L	<0.50	1.0	05/11/09 23:37	
Tetrachloroethene	ug/L	<0.50	1.0	05/11/09 23:37	
Toluene	ug/L	<0.50	1.0	05/11/09 23:37	
trans-1,2-Dichloroethene	ug/L	<0.50	1.0	05/11/09 23:37	
trans-1,3-Dichloropropene	ug/L	<2.0	4.0	05/11/09 23:37	
Trichloroethene	ug/L	<0.50	1.0	05/11/09 23:37	
Trichlorofluoromethane	ug/L	<0.50	1.0	05/11/09 23:37	
Vinyl chloride	ug/L	<0.20	0.40	05/11/09 23:37	
Xylene (Total)	ug/L	<1.5	3.0	05/11/09 23:37	
1,2-Dichloroethane-d4 (S)	%	105	75-125	05/11/09 23:37	
4-Bromofluorobenzene (S)	%	102	75-125	05/11/09 23:37	
Dibromofluoromethane (S)	%	97	75-125	05/11/09 23:37	
Toluene-d8 (S)	%	105	75-125	05/11/09 23:37	

LABORATORY CONTROL SAMPLE: 618889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.4	97	75-125	
1,1,1-Trichloroethane	ug/L	50	44.3	89	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	45.7	91	75-125	
1,1,2-Trichloroethane	ug/L	50	51.0	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	38.9	78	70-138	
1,1-Dichloroethane	ug/L	50	44.7	89	75-125	
1,1-Dichloroethene	ug/L	50	39.5	79	69-129	
1,1-Dichloropropene	ug/L	50	42.6	85	75-126	
1,2,3-Trichlorobenzene	ug/L	50	47.9	96	75-125	
1,2,3-Trichloropropane	ug/L	50	47.2	94	72-126	
1,2,4-Trichlorobenzene	ug/L	50	51.1	102	75-125	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	49.5	99	67-125	
1,2-Dibromoethane (EDB)	ug/L	50	46.5	93	75-125	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

LABORATORY CONTROL SAMPLE: 618889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	47.5	95	75-125	
1,2-Dichloroethane	ug/L	50	47.8	96	75-125	
1,2-Dichloropropane	ug/L	50	46.2	92	75-125	
1,3,5-Trimethylbenzene	ug/L	50	47.0	94	75-125	
1,3-Dichlorobenzene	ug/L	50	46.7	93	75-125	
1,3-Dichloropropane	ug/L	50	51.1	102	75-125	
1,4-Dichlorobenzene	ug/L	50	46.0	92	75-125	
2,2-Dichloropropane	ug/L	50	43.0	86	48-150	
2-Butanone (MEK)	ug/L	50	45.6	91	51-134	
2-Chlorotoluene	ug/L	50	47.1	94	75-125	
4-Chlorotoluene	ug/L	50	48.3	97	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.8	92	60-125	
Acetone	ug/L	125	118	94	38-125	
Benzene	ug/L	50	45.6	91	75-125	
Bromobenzene	ug/L	50	46.8	94	75-125	
Bromochloromethane	ug/L	50	43.8	88	75-125	
Bromodichloromethane	ug/L	50	47.6	95	75-125	
Bromoform	ug/L	100	102	102	68-125	
Bromomethane	ug/L	50	58.3	117	47-129	
Carbon tetrachloride	ug/L	50	41.5	83	59-133	
Chlorobenzene	ug/L	50	45.3	91	75-125	
Chloroethane	ug/L	50	44.9	90	73-132	
Chloroform	ug/L	50	46.4	93	75-125	
Chloromethane	ug/L	50	46.3	93	72-125	
cis-1,2-Dichloroethene	ug/L	50	47.4	95	75-125	
cis-1,3-Dichloropropene	ug/L	50	49.5	99	75-125	
Dibromochloromethane	ug/L	50	51.4	103	75-125	
Dibromomethane	ug/L	50	41.9	84	75-125	
Dichlorodifluoromethane	ug/L	50	52.9	106	69-134	
Dichlorofluoromethane	ug/L	50	43.2	86	70-125	
Ethylbenzene	ug/L	50	49.4	99	75-125	
Hexachloro-1,3-butadiene	ug/L	50	45.6	91	75-137	
Isopropylbenzene (Cumene)	ug/L	50	45.2	90	75-125	
m&p-Xylene	ug/L	100	91.6	92	75-125	
Methyl-tert-butyl ether	ug/L	50	49.8	100	75-125	
Methylene Chloride	ug/L	50	44.7	89	75-125	
n-Butylbenzene	ug/L	50	47.0	94	75-125	
n-Propylbenzene	ug/L	50	45.5	91	75-125	
Naphthalene	ug/L	50	51.2	102	72-125	
o-Xylene	ug/L	50	49.5	99	75-125	
p-Isopropyltoluene	ug/L	50	44.7	89	75-125	
sec-Butylbenzene	ug/L	50	44.4	89	75-125	
Styrene	ug/L	50	50.1	100	75-125	
tert-Butylbenzene	ug/L	50	46.0	92	75-125	
Tetrachloroethene	ug/L	50	43.3	87	74-125	
Toluene	ug/L	50	48.1	96	75-125	
trans-1,2-Dichloroethene	ug/L	50	43.7	87	74-125	
trans-1,3-Dichloropropene	ug/L	50	52.0	104	75-125	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

LABORATORY CONTROL SAMPLE: 618889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	43.9	88	75-125	
Trichlorofluoromethane	ug/L	50	42.1	84	73-134	
Vinyl chloride	ug/L	50	46.3	93	75-126	
Xylene (Total)	ug/L	150	141	94	75-125	
1,2-Dichloroethane-d4 (S)	%			104	75-125	
4-Bromofluorobenzene (S)	%			104	75-125	
Dibromofluoromethane (S)	%			98	75-125	
Toluene-d8 (S)	%			104	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 618890 618891

Parameter	Units	1094714005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.5	19.1	98	96	71-125	2	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.9	21.6	105	108	75-125	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.6	18.5	93	92	75-126	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.2	19.0	101	95	75-125	6	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	25.9	26.7	130	133	70-150	3	30	
1,1-Dichloroethane	ug/L	ND	20	20	19.6	20.3	98	101	75-125	4	30	
1,1-Dichloroethene	ug/L	ND	20	20	20.9	21.1	105	106	64-142	1	30	
1,1-Dichloropropene	ug/L	ND	20	20	20.5	21.2	102	106	75-125	4	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.1	19.3	100	96	75-125	4	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.2	16.9	91	85	72-127	7	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.7	19.8	103	99	75-125	5	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.0	20.7	105	103	75-125	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.6	19.8	108	99	65-125	9	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.6	18.1	93	91	75-125	3	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.1	18.7	96	93	75-125	2	30	
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.9	95	95	75-125	1	30	
1,2-Dichloropropane	ug/L	ND	20	20	19.5	19.0	97	95	75-125	3	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	20.2	104	101	75-127	3	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.1	19.1	96	95	75-125	0	30	
1,3-Dichloropropane	ug/L	ND	20	20	20.0	19.6	100	98	75-125	2	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.6	18.7	98	93	75-125	5	30	
2,2-Dichloropropane	ug/L	ND	20	20	19.3	19.3	96	97	48-150	0	30	
2-Butanone (MEK)	ug/L	ND	20	20	18.7	18.9	93	95	51-134	1	30	
2-Chlorotoluene	ug/L	ND	20	20	20.7	20.1	104	101	75-125	3	30	
4-Chlorotoluene	ug/L	ND	20	20	20.3	20.0	101	100	68-127	1	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	18.3	17.5	92	88	60-135	5	30	
Acetone	ug/L	ND	50	50	41.7	45.4	83	91	30-125	9	30	
Benzene	ug/L	ND	20	20	19.8	20.5	99	103	75-125	4	30	
Bromobenzene	ug/L	ND	20	20	18.7	18.9	93	94	75-125	1	30	
Bromochloromethane	ug/L	ND	20	20	19.1	18.7	95	94	75-125	2	30	
Bromodichloromethane	ug/L	ND	20	20	20.2	19.4	101	97	72-125	4	30	
Bromoform	ug/L	ND	40	40	39.0	38.3	98	96	51-125	2	30	
Bromomethane	ug/L	ND	20	20	15.7	13.1	78	66	47-130	18	30	
Carbon tetrachloride	ug/L	ND	20	20	20.4	20.8	102	104	61-133	2	30	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 618890 618891

Parameter	Units	1094714005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	20	20	19.0	19.1	95	96	75-125	0	30	
Chloroethane	ug/L	ND	20	20	21.1	21.0	106	105	75-132	0	30	
Chloroform	ug/L	ND	20	20	19.3	20.3	97	102	75-125	5	30	
Chloromethane	ug/L	ND	20	20	21.6	21.3	108	106	68-132	1	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.7	20.9	98	104	75-125	6	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.1	19.1	101	95	63-125	5	30	
Dibromochloromethane	ug/L	ND	20	20	20.1	19.7	100	99	62-125	2	30	
Dibromomethane	ug/L	ND	20	20	19.3	20.1	96	101	75-125	4	30	
Dichlorodifluoromethane	ug/L	ND	20	20	36.3	36.3	181	181	65-150	0	30	M0
Dichlorofluoromethane	ug/L	ND	20	20	20.5	20.2	102	101	68-127	1	30	
Ethylbenzene	ug/L	ND	20	20	21.6	21.5	108	108	75-125	0	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.3	20.9	111	104	75-147	7	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.4	20.2	102	101	75-125	1	30	
m&p-Xylene	ug/L	ND	40	40	41.1	40.2	103	100	67-125	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.2	19.3	96	97	75-125	1	30	
Methylene Chloride	ug/L	ND	20	20	18.8	19.1	94	96	75-125	2	30	
n-Butylbenzene	ug/L	ND	20	20	21.6	21.5	108	107	70-135	0	30	
n-Propylbenzene	ug/L	ND	20	20	20.0	19.7	100	99	70-131	1	30	
Naphthalene	ug/L	ND	20	20	20.6	19.8	103	99	66-127	4	30	
o-Xylene	ug/L	ND	20	20	20.7	21.0	103	105	72-125	1	30	
p-Isopropyltoluene	ug/L	ND	20	20	20.5	20.4	102	102	71-126	0	30	
sec-Butylbenzene	ug/L	ND	20	20	21.2	20.7	106	103	75-127	2	30	
Styrene	ug/L	ND	20	20	20.3	20.3	102	101	30-134	0	30	
tert-Butylbenzene	ug/L	ND	20	20	21.1	20.1	105	101	75-125	5	30	
Tetrachloroethene	ug/L	ND	20	20	20.7	20.2	104	101	74-125	3	30	
Toluene	ug/L	ND	20	20	20.3	20.7	102	104	75-125	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.8	20.4	94	102	72-125	8	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.5	19.8	103	99	63-125	4	30	
Trichloroethene	ug/L	ND	20	20	20.5	19.0	102	95	58-127	7	30	
Trichlorofluoromethane	ug/L	ND	20	20	25.4	25.4	127	127	73-150	0	30	
Vinyl chloride	ug/L	ND	20	20	24.0	24.1	120	121	75-134	0	30	
Xylene (Total)	ug/L	ND	60	60	61.8	61.2	103	102	75-125	1	30	
1,2-Dichloroethane-d4 (S)	%						102	106	75-125			
4-Bromofluorobenzene (S)	%						109	104	75-125			
Dibromofluoromethane (S)	%						101	100	75-125			
Toluene-d8 (S)	%						102	104	75-125			

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: MPRP/15651 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 1094676005, 1094676006

METHOD BLANK: 619059 Matrix: Water
Associated Lab Samples: 1094676005, 1094676006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<5.0	10.0	05/15/09 13:46	
Barium	ug/L	<5.0	10.0	05/15/09 13:46	
Cadmium	ug/L	<0.50	1.0	05/15/09 13:46	
Chromium	ug/L	<5.0	10.0	05/15/09 13:46	
Lead	ug/L	<1.5	3.0	05/15/09 13:46	
Selenium	ug/L	<7.5	15.0	05/15/09 13:46	
Silver	ug/L	<5.0	10.0	05/15/09 13:46	

LABORATORY CONTROL SAMPLE: 619060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	915	92	80-120	
Barium	ug/L	1000	936	94	80-120	
Cadmium	ug/L	1000	926	93	80-120	
Chromium	ug/L	1000	920	92	80-120	
Lead	ug/L	1000	889	89	80-120	
Selenium	ug/L	1000	931	93	80-120	
Silver	ug/L	500	462	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619061 619062

Parameter	Units	1094671006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	21.5	1000	1000	987	981	97	96	80-120	1	30	
Barium	ug/L	734	1000	1000	1450	1420	71	69	80-120	2	30	M0
Cadmium	ug/L	1.4	1000	1000	939	949	94	95	80-120	1	30	
Chromium	ug/L	24.1	1000	1000	936	944	91	92	80-120	1	30	
Lead	ug/L	42.3	1000	1000	892	891	85	85	80-120	0	30	
Selenium	ug/L	23.7	1000	1000	963	965	94	94	80-120	0	30	
Silver	ug/L	<5.0	500	500	456	462	91	92	80-120	1	30	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: MERP/3432 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 1094676005, 1094676006

METHOD BLANK: 619063 Matrix: Water
Associated Lab Samples: 1094676005, 1094676006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.10	0.20	05/14/09 11:05	

LABORATORY CONTROL SAMPLE: 619064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 620342 620343

Parameter	Units	1094676005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.12J	5	5	5.4	6.0	106	118	80-120	10	20	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: MERP/3434 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 1094676004

METHOD BLANK: 619411 Matrix: Solid
Associated Lab Samples: 1094676004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.0091	0.018	05/14/09 13:55	

LABORATORY CONTROL SAMPLE: 619412

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.44	0.44	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619413 619414

Parameter	Units	1094717001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	4.1	.56	.57	4.8	2.7	129	-243	80-120	57	20	P6,R1

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: MSV/12232 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV 5030 Med Level
Associated Lab Samples: 1094676001, 1094676002, 1094676003, 1094676004, 1094676007

METHOD BLANK: 619719 Matrix: Solid
Associated Lab Samples: 1094676001, 1094676002, 1094676003, 1094676004, 1094676007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<100	200	05/14/09 15:41	
1,1,1-Trichloroethane	ug/kg	<100	200	05/14/09 15:41	
1,1,2,2-Tetrachloroethane	ug/kg	<100	200	05/14/09 15:41	
1,1,2-Trichloroethane	ug/kg	<100	200	05/14/09 15:41	
1,1-Dichloroethane	ug/kg	<100	200	05/14/09 15:41	
1,1-Dichloroethene	ug/kg	<100	200	05/14/09 15:41	
1,1-Dichloropropene	ug/kg	<100	200	05/14/09 15:41	
1,2,3-Trichlorobenzene	ug/kg	<100	200	05/14/09 15:41	
1,2,3-Trichloropropane	ug/kg	<100	200	05/14/09 15:41	
1,2,4-Trichlorobenzene	ug/kg	<100	200	05/14/09 15:41	
1,2,4-Trimethylbenzene	ug/kg	<100	200	05/14/09 15:41	
1,2-Dibromo-3-chloropropane	ug/kg	<100	200	05/14/09 15:41	
1,2-Dibromoethane (EDB)	ug/kg	<100	200	05/14/09 15:41	
1,2-Dichlorobenzene	ug/kg	<100	200	05/14/09 15:41	
1,2-Dichloroethane	ug/kg	<100	200	05/14/09 15:41	
1,2-Dichloropropane	ug/kg	<100	200	05/14/09 15:41	
1,3,5-Trimethylbenzene	ug/kg	<100	200	05/14/09 15:41	
1,3-Dichlorobenzene	ug/kg	<100	200	05/14/09 15:41	
1,3-Dichloropropane	ug/kg	<100	200	05/14/09 15:41	
1,4-Dichlorobenzene	ug/kg	<100	200	05/14/09 15:41	
2,2-Dichloropropane	ug/kg	<100	200	05/14/09 15:41	
2-Chlorotoluene	ug/kg	<100	200	05/14/09 15:41	
4-Chlorotoluene	ug/kg	<100	200	05/14/09 15:41	
Benzene	ug/kg	<25.0	50.0	05/14/09 15:41	
Bromobenzene	ug/kg	<100	200	05/14/09 15:41	
Bromochloromethane	ug/kg	<100	200	05/14/09 15:41	
Bromodichloromethane	ug/kg	<100	200	05/14/09 15:41	
Bromoform	ug/kg	<200	400	05/14/09 15:41	
Bromomethane	ug/kg	<250	500	05/14/09 15:41	
Carbon tetrachloride	ug/kg	<100	200	05/14/09 15:41	
Chlorobenzene	ug/kg	<100	200	05/14/09 15:41	
Chloroethane	ug/kg	<100	200	05/14/09 15:41	
Chloroform	ug/kg	<100	200	05/14/09 15:41	
Chloromethane	ug/kg	<100	200	05/14/09 15:41	
cis-1,2-Dichloroethene	ug/kg	<100	200	05/14/09 15:41	
cis-1,3-Dichloropropene	ug/kg	<100	200	05/14/09 15:41	
Dibromochloromethane	ug/kg	<100	200	05/14/09 15:41	
Dibromomethane	ug/kg	<100	200	05/14/09 15:41	
Dichlorodifluoromethane	ug/kg	<100	200	05/14/09 15:41	
Ethylbenzene	ug/kg	<25.0	50.0	05/14/09 15:41	
Hexachloro-1,3-butadiene	ug/kg	<100	200	05/14/09 15:41	
Isopropylbenzene (Cumene)	ug/kg	<100	200	05/14/09 15:41	
Methyl-tert-butyl ether	ug/kg	<100	200	05/14/09 15:41	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

METHOD BLANK: 619719 Matrix: Solid

Associated Lab Samples: 1094676001, 1094676002, 1094676003, 1094676004, 1094676007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methylene Chloride	ug/kg	<100	200	05/14/09 15:41	
n-Butylbenzene	ug/kg	<100	200	05/14/09 15:41	
n-Propylbenzene	ug/kg	<100	200	05/14/09 15:41	
Naphthalene	ug/kg	<100	200	05/14/09 15:41	
p-Isopropyltoluene	ug/kg	<100	200	05/14/09 15:41	
sec-Butylbenzene	ug/kg	<100	200	05/14/09 15:41	
Styrene	ug/kg	<100	200	05/14/09 15:41	
tert-Butylbenzene	ug/kg	<100	200	05/14/09 15:41	
Tetrachloroethene	ug/kg	<100	200	05/14/09 15:41	
Toluene	ug/kg	<25.0	50.0	05/14/09 15:41	
trans-1,2-Dichloroethene	ug/kg	<100	200	05/14/09 15:41	
trans-1,3-Dichloropropene	ug/kg	<100	200	05/14/09 15:41	
Trichloroethene	ug/kg	<100	200	05/14/09 15:41	
Trichlorofluoromethane	ug/kg	<100	200	05/14/09 15:41	
Vinyl chloride	ug/kg	<25.0	50.0	05/14/09 15:41	
Xylene (Total)	ug/kg	<75.0	150	05/14/09 15:41	
1,2-Dichloroethane-d4 (S)	%	107	68-136	05/14/09 15:41	
4-Bromofluorobenzene (S)	%	112	68-126	05/14/09 15:41	
Dibromofluoromethane (S)	%	112	61-139	05/14/09 15:41	
Toluene-d8 (S)	%	113	68-133	05/14/09 15:41	

LABORATORY CONTROL SAMPLE & LCSD: 619720 619721

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	933	964	93	96	75-125	3	20	
1,1,1-Trichloroethane	ug/kg	1000	988	1030	99	103	75-130	4	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	943	980	94	98	70-139	4	20	
1,1,2-Trichloroethane	ug/kg	1000	982	999	98	100	75-125	2	20	
1,1-Dichloroethane	ug/kg	1000	1070	1130	107	113	75-126	6	20	
1,1-Dichloroethene	ug/kg	1000	894	957	89	96	71-127	7	20	
1,1-Dichloropropene	ug/kg	1000	1050	1110	105	111	75-125	6	20	
1,2,3-Trichlorobenzene	ug/kg	1000	837	880	84	88	75-133	5	20	
1,2,3-Trichloropropane	ug/kg	1000	963	948	96	95	75-126	2	20	
1,2,4-Trichlorobenzene	ug/kg	1000	853	876	85	88	75-134	3	20	
1,2,4-Trimethylbenzene	ug/kg	1000	975	963	97	96	75-136	1	20	
1,2-Dibromo-3-chloropropane	ug/kg	1000	880	967	88	97	69-136	9	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	949	952	95	95	75-125	0	20	
1,2-Dichlorobenzene	ug/kg	1000	910	913	91	91	75-125	0	20	
1,2-Dichloroethane	ug/kg	1000	1010	1050	101	105	75-135	4	20	
1,2-Dichloropropane	ug/kg	1000	1010	1060	101	106	75-125	4	20	
1,3,5-Trimethylbenzene	ug/kg	1000	964	964	96	96	75-136	0	20	
1,3-Dichlorobenzene	ug/kg	1000	915	922	92	92	75-125	1	20	
1,3-Dichloropropane	ug/kg	1000	988	1020	99	102	75-125	3	20	
1,4-Dichlorobenzene	ug/kg	1000	901	892	90	89	75-125	1	20	
2,2-Dichloropropane	ug/kg	1000	989	1030	99	103	30-150	4	20	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

LABORATORY CONTROL SAMPLE & LCSD: 619720 619721

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2-Chlorotoluene	ug/kg	1000	954	969	95	97	75-125	2	20	
4-Chlorotoluene	ug/kg	1000	977	966	98	97	75-126	1	20	
Benzene	ug/kg	1000	1040	1080	104	108	75-130	4	20	
Bromobenzene	ug/kg	1000	928	933	93	93	75-125	1	20	
Bromochloromethane	ug/kg	1000	961	1010	96	101	75-125	5	20	
Bromodichloromethane	ug/kg	1000	979	997	98	100	75-130	2	20	
Bromoform	ug/kg	2000	1780	1840	89	92	75-128	3	20	
Bromomethane	ug/kg	1000	845	910	85	91	47-150	7	20	
Carbon tetrachloride	ug/kg	1000	993	1040	99	104	67-138	5	20	
Chlorobenzene	ug/kg	1000	944	957	94	96	75-125	1	20	
Chloroethane	ug/kg	1000	820	834	82	83	54-150	2	20	
Chloroform	ug/kg	1000	979	1010	98	101	75-131	3	20	
Chloromethane	ug/kg	1000	928	935	93	93	65-126	1	20	
cis-1,2-Dichloroethene	ug/kg	1000	1000	1030	100	103	75-125	3	20	
cis-1,3-Dichloropropene	ug/kg	1000	1040	1080	104	108	75-125	4	20	
Dibromochloromethane	ug/kg	1000	900	902	90	90	75-125	0	20	
Dibromomethane	ug/kg	1000	977	1020	98	102	75-125	4	20	
Dichlorodifluoromethane	ug/kg	1000	689	718	69	72	37-125	4	20	
Ethylbenzene	ug/kg	1000	944	966	94	97	75-125	2	20	
Hexachloro-1,3-butadiene	ug/kg	1000	931	917	93	92	75-150	2	20	
Isopropylbenzene (Cumene)	ug/kg	1000	951	965	95	96	75-125	1	20	
Methyl-tert-butyl ether	ug/kg	1000	971	1030	97	103	75-133	6	20	
Methylene Chloride	ug/kg	1000	938	994	94	99	75-130	6	20	
n-Butylbenzene	ug/kg	1000	987	983	99	98	75-138	0	20	
n-Propylbenzene	ug/kg	1000	998	998	100	100	75-129	0	20	
Naphthalene	ug/kg	1000	873	890	87	89	73-128	2	20	
p-Isopropyltoluene	ug/kg	1000	980	986	98	99	75-134	1	20	
sec-Butylbenzene	ug/kg	1000	970	977	97	98	75-133	1	20	
Styrene	ug/kg	1000	945	954	95	95	75-125	1	20	
tert-Butylbenzene	ug/kg	1000	960	969	96	97	75-130	1	20	
Tetrachloroethene	ug/kg	1000	899	885	90	89	75-125	2	20	
Toluene	ug/kg	1000	933	912	93	91	75-125	2	20	
trans-1,2-Dichloroethene	ug/kg	1000	977	1030	98	103	75-125	6	20	
trans-1,3-Dichloropropene	ug/kg	1000	966	982	97	98	65-129	2	20	
Trichloroethene	ug/kg	1000	944	972	94	97	75-132	3	20	
Trichlorofluoromethane	ug/kg	1000	1030	995	103	99	30-150	4	20	
Vinyl chloride	ug/kg	1000	1010	1050	101	105	75-125	3	20	
Xylene (Total)	ug/kg	3000	2880	2880	96	96	75-125	0	20	
1,2-Dichloroethane-d4 (S)	%				104	104	68-136			
4-Bromofluorobenzene (S)	%				104	100	68-126			
Dibromofluoromethane (S)	%				105	107	61-139			
Toluene-d8 (S)	%				103	100	68-133			

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619722 619723

Parameter	Units	1094671001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	<157	1550	1530	1380	1330	89	87	74-133	4	30	
1,1,1-Trichloroethane	ug/kg	<157	1550	1530	1580	1520	102	99	73-150	4	30	
1,1,2,2-Tetrachloroethane	ug/kg	<157	1550	1530	1170	1370	76	89	65-145	16	30	
1,1,2-Trichloroethane	ug/kg	<157	1550	1530	1310	1360	85	88	71-145	4	30	
1,1-Dichloroethane	ug/kg	<157	1550	1530	1650	1540	107	100	71-150	7	30	
1,1-Dichloroethene	ug/kg	<157	1550	1530	1440	1380	93	90	75-150	4	30	
1,1-Dichloropropene	ug/kg	<157	1550	1530	1670	1620	108	106	30-150	3	30	
1,2,3-Trichlorobenzene	ug/kg	<157	1550	1530	1140	1110	74	72	30-150	3	30	
1,2,3-Trichloropropane	ug/kg	<157	1550	1530	1180	1320	76	86	30-150	11	30	
1,2,4-Trichlorobenzene	ug/kg	<157	1550	1530	1180	1100	76	71	75-145	7	30	M0
1,2,4-Trimethylbenzene	ug/kg	<157	1550	1530	1460	1350	95	88	71-150	8	30	
1,2-Dibromo-3-chloropropane	ug/kg	<157	1550	1530	1150	1370	75	89	65-136	17	30	
1,2-Dibromoethane (EDB)	ug/kg	<157	1550	1530	1210	1350	78	88	75-145	11	30	
1,2-Dichlorobenzene	ug/kg	<157	1550	1530	1280	1210	83	79	75-140	6	30	
1,2-Dichloroethane	ug/kg	<157	1550	1530	1410	1480	91	96	73-146	5	30	
1,2-Dichloropropane	ug/kg	<157	1550	1530	1560	1500	101	97	75-147	4	30	
1,3,5-Trimethylbenzene	ug/kg	<157	1550	1530	1460	1350	95	88	70-150	8	30	
1,3-Dichlorobenzene	ug/kg	<157	1550	1530	1300	1210	84	79	75-141	7	30	
1,3-Dichloropropane	ug/kg	<157	1550	1530	1330	1430	86	93	30-150	7	30	
1,4-Dichlorobenzene	ug/kg	<157	1550	1530	1290	1190	84	77	75-139	8	30	
2,2-Dichloropropane	ug/kg	<157	1550	1530	1580	1520	102	99	30-150	4	30	
2-Chlorotoluene	ug/kg	<157	1550	1530	1440	1340	93	87	30-150	7	30	
4-Chlorotoluene	ug/kg	<157	1550	1530	1470	1350	95	88	30-150	9	30	
Benzene	ug/kg	<39.2	1550	1530	1590	1520	103	99	73-150	5	30	
Bromobenzene	ug/kg	<157	1550	1530	1350	1280	88	83	30-150	5	30	
Bromochloromethane	ug/kg	<157	1550	1530	1360	1400	88	91	30-150	3	30	
Bromodichloromethane	ug/kg	<157	1550	1530	1430	1400	92	91	71-138	2	30	
Bromoform	ug/kg	<313	3080	3070	2180	2590	71	84	64-128	17	30	
Bromomethane	ug/kg	<392	1550	1530	1290	1300	84	85	30-150	1	30	
Carbon tetrachloride	ug/kg	<157	1550	1530	1610	1520	104	99	67-150	6	30	
Chlorobenzene	ug/kg	<157	1550	1530	1440	1330	93	86	74-142	8	30	
Chloroethane	ug/kg	<157	1550	1530	1310	1240	85	81	30-150	5	30	
Chloroform	ug/kg	<157	1550	1530	1500	1440	97	94	74-150	4	30	
Chloromethane	ug/kg	<157	1550	1530	1250	1260	81	82	50-150	1	30	
cis-1,2-Dichloroethene	ug/kg	<157	1550	1530	1520	1420	99	93	75-147	7	30	
cis-1,3-Dichloropropene	ug/kg	<157	1550	1530	1510	1490	97	97	68-133	1	30	
Dibromochloromethane	ug/kg	<157	1550	1530	1190	1270	77	82	71-128	7	30	
Dibromomethane	ug/kg	<157	1550	1530	1300	1380	84	90	69-137	6	30	
Dichlorodifluoromethane	ug/kg	<157	1550	1530	777	790	50	51	50-150	2	30	
Ethylbenzene	ug/kg	<39.2	1550	1530	1480	1380	96	90	74-150	7	30	
Hexachloro-1,3-butadiene	ug/kg	<157	1550	1530	1410	1320	91	86	54-150	6	30	
Isopropylbenzene (Cumene)	ug/kg	<157	1550	1530	1490	1400	97	91	75-150	6	30	
Methyl-tert-butyl ether	ug/kg	<157	1550	1530	1360	1510	88	98	70-142	10	30	
Methylene Chloride	ug/kg	<157	1550	1530	1420	1370	92	89	67-144	3	30	
n-Butylbenzene	ug/kg	<157	1550	1530	1520	1420	99	92	55-150	7	30	
n-Propylbenzene	ug/kg	<157	1550	1530	1530	1430	99	93	50-150	7	30	
Naphthalene	ug/kg	<157	1550	1530	1070	1160	70	76	64-150	8	30	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619722 619723

Parameter	Units	1094671001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
p-Isopropyltoluene	ug/kg	<157	1550	1530	1520	1400	99	91	75-138	9	30	
sec-Butylbenzene	ug/kg	<157	1550	1530	1540	1430	100	93	75-144	7	30	
Styrene	ug/kg	<157	1550	1530	1390	1300	90	84	75-144	7	30	
tert-Butylbenzene	ug/kg	<157	1550	1530	1520	1390	99	90	54-150	9	30	
Tetrachloroethene	ug/kg	<157	1550	1530	1360	1290	88	84	75-150	6	30	
Toluene	ug/kg	<39.2	1550	1530	1380	1310	89	85	73-144	5	30	
trans-1,2-Dichloroethene	ug/kg	<157	1550	1530	1530	1470	99	96	75-150	3	30	
trans-1,3-Dichloropropene	ug/kg	<157	1550	1530	1340	1390	87	90	66-127	3	30	
Trichloroethene	ug/kg	<157	1550	1530	1480	1360	96	88	75-150	8	30	
Trichlorofluoromethane	ug/kg	<157	1550	1530	1220	1200	79	78	50-150	2	30	
Vinyl chloride	ug/kg	<39.2	1550	1530	1360	1370	88	89	50-150	0	30	
Xylene (Total)	ug/kg	<117	4630	4620	4310	4110	93	89	75-148	5	30	
1,2-Dichloroethane-d4 (S)	%						90	96	68-136			
4-Bromofluorobenzene (S)	%						94	90	68-126			
Dibromofluoromethane (S)	%						99	99	61-139			
Toluene-d8 (S)	%						96	94	68-133			

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: MPRP/15691 Analysis Method: % Moisture
QC Batch Method: % Moisture Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 1094676001, 1094676002, 1094676003, 1094676004

SAMPLE DUPLICATE: 620499

Parameter	Units	1094671001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	33.5	34.0	1	30	

SAMPLE DUPLICATE: 620500

Parameter	Units	1094688002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.7	26.0	3	30	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: WET/17558 Analysis Method: SW-846 7.3.4.2 Modified
QC Batch Method: SW-846 7.3.4.2 Modified Analysis Description: 734S Reactive Sulfide
Associated Lab Samples: 1094676005

METHOD BLANK: 481706 Matrix: Water
Associated Lab Samples: 1094676005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/L	<0.94	10.0	05/15/09 00:00	

LABORATORY CONTROL SAMPLE: 481707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/L	20	20.4	102	80-107	

MATRIX SPIKE SAMPLE: 481708

Parameter	Units	1094676005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/L	2.0J	50	51.0	98	67-110	

SAMPLE DUPLICATE: 481709

Parameter	Units	1094671006 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Reactive	mg/L	2.0J	2.0J		30	

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QUALITY CONTROL DATA

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

QC Batch: WETA/9870 Analysis Method: SW-846 7.3.3.2 Modified
QC Batch Method: SW-846 7.3.3.2 Modified Analysis Description: 733C Reactive Cyanide
Associated Lab Samples: 1094676005

METHOD BLANK: 482727 Matrix: Water
Associated Lab Samples: 1094676005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/L	<0.00080	0.0050	05/14/09 19:42	

LABORATORY CONTROL SAMPLE: 482728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/L	.052	0.050	98	74-121	

MATRIX SPIKE SAMPLE: 482729

Parameter	Units	1094676005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/L	<0.00080	.052	0.047	91	57-125	

SAMPLE DUPLICATE: 482730

Parameter	Units	1094671006 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Reactive	mg/L	<0.00080	<0.00080		26	

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QUALIFIERS

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

1M	Reduced sample volume due to dry matrix.
H6	Analysis initiated more than 15 minutes after sample collection.
M0	Matrix spike recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CSKT Ely Home Site 12454.008
Pace Project No.: 1094676

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1094676005	ELY SEPTIC	EPA 1010	WET/3573		
1094676001	SS1	EPA 9045	WET/16016		
1094676002	SS2	EPA 9045	WET/16016		
1094676003	SS3	EPA 9045	WET/16016		
1094676004	SS4	EPA 9045	WET/16016		
1094676001	SS1	EPA 3050	MPRP/15632	EPA 6010	ICP/7278
1094676002	SS2	EPA 3050	MPRP/15632	EPA 6010	ICP/7278
1094676003	SS3	EPA 3050	MPRP/15632	EPA 6010	ICP/7278
1094676004	SS4	EPA 3050	MPRP/15632	EPA 6010	ICP/7278
1094676001	SS1	EPA 7471	MERP/3422	EPA 7471	MERC/4268
1094676002	SS2	EPA 7471	MERP/3422	EPA 7471	MERC/4268
1094676005	ELY SEPTIC	SM 4500-H+B	WET/16027		
1094676006	DUP	SM 4500-H+B	WET/16027		
1094676003	SS3	EPA 7471	MERP/3431	EPA 7471	MERC/4269
1094676005	ELY SEPTIC	EPA 8260	MSV/12220		
1094676006	DUP	EPA 8260	MSV/12220		
1094676005	ELY SEPTIC	EPA 3010	MPRP/15651	EPA 6010	ICP/7286
1094676006	DUP	EPA 3010	MPRP/15651	EPA 6010	ICP/7286
1094676005	ELY SEPTIC	EPA 7470	MERP/3432	EPA 7470	MERC/4281
1094676006	DUP	EPA 7470	MERP/3432	EPA 7470	MERC/4281
1094676004	SS4	EPA 7471	MERP/3434	EPA 7471	MERC/4280
1094676001	SS1	EPA 5035/5030B	MSV/12232	EPA 8260	MSV/12233
1094676002	SS2	EPA 5035/5030B	MSV/12232	EPA 8260	MSV/12233
1094676003	SS3	EPA 5035/5030B	MSV/12232	EPA 8260	MSV/12233
1094676004	SS4	EPA 5035/5030B	MSV/12232	EPA 8260	MSV/12233
1094676007	TRIP BLANK	EPA 5035/5030B	MSV/12232	EPA 8260	MSV/12233
1094676001	SS1	% Moisture	MPRP/15691		
1094676002	SS2	% Moisture	MPRP/15691		
1094676003	SS3	% Moisture	MPRP/15691		
1094676004	SS4	% Moisture	MPRP/15691		
1094676005	ELY SEPTIC	SW-846 7.3.4.2 Modified	WET/17558		
1094676005	ELY SEPTIC	SW-846 7.3.3.2 Modified	WETA/9870		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1262165

Section A Required Client Information:

Company: AMEC Geomatrix
Address: 1001 S. Higgins Ave B4, Missoula, MT 59801
Email To: Matthew.wright@amec.com
Phone: 406-542-0129 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Matt Wright
Copy To: Chris Cerquone
Purchase Order No.: 12454.008 Task 1
Project Name: CSKT - Ely Home Site
Project Number: 12454.008

Section C Invoice Information:

Attention: (See Sect. A)
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MT

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	RCRA metals	pH EPA 1010A/1110A	Reach EPA 7.3...	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS1	SL	C	5/6/09	16:50				6										X	X	X				001
2	SS2	↓	↓	↓	16:55				↓										X	X	X				002
3	SS3				17:00														X	X	X				003
4	SS4				17:05														X	X	X				004
5	Ely Septic	WW	G	5/5/09	16:45				6										X	X	X	X	X		005
6	PUP	WT	G	5/5/09					4										X	X	X				006
7	Trip blank								2										X	X					007
8																									
9																									
10																									
11																									
12																									

Requested Analysis Filtered (Y/N)

1094676
/MJ 5/8/09

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Wilhelm Wolzenbach / AMEC	5/7 per 5/11/09		as per W. Wolzenbach		
	fedex	5/8/09	0945	Norma C. Trankle		

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
8.0	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wilhelm Wolzenbach
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/10/09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: AMEC GEOMATRIX INC Project # 10946716

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 797573899329

Custody Seal on Cooler/Box Present: [X] yes [ ] no Seals intact: [X] yes [ ] no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: [X] Bubble Wrap [X] Bubble Bags [ ] None [X] Other CARDBOARD BOX Temp Blank: Yes ____ No X

Thermometer Used 135 **Type of Ice:** (Wet) Blue None [X] Samples on ice, cooling process has begun

Cooler Temperature 8.0° **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 5/8/09 MCT

Comments:

Chain of Custody Present:	[X]Yes [ ]No [ ]N/A	1.
Chain of Custody Filled Out:	[X]Yes [ ]No [ ]N/A	2.
Chain of Custody Relinquished:	[X]Yes [ ]No [ ]N/A	3.
Sampler Name & Signature on COC:	[X]Yes [ ]No [ ]N/A	4.
Samples Arrived within Hold Time:	[X]Yes [ ]No [ ]N/A	5.
Short Hold Time Analysis (<72hr):	[X]Yes [ ]No [ ]N/A	6.
Rush Turn Around Time Requested:	[ ]Yes [X]No [ ]N/A	7.
Sufficient Volume:	[ ]Yes [ ]No [ ]N/A	8.
Correct Containers Used:	[ ]Yes [ ]No [ ]N/A	9.
-Pace Containers Used:	[X]Yes [ ]No [ ]N/A	
Containers Intact:	[X]Yes [ ]No [ ]N/A	10.
Filtered volume received for Dissolved tests	[ ]Yes [ ]No [X]N/A	11.
Sample Labels match COC:	[X]Yes [ ]No [ ]N/A	12.
-Includes date/time/ID/Analysis Matrix: Soil/H_2O		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	[ ]Yes [ ]No [X]N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ]Yes [ ]No [X]N/A	
Exceptions: VOA,Coliform, TOC, Oil and Grease, WI-DRO (water)	[X]Yes [ ]No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	[ ]Yes [ ]No [X]N/A	14.
Headspace in VOA Vials (>6mm):	[X]Yes [ ]No [ ]N/A	15. TRIP BLANKS approx 1/4 full of liquid
Trip Blank Present:	[X]Yes [ ]No not [ ]N/A	16. CLIENT
Trip Blank Custody Seals Present	[X]Yes [ ]No [ ]N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

APPENDIX B
LABORATORY ANALYTICAL REPORT
TOXICITY CHARACTERISTIC LEACHING PROCEDURE

200909063

Chain of Custody

Lead Lab Services

EMSL Analytical, Inc.
3 Cooper Street
Westmont, NJ 08108

Phone: (856) 858-4800
Fax: (856) 858-3899
http://www.emsl.com

Please print all information legibly.

Company:	A.L.M. Consulting, LLC	***Bill To:***	A.L.M. Consulting, LLC
Address1:	1316 8th Ave	*Address1:*	1316 8th Ave
Address2:		*Address2:*	
City, State:	Helena, MT	*City, State:*	Helena, MT
Zip/Post Code:	59601	*Zip/Post Code:*	59601
Country:	USA	*Country:*	USA
Contact Name:	Ryan McGee	***Attn:***	Ryan McGee
Phone:	406-461-4037	*Phone:*	406-461-4037
Fax:	406-449-0382	*Fax:*	406-449-0382
Email:	rmcgee@bresnan.net	*Email:*	rmcgee@bresnan.net
EMSL Rep:	Nicole Gillar	***P.O. Number:***	
Project Name/Number:			

MATRIX	METHOD	INSTRUMENT	RL (Reporting Limit)	TAT
Lead Chips*	SW846-7420, 3050B Mod./AOAC(974.02)	Flame Atomic Absorption	0.01% ++	
Lead WasteWater	SW846-7420	Flame Atomic Absorption	0.4 mg/l water 40 mg/kg (ppm) soil	
Lead Soil +	or SW846-6010B	ICP	0.1 mg/l water 10 mg/kg (ppm) soil	
Lead in Air ***	NIOSH 7082 Mod.	Flame Atomic Absorption	4 ug/filter	
	or NIOSH 7300 Mod.	ICP	3.0 ug/filter	
Lead in Wipe^ ☐ -ASTM *List Wipe Type* _____ ☐ -non ASTM	SW846-7420 / HUD Appendix 14.2 Digest	Flame Atomic Absorption	10 ug/wipe	
	or SW846-6010B	ICP	3.0 ug/wipe	
TCLP Lead **	SW846-1311/ 7420	Flame Atomic Absorption	0.4 mg/l (ppm)	48hrs
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
STLC Lead (California) #	CA Title 22 66261.126/ SW846-7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
Lead in Air ****	NIOSH 7105 Mod.	Graphite Furnace Atomic Absorption	0.03 ug/filter	
Lead WasteWater	SW846-7421	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm) water	
Lead Soil +			0.03 mg/kg (ppm) soil	
Lead in Drinking Water (check state Certification requirements)	EPA 239.2 / 200.9	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm)	
Total Dust	NIOSH 0500-0600	Gravimetric Reduction	0.0001g	

TAT (Turnaround) - Same day, 24 hr - 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 6-10 Days
*, **, ***, ****, +, ++ ,# Please Refer to Price Quote
^ If no box is checked, non-ASTM is assumed

200909063

Chain of Custody

Lead Lab Services

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3 Cooper Street
Westmont, NJ 08108

Phone: (856) 858-4800
Fax: (856) 858-3899
http://www.emsl.com

Please print all information legibly.

SAMPLE #	LOCATION	Air Volume, L Area, in^2	LAB #
SE-TCLP-01	Various Areas - SE Home Site	N/A	09063-1
SRB-TCLP-02	Exterior Trailer		2
SRB-TCLP-03	Interior/Exterior Finishes	N/A	3

@Relinquished By: (Person) Ryan P. Mu — **Date:** 6-22-09

Received at EMSL by: — **Date:** 6/23/09 BK

Received at EMSL by: _____ **Date:** _____

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

EMSL Analytical, Inc.
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-9551 Email: westmontleadlab@emsl.com

Attn: **Ryan McGee**
A.L.M. Consulting, LLC
1316 8th Avenue
Helena, MT 59601

Fax: (406) 449-0382 Phone: (406) 461-4037
Project:

Customer ID: ALMC78
Customer PO:
Received: 06/23/09 11:36 AM
EMSL Order: 200909063

EMSL Proj:

Toxicity Characteristic Leaching Procedure (SW846, 1311/7420)

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead Concentration*
SE-TCLP-01	*0001*		6/24/2009	<0.40 mg/L
	Various Areas-SE Home Site			
SRB-TCLP-02	*0002*		6/24/2009	3.0 mg/L
	Exterior Trailer			
SRB-TCLP-03	*0003*		6/24/2009	<0.40 mg/L
	Interior/Exterior Finishes			

Shannon Kauffman, Lead Lab Supervisor
or other approved signatory

The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to those items tested. Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted
Samples analyzed by EMSL Analytical, Inc. Westmont 3 Cooper St., Westmont NJ NJ-NELAP 04653