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September 28, 2012

Mr. Roy Crossland
Mini-START Project Officer
U.S. Environmental Protection Agency, Region 7
901 North 5th Street
Kansas City, Kansas 66101

Subject: **Phase II Targeted Brownfields Assessment**
Kuhlman Diecasting Site, Stanley, Kansas
EPA Region 7, Mini-START, Contract No. EP-S7-09-01, Task Order No. 0035
Task Monitor: Todd Davis, EPA Project Manager

Dear Mr. Crossland:

Seagull Environmental Technologies Inc. (Seagull) is submitting the attached Phase II Targeted Brownfields Assessment (TBA) report for the Kuhlman Diecasting site, located in Stanley, Kansas. If you have any questions or comments, please contact the project manager at (913) 220-5887.

Sincerely,

Jeff Pritchard, CHMM
Mini-START Project Manager

Hieu Q. Vu, PE
Mini-START Program Manager

Enclosures

PHASE II TARGETED BROWNFIELDS ASSESSMENT REPORT

KUHLMAN DIECASTING SITE, STANLEY, KANSAS

Mini-Superfund Technical Assessment and Response Team (Mini-START)

Contract No. EP-S7-09-01, Task Order No. 0035

Prepared For:

U.S. Environmental Protection Agency
Region 7
901 North 5th Street
Kansas City, Kansas 66101

September 28, 2012

Prepared By:

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EXECUTIVE SUMMARY

Seagull Environmental Technologies Inc. (Seagull) was tasked by the U.S. Environmental Protection Agency (EPA), under the Mini-Superfund Technical Assessment and Response Team (Mini-START) contract, to conduct a Phase II Targeted Brownfields Assessment (TBA) of the Kuhlman Diecasting site. The Kuhlman Diecasting site is located near the southwestern edge of Stanley, Johnson County, Kansas. The site property is currently owned by the Kuhlman Diecasting Company and consists of a defunct electroplating facility that covers approximately 35.15 acres, which is bounded to the west and south by the Blue River. The site is located in a mixed rural, residential, and agricultural use area. A small residential area comprised of approximately six residences is located approximately 200 feet northeast of the site. Agricultural land and woodlands surround the site to the north, west, and south. The purpose of the Phase II TBA is to determine current contaminant concentrations and the extent of previously identified contamination.

Phase II TBA activities were conducted July 17-27, 2012, and included the collection of soil (subsurface and surface soil), groundwater, surface water, and sediment samples from locations geographically covering the site. Specifically, 15 subsurface soil samples, 12 surface soil samples, 18 groundwater samples (eight from temporary Geoprobe® wells and 10 from permanent monitoring wells), 13 sediment samples, and eight surface water samples were collected from the site for analysis of chemical constituents (volatile organic compounds [VOCs], total petroleum hydrocarbons [TPH]-gasoline range organics [GRO], TPH-diesel range organics [DRO], polynuclear aromatic hydrocarbons [PAH], metals, hexavalent chromium, cyanide, and polychlorinated biphenyls (PCB). It should be noted that not all of the samples were submitted for the full list of analyses listed above. For evaluation purposes, soil (and sediment from the on-site features) and groundwater sample results from this Phase II TBA were compared to their respective Risk-Based Standards for Kansas (RSK) developed by the Kansas Department of Health and Environment (KDHE). Surface water sample results were compared to their respective Kansas Surface Water Quality Standards (KSWQS), also developed by KDHE. Additionally, sediment sample results from the Blue River were compared to Threshold Effects Concentrations (TEC) and Probable Effects Concentrations (PEC). Findings and recommendations as a result of the Phase II TBA follows:

One of the purposes of this Phase II TBA was to determine if past site operations had resulted in contamination on the east portion of the site, which had not been previously investigated. Sampling results did not identify widespread contamination in soil and groundwater across the east portion of the site. However, subsurface soil sample results collected from soil boring SB-6 indicated TPH-DRO and TPH-GRO at concentrations that exceeded their respective RSK values. The presence of TPH at that location is likely associated with historical site operations involving bulk petroleum storage/transfer. No other

samples collected from the east portion of the site during this Phase II TBA contained site-related contaminants at levels of concern, excluding TPH-DRO detected in groundwater sample SB-5-GW at 0.56 milligrams per liter.

Consistent with past environmental investigations, samples collected as part of this Phase II TBA from the west portion of the site contained contaminants (primarily chromium, copper, nickel, and zinc) that are associated with historic site operations (electroplating in particular). Of note, elevated concentrations of the site-related metals were detected in subsurface soil samples collected from locations within the capped surface impoundments located on the southwest portion of the site. Those surface impoundments historically received waste from the electroplating operations on the site. Past investigations conducted at the site determined that elevated levels of metals remain within one of the surface impoundments (Lagoon #3), which is located in the northwest corner of the site. The sample results indicate that waste also remains within the two southern surface impoundments. Additionally, elevated concentrations of both VOCs and TPH were detected in samples collected from the west portion of the site. Chlorinated VOCs, which are common industrial contaminants, were detected in both soil and groundwater at sample locations SB-11-GW and SB-7-GW. Sample SB-11-GW was collected from the southwest portion of the site and just east of the wastewater evaporation sanitary lagoons. This location formerly contained a large aboveground storage tank that was associated with historical bulk oil storage/transfer operations. Of the VOCs detected in sample SB-11-GW, trichloroethene (TCE), 1,2-dichloroethene (1,2-DCE), and *cis*-1,2-DCE were detected at 384, 294, and 299 micrograms per liter (µg/L), respectively. Those concentrations are well above the RSK values established for these compounds. For reference, the RSK values (for the groundwater exposure pathway) for TCE, 1,2-DCE, and *cis*-1,2-DCE are 5, 5, and 70 µg/L, respectively. Additionally, sample SB-7-GW contained TCE (at 9.5 µg/L) and 1,2-DCE (at 25.5 µg/L) at concentrations that exceeded their respective RSK values. Sample SB-7-GW was collected within the capped surface impoundments located in the southwest portion of the site. Past investigations have not identified elevated concentrations of these compounds. Based on the groundwater sample results, it appears that the VOC plume is primarily located near the wastewater evaporation sanitary lagoons and to the southwest to the capped surface impoundments. Historically, groundwater flow at the site has been determined to be to the south/southwest, towards the Blue River. As stated above, the detected concentrations of several VOCs were above their respective RSK values; however, it should be noted that RSK values for the groundwater exposure pathway have been established for groundwater ingestion. Because groundwater at the site is not currently used for domestic purposes (drinking, washing, etc.), comparing the groundwater sample results to those standards may not be entirely applicable.

Also consistent with past investigations, elevated concentrations of site-related metals were detected in the wastewater evaporation sanitary lagoons (specifically from the south lagoon); however, surface soil

sampling conducted as part of this Phase II TBA determined that elevated concentrations of metals are not present across the south portion of the site.

The collection of surface water and sediment samples from the Blue River as part of this Phase II TBA did not identify site-related contaminants at levels of concern.

Sample results from this Phase II TBA should be reviewed by personnel from EPA and KDHE to determine if additional investigation may be warranted. Review of this sample data, as well as the findings from previous investigations at the site, should be conducted to specifically identify environmental liabilities associated with the site ─ in particular, those liabilities that could affect a potential purchaser or entity taking ownership of the property. As previously mentioned, the three former surface impoundments (that historically received waste from electroplating operations on the site) are considered Resource Conservation and Recovery Act (RCRA) post-closure units. KDHE maintains post-closure authority over those units, while EPA Region 7 maintains regulatory authority over the entire site.

1.0 INTRODUCTION

Seagull Environmental Technologies Inc. (Seagull) was tasked by the U.S. Environmental Protection Agency (EPA), under the Mini-Superfund Technical Assessment and Response Team (Mini-START) contract, to conduct a Phase II Targeted Brownfields Assessment (TBA) at the Kuhlman Diecasting site. The Kuhlman Diecasting site is located near the southwestern edge of Stanley, Johnson County, Kansas. The site property is currently owned by the Kuhlman Diecasting Company and consists of a defunct electroplating facility that covers approximately 35.15 acres, which is bounded to the west and south by the Blue River. The Kuhlman Diecasting site will hereafter be referred to as the "subject property" or "site." Seagull conducted this Phase II TBA in accordance with the *Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, American Society for Testing and Materials (ASTM) designation E 1903-11. The following sections address the background and site history, Phase II TBA activities, presentation and evaluation of analytical results, and a discussion of findings and recommendations.

1.1 PURPOSE

The purpose of this Phase II TBA was to confirm or eliminate recognized environmental conditions (REC) specified in the Phase I TBA report for the site (Environment International Government Ltd. [EIGov] 2011), determine the nature and extent of any soil and water contamination, and assess risks to human health and the environment posed by any contamination. RECs specified in the Phase I TBA report were primarily related to historical use of the site associated with bulk oil storage, as well as electroplating operations.

1.2 SPECIAL TERMS AND CONDITIONS

No special terms or conditions were identified during the Phase II TBA.

2.0 BACKGROUND AND SITE HISTORY

This section provides a brief description of the site, the physical setting, site history and land use, adjacent land use, and a summary of previous environmental investigations completed for the site.

2.1 SITE DESCRIPTION AND FEATURES

The site address is 16400 Mission Road, which is located near the intersection of 164th Street and Mission Road in Stanley, Kansas. The site can be accessed off Mission Road via a gravel road that connects to West 163rd Street. The subject property is currently owned by the Kuhlman Diecasting Company; however, it is not currently used for any beneficial purpose. The site contains a single-story, concrete block warehouse building that is 73,730 square feet (ft^2) in size. In addition, the site contains two process water storage basins, two wastewater evaporation sanitary lagoons, three capped lagoons (surface impoundments), and a pond (see Appendix A, Figures 1 and 2). The site is surrounded by a levee constructed to provide flood control. A railroad line bisects the site in a north-south direction.

2.2 PHYSICAL SETTING

The site is included on the Stillwell, Kansas, U.S. Geological Survey (USGS) 7.5-minute topographic series map (USGS 1991; see Appendix A, Figure 1). The site is located in Section 16, Township 14 South, Range 25 West. The coordinates for the approximate center of the site are 38.830741 degrees north latitude and 94.633464 degrees west longitude.

2.2.1 Geologic Setting

The site is located in eastern Johnson County in northeastern Kansas. Johnson County lies partly in the Osage Cuestas, a portion of the Osage Plains physiographic province. Most of Johnson County consists of gently rolling uplands with a greater relief along streams (Ecology and Environment, Inc. [E&E] 1995).

Sedimentary rocks in northeast Kansas range from Late Pennsylvanian to Late Cambrian age. In the vicinity of the site, the aggregate thickness is approximately 1,700 feet. Structurally, the site lies within the Forest City basin. Shale and carbonates are the predominant lithologies of Paleozoic rocks in the Forest City basin, although sandstone composes the bulk of Late Cambrian and Early Ordovician-age formations. Middle Ordovician through Mississippian-age formations are typically thick-bedded limestone and dolomite interbedded with thick shale. The overlying Middle Pensylvanian-age rocks that underlie the site are cyclothermic shale and limestone formations, varying in thickness from several inches to tens of feet.

Eastern Johnson County is underlain by the Upper Pennsylvanian-age Kansas City Group. Within the Kansas City Group, thick limestone and thin shale of the Bronson Subgroup underlie thick shale and thin limestone of the Linn Subgroup.

2.2.2 Hydrogeology

Unconsolidated sediments in the Blue River Valley are Wisconsinan to Recent. The thickness of the alluvium varies from approximately 30 feet in the northern and central portions of the site to approximately 20 feet in the southern portion of the site.

Previous investigations have determined that groundwater is located approximately 10-15 feet below ground surface (bgs). Groundwater flow at the site is to the south-southwest towards the Blue River.

2.2.3 Hydrology

Topsoil at the site belongs to the Kennebec and Chase Series. Kennebec silt loam covers the southern portion of the site. Typically, Kennebec soil is very dark grayish-brown becoming very dark gray with depth, slightly hard, friable, with weak to moderate fine granular structure. Kennebec soils are deep, moderately well drained, moderately permeable, and level (E&E 1995).

Based on a recent topographic map, the site is approximately 893 feet above mean sea level (amsl). The site is relatively flat, as it is located within a meander of the Blue River. Surface water runoff likely flows south-southwest toward the Blue River.

2.3 SITE HISTORY AND LAND USE

Site operations have included bulk oil storage/transfer, grain storage, and electroplating. Property information from the Johnson County Assessor website indicates the the on-site building was constructed in 1904 (Environmental International Government LTD. [EIGov] 2011). Historical photographs show seven large aboveground storage tanks (AST) located at the site dating back to 1941. Kuhlman began electroplating operations at the site in 1962. Kuhlman manufactured zinc diecastings for a variety of commercial and industrial customers. Kuhlman operations consisted of an electroplating process that used chromium, nickel, and copper plating on zinc diecastings. On November 30, 1990, Kuhlman ceased all operations and filed for bankruptcy.

2.4 ADJACENT PROPERTY USE

The site is located in a mixed rural, residential, and agricultural use area. A small residential area comprised of approximately six residences is located approximately 200 feet northeast of the site. Agricultural land and woodlands surround the site to the north, west, and south. Residential areas are located in all directions from the site, beyond the undeveloped areas (see Appendix A, Figure 2).

2.5 SUMMARY OF PREVIOUS ASSESSMENTS

The site has a well-documented environmental history associated with Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) investigations and cleanups. Numerous investigations have been conducted at the site and have involved the collection of multimedia samples to determine if past site operations have resulted in releases of hazardous substances. The multimedia samples that were collected during those investigations consisted of soil (surface and subsurface), groundwater, surface water, and sediment samples. In addition, air, dust, and concrete samples were collected from within the site building.

Because the site's environmental history is well documented, a complete discussion of past investigations at the site is not included in this Phase II TBA report. However, listed below are site reports that have been completed for the EPA that summarize the site's history and results of environmental investigations and cleanups:

- Jacobs Engineering. 1988. RCRA Facility Assessment of Kuhlman Diecasting Site. Stanley, Kansas. EPA ID No. KSD006325013. July.
- Ecology and Environment, Inc. 1992. Removal Funded: Kuhlman Diecasting Co., Stanley, Kansas. Removal Assessment Phase II. TDD# T07-9107-035D. September 24.
- Ecology and Environment, Inc. 1993. Removal Funded: Kuhlman Diecasting Co., Stanley, Kansas. Removal Assessment Phase II. TDD# T07-9301-025. April 16.
- Ecology and Environment, Inc. 1995. Preliminary Assessment/Site Inspection for the Kuhlman Diecasting Site. Stanley, Kansas. TDD# T07-9412-506A. October 5.

From 1991 to 1992, an EPA-funded removal action was conducted at the site. During the removal action, over 1 million gallons of liquid wastes contaminated with metals and cyanide were treated on site and properly discharged. Wastes that could not be treated on site were transported off site for proper disposal. In 1992, following the completion of the removal action, EPA conducted a removal assessment to determine whether further removal activity would be required. The removal assessment determined elevated concentrations of metals – specifically, chromium, copper, nickel, and zinc – were present in soil (both surface and subsurface), groundwater, and sediment at the site. Nickel and zinc were detected at concentrations that exceeded EPA-established site-specific action levels; however, no further removal activity was conducted. Additionally, several other sampling activities have been completed at the site since the completion of the removal action.

In 2002, EPA responded to a fire at the site and collected three water samples from areas of pooled water created as a result of the fire-fighting efforts. Those samples were analyzed for total metals and cyanide. No contaminants were detected above levels of concern. In 2004, EPA conducted additional sampling activities that included the collection of groundwater samples from monitoring wells and surface soil samples from across the site. Only one groundwater sample, collected from monitoring well GM-17 (located downgradient of Lagoon #3) (see Appendix A, Figure 2), contained elevated levels of site-related contaminants. Specifically, this sample contained elevated concentrations of chromium, copper, lead, nickel, and zinc. Numerous surface soil samples collected at locations surrounding the two wastewater evaporation sanitary lagoons in the southern portion of the site contained elevated concentrations of chromium, copper, nickel, and zinc. In 2010, the Johnson County Environmental Department collected three samples of water that had accumulated in the basement of the site building. Those samples were collected to assist with an ongoing criminal investigation associated with the site (not an environmental criminal investigation). The samples were analyzed for total metals and volatile organic compounds (VOC). No contaminants were detected above levels of concern.

Most recently, a Phase I Environmental Site Assessment (ESA) was completed for the site by EIGov and Seagull (under contract to EPA Region 7). The Phase I ESA was completed as a TBA for EPA Region 7 and the Johnson County Government, which had applied for a Brownfields Grant to assess the site.

The following were findings from the Phase I TBA:

- Review of historical documents showed the subject property had been operated as a bulk oil storage facility. That former business could be a potential source of contamination. The likelihood of release and migration of hazardous materials or wastes from oil storage facilities pose a REC to the subject property.

- The subject property has a well-documented history of environmental investigations and cleanups associated with its past operation as an electroplating facility. The Kuhlman Diecasting Company conducted electroplating at the subject property from the early 1960s to 1990. Historical site operations as an electroplating facility which resulted in releases of hazardous substances to environmental media at the site pose a REC to the subject property.

- Records review and interviews conducted during the Phase I ESA determined that three RCRA post-closure units remain at the site. The three units are former surface impoundments that historically received waste from electroplating operations on the site. The units are currently capped. The Kansas Department of Health and Environment (KDHE) maintains post-closure authority over those units, while EPA Region 7 maintains regulatory authority over the entire site. The presence of the three RCRA post-closure units poses a REC to the subject property.

Based on the identification of those RECs, the Phase I ESA recommended the following:

- A Phase II ESA of the subject property should be conducted. The Phase II ESA should include the collection of surface and subsurface soil, groundwater, surface water, and sediment samples. Those samples should be analyzed for contaminants commonly associated with bulk oil storage facilities and electroplating facilities. Phase II sampling should be conducted to confirm historical investigation findings and address data gaps. Additionally, Phase II sampling should be conducted in consultation with EPA Region 7 and KDHE. Specific areas of concern that should be addressed during Phase II sampling are listed below.

- Past investigations have had limited focus on the east portion of the site (east of the railroad track). Historical records indicate that bulk oil storage tanks were located in that area. Future sampling should include the collection of soil and groundwater from this area to determine if historical site activities have resulted in a release of hazardous substances.

- Groundwater samples should be collected from permanent monitoring wells currently located at the site to characterize groundwater quality. Additionally, specific emphasis should be placed on the monitoring wells downgradient of/and surrounding the three RCRA post-closure units (surface impoundments).

- Both surface and subsurface soil samples should be collected across the site to determine current concentrations of site-related contaminants ─ metals in particular. Past sampling results indicated that elevated concentrations of metals (chromium, copper, nickel, and zinc) exist in surface soil near the two wastewater evaporation sanitary lagoons in the southern portion of the site. Additionally, surface soils to the south and west of the building have been determined to contain elevated concentrations of site-related metals. Sampling should be conducted to delineate the lateral and vertical extent of contamination.

- Surface water and sediment samples should be collected from the two process water basins in the northern portion of the site, two wastewater evaporation sanitary lagoons in the southern portion of the site, and from several locations on the Blue River.

3.0 PHASE II TARGETED BROWNFIELDS ASSESSMENT ACTIVITIES

The following sections describe the scope of the Phase II TBA and field exploration and methods.

3.1 SCOPE OF THE ASSESSMENT

Mini-START field team members conducted sampling to determine current contaminant concentrations and the extent of previously identified contamination. Photographs were taken to document the site activities (see Appendix B), which were also recorded in a site logbook (see Appendix C). The sampling was conducted in accordance with an approved Quality Assurance Project Plan (QAPP).

3.1.1 Conceptual Site Model and Sampling Plan

The conceptual site model is a way of describing what contaminants are present, what is the source, pathways of migration, exposure potential, media, and sensitive receptors. Based upon review of historical

records, it appears that potential sources of contamination are historical site operations. Specifically, those include activities associated with the former site uses for bulk oil storage/transfer and electroplating. The sampling plan was designed to provide for the collection of potentially contaminated environmental media, if they occur, at locations and depths where the highest concentrations are likely to occur.

The proposed sampling scheme for the collection of soil and water samples was biased/judgmental, in accordance with the *Guidance for Performing Site Inspections under CERCLA*, Office of Solid Waste and Emergency Response (OSWER) Directive #9345.1-05. Fifteen subsurface soil samples, 12 surface soil samples, eight groundwater samples collected from Geoprobe® temporary wells, 10 groundwater samples collected from permanent monitoring wells, 13 sediment samples, and eight surface water (and basement water) samples were collected from the site for analysis of chemical constituents. Surface soil samples were collected from 0 to 2 inches bgs, and subsurface soil samples were collected from depths greater than 2 feet bgs. All of the subsurface soil and Geoprobe® temporary well samples were collected using Geoprobe® direct-push technology equipment, in accordance with EPA Region 7 standard operating procedure (SOP) 4230.07, Geoprobe® Operations. Quality control (QC) samples collected during the field activities included one water trip blank (laboratory prepared), one equipment rinsate sample (of the Geoprobe® Screen Point 15 [SP 15] groundwater sampler), and one field blank. Sampling methods and activities are described in Section 3.2. A summary of samples collected during the Phase II TBA activities is included in Table 1.

TABLE 1

SUMMARY OF SAMPLES COLLECTED DURING PHASE II TBA ACTIVITIES
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

Sample Description	Sample Type	Total Number of Samples
Subsurface Soil	Field Samples	15
Surface Soil	Field Samples	24 (Field Screened) 12 (Laboratory Analyzed)
Groundwater – Geoprobe® Temporary Well	Field Samples	8
Groundwater – Monitoring Well	Field Samples	10
Sediment	Field Samples	13
Surface Water and Basement Water	Field Samples	8
Water (Equipment Rinsate)	Quality Control Sample	1
Water (Field Blank)	Quality Control Sample	1
Water (Trip Blank)	Quality Control Sample	1

3.1.2 Chemical Testing Plan

Phase II TBA activities included the collection of subsurface soil, surface soil, groundwater, sediment, and surface water samples. Subsurface soil, surface soil, groundwater, sediment, and surface water samples collected during the Phase II TBA activities were analyzed for the following: VOCs (by Method 8260), total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) (by Method OA-1), TPH-diesel range organics (DRO) (by Method OA-2), polynuclear aromatic hydrocarbons (PAH) (by Method 8270), priority pollutant metals (by Methods 6010 for soil and 6020 for water), mercury (by Methods 7471 for soil and 7470 for water), hexavalent chromium (by Method 7196), polychlorinated biphenyls (PCB) (by Method 8082), and cyanide (by Method 9012). It should be noted that not all of the samples were submitted for all of the analyses listed above. Table 2 in this report summarizes the samples collected during this Phase II TBA and requested analyses for each. All samples were submitted to Pace Analytical Services (Pace) in Lenexa, Kansas, for laboratory analysis.

3.1.3 Deviations from the QAPP

Two significant deviations from the QAPP were made during the course of the Phase II TBA activities. The QAPP called for sediment and surface water to be collected from three locations within the on-site building at the subject property, but upon inspection of building, only two locations were accessible for sample collection. Additionally, surface water samples were to be collected from the east pond, south process water basin, and north wastewater evaporation sanitary lagoon. However, those samples were not collected because no water was present at those features.

3.2 FIELD EXPLORATION AND METHODS

Field activities at the site were conducted from July 17 through 27, 2012. Seagull team members involved with the field activities were Cosmo Canacari, Greg Dillon, and Joel Harvester. EPA On-Scene Coordinator (OSC) John Frey provided assistance during the Geoprobe® soil and groundwater sampling activities.

3.2.1 Subsurface Soil Sampling

Fifteen subsurface soil samples were collected from 19 boring locations (see Appendix A, Figure 3). Of those 19 locations, three were within, or adjacent to, the two former surface impoundments located in the southwest portion of this site; four were on the west side of the site where large ASTs were formerly located; six were from locations within the surface soil grid described in the following section (only two

samples for laboratory analysis were collected from these six borings); and six were from the east portion of the site where bulk oil storage had been conducted. At each of the boreholes (excluding the locations within the surface soil sampling grid), a Geoprobe® Macro-Core soil sampler fitted with a disposable polyvinyl chloride (PVC) liner was advanced to a depth of at least 20 feet bgs, groundwater, refusal, or whichever was encountered first. At each of the six locations within the surface soil grid, the Geoprobe® Macro-Core soil sampler was advanced to 12 feet bgs. The soil cores were retrieved and immediately screened for VOCs with a photoionization detector (PID) and for metals with an x-ray fluorescence spectrometer (XRF). All soil cores were logged to determine lithology and soil characteristics. From each of the boreholes (excluding the six located within the surface soil sampling grid), one soil sample was collected from a 2-foot interval. From the six borings advanced within the surface soil sampling grid, two samples were collected for laboratory analysis. Those samples were collected from SB-14 and SB-17. The sampled intervals were selected based on field screening results, visual observations, and sampler judgment. Boring logs are included as Appendix D. Following sample collection from the soil boring locations, excess soil was returned to their respective boreholes and any remaining void space was filled with bentonite.

Subsurface soil samples were submitted for analysis of VOCs, TPH-DRO (by Method OA-2), TPH-GRO (by Method OA-1), PAHs, and priority pollutant metals. Soil samples for analysis of VOCs and TPH-GRO were collected following EPA Method 5035 guidelines, which involved placing approximately 5 grams of soil into two 40-milliliter (mL) volatile organic analysis (VOA) vials pre-preserved with sodium bisulfate and one VOA vial preserved with methanol. Then, remaining soil from the sample interval was removed from the PVC liner and placed in a disposable aluminum pie pan for homogenization prior to transfer to 4-ounce jars for analysis of PAHs, TPH-DRO, and priority pollutant metals.

Pertinent data, including analyses to be performed and sample locations, were recorded on field sheets for each soil sample (see Appendix E). Table 2 in this report summarizes the sample identification numbers, locations, global positioning system (GPS) coordinates, depth intervals, and analyses for the soil samples collected during the Phase II TBA activities. All soil samples were stored in coolers maintained at or below 4 degrees Celsius (°C) pending submittal to Pace.

3.2.2 Surface Soil Sampling

To assess metals concentrations in surface soil at the site, surface soil samples were collected and screened with an XRF. Surface soil samples were collected from areas located in the south-southwest portion of the site. Specifically, the surface soil samples were located south of the on-site building, primarily north of the

levee (see Appendix A, Figures 3 and 4). The 2004 EPA sampling activities identified elevated concentrations of metals (specifically, chromium, copper, nickel, and zinc) in surface soil in and around the wastewater evaporation sanitary lagoons. Therefore, the proposed surface soil sampling was conducted to delineate the extent of metals-contaminated surface soil.

In the surface soil sampling area, transect lines were spaced 100 feet apart running north and south; sample points were located at 100-foot intervals along those transect lines (see Appendix A, Figure 4). Surrounding each transect sample point, a 25-foot by 25-foot cell was established. In each cell, a five-aliquot composite sample was collected from the upper 2 inches of soil with a disposable stainless steel spoon. Each surface soil sample was then placed in a clean, dedicated, aluminum pie pan, homogenized, passed through a number 10 (2 millimeter [mm]) sieve, then screened for metals (chromium, copper, nickel, and zinc, in particular) with the XRF. Three separate XRF readings were obtained from each sample. The average of the three XRF readings (for all four of the specified metals) were calculated and recorded. Table F-1 in Appendix F summarizes the XRF surface soil screening results. Twelve of the 24 samples collected were selected based on the highest average XRF readings and transferred to two 4-ounce jars ─ one 4-ounce jar for analysis of chromium, copper, nickel, and zinc; and one 4-ounce jar for analysis of hexavalent chromium. In general, XRF screening of the surface soils did not indicate elevated concentrations of the metals of concern.

Pertinent data, including analyses to be performed and sample locations, were recorded on field sheets for each sample (see Appendix E). Table 2 of this report summarizes the sample identification numbers, locations, depth intervals, and analyses for the soil samples collected during the Phase II TBA activities. All soil samples were stored in coolers maintained at or below 4 °C pending submittal to Pace.

3.2.3 Temporary Geoprobe® Well Sampling

Eight groundwater samples were collected from temporary Geoprobe® wells installed at the site (see Appendix A, Figure 3). Groundwater sample locations were selected to investigate areas of the site where permanent monitoring wells were not already present. At each temporary Geoprobe® well location, a Geoprobe® Screen Point 15 groundwater sampling apparatus was driven below the water table. The sampler sheath was then withdrawn 4 feet (exposing a 4-foot-long stainless steel screen), allowing a sample to be collected with a peristaltic pump through disposable polyethylene tubing. New tubing was used for each sample to avoid cross-contamination from previous sampling locations. Geoprobe® rods and samplers were decontaminated with a tap water wash and rinse between sampling locations. Following

sample collection from the temporary monitoring wells, Geoprobe® rods were removed and the boreholes were backfilled with bentonite.

The groundwater samples were collected for analysis of VOCs, TPH-GRO (OA-1), PAHs, TPH-DRO (OA-2), and total and dissolved priority pollutant metals. Water samples collected for analysis of VOCs and TPH-GRO were collected in three 40-mL VOA vials preserved with hydrochloric acid (HCl) to a pH<2. Water samples collected for analysis of PAHs and TPH-DRO were collected in 100-mL glass, amber bottles (three per sample). Water samples collected for analysis of priority pollutant metals (total and dissolved) were collected in 250-mL polyethylene bottles (one each for total and dissolved metals) and preserved with nitric acid (HNO_3) to a pH <2. The dissolved samples were filtered in the field through disposable 0.45-micron filters.

Pertinent data, including analyses to be performed and sample locations, were recorded on field sheets for each sample (see Appendix E). Table 2 this report summarizes the sample identification numbers, locations, GPS coordinates, depth intervals, and analyses for the groundwater samples. All water samples were stored in coolers maintained at or below 4 °C pending submittal to Pace.

3.2.4 Permanent Monitoring Well Sampling

Ten groundwater samples were collected from permanent monitoring wells currently located at the site. Those wells are located across the site and were selected to represent site-wide groundwater quality (see Appendix A, Figure 3). The wells were sampled with a peristaltic pump in accordance with a low-flow or "micro-purge" technique. This sampling method involved placing disposable polyethylene tubing at the middle of the screened interval and pumping groundwater at a flow rate of 0.1 to 0.5 liter per minute (L/min). Prior to sampling, depth to groundwater was recorded at each well. While purging, field parameters (pH, conductivity, dissolved oxygen, oxidation-reduction potential, temperature) were recorded; once field parameters had stabilized (indicating the purge discharge was representative of aquifer conditions), samples were collected. Low-flow purge sheets containing specific well information for each sample location are included as Appendix E (with the field sheets)

All of the permanent monitoring well samples were submitted for analysis of total and dissolved chromium, copper, nickel, and zinc; and samples collected from monitoring wells GM-2, GM-5, GM-10, and GM-13 were also submitted for analysis of total and dissolved hexavalent chromium. Water samples collected for analysis of chromium, copper, nickel, and zinc (total and dissolved) were collected in 250-mL polyethylene bottles (one each for total and dissolved metals) and preserved with HNO_3 to a pH <2. The

samples collected for analysis of hexavalent chromium were also collected in 250-mL polyethylene bottles, unpreserved. The dissolved samples were filtered in the field through disposable 0.45-micron filters.

Pertinent data, including analyses to be performed and sample locations, were recorded on field sheets for each sample (see Appendix E). Table 2 of this report summarizes the sample identification numbers, locations, GPS coordinates, screened intervals, and analyses for the groundwater samples collected from permanent monitoring wells. All water samples were stored in coolers maintained at or below 4 °C pending submittal to Pace.

3.2.5 Basement – Water Sampling

In order to determine if site-related contaminants were present in water that had collected in the basement of the site building, water samples were collected from two locations inside the building (see Appendix A, Figure 4). Samples were collected through access points (i.e., holes) in the concrete floor of the first floor of the building. At each location, a water sample was collected by lowering disposable polyethylene tubing into the basement and withdrawing water with a peristaltic pump. The water samples were submitted for analysis of chromium (total), copper, nickel, and zinc; PCBs; cyanide; and hexavalent chromium. Water samples collected for analysis of PCBs were collected in 1-liter glass bottles (two per sample). Water samples that were analyzed for cyanide were collected in 250-mL polyethylene bottles (one per sample) preserved with sodium hydroxide (NaOH) to a pH >12. Water samples that were analyzed for chromium (total), copper, nickel, zinc; and hexavalent chromium were collected following the protocol listed in Section 3.2.4.

Pertinent data, including analyses to be performed and sample locations, were recorded on field sheets for each sample (see Appendix E). Table 2 in Appendix E of this report summarizes the sample identification numbers, locations, GPS coordinates, depth intervals, and analyses for the basement water samples. All water samples were stored in coolers maintained at or below 4 °C pending submittal to Pace.

3.2.6 Surface Water/Sediment Sampling

In order to determine the impacts of site operations to surface water and sediment, samples were collected from the Blue River and on-site features (see Appendix A, Figure 4). Specifically, the on-site features included the two wastewater evaporation sanitary lagoons, the two process water basins, and the pond located on the east portion of the site (referred to as the east pond) (see Appendix A, Figure 4). As previously mentioned, surface water samples were only collected from the Blue River, north process water

basin and south wastewater evaporation sanitary lagoon, because no water was present at the other on-site features.

Surface Water

Six surface water samples were collected. These include four samples from the Blue River, one from the south wastewater evaporation sanitary lagoon, and one from the north process water basin. The surface water samples were collected prior to the collection of sediment samples. The surface water samples were collected by immersing sample containers directly into the water.

All surface water samples were submitted for analysis of chromium (total), copper, nickel, and zinc. The samples collected from the north process water basin and south wastewater evaporation sanitary lagoon were also submitted for analysis of PCBs and total cyanide. Additionally, the sample collected from the south wastewater evaporation sanitary lagoon was also submitted for analysis of hexavalent chromium. All of the water samples were collected in accordance with the protocol previously discussed.

Sediment

Thirteen sediment samples were collected during the Phase II TBA sampling activities. Of those thirteen samples, four samples were collected from the Blue River, one sample was collected from each of the two wastewater evaporation sanitary lagoons, two samples were collected from each of the process water basins, one sample was from the east pond, and two samples were from the basement of the site building. The sediment samples from the Blue River and the basement of the site building were grab samples collocated with the surface water samples collected from those locations. The sediment samples collected from the lagoons and the water basins were five-aliquot composite samples. All sediment samples were collected from the top 6 inches of sediment using a hand-held auger. For the samples collected from the process water basins, each basin was divided in half, and a five-aliquot sediment sample was collected from each half.

All sediment samples were submitted for analysis of chromium (total), copper, nickel, and zinc. Each sediment sample submitted for the listed metals was collected in a 4-ounce glass jar. Sediment samples collected from the process water basins, the wastewater evaporation sanitary lagoons, and the east pond were also submitted for analysis of PCBs and cyanide. Samples for analysis of PCBs and cyanide were collected in 4-ounce glass jars. Additionally, the sediment samples collected from the basement of the site building and wastewater evaporation sanitary lagoons were submitted for analysis of hexavalent chromium, which were collected in 4-ounce glass jars.

For the surface water and sediment samples, pertinent data, including analyses to be performed and sample locations, were recorded on field sheets for each sample (see Appendix E). Table 2 of this report summarizes the sample identification numbers, locations, GPS coordinates, depth intervals, and analyses to be performed. All samples were stored in coolers maintained at or below 4 °C pending submittal to Pace.

TABLE 2

SUMMARY OF SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

Sample ID	Sample Location	Depth Interval (bgs)	GPS Coordinates	Analysis
SUBSURFACE SOIL				
SB-1-25-27	SB-1	25-27 feet	38.83069° N 94.63113° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-2-2-4	SB-2	2-4 feet	38.83149° N 94.63135° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-3-16-18	SB-3	16-18 feet	38.82963° N 94.63222° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-4-14-16	SB-4	14-16 feet	38.83130° N 94.63217° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-5-10-12	SB-5	10-12 feet	38.83200° N 94.63198° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-6-14-16	SB-6	14-16 feet	38.83063° N 94.63227° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-7-10-12	SB-7	10-12 feet	38.82938° N 94.63461° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-8-9-11	SB-8	9-11 feet	38.82922° N 94.63435° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-9-12-14	SB-9	12-14 feet	38.82915° N 94.63409° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-10-12-14	SB-10	12-14 feet	38.82963° N 94.63445° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-11-17-19	SB-11	17-19 feet	38.82952° N 94.63407° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-14-8-10	SB-14	8-10 feet	38.82973° N 94.63304° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-17-10-12	SB-17	10-12 feet	38.83000° N 94.63336° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SB-18-12-14	SB-18	12-14 feet	38.83175° N 94.63412° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals

Sample ID	Sample Location	Depth Interval (bgs)	GPS Coordinates	Analysis
SB-19-6-8	SB-19	6-8 feet	38.83242° N 94.63383° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals
SURFACE SOIL				
SS-1	SS-1	0-2 inches	38.83036° N 94.63412° W	Chromium, Copper, Nickel, Zinc, and Hexavalent Chromium
SS-2	SS-2	0-2 inches	38.82982° N 94.63411° W	Chromium, Copper, Nickel, Zinc, and Hexavalent Chromium
SS-3	SS-3	0-2 inches	38.82899° N 94.63409° W	Chromium, Copper, Nickel, Zinc, and Hexavalent Chromium
SS-4	SS-4	0-2 inches	38.83037° N 94.63377° W	Chromium, Copper, Nickel, Zinc, and Hexavalent Chromium
SS-5	SS-5	0-2 inches	38.82982° N 94.63376° W	Chromium, Copper, Nickel, Zinc, and Hexavalent Chromium
SS-6	SS-6	0-2 inches	38.82927° N 94.63375° W	Chromium, Copper, Nickel, Zinc, and Hexavalent Chromium
SS-7	SS-7	0-2 inches	38.83037° N 94.63342° W	Chromium, Copper, Nickel, Zinc, and Hexavalent Chromium
SS-8	SS-8	0-2 inches	38.82983° N 94.63341° W	Chromium, Copper, Nickel, Zinc, and Hexavalent Chromium
SS-9	SS-9	0-2 inches	38.82955° N 94.63340° W	Chromium, Copper, Nickel, Zinc, and Hexavalent Chromium
SS-10	SS-10	0-2 inches	38.83038° N 94.63307° W	Chromium, Copper, Nickel, Zinc, and Hexavalent Chromium
SS-11	SS-11	0-2 inches	38.83010° N 94.63306° W	Chromium, Copper, Nickel, Zinc, and Hexavalent Chromium
SS-12	SS-12	0-2 inches	38.82928° N 94.63304° W	Chromium, Copper, Nickel, Zinc, and Hexavalent Chromium
TEMPORARY GEOPROBE® WELLS				
SB-1-GW	SB-1	20-24	38.83069° N 94.63113° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals (total and dissolved)
SB-3-GW	SB-3	20-24	38.82963° N 94.63222° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals (total and dissolved)
SB-5-GW	SB-5	20-24	38.83200° N 94.63198° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals (total and dissolved)
SB-6-GW	SB-6	20-24	38.83063° N 94.63227° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals (total and dissolved)

Sample ID	Sample Location	Depth Interval (bgs)	GPS Coordinates	Analysis
SB-7-GW	SB-7	20-24	38.82938° N 94.63461° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals (total and dissolved)
SB-9-GW	SB-9	20-24	38.82915° N 94.63409° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals (total and dissolved)
SB-11-GW	SB-11	20-24	38.82952° N 94.63407° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals (total and dissolved)
SB-17-GW	SB-17	20-24	38.83000° N 94.63336° W	VOCs, PAHs, TPH-GRO, TPH-DRO, and Priority Pollutant Metals (total and dissolved)
PERMANENT MONITORING WELLS				
GM-1	GM-1	17.0	38.83271 °N 94.63375 °W	Chromium, Copper, Nickel, and Zinc (total and dissolved)
GM-2	GM-2	23.3	38.83212° N 94.63485° W	Chromium, Copper, Nickel, and Zinc (total and dissolved); and Hexavalent Chromium (total and dissolved)
GM-5	GM-5	14.9	38.82884° N 94.63435° W	Chromium, Copper, Nickel, and Zinc (total and dissolved); and Hexavalent Chromium (total and dissolved)
GM-7	GM-7	16.8	38.82882° N 94.63289° W	Chromium, Copper, Nickel, and Zinc (total and dissolved)
GM-8	GM-8	20.0	38.83260° N 94.63239° W	Chromium, Copper, Nickel, and Zinc (total and dissolved)
GM-10	GM-10	19.4	38.83204° N 94.63358° W	Chromium, Copper, Nickel, and Zinc (total and dissolved); and Hexavalent Chromium (total and dissolved)
GM-12	GM-12	24.9	38.82985° N 94.63201° W	Chromium, Copper, Nickel, and Zinc (total and dissolved)
GM-13	GM-13	17.0	38.83104° N 94.63247° W	Chromium, Copper, Nickel, and Zinc (total and dissolved); and Hexavalent Chromium (total and dissolved)
GM-15	GM-15	20.5	38.82941° N 94.63309° W	Chromium, Copper, Nickel, and Zinc (total and dissolved)
GM-17	GM-17	17.0	38.83160° N 94.63432° W	Chromium, Copper, Nickel, and Zinc (total and dissolved)
SEDIMENT				
BR-1-SED	Blue River	NA	38.83186° N 94.63510° W	Chromium, Copper, Nickel, and Zinc

Sample ID	Sample Location	Depth Interval (bgs)	GPS Coordinates	Analysis
BR-2-SED	Blue River	NA	38.83096° N 94.63115° W	Chromium, Copper, Nickel, and Zinc
BR-3-SED	Blue River	NA	38.82823° N 94.63390° W	Chromium, Copper, Nickel, and Zinc
BR-4-SED	Blue River	NA	38.83077° N 94.62990° W	Chromium, Copper, Nickel, and Zinc
NPWB-SED-N	North Process Water Basin	NA	38.83264° N 94.63280° W	Chromium, Copper, Nickel, and Zinc; Cyanide; and PCBs
NPWB-SED-S	North Process Water Basin	NA	38.83230° N 94.63290° W	Chromium, Copper, Nickel, and Zinc; Cyanide; and PCBs
SPWB-SED-N	South Process Water Basin	NA	38.83184° N 94.63340° W	Chromium, Copper, Nickel, and Zinc; Cyanide; and PCBs
SPWB-SED-S	South Process Water Basin	NA	38.83154° N 94.63350° W	Chromium, Copper, Nickel, and Zinc; Cyanide; and PCBs
WWEL-N-SED	North Wastewater Evaporation Lagoon	NA	38.82976° N 94.63420° W	Chromium, Copper, Nickel, and Zinc; Cyanide; PCBs; and Hexavalent Chromium
WWEL-S-SED	South Wastewater Evaporation Lagoon	NA	38.82961° N 94.63430° W	Chromium, Copper, Nickel, and Zinc; Cyanide; PCBs; and Hexavalent Chromium
EP-SED	East Pond	NA	38.83158° N 94.63190° W	Chromium, Copper, Nickel, and Zinc; Cyanide; and PCBs
BLDG-1-SED	Site Building	NA	38.83079° N 94.63400° W	Chromium, Copper, Nickel, and Zinc; Cyanide; PCBs; and Hexavalent Chromium
BLDG-2-SED	Site Building	NA	38.83070° N 94.63325° W	Chromium, Copper, Nickel, and Zinc; Cyanide; PCBs; and Hexavalent Chromium
SURFACE WATER				
BR-1-SW	Blue River	NA	38.83186° N 94.63510° W	Chromium, Copper, Nickel, and Zinc
BR-2-SW	Blue River	NA	38.83096° N 94.63115° W	Chromium, Copper, Nickel, and Zinc
BR-3-SW	Blue River	NA	38.82823° N 94.63390° W	Chromium, Copper, Nickel, and Zinc
BR-4-SW	Blue River	NA	38.83077° N 94.62990° W	Chromium, Copper, Nickel, and Zinc

Sample ID	Sample Location	Depth Interval (bgs)	GPS Coordinates	Analysis
NPWB-SW	North Process Water Basin	NA	38.83238° N 94.63290° W	Chromium, Copper, Nickel, and Zinc; Cyanide; and PCBs
WWEL-S-SW	South Process Water Basin	NA	38.82961° N 94.63430° W	Chromium, Copper, Nickel, and Zinc; Cyanide; PCBs; and Hexavalent Chromium
BLDG-1-SW	Site Building	NA	38.83079° N 94.63400° W	Chromium, Copper, Nickel, and Zinc; Cyanide; PCBs; and Hexavalent Chromium
BLDG-2-SW	Site Building	NA	38.83070° N 94.63330° W	Chromium, Copper, Nickel, and Zinc; Cyanide; PCBs; and Hexavalent Chromium
QUALITY CONTROL				
Trip Blank-GW	N/A	N/A	N/A	VOCs
Equipment Rinsate	N/A	N/A	N/A	VOCs, PAHs, TPH-GRO, TPH-DRO, Priority Pollutant Metals (total and dissolved), and Hexavalent Chromium (total and dissolved)
Field Blank	N/A	N/A	N/A	VOCs, PAHs, TPH-GRO, TPH-DRO, Priority Pollutant Metals (total and dissolved), and Hexavalent Chromium (total and dissolved)

Notes:

°	Degrees	PAH	Polynuclear aromatic hydrocarbons
bgs	Below ground surface	PCB	Polychlorinated biphenyls
DRO	Diesel range organics	TPH	Total petroleum hydrocarbons
GPS	Global positioning system	VOC	Volatile organic compound
GRO	Gasoline range organics	W	West
N/A	Not applicable		
N	North		

4.0 EVALUATION AND PRESENTATION OF RESULTS

This section summarizes the analytical data for the soil, groundwater, surface water, sediment, and QC samples collected during the Phase II TBA. Soil (and sediment from the on-site features) and groundwater sample results from this Phase II TBA were compared to their respective Risk-Based Standards for Kansas (RSK) developed by KDHE. The RSK Manual is meant to serve as a tool for evaluation of the need for additional assessment or cleanup at contaminated sites, when considered in conjunction with other site-specific conditions (KDHE 2010). Comparison of sample results to both residential and non-residential

RSK values were made (when applicable) to address multiple land use scenarios for future site redevelopment.

Surface water sample results were compared to their respective Kansas Surface Water Quality Standards (KSWQS), also developed by KDHE (KDHE 2004). Additionally, sediment sample results from the Blue River were compared to Threshold Effects Concentrations (TEC) and Probable Effects Concentrations (PEC) (National Oceanic Atmospheric Administration [NOAA] 2008). The complete analytical data package is included as Appendix G.

4.1 SUBSURFACE SOIL SAMPLES

Fifteen subsurface soil samples were submitted to Pace for analysis of VOCs, PAHs, TPH-GRO, TPH-DRO, and priority pollutant metals (including mercury). A summary of the analytes detected in the subsurface soil samples follows:

Volatile Organic Compounds

Seven of the 15 subsurface soil samples contained VOCs at concentrations that ranged from 5.8 to 1,310 micrograms per kilogram (µg/kg). In those samples, the following seven VOCs were detected: acetone, 2-butanone (MEK), n-butylbenzene, sec-butylbenzene, carbon disulfide, isopropylbenzene, and 1,2,4-trimethylbenzene. None of the VOCs were detected at concentrations that exceeded their respective RSK values. In general, the VOCs were detected at low concentrations. Table F-2 in Appendix F summarizes the analytical data for VOCs in the soil samples.

Polynuclear Aromatic Hydrocarbons

Twelve of the 15 subsurface soil samples contained PAHs at concentrations that ranged from 4.4 to 2,120 µg/kg. In those samples, the following 16 PAHs were detected: acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene. None of the PAHs were detected at concentrations that exceeded their respective RSK values. PAHs are a byproduct of burning fossil fuels and are commonly associated with industrial sites/settings. In general, the PAHs were detected at low concentrations. Table F-3 in Appendix F summarizes the analytical data for PAHs in the subsurface soil samples.

Total Petroleum Hydrocarbons

Five of the 15 subsurface soil samples contained TPH-DRO at concentrations that ranged from 792 to 7,970 milligrams per kilogram (mg/kg). Two of those samples contained TPH-DRO above its RSK value established for residential soil, which is 2,000 mg/kg. However, none of the detected TPH-DRO concentrations were above its RSK value established for non-residential soil, which is 20,000 mg/kg. The sample locations that contained TPH-DRO above its residential RSK value (of 2,000 mg/kg) were SB-6 (from 14 to 16 feet bgs) and SB-7 (from 10 to 12 feet bgs). Soil boring SB-6, from which a sample was collected that contained TPH-DRO at 3,640 mg/kg, was located on the east side of the property and near the former location of a large petroleum AST. Soil boring SB-7, from which a sample was collected that contained TPH-DRO at 7,970 mg/kg, was located within a capped surface impoundment located on the southwest portion of the site. Additionally, sample from soil borings SB-8 and SB-9, which were also located within the two capped surface impoundments located on the southwest portion of the site, contained TPH-DRO at 792 and 1,980 mg/kg, respectively.

Five of the 15 subsurface soil samples contained TPH-GRO at concentrations that ranged from 1.4 to 640 mg/kg. Two of those samples contained TPH-GRO above its RSK values established for both residential and non-residential soil, which are 220 and 450 mg/kg, respectively. Those samples were collected from SB-6 (from 14 to 16 feet bgs) and SB-7 (from 10 to 12 feet bgs). Specifically, the sample collected from SB-6 contained TPH-GRO at 640 mg/kg, and the sample collected from SB-7 contained the analyte at 539 mg/kg. Samples from soil borings SB-6 and SB-7 contained the highest detected concentrations of both TPH-DRO and TPH-GRO. Table F-4 in Appendix F summarizes the analytical data for TPH in the subsurface soil samples.

Priority Pollutant Metals

All 15 of the subsurface soil samples contained priority pollutant metals. In those samples, the following metals were detected: antimony, arsenic, beryllium, chromium, copper, lead, nickel, zinc, and mercury. Only the samples collected from SB-8 (from 9 to 11 feet bgs) and SB-9 (from 12 to 14 feet bgs) contained concentrations of metals that exceeded their respective RSK values; these included arsenic, chromium, copper, and nickel. Both of those sample locations (SB-8 and SB-9) were within the capped surface impoundments located in the southwest portion of the site. The surface impoundments historically received waste from the electroplating operations on the site. The sample collected from SB-8 contained arsenic (at 116 mg/kg), chromium (at 4,060 mg/kg), copper (3,630 mg/kg), and nickel (7,180 mg/kg), at concentrations that exceeded their respective RSK values established for residential land use. The detected concentrations of arsenic and chromium also exceeded their respective RSK values established for non-residential land use, which are 38 mg/kg for arsenic and 111 mg/kg for chromium. The sample collected

from SB-9 contained chromium at 342 mg/kg, which exceeded both its residential and non-residential RSK values, which are 33.6 and 111 mg/kg, respectively. The sample results from locations SB-8 and SB-9 determined that elevated concentrations of metals are present in subsurface soil within the former surface impoundments. None of the other samples contained metals above their respective RSK values. Table F-5 in Appendix F summarizes the analytical data for metals in the subsurface soil samples.

4.2 SURFACE SOIL SAMPLES

Twelve surface soil samples were submitted to Pace for analysis of chromium (total), copper, nickel, zinc, and hexavalent chromium. All 12 of the surface soil samples contained chromium, copper, nickel, and zinc; however, hexavalent chromium was not detected in any of the samples. Of the metals detected, only chromium was identified at concentrations above its respective RSK values. Samples SS-1 and SS-9 contained chromium at 44.7 and 60 mg/kg, respectively, which exceed the RSK value of 33.6 mg/kg established for chromium in residential soil. Additionally, samples SS-2, SS-4, SS-5, and SS-7 contained chromium at concentrations that ranged from 144 to 177 mg/kg. The chromium concentrations in all four of those samples were above its respective RSK values established for both residential (33.6 mg/kg) and non-residential soil (111 mg/kg). It should be discussed that the RSK values for total chromium assume a ratio (generally 6 to 1) of trivalent chromium to hexavalent chromium. As stated above, hexavalent chromium was not detected in any of the surface soil samples; therefore, it may be more appropriate to compare the chromium results to the EPA Regional Screening Levels for trivalent chromium, which are 120,000 mg/kg for residential soil and 1,500,000 mg/kg for industrial soil. When making this comparison, the detected chromium in surface soil concentrations are well below these health-based standards. None of the other analytes were detected at concentrations exceeding their respective RSK values. Table F-6 in Appendix F summarizes the analytical data for metals in the surface soil samples.

4.3 TEMPORARY GEOPROBE® WELL SAMPLES

Eight groundwater samples were collected from temporary Geoprobe® wells and submitted to Pace for analysis of VOCs, TPH-GRO, TPH-DRO, PAHs, and total and dissolved priority pollutant metals. A summary of analytes detected in the groundwater samples follows:

Volatile Organic Compounds

Five of the eight groundwater samples collected from temporary Geoprobe® well samples contained VOCs at concentrations that ranged from 0.1 to 384 micrograms per liter (µg/L). In those samples, the following seven VOCs were detected: 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethene (1,2-DCE), 1,1-

dichloroethene (1,1-DCE), *cis*-1,2-dichloroethene (cis-1,2-DCE), *trans*-1,2-dichloroethene (trans-1,2-DCE), trichloroethene (TCE), and vinyl chloride. The majority of those VOCs were detected in samples SB-7-GW and SB-11-GW. Specifically, 1,2-DCE, *cis* -1,2-DCE, and TCE were detected at concentrations above their respective RSK values. Sample SB-11-GW contained the highest concentrations of VOCs. This sample was collected from the southwest portion of the site, just east of the wastewater evaporation sanitary lagoons. This location formerly contained a large AST that was associated with historical bulk oil storage/transfer operations. Of the VOCs detected in sample SB-11-GW, TCE, 1,2-DCE, and *cis*-1,2-DCE were detected at 384, 294, and 299 µg/L, respectively. Those concentrations are well above the RSK values established for these compounds. For reference, the RSK values for TCE, 1,2-DCE, and *cis*-1,2-DCE are 5, 5, and 70 µg/L, respectively. Additionally, sample SB-7-GW contained TCE (at 9.5 µg/L) and 1,2-DCE (at 25.5 µg/L) at concentrations that exceeded their respective RSK values. Sample SB-7-GW was collected within the capped surface impoundments located in the southwest portion of the site. The surface impoundments historically received waste from the electroplating operations on the site. All of the detected VOCs are chlorinated solvents that are commonly associated with industrial activities; however, past investigations have not identified elevated concentrations of these compounds. It should be noted that RSK values for the groundwater exposure pathway have been established for groundwater ingestion. Because groundwater at the site is not currently used for domestic purposes (drinking, washing, etc.), comparing the groundwater sample results to those standards may not be entirely applicable. Table F-7 in Appendix F summarizes the analytical data for VOCs in the temporary Geoprobe® well samples.

Polynuclear Aromatic Hydrocarbons

One PAH compound, fluoranthene, was detected in two of the eight groundwater samples collected from temporary Geoprobe® wells. Samples SB-5-GW and SB-7-GW contained fluoranthene at 0.16 and 0.13 µg/L, respectively. The detected concentrations of fluoranthene were well below its established RSK values. No other PAH compounds were detected in the temporary Geoprobe® well samples. Table F-7 in Appendix F summarizes the analytical data for PAHs in the temporary Geoprobe® well samples.

Total Petroleum Hydrocarbons

Only one of the eight groundwater samples collected from temporary Geoprobe® wells contained a reportable concentration of TPH-GRO. Sample SB-11-GW contained TPH-GRO at 0.64 milligrams per liter (mg/L). This concentration of TPH-GRO is above the analyte's RSK values established for the residential and non-residential groundwater exposure pathways, which are both 0.5 mg/L.

Two of the eight groundwater samples collected from temporary Geoprobe® wells contained reportable concentrations of TPH-DRO. Samples SB-5-GW and SB-7-GW contained TPH-DRO at 0.56 and 0.51 mg/L, respectively. Both of those concentrations exceeded the analyte's established RSK value established for the residential groundwater exposure pathway. However, the detected concentrations of TPH-DRO were below its RSK value established for the non-residential groundwater exposure pathway, which is 0.72 mg/L. As mentioned above, the RSK values for the groundwater exposure pathway have been established for groundwater ingestion, and because groundwater is not used at the site, this comparison may not be entirely applicable. Table F-8 in Appendix F summarizes the analytical data for TPH in the temporary Geoprobe® well samples.

Priority Pollutant Metals

Groundwater samples contained concentrations of arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, zinc, and mercury. Total beryllium, cadmium, chromium, lead, nickel, and mercury were detected at concentrations that exceeded their respective RSK values for the groundwater exposure pathway. In the dissolved samples, only lead, in sample SB-6-GW, was detected above its respective RSK value, which is 15 µg/L. Specifically, lead was detected at 34.8 µg/L in sample SB-6-GW. The elevated concentrations of metals detected in the unfiltered samples (total metals) are likely attributable to suspended sediment in the samples and are not likely representative of groundwater quality in the site area. Table F-9 in Appendix F summarizes the analytical data for priority pollutant metals in the temporary Geoprobe® well samples.

4.4 PERMANENT MONITORING WELL SAMPLES

Ten groundwater samples were collected from permanent monitoring wells and submitted to Pace for analysis of total and dissolved chromium, copper, nickel, and zinc. Additionally, samples GM-2, GM-5, GM-10, and GM-13 were also submitted for analysis of total and dissolved hexavalent chromium. A summary of analytes detected in the groundwater samples follows:

Chromium, Copper, Nickel, and Zinc

Five of the 10 permanent monitoring wells contained detected concentrations of (total or dissolved) chromium, copper, nickel, and/or zinc; however, none of the metals were detected above their respective RSK values. Table F-9 in Appendix F summarizes the analytical data for priority pollutant metals in the permanent monitoring well samples.

Hexavalent Chromium

Hexavalent chromium was not detected in any of the permanent monitoring well samples submitted for analysis.

4.5 BASEMENT – WATER SAMPLES

Two water samples collected from the basement of the on-site building were submitted to Pace for analysis of chromium (total), copper, nickel, zinc, PCBs, cyanide, and hexavalent chromium. A summary of analytes detected in those water samples follows:

Chromium, Copper, Nickel, and Zinc

Chromium, copper, nickel, and zinc were detected in both of the water samples collected from the basement; however, the detected concentrations were all well below KSWQS values established for those metals. Table F-10 in Appendix F summarizes the analytical data for water samples collected from the basement.

Hexavalent Chromium

Hexavalent chromium was not detected in either of the water samples.

Cyanide

Cyanide was detected at 0.022 mg/L in sample BLDG-2-SW, which was collected from the east portion of the building. This concentration of cyanide is below its respective KSWQS established for protection of domestic water supply, which is 0.2 mg/L. Table F-10 in Appendix F summarizes the analytical data for water samples collected from the basement.

Polychlorinated Biphenyls

PCBs were not detected in either of the water samples.

4.6 SURFACE WATER SAMPLES

In all, six surface water samples were collected for laboratory analyses during the Phase II TBA. As previously mentioned, the four samples collected from the Blue River were only submitted for analysis of chromium (total), copper, nickel, and zinc. However, the two samples collected from the north process

water basin and south wastewater evaporation sanitary lagoon were also submitted for analysis of PCBs and total cyanide. Additionally, the water sample collected from the south wastewater evaporation sanitary lagoon was also submitted for analysis of hexavalent chromium. A summary of analytes detected in those samples follows:

Chromium, Copper, Nickel, and Zinc

Of the four surface water samples collected from the Blue River, only nickel (at 5.3 µg/L in sample BR-3-SW) was detected above laboratory reporting limits. The detected concentration of nickel in this sample was just above the laboratory reporting limit of 5.0 µg/L, and well below the metal's KSWQS established for protection of domestic water supplies, which is 610 µg/L.

Concentrations of the four site-related metals were detected in the samples collected from the north process water basin and the south wastewater evaporation sanitary lagoon. In those samples, only chromium was detected at a concentration above its KSWQS established for protection of domestic water supplies, which is 100 µg/L. Specifically, chromium was detected at 186 µg/L in sample NPWB-SW, which was collected from the north process water basin. Table F-10 in Appendix F summarizes the analytical data for the surface water samples.

Hexavalent Chromium

Hexavalent chromium was detected at 0.057 mg/L in sample WWEL-S-SW, which was collected from the south wastewater evaporation sanitary lagoon. The detected concentration of hexavalent chromium exceeds its KSWQS established for protection of domestic water supplies, which is 0.05 mg/L. Table F-10 in Appendix F summarizes the analytical data for the surface water samples.

Cyanide

Cyanide was not detected in either of the surface water samples submitted for that analysis.

Polychlorinated Biphenyls

PCBs were not detected in either of the surface water samples submitted for that analysis.

4.7 SEDIMENT SAMPLES

Thirteen sediment samples were collected for laboratory analysis during the Phase II TBA. As previously mentioned, the four sediment samples collected from the Blue River were only submitted for analysis of

chromium (total), copper, nickel, and zinc. The other nine sediment samples were also submitted for analysis of those metals, as well as cyanide. The sediment samples collected from the two wastewater evaporation sanitary lagoons and the basement of the building were also submitted for analysis of PCBs. Additionally, sediment samples collected from the basement of the site building and the wastewater evaporation sanitary lagoons were submitted for analysis of hexavalent chromium. A summary of analytes detected in the sediment samples follows:

Chromium, Copper, Nickel, and Zinc

All 13 of the sediment samples collected during the site activities contained detected concentrations of chromium (total), copper, nickel, and zinc. In the four sediment samples collected from the Blue River, the site-related metals were all detected at similar concentrations. However, it should be noted that the upstream sample (BR-1-SED) contained lower concentrations of each of the metals than all of the downstream samples. Nickel was the only metal that was detected above its respective TEC. Specifically, samples BR-2-SED and BR-3-SED contained nickel at 23.9 and 24.9 mg/kg, respectively. Those concentrations were just above the TEC established for nickel, which is 22.7 mg/kg. The detected concentrations of nickel were below its respective PEC, which is 48.6 mg/kg. None of the other metals were detected at concentrations that exceeded their respective TEC or PEC.

The site-related metals were all detected at much higher concentrations (excluding the sample collected from the east pond) in the sediment samples collected from the on-site features (process water basins, wastewater evaporation sanitary lagoons, and from the basement of the building). In those samples, chromium was detected at concentrations that ranged from 64.2 to 7,030 mg/kg; copper from 307 to 5,770 mg/kg; nickel from 58.7 to 14,900 mg/kg; and zinc from 288 to 154,000 mg/kg. The sediment sample results for the on-site features were compared to RSK values established for soil instead of TEC and PEC sediment standards. Chromium was consistently detected above its established RSK values, which are 33.6 mg/kg for residential soil and 111 mg/kg for non-residential soil. However, as previously discussed, the RSK values for total chromium assume a ratio (generally 6 to 1) of trivalent chromium to hexavalent chromium. As discussed below, hexavalent chromium was not detected above laboratory reporting limits in the sediment samples collected from the on-site features. Therefore, it may be more appropriate to compare the chromium results to the EPA Regional Screening Levels for trivalent chromium, which are 120,000 mg/kg for residential soil and 1,500,000 mg/kg for industrial soil. When making this comparison, the detected concentrations of chromium are well below those health-based standards. In general, the highest concentrations were detected in the sample collected from the north wastewater evaporation sanitary lagoon. Levels of metals in this sample were consistent with historical sampling results ─ in

particular, the 2004 EPA sampling event. Table F-11 in Appendix F summarizes the analytical data for the sediment samples.

Hexavalent Chromium

Hexavalent chromium was not detected above laboratory reporting limits in the sediment samples. Laboratory reporting limits for those samples ranged from 3.2 to 11.4 mg/kg. Table F-11 in Appendix F summarizes the analytical data for the sediment samples.

Cyanide

Cyanide was detected in four of the nine sediment samples at concentrations that ranged from 0.27 to 3.3 mg/kg. The highest concentration of cyanide (3.3 mg/kg) was detected in sample BLDG-1-SED, which was collected from the basement of the on-site building. The detected concentrations of cyanide were all well below its respective RSK values. Table F-11 in Appendix F summarizes the analytical data for the sediment samples.

Polychlorinated Biphenyls

PCBs were not detected in any of the sediment samples.

4.8 QUALITY CONTROL SAMPLES

The QC samples included a water field blank, rinsate blank, and trip blank. Only the field blank contained a detection of any of the analyzed compounds. The field blank contained fluoranthene at a concentration of 0.1 µg/L. For reference, the detected concentration of fluoranthene is well below its respective residential RSK value of 255 µg/L.

5.0 DISCUSSION OF FINDINGS, AFFECTED MEDIA, AND RECOMMENDATIONS

Sample results from this Phase II TBA have determined that site-related contaminants are present in environmental media. A discussion of the findings and recommendations is detailed below.

One of the purposes of this Phase II TBA was to determine if past site operations had resulted in contamination on the east portion of the site, which had not been previously investigated. Sampling results did not identify widespread contamination in soil and groundwater across the east portion of the site. However, subsurface soil sample results collected from soil boring SB-6 indicated TPH-DRO and TPH-GRO at concentrations that exceeded their respective RSK values. The presence of TPH at that location is

likely associated with historical site operations involving bulk oil storage/transfer. No other samples collected from the east portion of the site during this Phase II TBA contained site-related contaminants at levels of concern, excluding TPH-DRO detected in groundwater sample SB-5-GW at 0.56 mg/L.

Consistent with past environmental investigations, samples collected as part of this Phase II TBA from the west portion of the site contained contaminants (primarily chromium, copper, nickel, and zinc) that are associated with historic site operations (electroplating in particular). Of note, elevated concentrations of the site-related metals were detected in subsurface soil samples collected from locations within the capped surface impoundments located on the southwest portion of the site. Those surface impoundments historically received waste from the electroplating operations on the site. Past investigations conducted at the site determined that elevated levels of metals remain within one of the surface impoundments (Lagoon #3), which is located in the northwest corner of the site. The sample results indicate that waste also remains within the two southern surface impoundments. Additionally, elevated concentrations of both VOCs and TPH were detected in samples collected from the west portion of the site. Chlorinated VOCs, which are common industrial contaminants, were detected in both soil and groundwater at sample locations SB-11-GW and SB-7-GW. Sample SB-11-GW was collected from the southwest portion of the site and just east of the wastewater evaporation sanitary lagoons. This location formerly contained a large AST that was associated with historical bulk oil storage/transfer operations. Of the VOCs detected in sample SB-11-GW, TCE, 1,2-DCE, and *cis*-1,2-DCE were detected at concentrations of 384, 294, and 299 µg/L, respectively. Those concentrations are well above the RSK values established for these compounds. For reference, the RSK values (for the groundwater exposure pathway) for TCE, 1,2-DCE, and *cis*-1,2-DCE are 5, 5, and 70 µg/L, respectively. Additionally, sample SB-7-GW contained TCE (at 9.5 µg/L) and 1,2-DCE (at 25.5 µg/L) at concentrations that exceeded their respective RSK values. Sample SB-7-GW was collected within the capped surface impoundments located in the southwest portion of the site. Past investigations have not identified elevated concentrations of these compounds. Based on the groundwater sample results, it appears that the VOC plume is primarily located near the wastewater evaporation sanitary lagoons and the capped surface impoundments. Historically, groundwater flow at the site has been determined to be to the south/southwest, towards the Blue River. As stated above, the detected concentrations of several VOCs were above their respective RSK values; however, it should be noted that RSK values for the groundwater exposure pathway have been established for groundwater ingestion. Because groundwater at the site is not currently used for domestic purposes (drinking, washing, etc.), comparing the groundwater sample results to those standards may not be entirely applicable.

Also consistent with past investigations, elevated concentrations of site-related metals were detected in the wastewater evaporation sanitary lagoons (specifically from the south lagoon); however, surface soil sampling conducted as part of this Phase II TBA determined that elevated concentrations of metals are not present across the south portion of the site.

The collection of surface water and sediment samples from the Blue River as part of this Phase II TBA did not identify site-related contaminants at levels of concern.

Sample results from this Phase II TBA should be reviewed by personnel from EPA and KDHE to determine if additional investigation may be warranted. Review of this sample data, as well as the findings from previous investigations at the site should be conducted to specifically identify environmental liabilities associated with the site ─ in particular, those liabilities that could affect a potential purchaser or entity taking ownership of the property. As previously mentioned, the three former surface impoundments (that historically received waste from electroplating operations on the site) are considered RCRA post-closure units. KDHE maintains post-closure authority over those units, while EPA Region 7 maintains regulatory authority over the entire site.

6.0 REFERENCES

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APPENDIX A

FIGURES

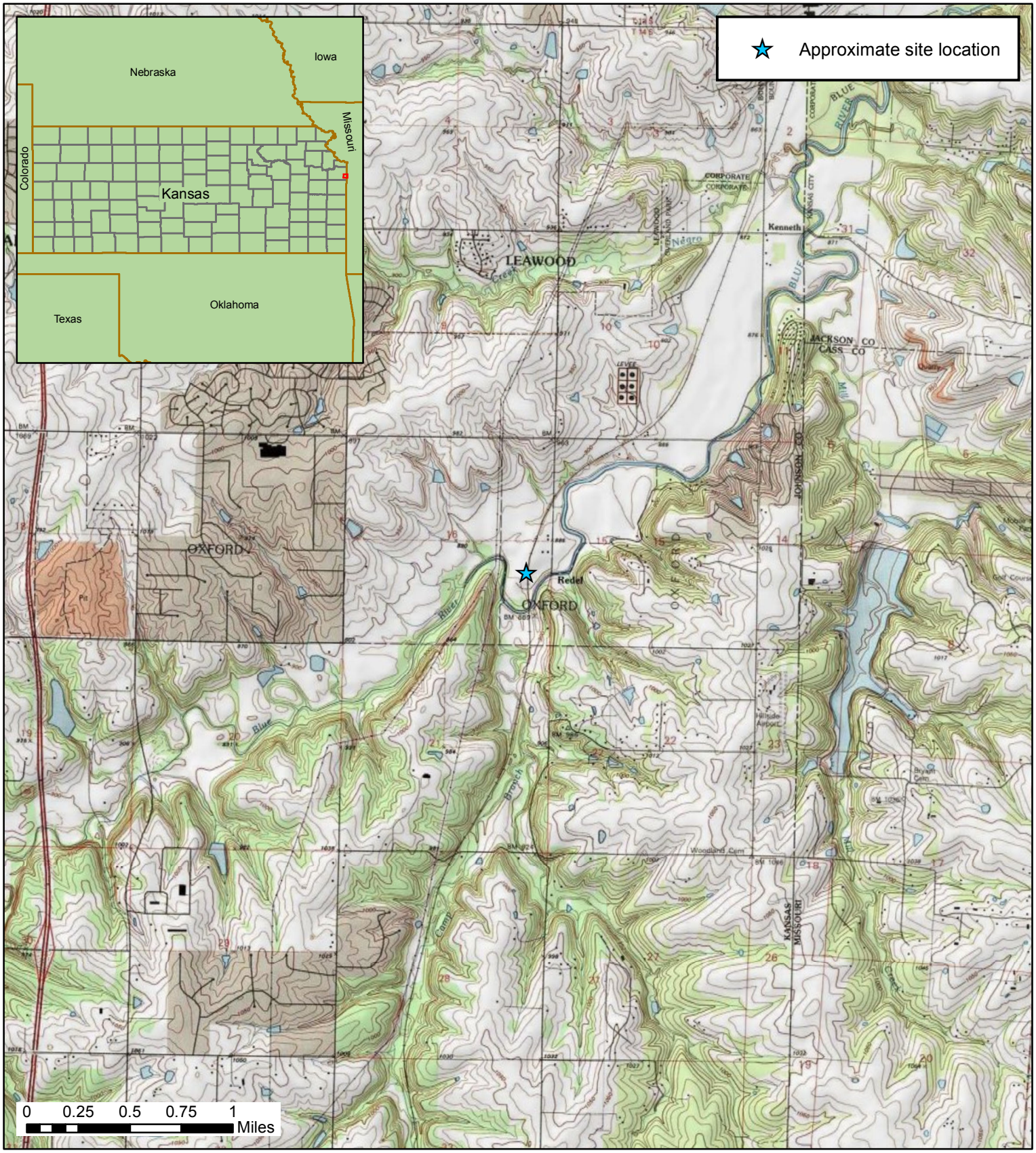

Figure 1
Site Location Map

Kuhlman Diecasting Site, Stanley, Kansas

Seagull Environmental Technologies, Inc.

N
W E
S

Source: U.S. Geological Survey

Date: September 2012

Project No: EPS70901.0035

Figure 2
Site Aerial Map

Kuhlman Diecasting Site, Stanley, Kansas

Seagull Environmental Technologies, Inc.

Source: ArcGIS Online, Bing Maps Aerial Imagery, 2011

Date: September 2012

Project No: EPS70901.0035

Figure 3
Soil and Groundwater Sample Location Map

Kuhlman Diecasting Site, Stanley, Kansas

N
W E
S

Seagull Environmental Technologies, Inc.

Source: ArcGIS Online, Bing Maps Aerial Imagery, 2011

Date: September 2012

Project No: EPS70901.0035

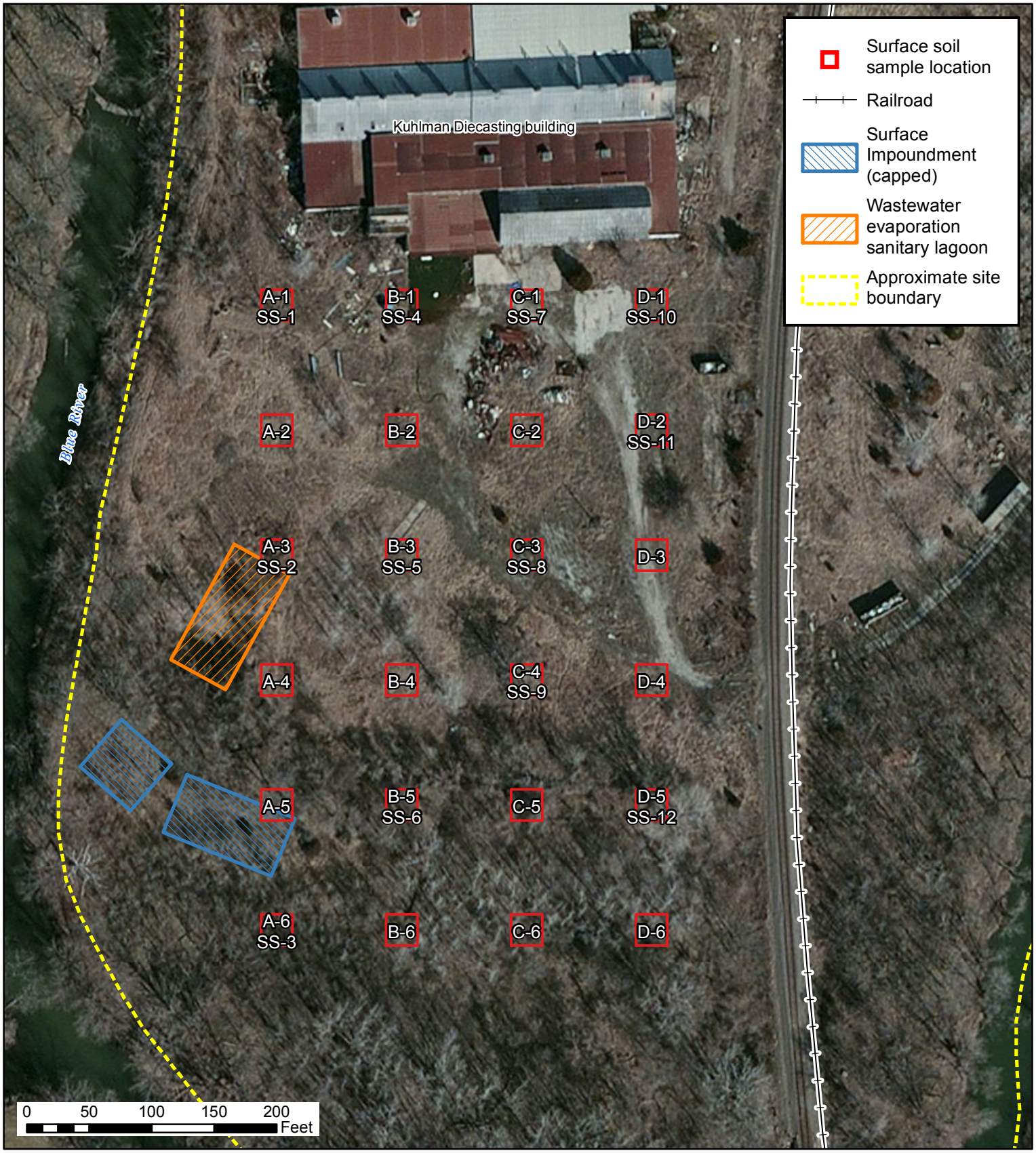

Figure 4
Surface Soil Sample Location Map

Kuhlman Diecasting Site, Stanley, Kansas

Seagull Environmental Technologies, Inc.

Source: ArcGIS Online, Bing Maps Aerial Imagery, 2011

Date: September 2012

Project No: EPS70901.0035

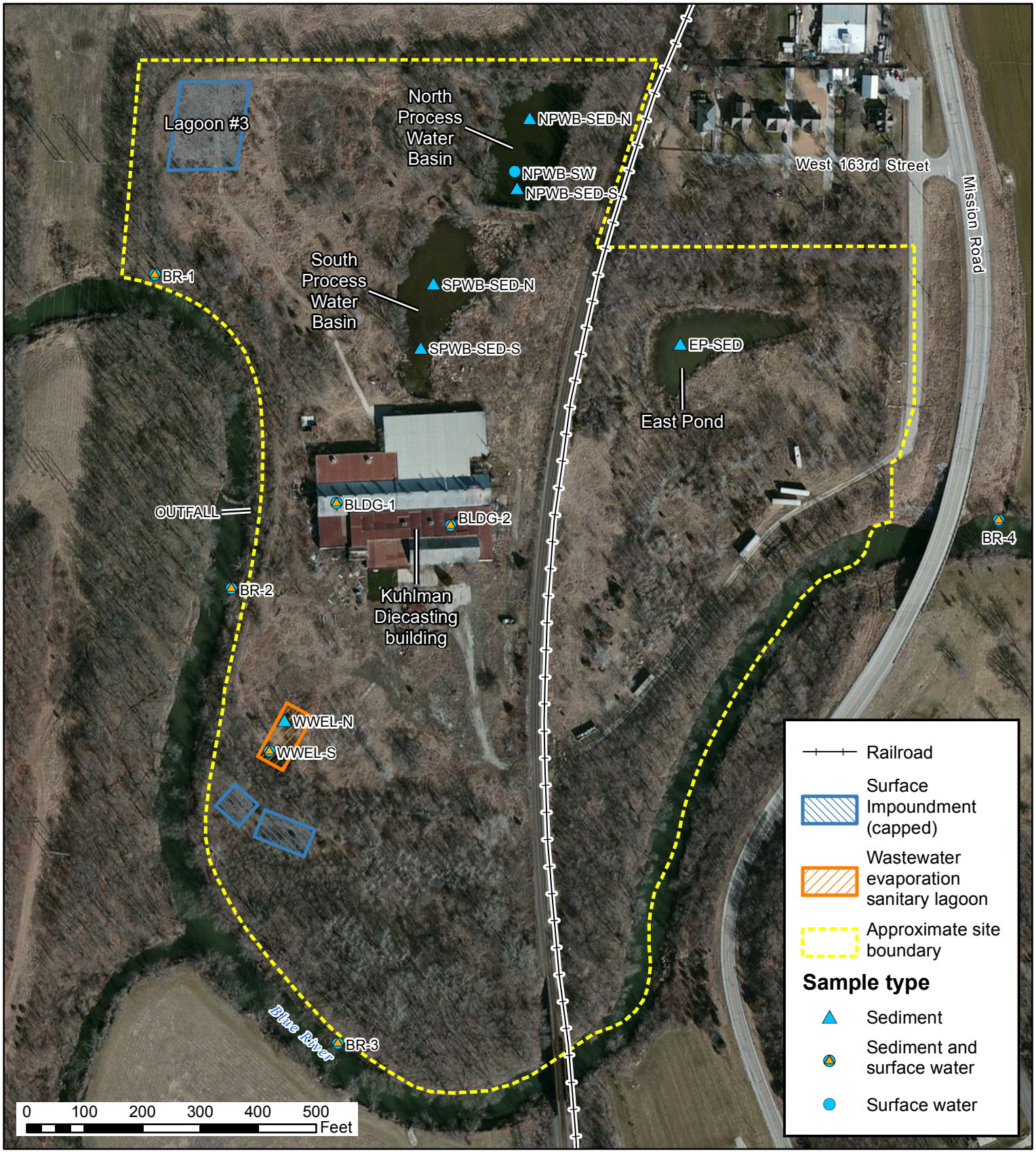

Figure 5
Sediment and Surface Water Sample Location Map

Kuhlman Diecasting Site, Stanley, Kansas

Seagull Environmental Technologies, Inc.

Source: ArcGIS Online, Bing Maps Aerial Imagery, 2011

Date: September 2012

Project No: EPS70901.0035

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION

Client: Environmental Protection Agency Region 7	Description: Photograph of Mini-Superfund Technical Assessment and Response Team (Mini-START) personnel conducting subsurface soil sampling activities using a Geoprobe® direct-push apparatus.	Photograph Number: 1
Direction: Southeast	Photographer: Todd Davis	Date: 07/17/2012

Client: Environmental Protection Agency Region 7	Description: Photograph of Mini-START personnel conducting sampling activities.	Photograph Number: 2
Direction: N/A	Photographer: Todd Davis	Date: 07/18/2012

Client: Environmental Protection Agency Region 7	Description: Photograph of Mini-START personnel conducting subsurface soil sampling activities using a Geoprobe® direct-push apparatus.	Photograph Number: 3
Direction: West	Photographer: Todd Davis	Date: 07/18/2012

Client: Environmental Protection Agency Region 7	Description: Photograph of Mini-START personnel using a hand auger to collect sediment samples from the Blue River.	Photograph Number: 4
Direction: North	Photographer: Joel Harvester	Date: 07/23/2012

Client: Environmental Protection Agency Region 7	Description: Photograph of Mini-START personnel collecting water samples from a permanent monitoring well located at the site.	Photograph Number: 5
Direction: West	Photographer: Joel Harvester	Date: 07/24/2012

Client: Environmental Protection Agency Region 7	Description: Photograph of Mini-START personnel conducting groundwater sampling activities.	Photograph Number: 6
Direction: North	Photographer: Cosmo Canacari	Date: 07/24/2012

Client: Environmental Protection Agency Region 7	Description: Photograph of the outfall for the former wastewater treatment system west of the building.	Photograph Number: 7
Direction: East	Photographer: Joel Harvester	Date: 07/26/2012

Client: Environmental Protection Agency Region 7	Description: Photograph of concrete debris along the Blue River just below the outfall of the former wastewater treatment system west of the building.	Photograph Number: 8
Direction: West	Photographer: Joel Harvester	Date: 07/26/2012

Client: Environmental Protection Agency Region 7	Description: Photograph of North Process Water Basin.	Photograph Number: 9
Direction: Northeast	Photographer: Joel Harvester	Date: 07/26/2012

Client: Environmental Protection Agency Region 7	Description: Photograph of South Process Water Basin.	Photograph Number: 10
Direction: South	Photographer: Joel Harvester	Date: 07/26/2012

Client: Environmental Protection Agency Region 7	Description: Photograph of Mini-START personnel collecting sediment samples from the basement of the site building.	Photograph Number: 11
Direction: NA	Photographer: Joel Harvester	Date: 07/27/2012

Client: Environmental Protection Agency Region 7	Description: Photograph of Mini-START personnel collecting sediment and water samples from the basement of the site building.	Photograph Number: 12
Direction: NA	Photographer: Cosmo Canacari	Date: 07/27/2012

APPENDIX C

SITE LOGBOOK

Rite in the Rain®
ALL-WEATHER
FIELD
№ 351

Kuhlman
Die Casting
Site

EPS 70901.0035

2

7-17-12 Page 1 Kuhlman Diecasting Site

Summary: Begin collecting site samples
weather: Sunny. high of ≈ 100°F

0830 Arrive on-site meet with
Seagull personnel Karacevi
0835 Depart site for Field Environmental
0900 Arrive Field Environmental to pick
up PID
0950 Arrive on-site, EPA OSC
John Frey arrives on site
1011 collect SB-1-25-27
for pertinent data see Field sheet
1205 collect SB-1-GW
see field sheet for pertinent data
1215-1245 Lunch
1432 - Collect SB-2-2.4
see field sheet for pertinent data
1455 - attempt sample collection at various
locations
1608 collect SB-3-16-18
see field sheets for pertinent data
1645 Leave site - End of day

7/17/12

7-18-12 Page 2 Kuhlman Diecasting Site

Summary: continue collecting geoprobe samples

Weather: Sunny. high of ≈ 105°F

0830 Arrive on site, begin Sample Prep
Seagull Personnel Dillon arrives on site
personnel present: Seagull Harvester,
Seagull Canacar, Seagull Dillon, and
EPA Frey.

1007 Collect SB-4-14-16
see field sheets for pertinent data

1042 collect SB-4-GW
see field sheets for pertinent data

1102 Collect SB-5-10-12
see field sheet for pertinent data
on-site personnel begine having
Problems w XRF

1200 collect SB-6-14-16
see field sheet for pertinent data
Sample collected from SB-6
contained staing consistent
w petroleum staining

1202 Collect SB-6-GW
see field sheet for pertinent data

7-18-12 Page 3 Kuhlman Diecasting Site

1230-1300 lunch

1400 - EPA Todd Davis arrives on-site

1423 - Collect SB-7-10-12
see field sheet for pertinent data

1507 - Collect SB-7-GW
see field sheet for pertinent data

1612 Collect SB-8-9-11
see field sheet for pertinent data

1648 Collect SB-9-12-14
see field sheet for pertinent data

1655 collect SB-9-GW
see field sheet for pertinent data
site personel decide to leave
track probe in same area
as SB-9 due to distance
to Entrance of site and in order
to efficiently start work on
7.19.12.

1750 Depart site. End of day

7/18/12

7-19-12

Summary? Continue collecting geoprobe samples
Weather Sunny High of ≈ 103°F
0820 - Arrive on site
site personnel: Seagull Canacari,
Seagull Harvester, and EPA Frey
0940 collect SB-10-12-14
See field sheets for pertinent data
1013 have issues with geoprobe
and with ground water collection
1025 Seagull Harvester begins setting
up grid for surface soil collection
1130 Geoprobe problems resolved
site personnel decide to collect
ground water at SB-11 instead of
SB-10
1150 collect SB-11-17-19
See field sheet for pertinent details
Collect SB-11-GW
see field sheet for pertinent details
1230-1300 Lunch
1310 collect soil from SB-12
1330 collect soil from SB-13
1352 collect SB-14-8-10
See field sheet for pertinent data

7-19-12 Page 5 Kuhlman Diecasting Site

1420 Collect soil from SB-15

1450 collect soil from SB-16

1510 Collect SB-17-10-12

See field sheet for pertinent data

1645 Depart site - End of Day

7-19-12

7-20-12 page 6 Kuhlman Diecasting site

Summary: Continue/Finish collecting geoprobe samples & Collect surface soil samples

weather: Sunny high of ≈ 100°F

0730 - Arrive on-site
site personnel: Seagull Cuacari and Seagull Harvester

0811 - Due to slow recharge rate filter was left in SB-17 overnight. Collect SB-17-GW
see field sheet for pertinent data

0900 EPA John Frey arrives on site

0908 Collect SB-18-12-14
see field sheets for pertinent data

0938 collect SB-19-6-8
see field sheets for pertinent data

1130 Collect Rinsate Blank

1140 collect Field Blank

1215-1245 Lunch

1300 - Begin collecting Surface soil samples

1330 Seagull Greg Dillon arrives on site

1515 Finish collecting Surface Soil

1545 Depart Site. End of Day

Rite in the Rain.

Joe [illegible] 7/30/12

7-24-12 Page 7 Kuhlman Die casting site

Summary: Collect water and sediment samples

weather: Sunny high of ≈ 102°F

1030 arrive on site

site personnel: Sengalla Guacari and Harvestr

1050 collect SPWB-SED-N

see field sheets for pertinent data

1105 collect SPWB-SED-S

1130 collect ~~BR~~1-SED*

collect BR-1-SW*

1150 collect BR-2-SED*

collect BR-2-SW*

1220 collect BR-3-SED*

collect BR-3-SW*

1250 collect BR-4-SED*

collect BR-4-SW*

1315-1345 Lunch

1430 collect NPWB-SW*

1440 collect NPWB-SED-N*

1450 collect NPWB-SED-S*

1522 collect WWEL-N-SED*

1534 collect WWEL-S-SW*

1540 collect WWEL-S-SED*

* See field sheets for pertinent data

7-24-12

Page 8 Kuhlman Diecasting site

1730 Depart Site. End at bar

7/24/12

7-25-12 Page 9 Kuhlman Diecasting site

Summary: Collect sediment from East pond
Collect groundwater from monitoring wells

Weather: Sunny high of ≈ 100°F

0900 - Arrive on site
on site personnel: Seagulls Concorsi & Harvester

0955 Collect EP-SED* No water collect only sediment

1200-1230 Lunch

1338 Collect GM-1*

1440 Collect sample from GM-2*

1538 Collect sample from GM-17*

1730 Depart site end of day

* See field sheets for pertinent data

7/25/12

7-26-12 Page 10 Kuhlman Diecasting Site

Summary: continue collecting monitoring well samples

weather: Sunny high of ≈ 100°F

0900 - Arrive on site
site personnel: Seagulls Harvester; Cuadra;

1020 Collect sample from GM-10*
1151 collect sample from GM-8*
1247 collect sample from GM-15*
1300-1330 Lunch
1440 collect sample from GM-13*
1529 collect sample from GM-12*
1630 Depart Site for lab, End of Day

* see field sheets for pertinent data

7-26-12

7/27/12 page 11 Kuhlman Diecasting site

Summary: finish collecting monitoring well samples
finish collecting surface water feed
samples. Close up site

weather: sunny high ≈ 95° F

0900 Arrive on site

on site personnel: Seagulls
Harvester i Lorance i

0958 collect Sample from GM-5*

1110 collect Sample from GM-7*

1130 - 1200 Lunch

1238 Collect BLDG-1-SED*

1248 collect BLDG-1-SW*

1323 Collect BLDG-2-SED*

1340 collect BLDG-2-SW*

1430 Depart site End of day

* see field sheets for pertinent data

7/27/12

APPENDIX D

BORING LOGS

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Site	**Boring No:**	SB-1
Project No:	EPS70901.0035	**Total Depth (ft):**	27.0'
Date:	7/17/2012	**Location:**	38.83069º N; 94.63113º W
Time:	10:11	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown, dry	
2		0.0			
3		0.0			
4		0.0		Limestone Silt with some limestone, brown	
5	4/4	0.0		Clay, dark brown	< 20 ppm Pb
6		0.0			
7		0.0			
8		0.0			
9	4/4	0.0		Silt with some limestone, brown	
10		0.0		Clay, dark brown	
11		0.0			
12		0.0			
13	4/4	0.0			
14		0.0		Silt with some limestone, brown	
15		0.0			
16		0.0			
17	4/4	0.0		Clay, brown, wet	< 17 ppm Pb
18		0.0			
19		0.0			
20		0.0			

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Site	**Boring No:**	SB-1
Project No:	EPS70901.0035	**Total Depth (ft):**	27.0'
Date:	7/17/2012	**Location:**	38.83069º N; 94.63113º W
Time:	10:11	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
21	4/4	0.0		Clay, brown, moist	ND
22		0.0			
23		0.0			
24		0.0			
25	3/4	0.0		Clay, brown, moist, stained	ND
26		0.0	SB-1-25-27	Clay with some limestone, brown	
27		0.0		bottom of boring	< 30 ppm Pb
28				TD = 27.0' bgs	
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Site	**Boring No:**	SB-2
Project No:	EPS70901.0035	**Total Depth (ft):**	20.0'
Date:	7/17/2012	**Location:**	38.83149º N; 94.63136º W
Time:	14:32	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown	< 33 ppm Pb
2		0.0			
3		0.0	SB-2-2-4		< 24 ppm Pb
4		0.0			
5	4/4	0.0		Silt with some clay, brown	ND
6		0.0			
7		0.0			
8		0.0			
9	4/4	0.0			ND
10		0.0			
11		0.0			
12		0.0			
13	3/4	0.0		Clay, brown	ND
14		0.0			
15				Silt, brown	
16		0.0			
17	4/4	0.0		Clay, brown	ND
18		0.0			
19		0.0			
20		0.0		TD = 20.0' bgs	

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Site	**Boring No:**	SB-3
Project No:	EPS70901.0035	**Total Depth (ft):**	20.0'
Date:	7/17/2012	**Location:**	38.82963º N; 94.63222º W
Time:	16:08	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown	< 31 ppm Pb
2		0.0			
3		0.0			< 35 ppm Pb
4		0.0			
5	4/4	0.0			ND
6		0.0			
7		0.0		Clay, brown	< 21 ppm Pb
8		0.0			
9	4/4	0.0		Clay, brown	< 15 ppm Pb
10		0.0			
11		0.0			< 18 ppm Pb
12		0.0			
13	4/4	0.0		Clay with some silt, brown	
14		0.0			ND
15		0.0			
16		0.0			
17	4/4	0.0	SB-3-16-18	Clay, brown	< 21 ppm Pb
18		0.0			
19		0.0			ND
20		0.0		TD = 20.0' bgs	

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Site	**Boring No:**	SB-4
Project No:	EPS70901.0035	**Total Depth (ft):**	20.0'
Date:	7/18/2012	**Location:**	38.83130º N; 94.63217º W
Time:	10:07	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown	ND
2		0.0			
3		0.0			
4		0.0			
5	4/4	0.0			ND
6		0.0			
7		0.0			
8		0.0			
9	4/4	0.0		Clay, brown	ND
10		0.0			
11		0.0			
12		0.0			
13	4/4	0.0			< 18 ppm Pb
14		0.0			
15		0.0	SB-4-14-16		< 18 ppm Pb
16		0.0			
17	4/4	0.0			< 18 ppm Pb
18		0.0			
19		0.0			ND
20		0.0		TD = 20.0' bgs	

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Site	**Boring No:**	SB-5
Project No:	EPS70901.0035	**Total Depth (ft):**	20.0'
Date:	7/18/2012	**Location:**	38.83200º N; 94.63198º W
Time:	11:02	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, light brown	ND
2		0.0			
3		0.0		Silt, brown	< 17 ppm Pb
4		0.0			
5	4/4	0.0			< 17 ppm Pb
6		0.0			
7		0.0		Clay, brown	ND
8		0.0			
9	4/4	0.0			ND
10		0.0			
11		0.0	SB-5-10-12		< 21 ppm Pb
12		0.0			
13	4/4	0.0			ND
14		0.0			
15		0.0			
16		0.0		Clay, dark brown	
17	4/4	0.0			< 21 ppm Pb
18		0.0			
19		0.0		Clay, brown	ND
20		0.0		TD = 20.0' bgs	

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Site	**Boring No:**	SB-6
Project No:	EPS70901.0035	**Total Depth (ft):**	20.0'
Date:	7/18/2012	**Location:**	38.83063º N; 94.63227º W
Time:	12:00	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown	< 65 ppm Pb
2		0.0			
3		0.0			< 24 ppm Pb
4		0.0			
5	4/4	0.0		Silt with some clay, brown	ND
6		0.0			
7		0.0			
8		0.0		Clay with some silt, brown	
9	4/4	0.0			< 19 ppm Pb
10		0.0			
11		114 ppm		Clay, green and gray, stained, petroleum odor	ND
12		69.8 ppm			
13	4/4	4 ppm		Clay with some silt, brown	ND
14		18 ppm			
15		218 ppm	SB-6-14-16		
16		266 ppm			
17	4/4	5 ppm		Clay, green and gray, stained, petroleum odor	< 16 ppm Pb
18		8 ppm			
19		8 ppm			ND
20		13.6 ppm		TD = 20.0' bgs	

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Site	**Boring No:**	SB-7
Project No:	EPS70901.0035	**Total Depth (ft):**	20.0'
Date:	7/18/2012	**Location:**	38.82938º N; 94.63461º W
Time:	14:42	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown, dry	< 21 ppm Pb
2		0.0			
3		0.0			< 21 ppm Pb
4		0.0			
5	4/4	0.0			ND
6		0.0			
7		0.0			
8		0.0			
9	4/4	0.0			ND
10		0.0			
11		160 ppm	SB-7-10-12		< 24 ppm Pb
12		119 ppm			
13	4/4	4 ppm		Clay, gray, stained with petroleum odor	ND
14		3 ppm			
15		2 ppm			
16		2 ppm			
17	4/4	0.0		Clay, gray	ND
18		0.0			
19		0.0			
20		0.0		TD = 20.0' bgs	

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Site	**Boring No:**	SB-8
Project No:	EPS70901.0035	**Total Depth (ft):**	20.0'
Date:	7/18/2012	**Location:**	38.82922º N; 94.63435º W
Time:	16:12	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown	ND
2		0.0			
3		0.0			
4		0.0			
5	4/4	0.0		Clay with some silt, brown	ND
6		0.0			
7		0.0		Clay with some silt, gray	
8		0.0			
9	4/4	0.0		Clay with some silt, brown, some staining	ND
10		0.0	SB-8-9-11		
11		3 ppm			
12		2 ppm			
13	4/4	0.0		Clay, brown	ND
14		0.0			
15		0.0		Clay, brown with some gray	
16		0.0			
17	4/4	0.0		Clay, brown	ND
18		0.0			
19		0.0			
20		0.0		TD = 20.0' bgs	

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Site	**Boring No:**	SB-9
Project No:	EPS70901.0035	**Total Depth (ft):**	20.0'
Date:	7/18/2012	**Location:**	38.82915º N; 94.63409º W
Time:	16:48	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown	ND
2		0.0			
3		0.0			
4		0.0			
5	4/4	0.0		Clay with some silt, brown	ND
6		0.0			
7		0.0			
8		0.0			
9	4/4	0.0			ND
10		0.0			
11		0.0			
12		4.1 ppm			
13	4/4	3.9 ppm	SB-9-12-14	Clay, dark brown to black	ND
14		3.7 ppm			
15		3.1 ppm			
16		3.1 ppm			
17	4/4	0.0		Clay, dark brown with some gray	ND
18		0.0			
19		0.0			
20		0.0		TD = 20.0' bgs	

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Company Site	**Boring No:**	SB-10
Project No:	EPS70901.0035	**Total Depth (ft):**	20.0'
Date:	7/19/2012	**Location:**	38.82963º N; 94.63445º W
Time:	9:40	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown, dry	< 16 ppm Pb
2		0.0			
3		0.0			ND
4		0.0			
5	4/4	0.0			ND
6		0.0			
7		0.0			
8		0.0			
9	4/4	0.0		Clay with silt, brown	ND
10		0.0			
11		0.0			
12		0.0			
13	4/4	0.0	SB-10-12-14	Clay, brown	< 21 ppm Pb
14		0.0			
15		0.0			ND
16		0.0			
17	4/4	0.0			ND
18		0.0			
19		0.0			
20		0.0		Clay, gray TD = 20.0' bgs	

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Company Site	**Boring No:**	SB-11
Project No:	EPS70901.0035	**Total Depth (ft):**	20.0'
Date:	7/19/2012	**Location:**	38.82952º N; 94.63407º W
Time:	11:50	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Gravel/fill	ND
2		0.0		Silt, brown	
3		0.0			
4		0.0			
5	4/4	0.0		Clay, brown	ND
6		0.0			
7		0.0			
8		0.0			
9	4/4	0.0			< 31 ppm Pb
10		0.0			
11		0.0			ND
12		0.0			
13	4/4	0.0			ND
14		0.0			
15		0.0			
16		0.0			
17	4/4	0.0			ND
18		64.0	SB-11-17-19	Clay, gray	
19		14.1			
20		1.2		TD = 20.0' bgs	

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Company Site	**Boring No:**	SB-12
Project No:	EPS70901.0035	**Total Depth (ft):**	12.0'
Date:	7/19/2012	**Location:**	38.82942º N; 94.63355º W
Time:	13:10	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown	< 165 ppm Pb
2		0.0			
3		0.0			ND
4		0.0			
5	4/4	0.0		Silt with clay, brown	< 35 ppm Pb
6		0.0			
7		0.0			< 17 ppm Pb
8		0.0			
9	4/4	0.0		Clay, brown	ND
10		0.0			
11		0.0			
12		0.0		TD = 12.0' bgs	
13					
14					
15					
16					
17					
18					
19					
20					

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Company Site	**Boring No:**	SB-13
Project No:	EPS70901.0035	**Total Depth (ft):**	12.0'
Date:	7/19/2012	**Location:**	38.82945º N; 94.63301º W
Time:	13:30	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Gravel	< 29 ppm Pb
2		0.0		Silt with gravel, brown	
3		0.0			ND
4		0.0			
5	4/4	0.0		Clay with silt, brown	ND
6		0.0			
7		0.0			
8		0.0			
9	4/4	0.0		Clay, brown	< 25 ppm Pb
10		0.0			
11		0.0			ND
12		0.0		TD = 12.0' bgs	
13					
14					
15					
16					
17					
18					
19					
20					

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Company Site	**Boring No:**	SB-14
Project No:	EPS70901.0035	**Total Depth (ft):**	12.0'
Date:	7/19/2012	**Location:**	38.82973º N; 94.63304º W
Time:	13:52	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Gravel and asphalt fill	< 32 ppm Pb
2		0.0			
3		0.0		Clay with silt, brown	< 20 ppm Pb
4		0.0			
5	4/4	0.0			< 16 ppm Pb
6		0.0			
7		0.0		Clay, brown	< 21 ppm Pb
8		0.0			
9	4/4	0.0	SB-14-8-10	Silt with sand, gray	< 55 ppm Pb
10		0.0			
11		0.0		Clay, reddish brown	< 18 ppm Pb
12		0.0		TD = 12.0' bgs	
13					
14					
15					
16					
17					
18					
19					
20					

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Company Site	**Boring No:**	SB-15
Project No:	EPS70901.0035	**Total Depth (ft):**	12.0'
Date:	7/19/2012	**Location:**	38.82974º N; 94.63346º W
Time:	14:20	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown	< 33 ppm Pb
2		0.0			
3		0.0			< 29 ppm Pb
4		0.0			
5	4/4	0.0		Silt with sand	< 34 ppm Pb
6		0.0		Silt, brown	
7		0.0		Clay, reddish brown	< 16 ppm Pb
8		0.0			
9	4/4	0.0		Silt with clay, some sand, light brown	< 29 ppm Pb
10		0.0		Clay, reddish brown	
11		0.0			< 21 ppm Pb
12		0.0		TD = 12.0' bgs	
13					
14					
15					
16					
17					
18					
19					
20					

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Company Site	**Boring No:**	SB-16
Project No:	EPS70901.0035	**Total Depth (ft):**	12.0'
Date:	7/19/2012	**Location:**	38.83002º N; 94.63305º W
Time:	14:50	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Gravel and asphalt with some silt	ND
2		0.0			
3		0.0		Silt, brown	
4		0.0			
5	4/4	0.0		Gravel and asphalt with some silt	ND
6		0.0			
7		0.0		Clay, reddish brown	
8		0.0			
9	4/4	0.0		Clay with silt, brown	ND
10		0.0			
11		0.0		Clay, reddish brown	
12		0.0		TD = 12.0' bgs	
13					
14					
15					
16					
17					
18					
19					
20					

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Company Site	**Boring No:**	SB-17
Project No:	EPS70901.0035	**Total Depth (ft):**	12.0'
Date:	7/19/2012	**Location:**	38.83000º N; 94.63336º W
Time:	15:10	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown	ND
2		0.0			
3		0.0			
4		0.0			
5	4/4	0.0		Clay with silt, brown	ND
6		0.0		Clay, brown	
7		0.0			
8		0.0			
9	4/4	0.0		Clay with silt, brown	ND
10		0.0		Clay, brown	
11		0.0	SB-17-10-12		
12		0.0		TD = 12.0' bgs	
13					
14					
15					
16					
17					
18					
19					
20					

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Company Site	**Boring No:**	SB-18
Project No:	EPS70901.0035	**Total Depth (ft):**	16.0'
Date:	7/20/2012	**Location:**	38.83175º N; 94.63412º W
Time:	9:08	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown	< 27 ppm Pb
2		0.0		Silt with clay, brown	
3		0.0		Clay, brown	ND
4		0.0			
5	4/4	0.0			< 17 ppm Pb
6		0.0			
7		0.0			ND
8		0.0			
9	4/4	0.0			ND
10		0.0			
11		0.0			< 17 ppm Pb
12		0.0			
13		0.0	SB-18-12-14		< 28 ppm Pb
14		0.0		Clay, brown, wet	
15		0.0			Groundwater encountered at 16.0' bgs
16		0.0		TD = 16.0' bgs	
17					
18					
19					
20					

Seagull Environmental Technologies, Inc.

Project:	Kuhlman Diecasting Company Site	**Boring No:**	SB-19
Project No:	EPS70901.0035	**Total Depth (ft):**	20.0'
Date:	7/20/2012	**Location:**	38.83242º N; 94.63383º W
Time:	9:38	**Drilling Method:**	Truck-mounted direct-push Geoprobe
Logged by:	Joel Harvester	**Sampling Method:**	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4/4	0.0		Silt, brown	ND
2		0.0			
3		0.0			< 23 ppm Pb
4		0.0		Silt with clay, brown	
5	4/4	0.0			< 20 ppm Pb
6		0.0			
7		0.0	SB-19-6-8	Clay, brown	ND
8		0.0			
9	4/4	0.0			ND
10		0.0			
11		0.0			
12		0.0			
13	4/4	0.0		Clay, brown, wet	ND
14		0.0			
15		0.0			
16		0.0			
17	4/4	0.0			ND
18		0.0			
19		0.0			
20		0.0		TD = 20.0' bgs	

APPENDIX E

FIELD SHEETS

Sample Collection Field Sheet

US EPA Region 7

KDC-~~SB-1~~

Matrix: Soil

Sample Number: KDC-SB-1 JH SB-1-25-27

Project ID: EPS200901.0035

Project Manager: J. Pritchard

Location: Stanley

State: KS

Location Description: SB-1

External Sample Number: SB-1-25-27

Latitude:

Longitude:

Sample Collection: 7/17/2012 10:11

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar	None		OA2/PA17
4oz jar	None		Priority metals
2-40ml vial	None		
2-40ml vial	bisulfate		5035/OA1
1-40ml vial	MeOH		

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

KDC

Matrix: H_2O

Sample Number: SB-1-GW ~~KDC~~

Project ID: EPS 70901-0035

Project Manager: J Pritchard

Location: ~~SB~~ Stanley

State: Kansas

Location Description: SB-1

External Sample Number: SB-1-GW

Latitude:

Longitude:

Sample Collection: 7/17/2012 12:05

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2x 100mL Amber	None		OA2/DRO
100mL Amber	None		PAH
2x 250mL poly	HNO_3		Priority metals (Total & Dissolved
3x 40mL vials	HCl		VOCs/OA1

Property Owner Information:

Sample Comments:

GW - 24 to 27

Sample Location Map:

Sample collected by: JHawcester

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: Soil

Sample Number: SB-2-2-4

Project ID: EPS70901.0035

Project Manager: J. Pritchard

Location: Stanley

State: Kansas

Location Description: SB-2

External Sample Number: SB-2-2-4

Latitude:

Longitude:

Sample Collection: 7/17/2012 14:32

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar	None		OA2/PAH
4oz jar	None		Priority metals
2x 40mL vial	None		
2x 40mL vial	bisulfate		5035/OA1
1x 40mL vial	MeOH		

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: J Harvester

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecast Site

Matrix: Soil

Sample Number: SB-3-16-18

Project ID: EPS 70901.0035

Project Manager: J. Pritchard

Location: Stanley

State: Kansas

Location Description: SB-3

External Sample Number: SB-3-16-18

Latitude:

Longitude:

Sample Collection: 7/17/2012 ~~[illegible]~~ 1608

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz Jar	None		OA2/PAH
4oz Jar	None		Priority metals
2x 40mL vial	None		
2x 40mL vial	Bisulfate		
1x 40mL vial	MeOH		5035/OA1

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: Joel Haverty

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecast Site

Matrix: Water

Sample Number: SB-3-GW

Project ID: EPS70901.0035

Project Manager: J. Pitchford

Location: Stanley

State: Kansas

Location Description: SB-3

External Sample Number: SB-3-GW

Latitude:

Longitude:

Sample Collection: 7/17/2012 16:17

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2x100 mL Amber	None		OA2/DRO
100 mL Amber	None		PAH
2x 250ml Poly	HNO_3		Priority metals (Total & Dissolved)
3x 40ml vial	HCl		VOCs /OA1

Property Owner Information:

Sample Comments:

Groundwater found @ 20-24 ft bgs

Sample Location Map:

Sample collected by: J Harvester

Sample Collection Field Sheet
US EPA Region 7

Kuhlmann Diecasting Site

Matrix: Soil

Sample Number: SB-4-14-16

Project ID: EPS 70901.0035

Project Manager: J Pritchard

Location: Stanley

State: KS

Location Description: SB-4

External Sample Number: SB-4-14-16

Latitude:

Longitude:

Sample Collection: 7/18/12 10:07

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar	None		OA2/PAH
4oz jar	None		Priority metals
2-40mL vial	None		
2-40mL vial	bisulfate		5035/OA1
1-40mL vial	~~NaOH~~ MeOH		

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: J Hornecker

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecast Site

Matrix: Soil

Sample Number: ~~SB-4~~ 1# SB-5-10-12

Project ID: EPS 70901.0035

Project Manager: J Pritchard

Location: Stanley

State: KS

Location Description: ~~SB-4~~ SB-5

External Sample Number: ~~SB-4~~ SB-5-10-12

Latitude:

Longitude:

Sample Collection: 7/18/12 11:02

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar	None		OA 2/PAH
4oz jar	None		Priority metals
2-40mL vial	None		
2-40mL vial	bisulfate		5035/OA1
1-40mL vial	MeOH		

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: G. Dillon

Sample Collection Field Sheet
US EPA Region 7

Kuhlmann Diecast

Matrix: Ground water

Sample Number: SB-5-GW

Project ID: EPS 70901.0035

Project Manager: J. Pritchard

Location: Stanley

State: KS

Location Description: ~~SB-4~~ SB-5-~~[illegible]~~

External Sample Number: SB-5-GW SB-5-GW

Latitude:

Longitude:

Sample Collection: 7/18/12 10:42

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-100mL Amber	None		OA2/DRO
100mL Amber	None		PAH
2-250 mL poly	HNO_3		Priority metals (Total & Dissolved)
3-40 mL vials	HCL		VOCs/OA1

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: J Harvey

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SB-Lo-14-16

Project ID: EPS70901.0035

Location: Stanley

Project Manager: Jeff Pritchard

State: Kansas

Location Description: SB-Lo

External Sample Number: SB-Lo-14-16

Latitude:

Longitude:

Sample Collection: 7/18/12 12:00

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			VOCs
			PAHs
			OA-1
			OA-2
			PP Metals

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: H_2O

Sample Number: SB-6-GW

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SB-6

External Sample Number: SB-6-GW

Latitude:

Longitude:

Sample Collection: 7/18/12 12:02

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-100ml Amber	None		OA2/DRO
100ml Amber	None		PAHs
2-250mL poly	HNO_3		priority metals (Total & Dissolved
3-40mL vial	HCl		VOCs/~~A~~ A1

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: Soil

Sample Number: SB-7-10-12

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SB-7

External Sample Number: SB-7-10-12

Latitude:

Longitude:

Sample Collection: 7/18/12 14:42

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
40oz jar	None		OA2/PAH
40oz jar	None		priority metals
2-40mL VOA	None		
2-40mL VOA	bisulfate		5035/OA1
1-40mL VOA	MeOH		

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: H_2O **Sample Number:** SB-7-GW

Project ID: EPS70901.0035 **Project Manager:** Jeff Pritchard

Location: Stanley **State:** Kansas

Location Description: SB-7

External Sample Number: SB-7-GW

Latitude: _____ **Sample Collection:** 7/18/12 15:07

Longitude: _____

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-100ml amber	None		OA2/DRO
100ml amber	None		PAH
2-250ml poly	HNO_3		Priority metals (Total & Dissolved)
3-40mL vials	HCl		VOCs/OA1

Property Owner Information:

Sample Comments:

JH

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet

US EPA Region 7

Kuhlman Diecasting Site

Matrix: Soil

Sample Number: SB-8-9-11

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SB-8

External Sample Number: SB-8-9-11

Latitude:

Longitude:

Sample Collection: 7/18/12 16:12

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar	None		OA2/PAH
4oz jar	None		Priority metals
2-40ml voa	None		
2-40ml voa	bisulfate		5035/OA1
1-40ml voa	MeOH		

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: Soil

Sample Number: SB-9-12-14

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SB-9

External Sample Number: SB-9-12-14

Latitude:

Longitude:

Sample Collection: 7/18/12 16:48

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz Jar	None		OA 2/PAH
4oz Jar	None		priority metals
2-40mL voa	None		
2-40mL voa	bisulfate		5035/OAL
1-4oml vial	MeOH		

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: H_2O **Sample Number:** SB-9-GW

Project ID: EPS70901.0035 **Project Manager:** Jeff Pritchard

Location: Stanley **State:** Kansas

Location Description: SB-9

External Sample Number: SB-9-GW

Latitude: _____ **Sample Collection:** 7/18/12 16:55

Longitude: _____

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-100mL Amber	None		OA2/DRO
1 100mL Amber	None		PAH
2-250mL Poly	HNO_3		Priority metals (Total & Dissolved)
3-40mL vials	HCl		VOCs/OA1

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: C Canatari

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: Soil

Sample Number: SB-10-12-14

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SB-10

External Sample Number: SB-10-12-14

Latitude:

Longitude:

Sample Collection: 7/17/12 09:40

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar	None		OA2/PAH
4oz jar	None		Priority metals
2-40ml VOA	None		5035/OA1
2-40ml VOA	bisulfite		
1-40ml VOA	MeOH		

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JHauvestw

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: Soil

Sample Number: SB-11-17-19

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SB-11

External Sample Number: SB-11-17-19

Latitude:

Longitude:

Sample Collection: 7/19/12 11:50

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar	None		OA2/PAH
4oz jar	None		Priority metals
2-40ml VOA	None		5035/OA1
2-40ml VOA	bisulfate		
1-40ml VOA	MeOH		

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: Water

Sample Number: SB-11-GW

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SB-11

External Sample Number: SB-11-GW

Latitude:

Longitude:

Sample Collection: 7/19/12 11:50

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-100ml Amber	None		OA2/DRO
100ml amber	None		PAH
2-250ml poly	HNO_3		Priority metals (Total & Dissolved)
3-40ml vial	HCl		VOCs/OA1

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: C. Lanawi

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: Soil

Sample Number: SB-14-8-10

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SB-14

External Sample Number: SB-14-8-10

Latitude:

Longitude:

Sample Collection: 7/19/12 13:52

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar	None		OA 2/PAH
4oz jar	None		Priority metals
2-40ml vial	None		5035/OA1
2-40ml vial	bisulfate		
1-40ml vial	MeOH		

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: Soil

Sample Number: SB-17-10-12

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SB-17

External Sample Number: SB-17-10-12

Latitude:

Longitude:

Sample Collection: 7/19/12 15:10

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz Jar	None		OA2/PAH
4oz Jar	None		Priority metals
2-40ml vial	None		
2-40ml vial	bisulfate		5035 /OA1
1-40ml vial	MeOH		

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: H_2O

Sample Number: SB-17-GW

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SB-17

External Sample Number: SB-17-GW

Latitude:

Longitude:

Sample Collection: 7/20/2012 08:11

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-100 ml amber	None		OA2/PRO
100 ml amber	None		PAH
2-250 ml poly	HNO_3		Priority metals (Total & Dissolved
3-40 ml vials	HCl		VOCs/OA1

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: J Harvester

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SB-18-12-14

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SB-18

External Sample Number: SB-18-12-14

Latitude:

Longitude:

Sample Collection: 7/20/12 09:08

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4 oz jar	None		OA 2/PAH
4 oz jar	None		Priority metals
2-40 ml voa	None		
2-40 ml voa	bisulfate		5035/OA1
1-40 ml voa	MeOH		

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: Soil

Sample Number: SB-19-6-8

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SB-19-~~[illegible]~~

External Sample Number: SB-19-6-8

Latitude:

Longitude:

Sample Collection: 7/20/12 09:38

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar	None		CA 2/PAH
4oz jar	None		Priority metals
2-40 ml vial	None		
2-40 ml vial	bisulfate		5035 /DA1
1-40 ml vial	MeOH		

Property Owner Information:

4

Sample Comments:

Sample Location Map:

Sample collected by: J Hawsester

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: H_2O

Sample Number: Equipment Rinsate ~~Equipment Rinsate~~

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: –

External Sample Number: * ER-1

Latitude:

Longitude:

Sample Collection: 7/20/12 ~~09:38~~ 1130

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			VOCs, PAHs, DA-1, DA-2, Priority metals (total), Hexavalent Chromium

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JHarvest

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: H2O

Sample Number: Field Blank

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: –

External Sample Number: FB-1

Latitude:

Longitude:

Sample Collection: 7/20/12 11:40

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			VOCs PAHs OA-1 OA-2 ~~Total priority metals~~ Hexavalent Chromium

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: J Harvester

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SS-1

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: ~~SS-1~~ JH A-1

External Sample Number: SS-1

Latitude:

Longitude:

Sample Collection: 7/24/12 09:12

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar			Cr, Cu, Ni, Zn
4oz jar			Hexavalent Chromium

Property Owner Information:

Sample Comments:

SS-1 = A-1

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SS-2

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: A-3

External Sample Number: SS-2

Latitude:

Longitude:

Sample Collection: 7/24/12 09:13

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz Jar			Cr, Cu, Ni, Zn
4oz Jar			Hexavalent Chrome

Property Owner Information:

Sample Comments:

JH SS-2 = A-3

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SS-3

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: A-6

External Sample Number: SS-3

Latitude:

Longitude:

Sample Collection: 7/24/12 09:15

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar			Cr, Cu, Ni, Zn
4oz jar			Hexavalent Chromium

Property Owner Information:

Sample Comments:

SS-3 = A-6

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SS-4

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: B-1

External Sample Number: SS-4

Latitude:

Longitude:

Sample Collection: 7/24/12 09:18

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz Jar			Cr, Cu, Ni, Zn
4oz jar			Hexavalent Chromium

Property Owner Information:

Sample Comments:

SS-4 = B-1

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SS-5

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: B-3

External Sample Number: SS-5

Latitude:

Longitude:

Sample Collection: 7/24/12 09:19

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar			Cr, Cu, Ni, Zn
4oz jar			Hexavent Chromium

Property Owner Information:

Sample Comments:

SS-5 = B-3

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: WWEL-S-SED

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: WWEL-S-Sed

External Sample Number: WWEL-S-Sed

Latitude:

Longitude:

Sample Collection: 7/24/12 15:40

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn PCBs, Cyanide Cr VI

Property Owner Information:

Sample Comments:

Waste
water
Evap
Lagoon
South

Sample Location Map:

Sample collected by: CC

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: water

Sample Number: WWEL-S-SW

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: WWEL-S

External Sample Number: WWEL-S-SW

Latitude:

Longitude:

Sample Collection: 7/24/12 15:34

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn cyanide, PCBs Cr VI

Property Owner Information:

Sample Comments:

Waste water Evaporation Lagoon South

Sample Location Map:

Sample collected by: CL

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: BR-1-SED

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: BR-1

External Sample Number: BR-1-SED

Latitude:

Longitude:

Sample Collection: 7/24/1 11:30

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn

Property Owner Information:

Sample Comments:

Blue River

Sample Location Map:

Sample collected by: CC

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SS-6

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: B-5

External Sample Number: SS-6

Latitude:

Longitude:

Sample Collection: 7/24/02 09:21

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4 oz jar			Cr, Cu, Ni, Zn
4 oz jar			Hexavalent Chromium

Property Owner Information:

Sample Comments:

SS-6 = B-5

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SS-7

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: C-1

External Sample Number: SS-7

Latitude:

Longitude:

Sample Collection: ~~24~~/ / 7 24 12 : 09 22

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar			Cr, Cu, Zn, Ni
4oz jar			Hexavalent Chromium

Property Owner Information:

Sample Comments:

SS-7 = C-1

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SS-8

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: C-3

External Sample Number: SS-8

Latitude:

Longitude:

Sample Collection: 7/24/12 09:25

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar			Cr, Cu, Ni, Zn
4oz jar			Hexavalent Chromium

Property Owner Information:

Sample Comments:

SS-8 = C-3

Sample Location Map:

Sample collected by: JA

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SS-9

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: C-4

External Sample Number: SS-9

Latitude:

Longitude:

Sample Collection: 7/24/12 09:27

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4 oz jar			Cr, Cu, Ni, Zn
4 oz jar			Hexavalent Chromium

Property Owner Information:

Sample Comments:

SS-9 = C-4

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SS-10

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: D-1

External Sample Number: SS-10

Latitude:

Longitude:

Sample Collection: 7/24/12 09:28

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar			Cr, Cu, Ni, Zn
4oz jar			Hexavalent Chromium

Property Owner Information:

Sample Comments:

SS-10 = D-1

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SS-11

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: D-2

External Sample Number: SS-11

Latitude:

Longitude:

Sample Collection: 7/24/12 09:30

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar			Cr, Cu, Ni, Zn
4oz jar			Hexavalent Chromium

Property Owner Information:

Sample Comments:

SS-11 = D-2

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SS-12

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: D-5

External Sample Number: SS-12

Latitude:

Longitude:

Sample Collection: 7/24/12 09:32

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
4oz jar			Cu, Cr, Ni, Zn
4oz jar			Hexavalent Chromium

Property Owner Information:

Sample Comments:

SS-12 = D-5

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: WWEL-N-SED

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: WWEL-N

External Sample Number: WWEL-N-SED

Latitude:

Longitude:

Sample Collection: 7/24/12 15:22

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn PCBs, Cyanide Cr VI

Property Owner Information:

Sample Comments:

Waste water Evaporation Lagoon North

No Surface water available

Sample Location Map:

Sample collected by: CC

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Water

Sample Number: BR-1-SW

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: BR-1

External Sample Number: BR-1-SW

Latitude:

Longitude:

Sample Collection: 7/24/12 11:30

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn

Property Owner Information:

Sample Comments:

Blue River

Sample Location Map:

Sample collected by: CL

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: BR-2-SED

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: BR-2

External Sample Number: BR-2-SED

Latitude:

Longitude:

Sample Collection: 7/24/12 11:50

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn

Property Owner Information:

Sample Comments:

Blue River

Sample Location Map:

Sample collected by: LC

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Water

Sample Number: BR-2-SW

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: BR-2

External Sample Number: BR-2-SW

Latitude:

Longitude:

Sample Collection: 7/24/12 11:50

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn

Property Owner Information:

Sample Comments:

Blue River

Sample Location Map:

Sample collected by: LL

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: BR-3-SED

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: BR-3

External Sample Number: BR-3-SED

Latitude:

Longitude:

Sample Collection: 7/24/12 12:20

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr Cu Ni Zn

Property Owner Information:

Sample Comments:

Blue River

Sample Location Map:

Sample collected by: LC

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Water

Sample Number: BR-3-SW

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: BR-3

External Sample Number: ~~BR-3~~ BR-3-SW

Latitude:

Longitude:

Sample Collection: 7/24/ 12:20

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn

Property Owner Information:

Sample Comments:

Blue River

Sample Location Map:

Sample collected by: AL

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: water

Sample Number: BR-4-SW

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: BR-4

External Sample Number: BR-4-SW

Latitude:

Longitude:

Sample Collection: 7/24/12 12:50

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn

Property Owner Information:

Sample Comments:

Blue River

Sample Location Map:

Sample collected by: CL

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: BR-4-Sed

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: BR-4

External Sample Number: BR-4-SED

Latitude:

Longitude:

Sample Collection: 7/24/12 12:50

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr Cu Ni Zn

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: CC

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: EP-SED

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: East Pond

External Sample Number: EP-SED

Latitude:

Longitude:

Sample Collection: 2/25/12 09:55

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cu, Cr, Ni, Zn
			total Cyanide, PCBs

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: CMacari

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Water

Sample Number: NPWB-SW

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: NPWB

External Sample Number: NPWB-SW

Latitude:

Longitude:

Sample Collection: 7/24/12 ~~30~~: 1505

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cu, Cr, Ni, Zn
			total cyanide, PCBs

Property Owner Information:

Sample Comments:

North Process Water Basin

Surface Water

Sample Location Map:

Sample collected by: CLomacai

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: NPWB-SED-N

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: NPWB

External Sample Number: NPWB-SED-N

Latitude:

Longitude:

Sample Collection: 7/24/12 15:10

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cd, Cr, Ni, ~~N~~ Zn
			total Cyanide PCBs

Property Owner Information:

Sample Comments:

North Process water basin

North sed

Sample Location Map:

Sample collected by: C Canacari

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: NPWB-SED-S

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: NPWB

External Sample Number: NPWB-SED-S

Latitude:

Longitude:

Sample Collection: 7/24/12 15:18

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cu, Cr, Ni, Zn
			total Cyanide, PCBs

Property Owner Information:

Sample Comments:

North Process water basin

South Sed

Sample Location Map:

Sample collected by: C Caracci

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SPWB-SED-S

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SPWB

External Sample Number: SPWB-SED-S

Latitude:

Longitude:

Sample Collection: 7/24/12 11:05

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn
			Cyanid, PCBs

Property Owner Information:

Sample Comments:

South Process
Water Basin

Sample Location Map:

Sample collected by: CC

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: SPWB-SED-N

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: SPWB

External Sample Number: SPWB-SED-N

Latitude:

Longitude:

Sample Collection: 7/24/12 10:50

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn Cyanide, ~~PCBs~~ PCBs

Property Owner Information:

Sample Comments:

South Process water Basin

Sample Location Map:

Sample collected by: CL

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: water

Sample Number: GM-1

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: ~~GM-1~~ GM-1

External Sample Number: ~~GM-1~~ GM-1

Latitude:

Longitude:

Sample Collection: 07/25/12 13:38

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-250 mL	Nitric Acid HNO_3		1-Total metals 1-Dissolved

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Water

Sample Number: GM-2-~~[illegible]~~ JK

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: GM-2

External Sample Number: GM-2-~~[illegible]~~ JK

Latitude:

Longitude:

Sample Collection: 07/25/12 14:40

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-250 ml	2-HNO3		Total/Dissolved Cu, Cr, Ni, Zn
2-250mL	—		total/Dissolved Cr VI

Property Owner Information:

Sample Comments:

Petroleum Odor

Sample Location Map:

Sample collected by: JA

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: water

Sample Number: GM-5

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: GM-5

External Sample Number: GM-5

Latitude:

Longitude:

Sample Collection: 07/27/12 09:58

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-250mL	HNO_3		Cr, Cu, Ni, Zn Total Dissolved
2-250mL	unpreserved		Hexchrome

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: Water

Sample Number: GM-7

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: GM-7

External Sample Number: GM-7

Latitude:

Longitude:

Sample Collection: 07/27/12 11:10

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-250 mL	HNO_3		Cr, Cu, Ni, Zn

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Water

Sample Number: GM-8

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: GM-8

External Sample Number: GM-8

Latitude:

Longitude:

Sample Collection: 07/26/12 11:51

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-250mL	HNO_3		Total/Dissolved CR, CU, NI, ZN

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: Water

Sample Number: GM-10 [redacted] JH

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: GM-10

External Sample Number: GM-10 [redacted] JH

Latitude:

Longitude:

Sample Collection: 07/26/12 10:20

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-250 ml	HNO3	-	Total, Dissolved [redacted]
2-250 ml	None	-	Hex chrome

CR, [illegible]

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Water

Sample Number: GM-12

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: GM-12

External Sample Number: GM-12

Latitude:

Longitude:

Sample Collection: 07/26/12 15:29

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-250 mL	HNO_3		CR, CU, NI, ZN Total & Dissolved

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: water

Sample Number: GM-13

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: GM-13

External Sample Number: GM-13

Latitude:

Longitude:

Sample Collection: 07/26/12 14:40

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-250 mL	HNO_3		Ag, Cu, Ni, Zn Total & dissolved
2-250 mL	none		Hexchrome

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diecasting Site

Matrix: Water

Sample Number: GM-15

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: GM-15

External Sample Number: GM-15

Latitude:

Longitude:

Sample Collection: 07/26/12 12:47

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2-250 mL	HNO_3	—	CR, CU, NI, ZN - Total - Dissolved

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Water **Sample Number:** GM-17-wd

Project ID: EPS70901.0035 **Project Manager:** Jeff Pritchard

Location: Stanley **State:** Kansas

Location Description: GM-17

External Sample Number: GM-17-wd

Latitude:

Longitude:

Sample Collection: 07/25/12 15:38

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
2 - 250ml	HNO_3		1 - Total Cr, Cu, Ni, Zn 1 - Dissolved

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: water

Sample Number: BLDG-1-SW

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: BLDG-1

External Sample Number: BLDG-1-SW

Latitude:

Longitude:

Sample Collection: 7/27/12 12:48

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn PCBs, Cyanide Cr VI

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: JH

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: BLDG-1-SED

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: BLDG-1

External Sample Number: BLDG-1-SED

Latitude:

Longitude:

Sample Collection: 7/27/12 12:38

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cu, Cr, Ni, Zn Cyanide, PCB Cr VI

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: CL

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: water

Sample Number: BLDG-2-SW

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: BLDG-2

External Sample Number: BLDG-2-SW

Latitude:

Longitude:

Sample Collection: 7/27/12 13:40

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cr, Cu, Ni, Zn PCBs, Cyanide Cr VI

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: CC

Sample Collection Field Sheet
US EPA Region 7

Kuhlman Diescasting Site

Matrix: Soil

Sample Number: BLDG-2-SED

Project ID: EPS70901.0035

Project Manager: Jeff Pritchard

Location: Stanley

State: Kansas

Location Description: BLDG-2

External Sample Number: BLDG-2-SED

Latitude:

Longitude:

Sample Collection: 7/27/12 13:23

Laboratory Analysis:

Container	Preservative	Holding Time	Analysis
			Cu, Cr, Ni, Zn Cyanide, PCBs Cr VI

Property Owner Information:

Sample Comments:

Sample Location Map:

Sample collected by: CL

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	GM-1	Sample Personnel	CL, JH	Screen Interval	5.0-29.5
Project	Kuhlman	Sample ID	GM-1-W	Static Water Level	9.1 ft
Project No.		Duplicate ID		Well Depth (TOC)	28.8
Sample Date	7-25-12			Feet of Water	19.7 ft

Condition of Well	Good	Flush Mount or Stickup	Stickup
Construction	PVC	Well Size	
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
13:15 ~~13:02~~	0.4	1.31mg/L ~~1.40~~	6.91	1.7	16.65	0.578			9.9 ft
13:20	0.4	0.65mg/L	6.67	6.7	16.36	0.571			9.75 ft
13:25	0.4	0.51mg/L	6.64	6.7	16.42	0.570			9.75 ft
13:30	0.4	0.47	6.61	6.4	16.13	0.565			9.85 ft
13:35	0.4	0.38	6.54	7.1	15.81	0.562			

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	GM-2	Sample Personnel	CC, JH	Screen Interval	11.0-29.5
Project	Kahlmen	Sample ID	GM-2-W	Static Water Level	15.3
Project No.		Duplicate ID		Well Depth (TOC)	31.3
Sample Date	7-25-22/14:40			Feet of Water	16.0 FT

Condition of Well	No Cap	Flush Mount or Stickup	Stick up
Construction		Well Size	
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
14:19	0.4	0.60	6.86	-121.0	16.47	0.577			16.5
14:24	0.25	0.68	6.77	-111.5	16.32	0.573			16.5 ft
14:29	0.25	0.34	6.71	-112.3	16.02	0.563			16.6 ft
14:34	0.25	0.27	6.69	-112.0	16.07	0.563			16.7 ft
14:39	0.25	0.29	6.72	-113.0	16.21	0.564			16.6 ft

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	GM-5	Sample Personnel	CC, JH	Screen Interval	7.5-17.5 ft
Project	Kuhlman	Sample ID	GM-5	Static Water Level	~~7.5-17~~ 11.9 ft
Project No.		Duplicate ID		Well Depth (TOC)	17.5 ft
Sample Date	07-27-12	09:58		Feet of Water	5.6 ft

Condition of Well	Good	Flush Mount or Stickup	Stickup
Construction	PVC	Well Size	
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
09:43	0.40	10.67	7.15	-98.3	15.71	0.874			
09:46	0.40	1.67	6.34	-62.1	14.44	0.871			13.7
09:49	0.30	1.34	6.14	-54.7	14.14	0.865			
09:52	0.30	1.22	6.15	-58.6	14.00	0.867			
09:55	0.30	1.09	6.21	-62.1	13.81	0.880		1.0 gal	

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	GM-7	Sample Personnel	CC, JH	Screen Interval	7.5-22.5
Project	Kuhlman	Sample ID	GM-7	Static Water Level	12.8
Project No.		Duplicate ID		Well Depth (TOC)	19.1
Sample Date	07-27-12 - 11:10			Feet of Water	7.7 Ft

Condition of Well	Good	Flush Mount or Stickup	Stickup
Construction	PVC	Well Size	
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
10:57	0.3	4.04	6.76	-51.3	15.78	0.802			
11:00	0.3	1.77	6.52	-60.0	15.20	0.786			
11:03	0.3	1.50	6.45	-57.0	14.66	0.784			
11:06	0.3	1.47	6.44	-54.0	14.56	0.775			
11:09	0.3	1.39	6.45	-53.6	14.43	0.776			

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	GM-8	Sample Personnel	CC, JH	Screen Interval	20-30 ft
Project	Kuhlman	Sample ID	GM-8	Static Water Level	11.0 ft
Project No.		Duplicate ID		Well Depth (TOC)	29.0 ft
Sample Date	07-26-12 - 11:51			Feet of Water	18 ft

Condition of Well	Cut in PVC at Base	Flush Mount or Stickup	Stick up
Construction	PVC	Well Size	
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
11:35	0.5	4.36	6.89	33.2	15.99	0.608			11.4
11:38	0.5	0.72	6.73	34.5	15.40	0.607			11.4
11:41	0.5	0.79	6.66	33.5	15.18	0.604			11.4
11:44	0.5	0.53	6.64	38.5	14.97	0.598			11.4
11:47	0.5	0.42	6.64	43.5	14.95	0.592			11.4
11:50	0.5	0.41	6.64	47.8	14.92	0.587			11.4

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	GM-10	Sample Personnel	CC, JH	Screen Interval	22.5-32.5
Project	Kuhlman	Sample ID	GM-10-[redacted]	Static Water Level	11.45
Project No.		Duplicate ID		Well Depth (TOC)	29.30
Sample Date	07/26/12 - 10:20			Feet of Water	17.85

Condition of Well	Good	Flush Mount or Stickup	Stickup
Construction		Well Size	
Remarks	no Cap	Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
10:01	0.3	20.60	7.30	60.0	16.53	0.328			
10:05	0.3	0.58	6.33	36.0	16.04	0.372			
10:09	0.3	0.49	6.00	19.1	15.73	0.420			
10:14	0.3	0.37	6.05	25.6	15.56	0.436		1 gallon	
10:19	0.3	0.34	6.16	35.8	15.46	0.452			

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	GM-12	Sample Personnel	CC, JH	Screen Interval	15.0 - 25.0 ft
Project	Kuhlman	Sample ID	GM-12	Static Water Level	19.5 ft
Project No.		Duplicate ID		Well Depth (TOC)	30.3 ft
Sample Date	07-26-12 - 15:29			Feet of Water	10.8 ft

Condition of Well	Good	Flush Mount or Stickup	Stickup
Construction	PVC	Well Size	
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
15:16	0.3	6.16	7.06	-4.8	15.04	0.793			
15:19	0.3	2.84	6.85	-22.1	14.65	0.775			
15:22	0.3	2.41	6.72	-25.5	14.28	0.765			
15:25	0.3	1.97	6.65	-24.8	14.13	0.757		1.2 gal	
15:28	0.3	1.75	6.60	-22.5	14.11	0.744			

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	GM-13	Sample Personnel	CC, JH	Screen Interval	17.5-27.5
Project	Kuhlman	Sample ID	GM-13	Static Water Level	9.30
Project No.		Duplicate ID		Well Depth (TOC)	24.5
Sample Date	07-26-12	-14:40		Feet of Water	15.2

Condition of Well	Good	Flush Mount or Stickup	Stickup
Construction	PVC	Well Size	
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
14:21	0.45	7.04	6.99	27.0 ~~0.341~~	17.08	0.392			10.1
14:24	0.45	0.45	6.91	4.0	15.55	0.389			10.5
14:27	0.45	0.43	6.81	3.5	15.44	0.395			10.5
14:30	0.45	0.54	6.68	-19.5	15.19	0.388			10.6
14:33	0.40	0.48	6.64	-53.6	15.30	0.743			10.6
14:36	0.40	0.40	6.70	-68.1	15.45	0.782		1.5 gal	10.6
14:39	0.40	0.39	6.66	-78.1	15.28	0.788		1.9 gal	10.6

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	GM-15	Sample Personnel	CL JH	Screen Interval	15-25 ft
Project	Kuhlman	Sample ID	GM-15	Static Water Level	17.5
Project No.		Duplicate ID		Well Depth (TOC)	23.5
Sample Date	07-26-12 - 12:47			Feet of Water	6

Condition of Well	Good	Flush Mount or Stickup	Stickup
Construction		Well Size	
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
12:33	0.25	4.81	6.84	62.5	14.96	0.501			
12:36	0.25	2.59	6.63	69.5	14.22	0.494			
12:39	0.25	1.90	6.55	73.9	13.84	0.490			
12:42	0.25	1.36	6.58	72.6	13.70	0.489			
12:45	0.25	1.23	6.66	67.1	13.69	0.489		1.6 gal	

Seagull Environmental Technologies, Inc.

Micropurging Groundwater Sampling Data Sheet

Well Name	GM-17 ~~GM 17~~	Sample Personnel	CC, JH	Screen Interval	15.0-25.0
Project	Kuhlman	Sample ID	GM-17-W	Static Water Level	13.6
Project No.		Duplicate ID		Well Depth (TOC)	20.2
Sample Date	07-25-12			Feet of Water	6.6

Condition of Well	Good	Flush Mount or Stickup	Stickup
Construction		Well Size	
Remarks		Casing - PvC or other	PVC

Purging

Time	Discharge Rate	Dissolved Oxygen (mg/L)	pH	Eh/ORP (mv)	Temp (°C)	Specific Conduct (µmhos/cm at °C)	Turbidity	Cumulative Volume of Water Removed (Purged) (gallons)	Comments
15:28	0.3	3.79	6.97	-87.0	17.43	0.634			14.6
15:31	0.25	0.64	6.86	-85.8	16.52	0.615			15.5
15:34	0.20	0.65	6.76	-80.8	16.48	0.605			15.8
15:37	0.20	0.67	6.72	-77.0	16.40	0.595			16.0

APPENDIX F

TABLES

TABLE F-1
SURFACE SOIL X-RAY FLUORESCENCE SPECTROMETER SCREENING RESULTS
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

Sample ID	Average	
SS-1	Cu-	91
	Cr-	173
	Ni-	226
	Zn-	375
SS-2	Cu-	127
	Cr-	341
	Ni-	326
	Zn-	586
SS-3	Cu-	< 20
	Cr-	< 20
	Ni-	9.9
	Zn-	73
SS-4	Cu-	108
	Cr-	135
	Ni-	294
	Zn-	3,411
SS-5	Cu-	125
	Cr-	239
	Ni-	344
	Zn-	2,497
SS-6	Cu-	< 20
	Cr-	< 20
	Ni-	41
	Zn-	95

Sample ID	Average	
SS-7	Cu-	175
	Cr-	396
	Ni-	468
	Zn-	10,748
SS-8	Cu-	26
	Cr-	31
	Ni-	178
	Zn-	3,279
SS-9	Cu-	20
	Cr-	< 20
	Ni-	45
	Zn-	532
SS-10	Cu-	40
	Cr-	29
	Ni-	65
	Zn-	1,443
SS-11	Cu-	< 20
	Cr-	< 20
	Ni-	317
	Zn-	9,846
SS-12	Cu-	22
	Cr-	< 20
	Ni-	114
	Zn-	1,370

Notes:
Averages were from three separate x-ray fluorescence spectrometer readings.

Cu	Copper
Cr	Chromium
ID	Identification
Ni	Nickel
Zn	Zinc

TABLE F-2
VOLATILE ORGANIC COMPOUNDS IN SUBSURFACE SOIL
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

Sample ID	Depth (ft bgs)	Volatile Organic Compunds (*micrograms per kilogram*)						
		Acetone	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	Carbon disulfide	Isopropylbenzene (Cumene)	1,2,4-Trimethylbenzene
SB-1-25-27	25-27	< 23.2	< 11.6	< 5.8	< 5.8	< 5.8	< 5.8	< 5.8
SB-2-2-4	2-4	**186**	**18.5**	< 6.4	< 6.4	< 6.4	< 6.4	< 6.4
SB-3-16-18	16-18	< 21.6	< 10.8	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4
SB-4-14-16	14-16	< 19.7	< 9.8	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
SB-5-10-12	10-12	< 21.1	< 10.6	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3
SB-6-14-16	14-16	< 1160	< 580	< 290	**662**	< 290	< 290	< 290
SB-7-10-12	10-12	< 1240	< 620	**700**	**1310**	< 310	**331**	< 310
SB-8-9-11	9-11	**75.3**	**13.4**	< 5.6	< 5.6	**6.5**	< 5.6	**5.8**
SB-9-12-14	12-14	**224**	**27.8**	< 6.3	< 6.3	**32.9**	< 6.3	< 6.3
SB-10-12-14	12-14	**87.3**	**14.3**	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2
SB-11-17-19	17-19	< 1200	< 598	< 299	< 299	< 299	< 299	< 299
SB-14-8-10	8-10	< 26.0	< 13.0	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5
SB-17-10-12	10-12	**88.8**	**20.8**	< 5.5	< 5.5	< 5.5	< 5.5	< 5.5
SB-18-12-14	12-14	**35.7**	< 11.1	< 5.5	< 5.5	< 5.5	< 5.5	< 5.5
SB-19-6-8	6-8	< 23.1	< 11.6	< 5.8	< 5.8	< 5.8	< 5.8	< 5.8
KDHE RSK - Residential Soil		**5E+07**	**2.5E+07**	**285,000**	**276,000**	**1,020,000**	**NE**	**54,000**
KDHE RSK - Non-Residential Soil		**4.1E+08**	**1E+08**	**687,000**	**654,000**	**1,680,000**	**NE**	**126,000**

Notes:

Sample results were compared to Risk-Based Standards for Kansas developed by the Kansas Department of Health and Environment.

<	Less than
ft bgs	Feet below ground surface
ID	Identification
KDHE	Kansas Department of Health and Environment
RSK	Risk-based Standards for Kansas

TABLE F-3
POLYNUCLEAR AROMATIC HYDROCARBONS IN SUBSURFACE SOIL
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

Sample ID	Depth (ft bgs)	Polynuclear Aromatic Hydrocarbons (*milligrams per kilogram*)															
		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
SB-1-25-27	25-27	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	**14.4**	< 4.2	< 4.2
SB-2-2-4	2-4	< 3.7	**6.3**	**8.9**	**39.9**	**36.6**	**50.7**	**29.4**	**28.1**	**39.8**	**8.9**	**61.3**	< 3.7	**22.1**	< 3.7	**33.4**	**53.3**
SB-3-16-18	16-18	< 4.1	< 4.1	< 4.1	**12.2**	**9.9**	**9.9**	**7.5**	**9.7**	**12.2**	< 4.1	**22.3**	< 4.1	**5.3**	< 4.1	**23.2**	**18.5**
SB-4-14-16	14-16	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	**15.9**	< 4.1	< 4.1
SB-5-10-12	10-12	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
SB-6-14-16	14-16	**82.6**	**42.2**	**32.5**	< 20.9	< 20.9	< 20.9	< 20.9	< 20.9	**104**	< 20.9	**25.6**	**261**	< 20.9	**268**	**804**	**24**
SB-7-10-12	10-12	**290**	< 200	**414**	**356**	**455**	**397**	**579**	< 200	**969**	< 200	**281**	**574**	< 200	**887**	**2,120**	**1,620**
SB-8-9-11	9-11	**24.3**	**15.9**	< 4.2	**4.8**	**6.0**	**9.3**	**5.3**	**4.4**	**5.6**	< 4.2	**7.8**	**62.5**	< 4.2	**11.2**	**49.7**	**7.4**
SB-9-12-14	12-14	< 4.2	**66.6**	< 4.2	**5.1**	**4.8**	**11.4**	**5.1**	**4.5**	**10.3**	< 4.2	**9.7**	**49.7**	< 4.2	**6.9**	**30.7**	**11.2**
SB-10-12-14	12-14	< 4.0	< 4.0	**13**	**73.8**	**65.5**	**78.1**	**38.1**	**51.6**	**69.0**	**15.1**	**94.5**	< 4.0	**31.5**	< 4.0	**50.1**	**78.9**
SB-11-17-19	17-19	**18.0**	**6.3**	**8.3**	< 4.2	< 4.2	**5.1**	< 4.2	< 4.2	**23.3**	< 4.2	**7.2**	**17.1**	< 4.2	**43.1**	**13.0**	**8.4**
SB-14-8-10	8-10	< 4.3	< 4.3	< 4.3	**14.2**	**13.8**	**16.9**	**10.9**	**10.9**	**15.1**	< 4.3	**17.1**	< 4.3	**7.4**	**7.4**	**40.7**	**17.8**
SB-17-10-12	10-12	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	**13.0**	< 4.2	< 4.2
SB-18-12-14	12-14	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
SB-19-6-8	6-8	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
KDHE RSK - Residential Soil		**3,420**	**NE**	**2E+07**	**10,900**	**1,090**	**10,900**	**NE**	**109,000**	**1E+06**	**1,090**	**2E+06**	**2E+06**	**10,900**	**30,500**	**NE**	**2E+06**
KDHE RSK - Non-Residential Soil		**30,600**	**NE**	**2E+08**	**33,800**	**33,800**	**3,380**	**NE**	**338,000**	**3E+06**	**3,380**	**4E+07**	**3E+07**	**33,800**	**64,700**	**NE**	**3E+07**

Notes:

Sample results were compared to Risk-Based Standards for Kansas developed by the Kansas Department of Health and Environment.

<	Less than
ft bgs	Feet below ground surface
ID	Identification
KDHE	Kansas Department of Health and Environment
NE	Not established
RSK	Risk-Based Standards for Kansas

TABLE F-4
TOTAL PETROLEUM HYDROCARBONS IN SUBSURFACE SOIL
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

Sample ID	Sample Location	Depth (ft bgs)	**Total Petroleum Hydrocarbons** *(milligrams per kilogram)*	
			TPH-DRO	**TPH-GRO**
SB-1-25-27	SB-1	25-27	< 24	< 1.2
SB-2-2-4	SB-2	2-4	< 20.4	< 1.3
SB-3-16-18	SB-3	16-18	< 22.5	< 1.1
SB-4-14-16	SB-4	14-16	< 24.6	< 0.98
SB-5-10-12	SB-5	10-12	< 22.8	< 1.1
SB-6-14-16	SB-6	14-16	**3,640**	**640**
SB-7-10-12	SB-7	10-12	**7,970**	**539**
SB-8-9-11	SB-8	9-11	**792**	**1.4**
SB-9-12-14	SB-9	12-14	**1,980**	**1.8**
SB-10-12-14	SB-10	12-14	< 24.1	< 1.0
SB-11-17-19	SB-11	17-19	**1,590**	**114**
SB-14-8-10	SB-14	8-10	< 26.4	< 1.3
SB-17-10-12	SB-17	10-12	< 24.5	< 1.1
SB-18-12-14	SB-18	12-14	< 25.2	< 1.1
SB-19-6-8	SB-19	6-8	< 24.9	< 1.2
KDHE RSK - Residential Soil			**2,000**	**220**
KDHE RSK - Non-Residential Soil			**20,000**	**450**

Notes:

Sample results were compared to Risk-Based Standards for Kansas developed by the Kansas Department of Health and Environment.

Shaded result indicates analyte was detected above a respective Kansas RSK value.

<	Less than
DRO	Diesel range organics
ft bgs	Feet below ground surface
GRO	Gasoline range organics
ID	Identification
KDHE	Kansas Department of Health and Environment
RSK	Risk-Based Standards for Kansas
TPH	Total petroleum hydrocarbons

TABLE F-5
METALS IN SUBSURFACE SOIL
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

Sample ID	Depth (ft bgs)	Metals (*milligrams per kilogram*)								
		Antimony	Arsenic	Beryllium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
SB-1-25-27	25-27	< 1.2	**8.2**	**0.8**	**19.5**	**17.8**	**14.4**	**23.0**	**65.8**	< 0.050
SB-2-2-4	2-4	< 1.1	**4.5**	**0.63**	**13.2**	**12.7**	**25.0**	**15.2**	**64.9**	< 0.66
SB-3-16-18	16-18	< 1.1	**4.7**	**0.77**	**18.5**	**14.3**	**12.1**	**18.8**	**55.4**	< 0.044
SB-4-14-16	14-16	< 1.1	**5.5**	**0.70**	**17.0**	**14.4**	**11.0**	**18.1**	**60.6**	< 0.054
SB-5-10-12	10-12	< 1.1	**6.0**	**0.78**	**17.8**	**15.0**	**12.4**	**20.0**	**57.8**	< 0.049
SB-6-14-16	14-16	< 1.2	**4.7**	**0.74**	**20.3**	**14.5**	**10.6**	**19.6**	**57.6**	< 0.053
SB-7-10-12	10-12	< 1.0	**4.1**	**0.73**	**16.2**	**13.4**	**14.0**	**17.5**	**49.8**	< 0.056
SB-8-9-11	9-11	**29.3**	**116**	**16.0**	**4,060**	**3,630**	**251**	**7,180**	**1,930**	**0.028**
SB-9-12-14	12-14	**2.3**	**5.8**	**0.81**	**342**	**284**	**17.7**	**542**	**427**	**0.031**
SB-10-12-14	12-14	< 1.0	**4.3**	**0.82**	**14.6**	**13.2**	**11.3**	**17.5**	**46.9**	< 0.016
SB-11-17-19	17-19	< 1.0	**4.6**	**0.76**	**16.1**	**13.0**	**12.2**	**13.1**	**54.0**	**0.019**
SB-14-8-10	8-10	< 1.1	**5.3**	**0.54**	**12.0**	**11.6**	**17.0**	**13.7**	**85.8**	**0.570**
SB-17-10-12	10-12	< 1.1	**5.3**	**0.81**	**14.0**	**13.2**	**10.3**	**17.0**	**51.6**	**0.017**
SB-18-12-14	12-14	< 1.1	**4.9**	**0.77**	**14.6**	**12.3**	**12.2**	**16.8**	**52.6**	< 0.016
SB-19-6-8	6-8	< 2.1	**5.8**	**0.83**	**20.2**	**14.7**	**11.3**	**19.0**	**58.9**	< 0.017
KDHE RSK - Residential Soil		**31**	**11**	**155**	**34**	**3,130**	**400**	**1,540**	**23,500**	**2**
KDHE RSK - Non-Residential Soil		**817**	**38**	**3,650**	**111**	**81,700**	**1,000**	**32,400**	**613,000**	**20**

Notes:

Sample results were compared to Risk-Based Standards for Kansas developed by the Kansas Department of Health and Environment.

Shaded result indicates analyte was detected above a respective Kansas RSK value.

<	Less than	KDHE	Kansas Department of Health and Environment
ft bgs	Feet below ground surface	RSK	Risk-Based Standards for Kansas
ID	Identification		

TABLE F-6
METALS IN SURFACE SOIL
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

Sample ID	Depth (inches bgs)	Metals (*milligrams per kilogram*)				
		Chromium	Copper	Nickel	Zinc	Chromium VI
SS-1	0-2	**44.7**	**105**	**105**	**220**	< 4.1
SS-2	0-2	**144**	**103**	**139**	**301**	< 4.1
SS-3	0-2	**31.3**	**26.1**	**43.7**	**67.4**	< 4.2
SS-4	0-2	**177**	**109**	**143**	**1,870**	< 4.2
SS-5	0-2	**153**	**118**	**182**	**1,570**	< 10.5
SS-6	0-2	**27.7**	**23.9**	**37.3**	**96.6**	< 10.6
SS-7	0-2	**155**	**175**	**279**	**13,900**	< 2.0
SS-8	0-2	**18.5**	**35.7**	**71.2**	**1,380**	< 2.0
SS-9	0-2	**60.0**	**42.3**	**36.4**	**347**	< 10.5
SS-10	0-2	**17.3**	**36.1**	**29.4**	**686**	< 4.1
SS-11	0-2	**8.8**	**28.7**	**87.6**	**5,480**	< 2.0
SS-12	0-2	**21.7**	**29.4**	**38.2**	**1,030**	< 10.9
KDHE RSK - Residential Soil		**33.6**	**3,130**	**1,540**	**23,500**	**NE**
KDHE RSK - Non-Residential Soil		**111**	**81,700**	**32,400**	**613,000**	**NE**

Notes

Sample results were compared to Risk-Based Standards for Kansas developed by the Kansas Department of Health and Environment.

Shaded result indicates analyte was detected above a respective Kansas RSK value.

<	Less than
bgs	Below ground surface
ID	Identification
KDHE	Kansas Department of Health and Environment
NE	Not established
RSK	Risk-Based Standards for Kansas

TABLE F-7
POLYNUCLEAR AROMATIC HYDROCARBONS AND VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

			PAHs *(micrograms per liter)*	**Volatile Organic Compounds** *(micrograms per liter)*						
Sample ID	**Sample Location**	**Depth (ft bgs)**	**Fluoranthene**	**1,1-Dichloroethane**	**1,2-Dichloroethene**	**1,1-Dichloroethene**	**cis-1,2-Dichloroethene**	**trans-1,2-Dichloroethene**	**Trichloroethene**	**Vinyl Chloride**
SB-1-GW	SB-1	23-27	<0.10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.1**	< 1.0
SB-3-GW	SB-3	20-24	<0.10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SB-5-GW	SB-5	24-28	**0.16**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SB-6-GW	SB-6	20-24	<0.10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SB-7-GW	SB-7	20-24	**0.13**	**1.1**	**25.5**	< 1.0	**25.3**	< 1.0	**9.5**	< 1.0
SB-9-GW	SB-9	20-24	<0.10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SB-11-GW	SB-11	20-24	<0.10	**4**	**299**	**3.4**	**294**	**4.8**	**384**	**1.4**
SB-17-GW	SB-17	20-24	<0.10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Rinsate Blank			NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Field Blank			**0.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trip Blank			NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
KDHE RSK - Residential Pathway			**255**	**25**	**5**	**7**	**70**	**100**	**5**	**2**
KDHE RSK - Non-Residential Pathway			**1,370**	**46.1**	**5**	**7**	**70**	**100**	**5**	**2**

Notes:

Sample results were compared to Risk-Based Standards for Kansas developed by the Kansas Department of Health and Environment.

Shaded result indicates analyte was detected above a respective Kansas RSK value.

<	Less than	KDHE	Kansas Department of Health and Environment
ft bgs	Feet below ground surface	NA	Not analyzed
ID	Identification	PAH	Polynuclear aromatic hydrocarbons
		RSK	Risk-Based Standards for Kansas

TABLE F-8
TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

Sample ID	Sample Location	Depth (ft bgs)	Total Petroleum Hydrocarbons (*milligrams per liter*)	
			TPH-DRO	TPH-GRO
SB-1-GW	SB-1	23-27	< 0.40	< 0.50
SB-3-GW	SB-3	20-24	< 0.40	< 0.50
SB-5-GW	SB-5	24-28	**0.56**	< 0.50
SB-6-GW	SB-6	20-24	< 0.40	< 0.50
SB-7-GW	SB-7	20-24	**0.51**	< 0.50
SB-9-GW	SB-9	20-24	< 0.40	< 0.50
SB-11-GW	SB-11	20-24	< 0.40	**0.64**
SB-17-GW	SB-17	20-24	< 0.40	< 0.50
Field Blank			< 0.40	< 0.50
Equipment Rinsate			< 0.40	< 0.50
KDHE RSK - Residential Pathway			**0.5**	**0.5**
KDHE RSK - Non-Residential Pathway			**0.72**	**0.5**

Notes:

Sample results were compared to Risk-Based Standards for Kansas developed by the Kansas Department of Health and Environment.

Shaded result indicates analyte was detected above a respective Kansas RSK value.

<	Less than
DRO	Diesel range organics
ft bgs	Feet below ground surface
GRO	Gasoline range organics
ID	Identification
KDHE	Kansas Department of Health and Environment
RSK	Risk-Based Standards for Kansas
TPH	Total petroleum hydrocarbons

TABLE F-9
PRIORITY POLLUTANT METALS IN GROUNDWATER
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

			Priority Pollutant Metals *(micrograms per liter)*																					
			Arsenic		**Beryllium**		**Cadmium**		**Chromium**		**Chromium IV**		**Copper**		**Lead**		**Mercury**		**Nickel**		**Selenium**		**Zinc**	
Sample ID	**Sample Location**	**Depth (ft bgs)**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**
GM-1	GM-1	5.0-29.5	NA	NA	NA	NA	NA	NA	< 5.0	< 5.0	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	< 5.0	< 5.0	NA	NA	< 50.0	< 50.0
GM-2	GM-2	11.0-29.5	NA	NA	NA	NA	NA	NA	**5.1**	< 5.0	< 0.01	< 0.01	< 10.0	< 10.0	NA	NA	NA	NA	**6.4**	< 5.0	NA	NA	< 50.0	< 50.0
GM-5	GM-5	7.5-17.5	NA	NA	NA	NA	NA	NA	< 5.0	< 5.0	< 0.01	< 0.01	< 10.0	< 10.0	NA	NA	NA	NA	< 5.0	< 5.0	NA	NA	< 50.0	< 50.0
GM-7	GM-7	7.5-22.5	NA	NA	NA	NA	NA	NA	**6.8**	< 5.0	NA	NA	**14.5**	< 10.0	NA	NA	NA	NA	**15.7**	**9.8**	NA	NA	< 50.0	< 50.0
GM-8	GM-8	20-30	NA	NA	NA	NA	NA	NA	< 5.0	< 5.0	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	< 5.0	< 5.0	NA	NA	**53.1**	< 50.0
GM-10	GM-10	22.5-32.5	NA	NA	NA	NA	NA	NA	< 5.0	< 5.0	< 0.01	< 0.01	< 10.0	< 10.0	NA	NA	NA	NA	< 5.0	< 5.0	NA	NA	< 50.0	< 50.0
GM-12	GM-12	15-25	NA	NA	NA	NA	NA	NA	< 5.0	< 5.0	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	< 5.0	< 5.0	NA	NA	< 50.0	< 50.0
GM-13	GM-13	17.5-27.5	NA	NA	NA	NA	NA	NA	< 5.0	< 5.0	< 0.01	< 0.01	< 10.0	< 10.0	NA	NA	NA	NA	< 5.0	< 5.0	NA	NA	< 50.0	< 50.0
GM-15	GM-15	15-25	NA	NA	NA	NA	NA	NA	**7.2**	**6.9**	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	< 5.0	< 5.0	NA	NA	< 50.0	< 50.0
GM-17	GM-17	15-25	NA	NA	NA	NA	NA	NA	**5.5**	< 5.0	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	**6.8**	< 5.0	NA	NA	< 50.0	< 50.0
SB-1-GW	SB-1	23-27	**32.4**	**39**	**3.1**	< 1.0	**8**	< 5.0	**43.4**	< 5.0	NA	NA	**259**	< 10.0	**65**	< 5.0	< 0.20	< 0.20	**158**	**18.2**	< 15.0	< 15.0	NA	NA
SB-3-GW	SB-3	20-24	**39.4**	**54**	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	< 10.0	< 10.0	< 5.0	< 5.0	< 0.20	< 0.20	**20.9**	< 5.0	< 15.0	< 15.0	NA	NA
SB-5-GW	SB-5	24-28	**16.8**	< 10.0	**18.1**	< 1.0	**97.9**	< 5.0	**76.7**	< 5.0	NA	NA	**498**	< 10.0	**47.1**	< 5.0	**2.4**	< 0.20	**385**	**12.4**	< 15.0	< 15.0	NA	NA
SB-6-GW	SB-6	20-24	**18.2**	< 10.0	**1.6**	< 1.0	**10.9**	< 5.0	**22.1**	< 5.0	NA	NA	**251**	< 10.0	**24.8**	**34.8**	**0.46**	< 0.20	**75.4**	**10.3**	< 15.0	**22.7**	NA	NA
SB-7-GW	SB-7	20-24	**42.1**	< 10.0	< 1.0	< 1.0	< 5.0	< 5.0	**27.4**	< 5.0	NA	NA	**29.5**	< 10.0	**24.5**	< 5.0	**0.43**	< 0.20	**81.1**	< 5.0	< 15.0	< 15.0	NA	NA
SB-9-GW	SB-9	20-24	**77.3**	**17.6**	**2.7**	< 1.0	**29**	< 5.0	**152**	< 5.0	NA	NA	**54.1**	< 10.0	**101**	< 5.0	**0.30**	< 0.20	**136**	< 5.0	< 15.0	< 15.0	NA	NA
SB-11-GW	SB-11	20-24	**12.2**	< 10.0	< 1.0	< 1.0	**22.5**	< 5.0	**307**	< 5.0	NA	NA	**372**	< 10.0	**44.4**	< 5.0	**0.60**	< 0.20	**300**	**22.4**	< 15.0	< 15.0	NA	NA
SB-17-GW	SB-17	20-24	**30.6**	< 10.0	**2.2**	< 1.0	**35.1**	< 5.0	**55.7**	< 5.0	NA	NA	**186**	< 10.0	**72.1**	**5.0**	**0.35**	< 0.20	**151**	**35.2**	< 15.0	< 15.0	NA	NA
Field Blank			< 10.0	< 10.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.01	< 0.01	< 10.0	< 10.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 0.20	< 15.0	< 15.0	< 50.0	< 50.0
Equipment Rinsate			< 10.0	< 10.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.01	< 0.01	< 10.0	< 10.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 0.20	< 15.0	< 15.0	< 50.0	< 50.0
KDHE RSK - Residential Pathway			**100**		**4**		**5**		**100**		**NE**		**1,300**		**15**		**2**		**312**		**50**		**4,670**	
KDHE RSK - Non-Residential Pathway			**100**		**4**		**5**		**100**		**NE**		**1,300**		**15**		**2**		**2,040**		**50**		**30,500**	

Notes:
Sample results were compared to Risk-Based Standards for Kansas developed by the Kansas Department of Health and Environment.
Shaded result indicates analyte was detected above a respective Kansas RSK value.

<	Less than	NA	Not analyzed
ft bgs	Feet below ground surface	NE	Not established
ID	Identification	RSK	Risk-Based Standards for Kansas
KDHE	Kansas Department of Health and Environment		

TABLE F-10
ANALYTES DETECTED IN SURFACE WATER
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

Sample ID	Sample Location	Analytes					
		micrograms per liter				*milligrams per liter*	
		Chromium	**Copper**	**Nickel**	**Zinc**	**Cyanide**	**Chromium VI**
BR-1-SW	BR-1	< 5.0	< 10.0	< 5.0	< 50.0	NA	NA
BR-2-SW	BR-2	< 5.0	< 10.0	< 5.0	< 50.0	NA	NA
BR-3-SW	BR-3	< 5.0	< 10.0	**5.3**	< 50.0	NA	NA
BR-4-SW	BR-4	< 5.0	< 10.0	< 5.0	< 50.0	NA	NA
NPWB-SW	NPWB-SW	**186**	**450**	**57.8**	**456**	< 0.005	NA
WWEL-S-SW	WWEL-S	**30.3**	**112**	**307**	**120**	< 0.005	**0.057**
BLDG-1-SW	BLDG-1	**5.1**	**10.3**	**33.2**	**204**	< 0.005	< 0.005
BLDG-2-SW	BLDG-2	**12.7**	**15.9**	**42.2**	**2,480**	**0.022**	< 0.010
KDHE-KSWQS - Domestic Water Supply		**100**	**1,300**	**610**	**7,400**	**0.2**	**0.05**

Notes:

Sample results were compared to Kansas Surface Water Quality Standards (KSWQS) developed by the Kansas Department of Health and Environment.

Shaded result indicates analyte was detected above a respective Kansas KSWQS value for surface water.

<	Less than
ID	Identification
KDHE	Kansas Department of Health and Environment
KSWQS	Kansas Surface Water Quality Standards

TABLE F-11
ANALYTES DETECTED IN SEDIMENT
KUHLMAN DIECASTING SITE, STANLEY, KANSAS

Sample ID	Sample Location	Depth (inches bgs)	Analytes (*milligrams per killigrams*)					
			Chromium	Copper	Nickel	Zinc	Chromium VI	Cyanide
BR-1-SED	Blue River	0-6	**13.5**	**12**	**15.2**	**44.2**	NA	NA
BR-2-SED	Blue River	0-6	**15**	**17.9**	**23.9**	**58.8**	NA	NA
BR-3-SED	Blue River	0-6	**21.3**	**17.8**	**24.9**	**70.3**	NA	NA
BR-4-SED	Blue River	0-6	**18**	**14.9**	**20.7**	**62.4**	NA	NA
Threshold Effects Concentration			**43.4**	**31.6**	**22.7**	**121**	**NE**	**NE**
Probable Effects Concentration			**111**	**149**	**48.6**	**459**	**NE**	**NE**
NPWB-SED-N	North Process Water Basin	0-6	**301**	**873**	**74.5**	**435**	NA	< 0.37
NPWB-SED-S	North Process Water Basin	0-6	**385**	**979**	**91.2**	**564**	NA	< 0.69
SPWB-SED-N	South Process Water Basin	0-6	**70.4**	**739**	**58.7**	**433**	NA	**0.27**
SPWB-SED-S	South Process Water Basin	0-6	**64.2**	**742**	**68.6**	**683**	NA	< 0.28
WWEL-N-SED	Waste Water Elimination Lagoon	0-6	**7,030**	**5,770**	**14,900**	**8,210**	< 11.4	**1.2**
WWEL-S-SED	Waste Water Elimination Lagoon	0-6	**571**	**687**	**891**	**288**	< 8.4	**0.33**
EP-SED	East Pond	0-6	**19**	**19.1**	**18.1**	**59.9**	NA	< 0.44
BLDG-1-SED	Kuhlman Diecasting Building	0-6	**520**	**530**	**2,560**	**7,060**	< 6.0	**3.3**
BLDG-2-SED	Kuhlman Diecasting Building	0-6	**106**	**307**	**233**	**154,000**	< 3.2	< 0.23
KDHE RSK - Residential Soil			**33.6**	**3,130**	**1,540**	**23,500**	**NE**	**1,560**
KDHE RSK - Non-Residential Soil			**111**	**81,700**	**32,400**	**601,000**	**NE**	**40,900**

Notes:

Sediment sample results from the Blue River were compared to Threshold Effects Concentrations and Probable Effects Concentrations. Sediment sample results from on-site features were compared to Risk-Based Standards for Kansas developed by the Kansas Department of Health and Environment.
Shaded result indicates analyte was detected above a respective comparison standard/value.

bgs	Below ground surface	NA	Not analyzed
ID	Identification	NE	Not established
KDHE	Kansas Department of Health and Environment	RSK	Risk-Based standards for Kansas

APPENDIX G

CHAIN-OF-CUSTODY RECORDS AND ANALYTICAL RESULTS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 09, 2012

Jeff Pritchard
Seagull Environmental Technologies
415 Oak St.
Kansas City, MO 64106

RE: Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Dear Jeff Pritchard:
Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Mary Jane Walls

maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60125643001	**FIELD BLANK**	Water	07/20/12 11:40	07/21/12 08:50
60125643002	**EQUIPMENT RINSATE**	Water	07/20/12 11:30	07/21/12 08:50
60125643003	**SB-1-25-27**	Solid	07/17/12 10:11	07/21/12 08:55
60125643004	**SB-1-GW**	Water	07/17/12 12:05	07/21/12 08:55
60125643005	**SB-2-2-4**	Solid	07/17/12 14:32	07/21/12 08:55
60125643006	**SB-3-16-18**	Solid	07/17/12 16:08	07/21/12 08:55
60125643007	**SB-3-GW**	Water	07/17/12 16:17	07/21/12 08:55
60125643008	**SB-4-14-16**	Solid	07/18/12 10:07	07/21/12 08:55
60125643009	**SB-5-10-12**	Solid	07/18/12 11:02	07/21/12 08:55
60125643010	**SB-5-GW**	Water	07/18/12 10:42	07/21/12 08:55
60125643011	**SB-6-14-16**	Solid	07/18/12 12:00	07/21/12 08:55
60125643012	**SB-6-GW**	Water	07/18/12 12:02	07/21/12 08:55
60125643013	**SB-7-10-12**	Solid	07/18/12 14:23	07/21/12 08:55
60125643014	**SB-7-GW**	Water	07/18/12 15:07	07/21/12 08:55
60125643015	**TRIP BLANK**	Solid	07/18/12 08:00	07/21/12 08:55

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SAMPLE ANALYTE COUNT

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60125643001	**FIELD BLANK**	OA2	NAW	9
		EPA 6010	SMW	12
		EPA 6010	SMW	12
		EPA 7470	TJT	1
		EPA 7470	TJT	1
		EPA 8270C by SIM	BRM	19
		EPA 5030B/8260	PRG	70
		EPA 8260/OA1	PRG	14
		SM 3500-Cr D	AJM	1
60125643002	**EQUIPMENT RINSATE**	OA2	NAW	9
		EPA 6010	SMW	12
		EPA 6010	SMW	12
		EPA 7470	TJT	1
		EPA 7470	TJT	1
		EPA 5030B/8260	PRG	70
		EPA 8260/OA1	PRG	13
		SM 3500-Cr D	AJM	1
60125643003	**SB-1-25-27**	OA2	NAW	9
		EPA 6010	SMW	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	CEM	1
60125643004	**SB-1-GW**	OA2	SDR	9
		EPA 6010	SMW	12
		EPA 6010	SMW	12
		EPA 7470	TJT	1
		EPA 7470	TJT	1
		EPA 8270C by SIM	BRM	19
		EPA 5030B/8260	PRG	70
		EPA 8260/OA1	PRG	14
60125643005	**SB-2-2-4**	OA2	NAW	9
		EPA 6010	SMW	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1

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SAMPLE ANALYTE COUNT

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	RAB	69
		ASTM D2974	CEM	1
60125643006	**SB-3-16-18**	OA2	NAW	9
		EPA 6010	SMW	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	CEM	1
60125643007	**SB-3-GW**	OA2	SDR	9
		EPA 6010	SMW	12
		EPA 6010	SMW	12
		EPA 7470	TJT	1
		EPA 7470	TJT	1
		EPA 8270C by SIM	BRM	19
		EPA 5030B/8260	PRG	70
		EPA 8260/OA1	PRG	14
60125643008	**SB-4-14-16**	OA2	NAW	9
		EPA 6010	SMW	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	CEM	1
60125643009	**SB-5-10-12**	OA2	NAW	9
		EPA 6010	SMW	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	CEM	1
60125643010	**SB-5-GW**	OA2	SDR	9
		EPA 6010	SMW	12
		EPA 6010	SMW	12
		EPA 7470	TJT	1
		EPA 7470	TJT	1
		EPA 8270C by SIM	BRM	19

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SAMPLE ANALYTE COUNT

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 5030B/8260	RNS	70
		EPA 8260/OA1	RNS	14
60125643011	**SB-6-14-16**	OA2	NAW	9
		EPA 6010	SMW	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	CEM	1
60125643012	**SB-6-GW**	OA2	SDR	9
		EPA 6010	SMW	12
		EPA 6010	SMW	12
		EPA 7470	TJT	1
		EPA 7470	TJT	1
		EPA 8270C by SIM	BRM	19
		EPA 5030B/8260	RNS	70
		EPA 8260/OA1	RNS	14
60125643013	**SB-7-10-12**	OA2	NAW	9
		EPA 6010	SMW	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	CEM	1
60125643014	**SB-7-GW**	OA2	SDR	9
		EPA 6010	SMW	12
		EPA 6010	SMW	12
		EPA 7470	TJT	1
		EPA 7470	TJT	1
		EPA 8270C by SIM	BRM	19
		EPA 5030B/8260	RNS	70
		EPA 8260/OA1	RNS	14
60125643015	**TRIP BLANK**	EPA 8260	RAB	69

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: FIELD BLANK **Lab ID: 60125643001** Collected: 07/20/12 11:40 Received: 07/21/12 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:26	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:26	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:26	94114-58-6	
Kerosene	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:26	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:26	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:26	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:26		
Surrogates								
p-Terphenyl (S)	61	%	20-122	1	07/25/12 00:00	07/27/12 10:26	92-94-4	
n-Tetracosane (S)	62	%	30-122	1	07/25/12 00:00	07/27/12 10:26	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:03	7440-36-0	
Arsenic	ND	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:03	7440-38-2	
Beryllium	ND	ug/L	1.0	1	07/27/12 14:15	07/31/12 14:03	7440-41-7	
Cadmium	ND	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:03	7440-43-9	
Chromium	ND	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:03	7440-47-3	
Copper	ND	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:03	7440-50-8	
Lead	ND	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:03	7439-92-1	
Nickel	ND	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:03	7440-02-0	
Selenium	ND	ug/L	15.0	1	07/27/12 14:15	07/31/12 14:03	7782-49-2	
Silver	ND	ug/L	7.0	1	07/27/12 14:15	07/31/12 14:03	7440-22-4	
Thallium	ND	ug/L	20.0	1	07/27/12 14:15	07/31/12 14:03	7440-28-0	
Zinc	ND	ug/L	50.0	1	07/27/12 14:15	07/31/12 14:03	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:15	7440-36-0	
Arsenic, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:15	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	07/27/12 10:30	07/30/12 13:15	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:15	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:15	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:15	7440-50-8	
Lead, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:15	7439-92-1	
Nickel, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:15	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	07/27/12 10:30	07/30/12 13:15	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	07/27/12 10:30	07/30/12 13:15	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	07/27/12 10:30	07/30/12 13:15	7440-28-0	
Zinc, Dissolved	ND	ug/L	50.0	1	07/27/12 10:30	07/30/12 13:15	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	07/24/12 09:15	07/24/12 15:31	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	08/01/12 06:30	08/03/12 11:11	7439-97-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: FIELD BLANK **Lab ID: 60125643001** Collected: 07/20/12 11:40 Received: 07/21/12 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	53-70-3	
Fluoranthene	**0.10**	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	206-44-0	B
Fluorene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/25/12 00:00	08/06/12 17:55	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/25/12 00:00	08/06/12 17:55	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 17:55	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	78	%	42-120	1	07/25/12 00:00	08/06/12 17:55	4165-60-0	
2-Fluorobiphenyl (S)	82	%	44-120	1	07/25/12 00:00	08/06/12 17:55	321-60-8	
Terphenyl-d14 (S)	102	%	46-131	1	07/25/12 00:00	08/06/12 17:55	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		07/30/12 13:33	67-64-1	
Benzene	ND	ug/L	1.0	1		07/30/12 13:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/30/12 13:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/30/12 13:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/30/12 13:33	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/30/12 13:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/30/12 13:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/30/12 13:33	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/30/12 13:33	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/30/12 13:33	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/30/12 13:33	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		07/30/12 13:33	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/30/12 13:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/30/12 13:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/30/12 13:33	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/30/12 13:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/30/12 13:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/30/12 13:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/30/12 13:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		07/30/12 13:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/30/12 13:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/30/12 13:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/30/12 13:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/30/12 13:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/30/12 13:33	541-73-1	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: FIELD BLANK **Lab ID: 60125643001** Collected: 07/20/12 11:40 Received: 07/21/12 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/30/12 13:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/30/12 13:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/30/12 13:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/30/12 13:33	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		07/30/12 13:33	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/30/12 13:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/30/12 13:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/30/12 13:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/30/12 13:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/30/12 13:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/30/12 13:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/30/12 13:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/30/12 13:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/30/12 13:33	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/30/12 13:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/30/12 13:33	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		07/30/12 13:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/30/12 13:33	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/30/12 13:33	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		07/30/12 13:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/30/12 13:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/30/12 13:33	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/30/12 13:33	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/30/12 13:33	103-65-1	
Styrene	ND	ug/L	1.0	1		07/30/12 13:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/30/12 13:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/30/12 13:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/30/12 13:33	127-18-4	
Toluene	ND	ug/L	1.0	1		07/30/12 13:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/30/12 13:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/30/12 13:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/30/12 13:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/30/12 13:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/30/12 13:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/30/12 13:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		07/30/12 13:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/30/12 13:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/30/12 13:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		07/30/12 13:33	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/30/12 13:33	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		07/30/12 13:33	460-00-4	
Dibromofluoromethane (S)	93	%	80-120	1		07/30/12 13:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		07/30/12 13:33	17060-07-0	
Toluene-d8 (S)	102	%	80-120	1		07/30/12 13:33	2037-26-5	
Preservation pH	**1.0**		0.10	1		07/30/12 13:33		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: FIELD BLANK **Lab ID: 60125643001** Collected: 07/20/12 11:40 Received: 07/21/12 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		07/30/12 13:33		
Benzene	ND	ug/L	1.0	1		07/30/12 13:33	71-43-2	
Toluene	ND	ug/L	1.0	1		07/30/12 13:33	108-88-3	
Ethylbenzene	ND	ug/L	1.0	1		07/30/12 13:33	100-41-4	
Xylene (Total)	ND	ug/L	3.0	1		07/30/12 13:33	1330-20-7	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/30/12 13:33	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/30/12 13:33	91-20-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/30/12 13:33	107-06-2	
tert-Butyl Alcohol	ND	ug/L	10.0	1		07/30/12 13:33	75-65-0	
Surrogates								
Dibromofluoromethane (S)	93	%	80-120	1		07/30/12 13:33	1868-53-7	
Toluene-d8 (S)	102	%	80-120	1		07/30/12 13:33	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120	1		07/30/12 13:33	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		07/30/12 13:33	17060-07-0	
Preservation pH	**1.0**		0.10	1		07/30/12 13:33		
Chromium, Hexavalent	Analytical Method: SM 3500-Cr D							
Chromium, Hexavalent	ND	mg/L	0.010	1		07/21/12 10:55	18540-29-9	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: EQUIPMENT RINSATE **Lab ID: 60125643002** Collected: 07/20/12 11:30 Received: 07/21/12 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:36	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:36	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:36	94114-58-6	
Kerosene	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:36	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:36	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:36	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:36		
Surrogates								
p-Terphenyl (S)	65	%	20-122	1	07/25/12 00:00	07/27/12 10:36	92-94-4	
n-Tetracosane (S)	66	%	30-122	1	07/25/12 00:00	07/27/12 10:36	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:13	7440-36-0	
Arsenic	ND	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:13	7440-38-2	
Beryllium	ND	ug/L	1.0	1	07/27/12 14:15	07/31/12 14:13	7440-41-7	
Cadmium	ND	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:13	7440-43-9	
Chromium	ND	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:13	7440-47-3	
Copper	ND	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:13	7440-50-8	
Lead	ND	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:13	7439-92-1	
Nickel	ND	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:13	7440-02-0	
Selenium	ND	ug/L	15.0	1	07/27/12 14:15	07/31/12 14:13	7782-49-2	
Silver	ND	ug/L	7.0	1	07/27/12 14:15	07/31/12 14:13	7440-22-4	
Thallium	ND	ug/L	20.0	1	07/27/12 14:15	07/31/12 14:13	7440-28-0	
Zinc	ND	ug/L	50.0	1	07/27/12 14:15	07/31/12 14:13	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:25	7440-36-0	
Arsenic, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:25	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	07/27/12 10:30	07/30/12 13:25	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:25	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:25	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:25	7440-50-8	
Lead, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:25	7439-92-1	
Nickel, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:25	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	07/27/12 10:30	07/30/12 13:25	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	07/27/12 10:30	07/30/12 13:25	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	07/27/12 10:30	07/30/12 13:25	7440-28-0	
Zinc, Dissolved	ND	ug/L	50.0	1	07/27/12 10:30	07/30/12 13:25	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	07/24/12 09:15	07/24/12 15:34	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	08/01/12 06:30	08/03/12 11:20	7439-97-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: EQUIPMENT RINSATE **Lab ID: 60125643002** Collected: 07/20/12 11:30 Received: 07/21/12 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		07/30/12 13:49	67-64-1	
Benzene	ND	ug/L	1.0	1		07/30/12 13:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/30/12 13:49	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/30/12 13:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/30/12 13:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/30/12 13:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/30/12 13:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/30/12 13:49	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/30/12 13:49	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/30/12 13:49	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/30/12 13:49	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		07/30/12 13:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/30/12 13:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/30/12 13:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/30/12 13:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/30/12 13:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/30/12 13:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/30/12 13:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/30/12 13:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		07/30/12 13:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/30/12 13:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/30/12 13:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/30/12 13:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/30/12 13:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/30/12 13:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/30/12 13:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/30/12 13:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/30/12 13:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/30/12 13:49	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		07/30/12 13:49	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/30/12 13:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/30/12 13:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/30/12 13:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/30/12 13:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/30/12 13:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/30/12 13:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/30/12 13:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/30/12 13:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/30/12 13:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/30/12 13:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/30/12 13:49	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		07/30/12 13:49	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/30/12 13:49	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/30/12 13:49	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		07/30/12 13:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/30/12 13:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/30/12 13:49	1634-04-4	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: EQUIPMENT RINSATE **Lab ID: 60125643002** Collected: 07/20/12 11:30 Received: 07/21/12 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		07/30/12 13:49	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/30/12 13:49	103-65-1	
Styrene	ND	ug/L	1.0	1		07/30/12 13:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/30/12 13:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/30/12 13:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/30/12 13:49	127-18-4	
Toluene	ND	ug/L	1.0	1		07/30/12 13:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/30/12 13:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/30/12 13:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/30/12 13:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/30/12 13:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/30/12 13:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/30/12 13:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		07/30/12 13:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/30/12 13:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/30/12 13:49	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		07/30/12 13:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/30/12 13:49	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	1		07/30/12 13:49	460-00-4	
Dibromofluoromethane (S)	92	%	80-120	1		07/30/12 13:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	80-120	1		07/30/12 13:49	17060-07-0	
Toluene-d8 (S)	104	%	80-120	1		07/30/12 13:49	2037-26-5	
Preservation pH	**1.0**		0.10	1		07/30/12 13:49		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		07/30/12 13:49		
Benzene	ND	ug/L	1.0	1		07/30/12 13:49	71-43-2	
Toluene	ND	ug/L	1.0	1		07/30/12 13:49	108-88-3	
Ethylbenzene	ND	ug/L	1.0	1		07/30/12 13:49	100-41-4	
Xylene (Total)	ND	ug/L	3.0	1		07/30/12 13:49	1330-20-7	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/30/12 13:49	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/30/12 13:49	91-20-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/30/12 13:49	107-06-2	
tert-Butyl Alcohol	ND	ug/L	10.0	1		07/30/12 13:49	75-65-0	
Surrogates								
Dibromofluoromethane (S)	92	%	80-120	1		07/30/12 13:49	1868-53-7	
Toluene-d8 (S)	104	%	80-120	1		07/30/12 13:49	2037-26-5	
4-Bromofluorobenzene (S)	104	%	80-120	1		07/30/12 13:49	460-00-4	
Preservation pH	**1.0**		0.10	1		07/30/12 13:49		
Chromium, Hexavalent	Analytical Method: SM 3500-Cr D							
Chromium, Hexavalent	ND	mg/L	0.010	1		07/21/12 10:55	18540-29-9	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-1-25-27 **Lab ID: 60125643003** Collected: 07/17/12 10:11 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	24.0	1	07/24/12 00:00	07/29/12 07:40	68334-30-5	
Fuel Oil	ND	mg/kg	24.0	1	07/24/12 00:00	07/29/12 07:40	68553-00-4	
Jet Fuel	ND	mg/kg	24.0	1	07/24/12 00:00	07/29/12 07:40	94114-58-6	
Kerosene	ND	mg/kg	24.0	1	07/24/12 00:00	07/29/12 07:40	8008-20-6	
Mineral Spirits	ND	mg/kg	24.0	1	07/24/12 00:00	07/29/12 07:40	8030-30-6	
Motor Oil	ND	mg/kg	24.0	1	07/24/12 00:00	07/29/12 07:40	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	24.0	1	07/24/12 00:00	07/29/12 07:40		
Surrogates								
n-Tetracosane (S)	88	%	50-137	1	07/24/12 00:00	07/29/12 07:40	646-31-1	
p-Terphenyl (S)	82	%	41-129	1	07/24/12 00:00	07/29/12 07:40	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.2	1	07/25/12 16:15	07/26/12 17:48	7440-36-0	
Arsenic	**8.2**	mg/kg	1.2	1	07/25/12 16:15	07/26/12 17:48	7440-38-2	
Beryllium	**0.80**	mg/kg	0.12	1	07/25/12 16:15	07/26/12 17:48	7440-41-7	
Cadmium	ND	mg/kg	0.58	1	07/25/12 16:15	07/26/12 17:48	7440-43-9	
Chromium	**19.5**	mg/kg	0.58	1	07/25/12 16:15	07/26/12 17:48	7440-47-3	
Copper	**17.8**	mg/kg	1.2	1	07/25/12 16:15	07/26/12 17:48	7440-50-8	
Lead	**14.4**	mg/kg	0.58	1	07/25/12 16:15	07/26/12 17:48	7439-92-1	
Nickel	**23.0**	mg/kg	0.58	1	07/25/12 16:15	07/26/12 17:48	7440-02-0	
Selenium	ND	mg/kg	1.8	1	07/25/12 16:15	07/26/12 17:48	7782-49-2	
Silver	ND	mg/kg	0.82	1	07/25/12 16:15	07/26/12 17:48	7440-22-4	
Thallium	ND	mg/kg	2.3	1	07/25/12 16:15	07/26/12 17:48	7440-28-0	
Zinc	**65.8**	mg/kg	11.7	1	07/25/12 16:15	07/26/12 17:48	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.050	1	07/26/12 12:50	07/26/12 16:47	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	83-32-9	
Acenaphthylene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	208-96-8	
Anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	120-12-7	
Benzo(a)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	56-55-3	
Benzo(a)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	207-08-9	
Chrysene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	53-70-3	
Fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	206-44-0	
Fluorene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	193-39-5	
Naphthalene	**14.4**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	91-20-3	
Phenanthrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	85-01-8	
Pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 13:07	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-1-25-27 **Lab ID: 60125643003** Collected: 07/17/12 10:11 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	81	%	35-121	1	07/26/12 00:00	07/27/12 13:07	4165-60-0	
2-Fluorobiphenyl (S)	81	%	41-120	1	07/26/12 00:00	07/27/12 13:07	321-60-8	
Terphenyl-d14 (S)	69	%	39-123	1	07/26/12 00:00	07/27/12 13:07	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	ND	mg/kg	1.2	1		07/26/12 13:34		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	23.2	1		07/26/12 13:34	67-64-1	
Benzene	ND	ug/kg	5.8	1		07/26/12 13:34	71-43-2	
Bromobenzene	ND	ug/kg	5.8	1		07/26/12 13:34	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1		07/26/12 13:34	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1		07/26/12 13:34	75-27-4	
Bromoform	ND	ug/kg	5.8	1		07/26/12 13:34	75-25-2	
Bromomethane	ND	ug/kg	5.8	1		07/26/12 13:34	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.6	1		07/26/12 13:34	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	1		07/26/12 13:34	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1		07/26/12 13:34	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1		07/26/12 13:34	98-06-6	
Carbon disulfide	ND	ug/kg	5.8	1		07/26/12 13:34	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.8	1		07/26/12 13:34	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		07/26/12 13:34	108-90-7	
Chloroethane	ND	ug/kg	5.8	1		07/26/12 13:34	75-00-3	
Chloroform	ND	ug/kg	5.8	1		07/26/12 13:34	67-66-3	
Chloromethane	ND	ug/kg	5.8	1		07/26/12 13:34	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1		07/26/12 13:34	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1		07/26/12 13:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	11.6	1		07/26/12 13:34	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1		07/26/12 13:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		07/26/12 13:34	106-93-4	
Dibromomethane	ND	ug/kg	5.8	1		07/26/12 13:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		07/26/12 13:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		07/26/12 13:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		07/26/12 13:34	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.8	1		07/26/12 13:34	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		07/26/12 13:34	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		07/26/12 13:34	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.8	1		07/26/12 13:34	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.8	1		07/26/12 13:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		07/26/12 13:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		07/26/12 13:34	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		07/26/12 13:34	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1		07/26/12 13:34	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1		07/26/12 13:34	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1		07/26/12 13:34	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-1-25-27 **Lab ID: 60125643003** Collected: 07/17/12 10:11 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		07/26/12 13:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		07/26/12 13:34	10061-02-6	
Ethylbenzene	ND	ug/kg	5.8	1		07/26/12 13:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		07/26/12 13:34	87-68-3	
2-Hexanone	ND	ug/kg	23.2	1		07/26/12 13:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		07/26/12 13:34	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.8	1		07/26/12 13:34	99-87-6	
Methylene chloride	ND	ug/kg	5.8	1		07/26/12 13:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.6	1		07/26/12 13:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		07/26/12 13:34	1634-04-4	
Naphthalene	ND	ug/kg	11.6	1		07/26/12 13:34	91-20-3	
n-Propylbenzene	ND	ug/kg	5.8	1		07/26/12 13:34	103-65-1	
Styrene	ND	ug/kg	5.8	1		07/26/12 13:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		07/26/12 13:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		07/26/12 13:34	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		07/26/12 13:34	127-18-4	
Toluene	ND	ug/kg	5.8	1		07/26/12 13:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		07/26/12 13:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		07/26/12 13:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		07/26/12 13:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		07/26/12 13:34	79-00-5	
Trichloroethene	ND	ug/kg	5.8	1		07/26/12 13:34	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		07/26/12 13:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		07/26/12 13:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		07/26/12 13:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		07/26/12 13:34	108-67-8	
Vinyl chloride	ND	ug/kg	5.8	1		07/26/12 13:34	75-01-4	
Xylene (Total)	ND	ug/kg	5.8	1		07/26/12 13:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	78-122	1		07/26/12 13:34	1868-53-7	
Toluene-d8 (S)	101	%	80-123	1		07/26/12 13:34	2037-26-5	
4-Bromofluorobenzene (S)	98	%	78-125	1		07/26/12 13:34	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	73-135	1		07/26/12 13:34	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**23.5**	%	0.50	1		08/01/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-1-GW **Lab ID: 60125643004** Collected: 07/17/12 12:05 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:13	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:13	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:13	94114-58-6	
Kerosene	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:13	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:13	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:13	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:13		
Surrogates								
p-Terphenyl (S)	68	%	20-122	1	07/24/12 00:00	07/25/12 03:13	92-94-4	
n-Tetracosane (S)	68	%	30-122	1	07/24/12 00:00	07/25/12 03:13	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:27	7440-36-0	
Arsenic	**32.4**	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:27	7440-38-2	
Beryllium	**3.1**	ug/L	1.0	1	07/26/12 14:30	07/27/12 12:27	7440-41-7	
Cadmium	**8.0**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:27	7440-43-9	
Chromium	**43.4**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:27	7440-47-3	
Copper	**259**	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:27	7440-50-8	
Lead	**65.0**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:27	7439-92-1	
Nickel	**158**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:27	7440-02-0	
Selenium	ND	ug/L	15.0	1	07/26/12 14:30	07/27/12 12:27	7782-49-2	
Silver	ND	ug/L	7.0	1	07/26/12 14:30	07/27/12 12:27	7440-22-4	
Thallium	ND	ug/L	20.0	1	07/26/12 14:30	07/27/12 12:27	7440-28-0	
Zinc	**1480**	ug/L	50.0	1	07/26/12 14:30	07/27/12 12:27	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:31	7440-36-0	
Arsenic, Dissolved	**39.0**	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:31	7440-38-2	D9
Beryllium, Dissolved	ND	ug/L	1.0	1	07/26/12 14:30	07/30/12 16:31	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:31	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:31	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:31	7440-50-8	
Lead, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:31	7439-92-1	
Nickel, Dissolved	**18.2**	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:31	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	07/26/12 14:30	07/30/12 16:31	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	07/26/12 14:30	07/30/12 16:31	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	07/26/12 14:30	07/30/12 16:31	7440-28-0	
Zinc, Dissolved	**146**	ug/L	50.0	1	07/26/12 14:30	07/30/12 16:31	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	07/24/12 09:15	07/24/12 15:36	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	08/01/12 06:30	08/03/12 11:22	7439-97-6	M1

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-1-GW **Lab ID: 60125643004** Collected: 07/17/12 12:05 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/24/12 00:00	08/06/12 18:29	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/06/12 18:29	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:29	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	78	%	42-120	1	07/24/12 00:00	08/06/12 18:29	4165-60-0	
2-Fluorobiphenyl (S)	78	%	44-120	1	07/24/12 00:00	08/06/12 18:29	321-60-8	
Terphenyl-d14 (S)	90	%	46-131	1	07/24/12 00:00	08/06/12 18:29	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		07/27/12 17:30	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/12 17:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/12 17:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/12 17:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/27/12 17:30	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/12 17:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/12 17:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/12 17:30	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/27/12 17:30	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/27/12 17:30	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/27/12 17:30	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		07/27/12 17:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/12 17:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/12 17:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/12 17:30	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/27/12 17:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/12 17:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/12 17:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/12 17:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		07/27/12 17:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/12 17:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/27/12 17:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/12 17:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 17:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 17:30	541-73-1	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-1-GW **Lab ID: 60125643004** Collected: 07/17/12 12:05 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 17:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/12 17:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/27/12 17:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/12 17:30	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		07/27/12 17:30	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/12 17:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/12 17:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/12 17:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/12 17:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/12 17:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/12 17:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/12 17:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/12 17:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/12 17:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 17:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/27/12 17:30	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		07/27/12 17:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/27/12 17:30	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/12 17:30	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		07/27/12 17:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/12 17:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/27/12 17:30	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/27/12 17:30	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/27/12 17:30	103-65-1	
Styrene	ND	ug/L	1.0	1		07/27/12 17:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/12 17:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/12 17:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/27/12 17:30	127-18-4	
Toluene	ND	ug/L	1.0	1		07/27/12 17:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/12 17:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/12 17:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/12 17:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/27/12 17:30	79-00-5	
Trichloroethene	**1.1**	ug/L	1.0	1		07/27/12 17:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/12 17:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		07/27/12 17:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/27/12 17:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/27/12 17:30	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		07/27/12 17:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 17:30	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	106	%	80-120	1		07/27/12 17:30	460-00-4	HS
Dibromofluoromethane (S)	95	%	80-120	1		07/27/12 17:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	80-120	1		07/27/12 17:30	17060-07-0	
Toluene-d8 (S)	97	%	80-120	1		07/27/12 17:30	2037-26-5	
Preservation pH	**1.0**		0.10	1		07/27/12 17:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-1-GW **Lab ID: 60125643004** Collected: 07/17/12 12:05 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		07/27/12 17:30		
Benzene	ND	ug/L	1.0	1		07/27/12 17:30	71-43-2	
Toluene	ND	ug/L	1.0	1		07/27/12 17:30	108-88-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 17:30	100-41-4	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 17:30	1330-20-7	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/27/12 17:30	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/27/12 17:30	91-20-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/12 17:30	107-06-2	
tert-Butyl Alcohol	ND	ug/L	10.0	1		07/27/12 17:30	75-65-0	
Surrogates								
Dibromofluoromethane (S)	95	%	80-120	1		07/27/12 17:30	1868-53-7	HS
Toluene-d8 (S)	97	%	80-120	1		07/27/12 17:30	2037-26-5	
4-Bromofluorobenzene (S)	106	%	80-120	1		07/27/12 17:30	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120	1		07/27/12 17:30	17060-07-0	
Preservation pH	**1.0**		0.10	1		07/27/12 17:30		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-2-2-4 **Lab ID: 60125643005** Collected: 07/17/12 14:32 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	20.4	1	07/24/12 00:00	07/29/12 07:51	68334-30-5	
Fuel Oil	ND	mg/kg	20.4	1	07/24/12 00:00	07/29/12 07:51	68553-00-4	
Jet Fuel	ND	mg/kg	20.4	1	07/24/12 00:00	07/29/12 07:51	94114-58-6	
Kerosene	ND	mg/kg	20.4	1	07/24/12 00:00	07/29/12 07:51	8008-20-6	
Mineral Spirits	ND	mg/kg	20.4	1	07/24/12 00:00	07/29/12 07:51	8030-30-6	
Motor Oil	ND	mg/kg	20.4	1	07/24/12 00:00	07/29/12 07:51	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	20.4	1	07/24/12 00:00	07/29/12 07:51		
Surrogates								
n-Tetracosane (S)	89	%	50-137	1	07/24/12 00:00	07/29/12 07:51	646-31-1	
p-Terphenyl (S)	80	%	41-129	1	07/24/12 00:00	07/29/12 07:51	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	07/25/12 16:15	07/26/12 17:50	7440-36-0	
Arsenic	**4.5**	mg/kg	1.1	1	07/25/12 16:15	07/26/12 17:50	7440-38-2	
Beryllium	**0.63**	mg/kg	0.11	1	07/25/12 16:15	07/26/12 17:50	7440-41-7	
Cadmium	ND	mg/kg	0.54	1	07/25/12 16:15	07/26/12 17:50	7440-43-9	
Chromium	**13.2**	mg/kg	0.54	1	07/25/12 16:15	07/26/12 17:50	7440-47-3	
Copper	**12.7**	mg/kg	1.1	1	07/25/12 16:15	07/26/12 17:50	7440-50-8	
Lead	**25.0**	mg/kg	0.54	1	07/25/12 16:15	07/26/12 17:50	7439-92-1	
Nickel	**15.2**	mg/kg	0.54	1	07/25/12 16:15	07/26/12 17:50	7440-02-0	
Selenium	ND	mg/kg	1.6	1	07/25/12 16:15	07/26/12 17:50	7782-49-2	
Silver	ND	mg/kg	0.76	1	07/25/12 16:15	07/26/12 17:50	7440-22-4	
Thallium	ND	mg/kg	2.2	1	07/25/12 16:15	07/26/12 17:50	7440-28-0	
Zinc	**64.9**	mg/kg	10.8	1	07/25/12 16:15	07/26/12 17:50	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.066**	mg/kg	0.047	1	07/26/12 12:50	07/26/12 16:54	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	83-32-9	
Acenaphthylene	**6.3**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	208-96-8	
Anthracene	**8.9**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	120-12-7	
Benzo(a)anthracene	**39.9**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	56-55-3	
Benzo(a)pyrene	**36.6**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	50-32-8	
Benzo(b)fluoranthene	**50.7**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	205-99-2	
Benzo(g,h,i)perylene	**29.4**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	191-24-2	
Benzo(k)fluoranthene	**28.1**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	207-08-9	
Chrysene	**39.8**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	218-01-9	
Dibenz(a,h)anthracene	**8.9**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	53-70-3	
Fluoranthene	**61.3**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	206-44-0	
Fluorene	ND	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	86-73-7	
Indeno(1,2,3-cd)pyrene	**22.1**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	193-39-5	
Naphthalene	ND	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	91-20-3	
Phenanthrene	**33.4**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	85-01-8	
Pyrene	**53.3**	ug/kg	3.7	1	07/26/12 00:00	07/27/12 13:28	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-2-2-4 **Lab ID: 60125643005** Collected: 07/17/12 14:32 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	88	%	35-121	1	07/26/12 00:00	07/27/12 13:28	4165-60-0	
2-Fluorobiphenyl (S)	85	%	41-120	1	07/26/12 00:00	07/27/12 13:28	321-60-8	
Terphenyl-d14 (S)	72	%	39-123	1	07/26/12 00:00	07/27/12 13:28	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	ND	mg/kg	1.3	1		07/26/12 13:50		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**186**	ug/kg	25.7	1		07/26/12 13:50	67-64-1	
Benzene	ND	ug/kg	6.4	1		07/26/12 13:50	71-43-2	
Bromobenzene	ND	ug/kg	6.4	1		07/26/12 13:50	108-86-1	
Bromochloromethane	ND	ug/kg	6.4	1		07/26/12 13:50	74-97-5	
Bromodichloromethane	ND	ug/kg	6.4	1		07/26/12 13:50	75-27-4	
Bromoform	ND	ug/kg	6.4	1		07/26/12 13:50	75-25-2	
Bromomethane	ND	ug/kg	6.4	1		07/26/12 13:50	74-83-9	
2-Butanone (MEK)	**18.5**	ug/kg	12.9	1		07/26/12 13:50	78-93-3	
n-Butylbenzene	ND	ug/kg	6.4	1		07/26/12 13:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.4	1		07/26/12 13:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.4	1		07/26/12 13:50	98-06-6	
Carbon disulfide	ND	ug/kg	6.4	1		07/26/12 13:50	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.4	1		07/26/12 13:50	56-23-5	
Chlorobenzene	ND	ug/kg	6.4	1		07/26/12 13:50	108-90-7	
Chloroethane	ND	ug/kg	6.4	1		07/26/12 13:50	75-00-3	
Chloroform	ND	ug/kg	6.4	1		07/26/12 13:50	67-66-3	
Chloromethane	ND	ug/kg	6.4	1		07/26/12 13:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.4	1		07/26/12 13:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.4	1		07/26/12 13:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	12.9	1		07/26/12 13:50	96-12-8	
Dibromochloromethane	ND	ug/kg	6.4	1		07/26/12 13:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.4	1		07/26/12 13:50	106-93-4	
Dibromomethane	ND	ug/kg	6.4	1		07/26/12 13:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.4	1		07/26/12 13:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.4	1		07/26/12 13:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.4	1		07/26/12 13:50	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	6.4	1		07/26/12 13:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.4	1		07/26/12 13:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.4	1		07/26/12 13:50	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	6.4	1		07/26/12 13:50	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.4	1		07/26/12 13:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.4	1		07/26/12 13:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.4	1		07/26/12 13:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.4	1		07/26/12 13:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.4	1		07/26/12 13:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.4	1		07/26/12 13:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.4	1		07/26/12 13:50	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-2-2-4 **Lab ID: 60125643005** Collected: 07/17/12 14:32 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	6.4	1		07/26/12 13:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.4	1		07/26/12 13:50	10061-02-6	
Ethylbenzene	ND	ug/kg	6.4	1		07/26/12 13:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.4	1		07/26/12 13:50	87-68-3	
2-Hexanone	ND	ug/kg	25.7	1		07/26/12 13:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.4	1		07/26/12 13:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.4	1		07/26/12 13:50	99-87-6	
Methylene chloride	ND	ug/kg	6.4	1		07/26/12 13:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.9	1		07/26/12 13:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.4	1		07/26/12 13:50	1634-04-4	
Naphthalene	ND	ug/kg	12.9	1		07/26/12 13:50	91-20-3	
n-Propylbenzene	ND	ug/kg	6.4	1		07/26/12 13:50	103-65-1	
Styrene	ND	ug/kg	6.4	1		07/26/12 13:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.4	1		07/26/12 13:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.4	1		07/26/12 13:50	79-34-5	
Tetrachloroethene	ND	ug/kg	6.4	1		07/26/12 13:50	127-18-4	
Toluene	ND	ug/kg	6.4	1		07/26/12 13:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.4	1		07/26/12 13:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.4	1		07/26/12 13:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.4	1		07/26/12 13:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.4	1		07/26/12 13:50	79-00-5	
Trichloroethene	ND	ug/kg	6.4	1		07/26/12 13:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.4	1		07/26/12 13:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.4	1		07/26/12 13:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.4	1		07/26/12 13:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.4	1		07/26/12 13:50	108-67-8	
Vinyl chloride	ND	ug/kg	6.4	1		07/26/12 13:50	75-01-4	
Xylene (Total)	ND	ug/kg	6.4	1		07/26/12 13:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	78-122	1		07/26/12 13:50	1868-53-7	
Toluene-d8 (S)	102	%	80-123	1		07/26/12 13:50	2037-26-5	
4-Bromofluorobenzene (S)	98	%	78-125	1		07/26/12 13:50	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	73-135	1		07/26/12 13:50	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**10.9**	%	0.50	1		08/01/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-3-16-18 **Lab ID: 60125643006** Collected: 07/17/12 16:08 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	22.5	1	07/24/12 00:00	07/29/12 08:02	68334-30-5	
Fuel Oil	ND	mg/kg	22.5	1	07/24/12 00:00	07/29/12 08:02	68553-00-4	
Jet Fuel	ND	mg/kg	22.5	1	07/24/12 00:00	07/29/12 08:02	94114-58-6	
Kerosene	ND	mg/kg	22.5	1	07/24/12 00:00	07/29/12 08:02	8008-20-6	
Mineral Spirits	ND	mg/kg	22.5	1	07/24/12 00:00	07/29/12 08:02	8030-30-6	
Motor Oil	ND	mg/kg	22.5	1	07/24/12 00:00	07/29/12 08:02	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	22.5	1	07/24/12 00:00	07/29/12 08:02		
Surrogates								
n-Tetracosane (S)	90	%	50-137	1	07/24/12 00:00	07/29/12 08:02	646-31-1	
p-Terphenyl (S)	80	%	41-129	1	07/24/12 00:00	07/29/12 08:02	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	07/25/12 16:15	07/26/12 17:53	7440-36-0	
Arsenic	**4.7**	mg/kg	1.1	1	07/25/12 16:15	07/26/12 17:53	7440-38-2	
Beryllium	**0.77**	mg/kg	0.11	1	07/25/12 16:15	07/26/12 17:53	7440-41-7	
Cadmium	ND	mg/kg	0.54	1	07/25/12 16:15	07/26/12 17:53	7440-43-9	
Chromium	**18.5**	mg/kg	0.54	1	07/25/12 16:15	07/26/12 17:53	7440-47-3	
Copper	**14.3**	mg/kg	1.1	1	07/25/12 16:15	07/26/12 17:53	7440-50-8	
Lead	**12.1**	mg/kg	0.54	1	07/25/12 16:15	07/26/12 17:53	7439-92-1	
Nickel	**18.8**	mg/kg	0.54	1	07/25/12 16:15	07/26/12 17:53	7440-02-0	
Selenium	ND	mg/kg	1.6	1	07/25/12 16:15	07/26/12 17:53	7782-49-2	
Silver	ND	mg/kg	0.75	1	07/25/12 16:15	07/26/12 17:53	7440-22-4	
Thallium	ND	mg/kg	2.2	1	07/25/12 16:15	07/26/12 17:53	7440-28-0	
Zinc	**55.4**	mg/kg	10.8	1	07/25/12 16:15	07/26/12 17:53	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.044	1	07/26/12 12:50	07/26/12 16:58	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	83-32-9	
Acenaphthylene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	208-96-8	
Anthracene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	120-12-7	
Benzo(a)anthracene	**12.2**	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	56-55-3	
Benzo(a)pyrene	**9.9**	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	50-32-8	
Benzo(b)fluoranthene	**9.9**	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	205-99-2	
Benzo(g,h,i)perylene	**7.5**	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	191-24-2	
Benzo(k)fluoranthene	**9.7**	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	207-08-9	
Chrysene	**12.2**	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	53-70-3	
Fluoranthene	**22.3**	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	206-44-0	
Fluorene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	86-73-7	
Indeno(1,2,3-cd)pyrene	**5.3**	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	193-39-5	
Naphthalene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	91-20-3	
Phenanthrene	**23.2**	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	85-01-8	
Pyrene	**18.5**	ug/kg	4.1	1	07/26/12 00:00	07/27/12 13:48	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-3-16-18 **Lab ID: 60125643006** Collected: 07/17/12 16:08 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	89	%	35-121	1	07/26/12 00:00	07/27/12 13:48	4165-60-0	
2-Fluorobiphenyl (S)	84	%	41-120	1	07/26/12 00:00	07/27/12 13:48	321-60-8	
Terphenyl-d14 (S)	71	%	39-123	1	07/26/12 00:00	07/27/12 13:48	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	ND	mg/kg	1.1	1		07/26/12 15:53		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	21.6	1		07/26/12 15:53	67-64-1	
Benzene	ND	ug/kg	5.4	1		07/26/12 15:53	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		07/26/12 15:53	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		07/26/12 15:53	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		07/26/12 15:53	75-27-4	
Bromoform	ND	ug/kg	5.4	1		07/26/12 15:53	75-25-2	
Bromomethane	ND	ug/kg	5.4	1		07/26/12 15:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.8	1		07/26/12 15:53	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		07/26/12 15:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		07/26/12 15:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		07/26/12 15:53	98-06-6	
Carbon disulfide	ND	ug/kg	5.4	1		07/26/12 15:53	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.4	1		07/26/12 15:53	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		07/26/12 15:53	108-90-7	
Chloroethane	ND	ug/kg	5.4	1		07/26/12 15:53	75-00-3	
Chloroform	ND	ug/kg	5.4	1		07/26/12 15:53	67-66-3	L2
Chloromethane	ND	ug/kg	5.4	1		07/26/12 15:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		07/26/12 15:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		07/26/12 15:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.8	1		07/26/12 15:53	96-12-8	
Dibromochloromethane	ND	ug/kg	5.4	1		07/26/12 15:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		07/26/12 15:53	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		07/26/12 15:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		07/26/12 15:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		07/26/12 15:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		07/26/12 15:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.4	1		07/26/12 15:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		07/26/12 15:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		07/26/12 15:53	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.4	1		07/26/12 15:53	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.4	1		07/26/12 15:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		07/26/12 15:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		07/26/12 15:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		07/26/12 15:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		07/26/12 15:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		07/26/12 15:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		07/26/12 15:53	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-3-16-18 **Lab ID: 60125643006** Collected: 07/17/12 16:08 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		07/26/12 15:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		07/26/12 15:53	10061-02-6	
Ethylbenzene	ND	ug/kg	5.4	1		07/26/12 15:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		07/26/12 15:53	87-68-3	
2-Hexanone	ND	ug/kg	21.6	1		07/26/12 15:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		07/26/12 15:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		07/26/12 15:53	99-87-6	
Methylene chloride	ND	ug/kg	5.4	1		07/26/12 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.8	1		07/26/12 15:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		07/26/12 15:53	1634-04-4	
Naphthalene	ND	ug/kg	10.8	1		07/26/12 15:53	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		07/26/12 15:53	103-65-1	
Styrene	ND	ug/kg	5.4	1		07/26/12 15:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		07/26/12 15:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		07/26/12 15:53	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		07/26/12 15:53	127-18-4	
Toluene	ND	ug/kg	5.4	1		07/26/12 15:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		07/26/12 15:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		07/26/12 15:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		07/26/12 15:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		07/26/12 15:53	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		07/26/12 15:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		07/26/12 15:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		07/26/12 15:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		07/26/12 15:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		07/26/12 15:53	108-67-8	
Vinyl chloride	ND	ug/kg	5.4	1		07/26/12 15:53	75-01-4	
Xylene (Total)	ND	ug/kg	5.4	1		07/26/12 15:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%	78-122	1		07/26/12 15:53	1868-53-7	
Toluene-d8 (S)	102	%	80-123	1		07/26/12 15:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%	78-125	1		07/26/12 15:53	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	73-135	1		07/26/12 15:53	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**19.3**	%	0.50	1		08/01/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-3-GW **Lab ID: 60125643007** Collected: 07/17/12 16:17 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:24	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:24	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:24	94114-58-6	
Kerosene	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:24	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:24	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:24	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 03:24		
Surrogates								
p-Terphenyl (S)	62	%	20-122	1	07/24/12 00:00	07/25/12 03:24	92-94-4	
n-Tetracosane (S)	62	%	30-122	1	07/24/12 00:00	07/25/12 03:24	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:29	7440-36-0	
Arsenic	**39.4**	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:29	7440-38-2	
Beryllium	ND	ug/L	1.0	1	07/26/12 14:30	07/27/12 12:29	7440-41-7	
Cadmium	ND	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:29	7440-43-9	
Chromium	ND	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:29	7440-47-3	
Copper	ND	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:29	7440-50-8	
Lead	ND	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:29	7439-92-1	
Nickel	**20.9**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:29	7440-02-0	
Selenium	ND	ug/L	15.0	1	07/26/12 14:30	07/27/12 12:29	7782-49-2	
Silver	ND	ug/L	7.0	1	07/26/12 14:30	07/27/12 12:29	7440-22-4	
Thallium	ND	ug/L	20.0	1	07/26/12 14:30	07/27/12 12:29	7440-28-0	
Zinc	**108**	ug/L	50.0	1	07/26/12 14:30	07/27/12 12:29	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:41	7440-36-0	
Arsenic, Dissolved	**54.0**	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:41	7440-38-2	D9
Beryllium, Dissolved	ND	ug/L	1.0	1	07/26/12 14:30	07/30/12 16:41	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:41	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:41	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:41	7440-50-8	
Lead, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:41	7439-92-1	
Nickel, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:41	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	07/26/12 14:30	07/30/12 16:41	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	07/26/12 14:30	07/30/12 16:41	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	07/26/12 14:30	07/30/12 16:41	7440-28-0	
Zinc, Dissolved	ND	ug/L	50.0	1	07/26/12 14:30	07/30/12 16:41	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	07/24/12 09:15	07/24/12 15:38	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	08/01/12 06:30	08/03/12 11:25	7439-97-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-3-GW **Lab ID: 60125643007** Collected: 07/17/12 16:17 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/24/12 00:00	08/06/12 18:46	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/06/12 18:46	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 18:46	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	78	%	42-120	1	07/24/12 00:00	08/06/12 18:46	4165-60-0	
2-Fluorobiphenyl (S)	76	%	44-120	1	07/24/12 00:00	08/06/12 18:46	321-60-8	
Terphenyl-d14 (S)	95	%	46-131	1	07/24/12 00:00	08/06/12 18:46	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		07/27/12 17:46	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/12 17:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/12 17:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/12 17:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/27/12 17:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/12 17:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/12 17:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/12 17:46	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/27/12 17:46	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/27/12 17:46	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/27/12 17:46	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		07/27/12 17:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/12 17:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/12 17:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/12 17:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/27/12 17:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/12 17:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/12 17:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/12 17:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		07/27/12 17:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/12 17:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/27/12 17:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/12 17:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 17:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 17:46	541-73-1	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-3-GW **Lab ID: 60125643007** Collected: 07/17/12 16:17 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 17:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/12 17:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/27/12 17:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/12 17:46	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		07/27/12 17:46	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/12 17:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/12 17:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/12 17:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/12 17:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/12 17:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/12 17:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/12 17:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/12 17:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/12 17:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 17:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/27/12 17:46	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		07/27/12 17:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/27/12 17:46	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/12 17:46	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		07/27/12 17:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/12 17:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/27/12 17:46	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/27/12 17:46	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/27/12 17:46	103-65-1	
Styrene	ND	ug/L	1.0	1		07/27/12 17:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/12 17:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/12 17:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/27/12 17:46	127-18-4	
Toluene	ND	ug/L	1.0	1		07/27/12 17:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/12 17:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/12 17:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/12 17:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/27/12 17:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/27/12 17:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/12 17:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		07/27/12 17:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/27/12 17:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/27/12 17:46	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		07/27/12 17:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 17:46	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	106	%	80-120	1		07/27/12 17:46	460-00-4	HS
Dibromofluoromethane (S)	96	%	80-120	1		07/27/12 17:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	93	%	80-120	1		07/27/12 17:46	17060-07-0	
Toluene-d8 (S)	98	%	80-120	1		07/27/12 17:46	2037-26-5	
Preservation pH	**1.0**		0.10	1		07/27/12 17:46		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-3-GW **Lab ID: 60125643007** Collected: 07/17/12 16:17 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		07/27/12 17:46		
Benzene	ND	ug/L	1.0	1		07/27/12 17:46	71-43-2	
Toluene	ND	ug/L	1.0	1		07/27/12 17:46	108-88-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 17:46	100-41-4	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 17:46	1330-20-7	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/27/12 17:46	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/27/12 17:46	91-20-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/12 17:46	107-06-2	
tert-Butyl Alcohol	ND	ug/L	10.0	1		07/27/12 17:46	75-65-0	
Surrogates								
Dibromofluoromethane (S)	96	%	80-120	1		07/27/12 17:46	1868-53-7	HS
Toluene-d8 (S)	98	%	80-120	1		07/27/12 17:46	2037-26-5	
4-Bromofluorobenzene (S)	106	%	80-120	1		07/27/12 17:46	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	80-120	1		07/27/12 17:46	17060-07-0	
Preservation pH	**1.0**		0.10	1		07/27/12 17:46		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-4-14-16 **Lab ID: 60125643008** Collected: 07/18/12 10:07 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	24.6	1	07/24/12 00:00	07/29/12 08:12	68334-30-5	
Fuel Oil	ND	mg/kg	24.6	1	07/24/12 00:00	07/29/12 08:12	68553-00-4	
Jet Fuel	ND	mg/kg	24.6	1	07/24/12 00:00	07/29/12 08:12	94114-58-6	
Kerosene	ND	mg/kg	24.6	1	07/24/12 00:00	07/29/12 08:12	8008-20-6	
Mineral Spirits	ND	mg/kg	24.6	1	07/24/12 00:00	07/29/12 08:12	8030-30-6	
Motor Oil	ND	mg/kg	24.6	1	07/24/12 00:00	07/29/12 08:12	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	24.6	1	07/24/12 00:00	07/29/12 08:12		
Surrogates								
n-Tetracosane (S)	89	%	50-137	1	07/24/12 00:00	07/29/12 08:12	646-31-1	
p-Terphenyl (S)	80	%	41-129	1	07/24/12 00:00	07/29/12 08:12	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	07/25/12 16:15	07/26/12 17:55	7440-36-0	
Arsenic	**5.5**	mg/kg	1.1	1	07/25/12 16:15	07/26/12 17:55	7440-38-2	
Beryllium	**0.70**	mg/kg	0.11	1	07/25/12 16:15	07/26/12 17:55	7440-41-7	
Cadmium	ND	mg/kg	0.56	1	07/25/12 16:15	07/26/12 17:55	7440-43-9	
Chromium	**17.0**	mg/kg	0.56	1	07/25/12 16:15	07/26/12 17:55	7440-47-3	
Copper	**14.4**	mg/kg	1.1	1	07/25/12 16:15	07/26/12 17:55	7440-50-8	
Lead	**11.0**	mg/kg	0.56	1	07/25/12 16:15	07/26/12 17:55	7439-92-1	
Nickel	**18.1**	mg/kg	0.56	1	07/25/12 16:15	07/26/12 17:55	7440-02-0	
Selenium	ND	mg/kg	1.7	1	07/25/12 16:15	07/26/12 17:55	7782-49-2	
Silver	ND	mg/kg	0.78	1	07/25/12 16:15	07/26/12 17:55	7440-22-4	
Thallium	ND	mg/kg	2.2	1	07/25/12 16:15	07/26/12 17:55	7440-28-0	
Zinc	**60.6**	mg/kg	11.1	1	07/25/12 16:15	07/26/12 17:55	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.054	1	07/26/12 12:50	07/26/12 16:56	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	83-32-9	
Acenaphthylene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	208-96-8	
Anthracene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	120-12-7	
Benzo(a)anthracene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	56-55-3	
Benzo(a)pyrene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	207-08-9	
Chrysene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	53-70-3	
Fluoranthene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	206-44-0	
Fluorene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	193-39-5	
Naphthalene	**15.9**	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	91-20-3	
Phenanthrene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	85-01-8	
Pyrene	ND	ug/kg	4.1	1	07/26/12 00:00	07/27/12 14:08	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-4-14-16 **Lab ID: 60125643008** Collected: 07/18/12 10:07 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	90	%	35-121	1	07/26/12 00:00	07/27/12 14:08	4165-60-0	
2-Fluorobiphenyl (S)	90	%	41-120	1	07/26/12 00:00	07/27/12 14:08	321-60-8	
Terphenyl-d14 (S)	86	%	39-123	1	07/26/12 00:00	07/27/12 14:08	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	ND	mg/kg	0.98	1		07/26/12 16:08		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	19.7	1		07/26/12 16:08	67-64-1	
Benzene	ND	ug/kg	4.9	1		07/26/12 16:08	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		07/26/12 16:08	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		07/26/12 16:08	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		07/26/12 16:08	75-27-4	
Bromoform	ND	ug/kg	4.9	1		07/26/12 16:08	75-25-2	
Bromomethane	ND	ug/kg	4.9	1		07/26/12 16:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.8	1		07/26/12 16:08	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		07/26/12 16:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		07/26/12 16:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		07/26/12 16:08	98-06-6	
Carbon disulfide	ND	ug/kg	4.9	1		07/26/12 16:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	1		07/26/12 16:08	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		07/26/12 16:08	108-90-7	
Chloroethane	ND	ug/kg	4.9	1		07/26/12 16:08	75-00-3	
Chloroform	ND	ug/kg	4.9	1		07/26/12 16:08	67-66-3	L2
Chloromethane	ND	ug/kg	4.9	1		07/26/12 16:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		07/26/12 16:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		07/26/12 16:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	9.8	1		07/26/12 16:08	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		07/26/12 16:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		07/26/12 16:08	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		07/26/12 16:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		07/26/12 16:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		07/26/12 16:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		07/26/12 16:08	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.9	1		07/26/12 16:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		07/26/12 16:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		07/26/12 16:08	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	4.9	1		07/26/12 16:08	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.9	1		07/26/12 16:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		07/26/12 16:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		07/26/12 16:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		07/26/12 16:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		07/26/12 16:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		07/26/12 16:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		07/26/12 16:08	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-4-14-16 **Lab ID: 60125643008** Collected: 07/18/12 10:07 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		07/26/12 16:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		07/26/12 16:08	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	1		07/26/12 16:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		07/26/12 16:08	87-68-3	
2-Hexanone	ND	ug/kg	19.7	1		07/26/12 16:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		07/26/12 16:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		07/26/12 16:08	99-87-6	
Methylene chloride	ND	ug/kg	4.9	1		07/26/12 16:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.8	1		07/26/12 16:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		07/26/12 16:08	1634-04-4	
Naphthalene	ND	ug/kg	9.8	1		07/26/12 16:08	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		07/26/12 16:08	103-65-1	
Styrene	ND	ug/kg	4.9	1		07/26/12 16:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		07/26/12 16:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		07/26/12 16:08	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		07/26/12 16:08	127-18-4	
Toluene	ND	ug/kg	4.9	1		07/26/12 16:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		07/26/12 16:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		07/26/12 16:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		07/26/12 16:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		07/26/12 16:08	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		07/26/12 16:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		07/26/12 16:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		07/26/12 16:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		07/26/12 16:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		07/26/12 16:08	108-67-8	
Vinyl chloride	ND	ug/kg	4.9	1		07/26/12 16:08	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	1		07/26/12 16:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%	78-122	1		07/26/12 16:08	1868-53-7	
Toluene-d8 (S)	102	%	80-123	1		07/26/12 16:08	2037-26-5	
4-Bromofluorobenzene (S)	100	%	78-125	1		07/26/12 16:08	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	73-135	1		07/26/12 16:08	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**21.0**	%	0.50	1		08/01/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-5-10-12 **Lab ID: 60125643009** Collected: 07/18/12 11:02 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	22.8	1	07/24/12 00:00	07/29/12 08:23	68334-30-5	
Fuel Oil	ND	mg/kg	22.8	1	07/24/12 00:00	07/29/12 08:23	68553-00-4	
Jet Fuel	ND	mg/kg	22.8	1	07/24/12 00:00	07/29/12 08:23	94114-58-6	
Kerosene	ND	mg/kg	22.8	1	07/24/12 00:00	07/29/12 08:23	8008-20-6	
Mineral Spirits	ND	mg/kg	22.8	1	07/24/12 00:00	07/29/12 08:23	8030-30-6	
Motor Oil	ND	mg/kg	22.8	1	07/24/12 00:00	07/29/12 08:23	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	22.8	1	07/24/12 00:00	07/29/12 08:23		
Surrogates								
n-Tetracosane (S)	88	%	50-137	1	07/24/12 00:00	07/29/12 08:23	646-31-1	
p-Terphenyl (S)	78	%	41-129	1	07/24/12 00:00	07/29/12 08:23	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	07/25/12 16:15	07/26/12 18:01	7440-36-0	
Arsenic	**6.0**	mg/kg	1.1	1	07/25/12 16:15	07/26/12 18:01	7440-38-2	
Beryllium	**0.78**	mg/kg	0.11	1	07/25/12 16:15	07/26/12 18:01	7440-41-7	
Cadmium	ND	mg/kg	0.53	1	07/25/12 16:15	07/26/12 18:01	7440-43-9	
Chromium	**17.8**	mg/kg	0.53	1	07/25/12 16:15	07/26/12 18:01	7440-47-3	
Copper	**15.0**	mg/kg	1.1	1	07/25/12 16:15	07/26/12 18:01	7440-50-8	
Lead	**12.4**	mg/kg	0.53	1	07/25/12 16:15	07/26/12 18:01	7439-92-1	
Nickel	**20.0**	mg/kg	0.53	1	07/25/12 16:15	07/26/12 18:01	7440-02-0	
Selenium	ND	mg/kg	1.6	1	07/25/12 16:15	07/26/12 18:01	7782-49-2	
Silver	ND	mg/kg	0.74	1	07/25/12 16:15	07/26/12 18:01	7440-22-4	
Thallium	ND	mg/kg	2.1	1	07/25/12 16:15	07/26/12 18:01	7440-28-0	
Zinc	**57.8**	mg/kg	10.6	1	07/25/12 16:15	07/26/12 18:01	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.049	1	07/26/12 12:50	07/26/12 17:00	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	83-32-9	
Acenaphthylene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	208-96-8	
Anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	120-12-7	
Benzo(a)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	56-55-3	
Benzo(a)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	207-08-9	
Chrysene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	53-70-3	
Fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	206-44-0	
Fluorene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	193-39-5	
Naphthalene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	91-20-3	
Phenanthrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	85-01-8	
Pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 14:28	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-5-10-12 **Lab ID: 60125643009** Collected: 07/18/12 11:02 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	81	%	35-121	1	07/26/12 00:00	07/27/12 14:28	4165-60-0	
2-Fluorobiphenyl (S)	77	%	41-120	1	07/26/12 00:00	07/27/12 14:28	321-60-8	
Terphenyl-d14 (S)	67	%	39-123	1	07/26/12 00:00	07/27/12 14:28	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	ND	mg/kg	1.1	1		07/26/12 16:24		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	21.1	1		07/26/12 16:24	67-64-1	
Benzene	ND	ug/kg	5.3	1		07/26/12 16:24	71-43-2	
Bromobenzene	ND	ug/kg	5.3	1		07/26/12 16:24	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		07/26/12 16:24	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		07/26/12 16:24	75-27-4	
Bromoform	ND	ug/kg	5.3	1		07/26/12 16:24	75-25-2	
Bromomethane	ND	ug/kg	5.3	1		07/26/12 16:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.6	1		07/26/12 16:24	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		07/26/12 16:24	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1		07/26/12 16:24	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		07/26/12 16:24	98-06-6	
Carbon disulfide	ND	ug/kg	5.3	1		07/26/12 16:24	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.3	1		07/26/12 16:24	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		07/26/12 16:24	108-90-7	
Chloroethane	ND	ug/kg	5.3	1		07/26/12 16:24	75-00-3	
Chloroform	ND	ug/kg	5.3	1		07/26/12 16:24	67-66-3	L2
Chloromethane	ND	ug/kg	5.3	1		07/26/12 16:24	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		07/26/12 16:24	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		07/26/12 16:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.6	1		07/26/12 16:24	96-12-8	
Dibromochloromethane	ND	ug/kg	5.3	1		07/26/12 16:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		07/26/12 16:24	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		07/26/12 16:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		07/26/12 16:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		07/26/12 16:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		07/26/12 16:24	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.3	1		07/26/12 16:24	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		07/26/12 16:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		07/26/12 16:24	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.3	1		07/26/12 16:24	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.3	1		07/26/12 16:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1		07/26/12 16:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		07/26/12 16:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		07/26/12 16:24	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		07/26/12 16:24	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		07/26/12 16:24	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		07/26/12 16:24	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-5-10-12 **Lab ID: 60125643009** Collected: 07/18/12 11:02 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		07/26/12 16:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		07/26/12 16:24	10061-02-6	
Ethylbenzene	ND	ug/kg	5.3	1		07/26/12 16:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		07/26/12 16:24	87-68-3	
2-Hexanone	ND	ug/kg	21.1	1		07/26/12 16:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		07/26/12 16:24	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		07/26/12 16:24	99-87-6	
Methylene chloride	ND	ug/kg	5.3	1		07/26/12 16:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.6	1		07/26/12 16:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		07/26/12 16:24	1634-04-4	
Naphthalene	ND	ug/kg	10.6	1		07/26/12 16:24	91-20-3	
n-Propylbenzene	ND	ug/kg	5.3	1		07/26/12 16:24	103-65-1	
Styrene	ND	ug/kg	5.3	1		07/26/12 16:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		07/26/12 16:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		07/26/12 16:24	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1		07/26/12 16:24	127-18-4	
Toluene	ND	ug/kg	5.3	1		07/26/12 16:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		07/26/12 16:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		07/26/12 16:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		07/26/12 16:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		07/26/12 16:24	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1		07/26/12 16:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		07/26/12 16:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		07/26/12 16:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		07/26/12 16:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		07/26/12 16:24	108-67-8	
Vinyl chloride	ND	ug/kg	5.3	1		07/26/12 16:24	75-01-4	
Xylene (Total)	ND	ug/kg	5.3	1		07/26/12 16:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%	78-122	1		07/26/12 16:24	1868-53-7	
Toluene-d8 (S)	103	%	80-123	1		07/26/12 16:24	2037-26-5	
4-Bromofluorobenzene (S)	101	%	78-125	1		07/26/12 16:24	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	73-135	1		07/26/12 16:24	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**21.1**	%	0.50	1		08/01/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-5-GW **Lab ID: 60125643010** Collected: 07/18/12 10:42 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.44	1	07/24/12 00:00	07/25/12 05:21	68334-30-5	
Fuel Oil	ND	mg/L	0.44	1	07/24/12 00:00	07/25/12 05:21	68553-00-4	
Jet Fuel	ND	mg/L	0.44	1	07/24/12 00:00	07/25/12 05:21	94114-58-6	
Kerosene	ND	mg/L	0.44	1	07/24/12 00:00	07/25/12 05:21	8008-20-6	
Mineral Spirits	ND	mg/L	0.44	1	07/24/12 00:00	07/25/12 05:21	8030-30-6	
Motor Oil	ND	mg/L	0.44	1	07/24/12 00:00	07/25/12 05:21	64742-65-0	
Total Petroleum Hydrocarbons	**0.56**	mg/L	0.44	1	07/24/12 00:00	07/25/12 05:21		3e
Surrogates								
p-Terphenyl (S)	61	%	20-122	1	07/24/12 00:00	07/25/12 05:21	92-94-4	
n-Tetracosane (S)	61	%	30-122	1	07/24/12 00:00	07/25/12 05:21	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:31	7440-36-0	
Arsenic	**16.8**	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:31	7440-38-2	
Beryllium	**18.1**	ug/L	1.0	1	07/26/12 14:30	07/27/12 12:31	7440-41-7	
Cadmium	**97.9**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:31	7440-43-9	
Chromium	**76.7**	ug/L	15.0	3	07/26/12 14:30	07/30/12 15:32	7440-47-3	
Copper	**498**	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:31	7440-50-8	
Lead	**47.2**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:31	7439-92-1	
Nickel	**385**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:31	7440-02-0	
Selenium	ND	ug/L	45.0	3	07/26/12 14:30	07/30/12 15:32	7782-49-2	D3
Silver	ND	ug/L	7.0	1	07/26/12 14:30	07/27/12 12:31	7440-22-4	
Thallium	ND	ug/L	60.0	3	07/26/12 14:30	07/30/12 15:32	7440-28-0	
Zinc	**3230**	ug/L	50.0	1	07/26/12 14:30	07/27/12 12:31	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:45	7440-36-0	
Arsenic, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:45	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	07/26/12 14:30	07/30/12 16:45	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:45	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:45	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:45	7440-50-8	
Lead, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:45	7439-92-1	
Nickel, Dissolved	**12.4**	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:45	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	07/26/12 14:30	07/30/12 16:45	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	07/26/12 14:30	07/30/12 16:45	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	07/26/12 14:30	07/30/12 16:45	7440-28-0	
Zinc, Dissolved	**81.7**	ug/L	50.0	1	07/26/12 14:30	07/30/12 16:45	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**2.4**	ug/L	0.20	1	07/24/12 09:15	07/24/12 15:40	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	08/01/12 06:30	08/03/12 11:27	7439-97-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-5-GW **Lab ID: 60125643010** Collected: 07/18/12 10:42 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	53-70-3	
Fluoranthene	**0.16**	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/24/12 00:00	08/06/12 19:03	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/06/12 19:03	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:03	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	70	%	42-120	1	07/24/12 00:00	08/06/12 19:03	4165-60-0	
2-Fluorobiphenyl (S)	70	%	44-120	1	07/24/12 00:00	08/06/12 19:03	321-60-8	
Terphenyl-d14 (S)	83	%	46-131	1	07/24/12 00:00	08/06/12 19:03	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		07/27/12 14:26	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/12 14:26	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/12 14:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/12 14:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/27/12 14:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/12 14:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/12 14:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/12 14:26	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/27/12 14:26	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/27/12 14:26	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/27/12 14:26	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		07/27/12 14:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/12 14:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/12 14:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/12 14:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/27/12 14:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/12 14:26	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/12 14:26	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/12 14:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		07/27/12 14:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/12 14:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/27/12 14:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/12 14:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:26	541-73-1	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-5-GW **Lab ID: 60125643010** Collected: 07/18/12 10:42 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/12 14:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/27/12 14:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/12 14:26	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		07/27/12 14:26	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/12 14:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/12 14:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/12 14:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/12 14:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/12 14:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/12 14:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/12 14:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/12 14:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/12 14:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 14:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/27/12 14:26	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		07/27/12 14:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/27/12 14:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/12 14:26	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		07/27/12 14:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/12 14:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/27/12 14:26	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/27/12 14:26	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/27/12 14:26	103-65-1	
Styrene	ND	ug/L	1.0	1		07/27/12 14:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/12 14:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/12 14:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/27/12 14:26	127-18-4	
Toluene	ND	ug/L	1.0	1		07/27/12 14:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/12 14:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/27/12 14:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/27/12 14:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/12 14:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		07/27/12 14:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/27/12 14:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/27/12 14:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		07/27/12 14:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 14:26	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		07/27/12 14:26	460-00-4	
Dibromofluoromethane (S)	97	%	80-120	1		07/27/12 14:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	87	%	80-120	1		07/27/12 14:26	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		07/27/12 14:26	2037-26-5	
Preservation pH	**1.0**		0.10	1		07/27/12 14:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-5-GW **Lab ID: 60125643010** Collected: 07/18/12 10:42 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		07/27/12 14:26		
Benzene	ND	ug/L	1.0	1		07/27/12 14:26	71-43-2	
Toluene	ND	ug/L	1.0	1		07/27/12 14:26	108-88-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 14:26	100-41-4	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 14:26	1330-20-7	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/27/12 14:26	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/27/12 14:26	91-20-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/12 14:26	107-06-2	
tert-Butyl Alcohol	ND	ug/L	10.0	1		07/27/12 14:26	75-65-0	
Surrogates								
Dibromofluoromethane (S)	97	%	80-120	1		07/27/12 14:26	1868-53-7	
Toluene-d8 (S)	99	%	80-120	1		07/27/12 14:26	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	1		07/27/12 14:26	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	80-120	1		07/27/12 14:26	17060-07-0	
Preservation pH	**1.0**		0.10	1		07/27/12 14:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-6-14-16 **Lab ID: 60125643011** Collected: 07/18/12 12:00 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	23.5	1	07/24/12 00:00	07/29/12 08:34	68334-30-5	
Fuel Oil	ND	mg/kg	23.5	1	07/24/12 00:00	07/29/12 08:34	68553-00-4	
Jet Fuel	ND	mg/kg	23.5	1	07/24/12 00:00	07/29/12 08:34	94114-58-6	
Kerosene	ND	mg/kg	23.5	1	07/24/12 00:00	07/29/12 08:34	8008-20-6	
Mineral Spirits	ND	mg/kg	23.5	1	07/24/12 00:00	07/29/12 08:34	8030-30-6	
Motor Oil	ND	mg/kg	23.5	1	07/24/12 00:00	07/29/12 08:34	64742-65-0	
Total Petroleum Hydrocarbons	**3640**	mg/kg	23.5	1	07/24/12 00:00	07/29/12 08:34		2e
Surrogates								
n-Tetracosane (S)	136	%	50-137	1	07/24/12 00:00	07/29/12 08:34	646-31-1	
p-Terphenyl (S)	131	%	41-129	1	07/24/12 00:00	07/29/12 08:34	92-94-4	1e,S0
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.2	1	07/25/12 16:15	07/26/12 18:03	7440-36-0	
Arsenic	**4.7**	mg/kg	1.2	1	07/25/12 16:15	07/26/12 18:03	7440-38-2	
Beryllium	**0.74**	mg/kg	0.12	1	07/25/12 16:15	07/26/12 18:03	7440-41-7	
Cadmium	ND	mg/kg	0.58	1	07/25/12 16:15	07/26/12 18:03	7440-43-9	
Chromium	**20.3**	mg/kg	0.58	1	07/25/12 16:15	07/26/12 18:03	7440-47-3	
Copper	**14.5**	mg/kg	1.2	1	07/25/12 16:15	07/26/12 18:03	7440-50-8	
Lead	**10.6**	mg/kg	0.58	1	07/25/12 16:15	07/26/12 18:03	7439-92-1	
Nickel	**19.6**	mg/kg	0.58	1	07/25/12 16:15	07/26/12 18:03	7440-02-0	
Selenium	ND	mg/kg	1.7	1	07/25/12 16:15	07/26/12 18:03	7782-49-2	
Silver	ND	mg/kg	0.81	1	07/25/12 16:15	07/26/12 18:03	7440-22-4	
Thallium	ND	mg/kg	2.3	1	07/25/12 16:15	07/26/12 18:03	7440-28-0	
Zinc	**57.6**	mg/kg	11.5	1	07/25/12 16:15	07/26/12 18:03	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.053	1	07/26/12 12:50	07/26/12 17:03	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**82.6**	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	83-32-9	
Acenaphthylene	**42.2**	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	208-96-8	
Anthracene	**32.5**	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	120-12-7	
Benzo(a)anthracene	ND	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	56-55-3	
Benzo(a)pyrene	ND	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	207-08-9	
Chrysene	**104**	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	53-70-3	
Fluoranthene	**25.6**	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	206-44-0	
Fluorene	**261**	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	193-39-5	
Naphthalene	**268**	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	91-20-3	
Phenanthrene	**804**	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	85-01-8	
Pyrene	**24.0**	ug/kg	20.9	5	07/26/12 00:00	07/28/12 20:24	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-6-14-16 **Lab ID: 60125643011** Collected: 07/18/12 12:00 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	0	%	35-121	5	07/26/12 00:00	07/28/12 20:24	4165-60-0	S4
2-Fluorobiphenyl (S)	0	%	41-120	5	07/26/12 00:00	07/28/12 20:24	321-60-8	S4
Terphenyl-d14 (S)	0	%	39-123	5	07/26/12 00:00	07/28/12 20:24	1718-51-0	S4
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	**640**	mg/kg	58.0	50		07/26/12 16:39		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	1160	50		07/26/12 16:39	67-64-1	
Benzene	ND	ug/kg	290	50		07/26/12 16:39	71-43-2	
Bromobenzene	ND	ug/kg	290	50		07/26/12 16:39	108-86-1	
Bromochloromethane	ND	ug/kg	290	50		07/26/12 16:39	74-97-5	
Bromodichloromethane	ND	ug/kg	290	50		07/26/12 16:39	75-27-4	
Bromoform	ND	ug/kg	290	50		07/26/12 16:39	75-25-2	
Bromomethane	ND	ug/kg	290	50		07/26/12 16:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	580	50		07/26/12 16:39	78-93-3	
n-Butylbenzene	ND	ug/kg	290	50		07/26/12 16:39	104-51-8	
sec-Butylbenzene	**662**	ug/kg	290	50		07/26/12 16:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	290	50		07/26/12 16:39	98-06-6	
Carbon disulfide	ND	ug/kg	290	50		07/26/12 16:39	75-15-0	
Carbon tetrachloride	ND	ug/kg	290	50		07/26/12 16:39	56-23-5	
Chlorobenzene	ND	ug/kg	290	50		07/26/12 16:39	108-90-7	
Chloroethane	ND	ug/kg	290	50		07/26/12 16:39	75-00-3	
Chloroform	ND	ug/kg	290	50		07/26/12 16:39	67-66-3	L2
Chloromethane	ND	ug/kg	290	50		07/26/12 16:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	290	50		07/26/12 16:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	290	50		07/26/12 16:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	580	50		07/26/12 16:39	96-12-8	
Dibromochloromethane	ND	ug/kg	290	50		07/26/12 16:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	290	50		07/26/12 16:39	106-93-4	
Dibromomethane	ND	ug/kg	290	50		07/26/12 16:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	290	50		07/26/12 16:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	290	50		07/26/12 16:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	290	50		07/26/12 16:39	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	290	50		07/26/12 16:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	290	50		07/26/12 16:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	290	50		07/26/12 16:39	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	290	50		07/26/12 16:39	540-59-0	
1,1-Dichloroethene	ND	ug/kg	290	50		07/26/12 16:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	290	50		07/26/12 16:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	290	50		07/26/12 16:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	290	50		07/26/12 16:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	290	50		07/26/12 16:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	290	50		07/26/12 16:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	290	50		07/26/12 16:39	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-6-14-16 **Lab ID: 60125643011** Collected: 07/18/12 12:00 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	290	50		07/26/12 16:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	290	50		07/26/12 16:39	10061-02-6	
Ethylbenzene	ND	ug/kg	290	50		07/26/12 16:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	290	50		07/26/12 16:39	87-68-3	
2-Hexanone	ND	ug/kg	1160	50		07/26/12 16:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	290	50		07/26/12 16:39	98-82-8	
p-Isopropyltoluene	ND	ug/kg	290	50		07/26/12 16:39	99-87-6	
Methylene chloride	ND	ug/kg	290	50		07/26/12 16:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	580	50		07/26/12 16:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	290	50		07/26/12 16:39	1634-04-4	
Naphthalene	ND	ug/kg	580	50		07/26/12 16:39	91-20-3	
n-Propylbenzene	ND	ug/kg	290	50		07/26/12 16:39	103-65-1	
Styrene	ND	ug/kg	290	50		07/26/12 16:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	290	50		07/26/12 16:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	290	50		07/26/12 16:39	79-34-5	
Tetrachloroethene	ND	ug/kg	290	50		07/26/12 16:39	127-18-4	
Toluene	ND	ug/kg	290	50		07/26/12 16:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	290	50		07/26/12 16:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	290	50		07/26/12 16:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	290	50		07/26/12 16:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	290	50		07/26/12 16:39	79-00-5	
Trichloroethene	ND	ug/kg	290	50		07/26/12 16:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	290	50		07/26/12 16:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	290	50		07/26/12 16:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	290	50		07/26/12 16:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	290	50		07/26/12 16:39	108-67-8	
Vinyl chloride	ND	ug/kg	290	50		07/26/12 16:39	75-01-4	
Xylene (Total)	ND	ug/kg	290	50		07/26/12 16:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%	78-122	50		07/26/12 16:39	1868-53-7	D3
Toluene-d8 (S)	115	%	80-123	50		07/26/12 16:39	2037-26-5	
4-Bromofluorobenzene (S)	97	%	78-125	50		07/26/12 16:39	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	73-135	50		07/26/12 16:39	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**21.2**	%	0.50	1		08/01/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-6-GW **Lab ID: 60125643012** Collected: 07/18/12 12:02 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 05:32	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 05:32	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 05:32	94114-58-6	
Kerosene	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 05:32	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 05:32	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 05:32	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/L	0.40	1	07/24/12 00:00	07/25/12 05:32		
Surrogates								
p-Terphenyl (S)	60	%	20-122	1	07/24/12 00:00	07/25/12 05:32	92-94-4	
n-Tetracosane (S)	58	%	30-122	1	07/24/12 00:00	07/25/12 05:32	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:33	7440-36-0	
Arsenic	**18.2**	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:33	7440-38-2	
Beryllium	**1.6**	ug/L	1.0	1	07/26/12 14:30	07/27/12 12:33	7440-41-7	
Cadmium	**10.9**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:33	7440-43-9	
Chromium	**22.1**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:33	7440-47-3	
Copper	**251**	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:33	7440-50-8	
Lead	**24.8**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:33	7439-92-1	
Nickel	**75.4**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:33	7440-02-0	
Selenium	ND	ug/L	15.0	1	07/26/12 14:30	07/27/12 12:33	7782-49-2	
Silver	ND	ug/L	7.0	1	07/26/12 14:30	07/27/12 12:33	7440-22-4	
Thallium	ND	ug/L	20.0	1	07/26/12 14:30	07/27/12 12:33	7440-28-0	
Zinc	**273**	ug/L	50.0	1	07/26/12 14:30	07/27/12 12:33	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:48	7440-36-0	
Arsenic, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:48	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	07/26/12 14:30	07/30/12 16:48	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:48	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:48	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:48	7440-50-8	
Lead, Dissolved	**34.8**	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:48	7439-92-1	D9
Nickel, Dissolved	**10.3**	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:48	7440-02-0	
Selenium, Dissolved	**22.7**	ug/L	15.0	1	07/26/12 14:30	07/30/12 16:48	7782-49-2	D9
Silver, Dissolved	ND	ug/L	7.0	1	07/26/12 14:30	07/30/12 16:48	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	07/26/12 14:30	07/30/12 16:48	7440-28-0	
Zinc, Dissolved	**91.5**	ug/L	50.0	1	07/26/12 14:30	07/30/12 16:48	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.46**	ug/L	0.20	1	07/24/12 09:15	07/24/12 15:47	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	08/01/12 06:30	08/03/12 11:29	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-6-GW **Lab ID: 60125643012** Collected: 07/18/12 12:02 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/24/12 00:00	08/06/12 19:21	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/06/12 19:21	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:21	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	79	%	42-120	1	07/24/12 00:00	08/06/12 19:21	4165-60-0	
2-Fluorobiphenyl (S)	72	%	44-120	1	07/24/12 00:00	08/06/12 19:21	321-60-8	
Terphenyl-d14 (S)	83	%	46-131	1	07/24/12 00:00	08/06/12 19:21	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		07/27/12 14:41	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/12 14:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/12 14:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/12 14:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/27/12 14:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/12 14:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/12 14:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/12 14:41	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/27/12 14:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/27/12 14:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/27/12 14:41	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		07/27/12 14:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/12 14:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/12 14:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/12 14:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/27/12 14:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/12 14:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/12 14:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/12 14:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		07/27/12 14:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/12 14:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/27/12 14:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/12 14:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:41	541-73-1	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-6-GW **Lab ID: 60125643012** Collected: 07/18/12 12:02 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/12 14:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/27/12 14:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/12 14:41	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		07/27/12 14:41	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/12 14:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/12 14:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/12 14:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/12 14:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/12 14:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/12 14:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/12 14:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/12 14:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/12 14:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 14:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/27/12 14:41	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		07/27/12 14:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/27/12 14:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/12 14:41	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		07/27/12 14:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/12 14:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/27/12 14:41	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/27/12 14:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/27/12 14:41	103-65-1	
Styrene	ND	ug/L	1.0	1		07/27/12 14:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/12 14:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/12 14:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/27/12 14:41	127-18-4	
Toluene	ND	ug/L	1.0	1		07/27/12 14:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/12 14:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/27/12 14:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/27/12 14:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/12 14:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		07/27/12 14:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/27/12 14:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/27/12 14:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		07/27/12 14:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 14:41	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		07/27/12 14:41	460-00-4	
Dibromofluoromethane (S)	96	%	80-120	1		07/27/12 14:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	86	%	80-120	1		07/27/12 14:41	17060-07-0	
Toluene-d8 (S)	101	%	80-120	1		07/27/12 14:41	2037-26-5	
Preservation pH	**1.0**		0.10	1		07/27/12 14:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-6-GW **Lab ID: 60125643012** Collected: 07/18/12 12:02 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		07/27/12 14:41		
Benzene	ND	ug/L	1.0	1		07/27/12 14:41	71-43-2	
Toluene	ND	ug/L	1.0	1		07/27/12 14:41	108-88-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 14:41	100-41-4	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 14:41	1330-20-7	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/27/12 14:41	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/27/12 14:41	91-20-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/12 14:41	107-06-2	
tert-Butyl Alcohol	ND	ug/L	10.0	1		07/27/12 14:41	75-65-0	
Surrogates								
Dibromofluoromethane (S)	96	%	80-120	1		07/27/12 14:41	1868-53-7	
Toluene-d8 (S)	101	%	80-120	1		07/27/12 14:41	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120	1		07/27/12 14:41	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	80-120	1		07/27/12 14:41	17060-07-0	
Preservation pH	**1.0**		0.10	1		07/27/12 14:41		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-7-10-12 **Lab ID: 60125643013** Collected: 07/18/12 14:23 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	239	10	07/24/12 00:00	07/30/12 02:17	68334-30-5	
Fuel Oil	ND	mg/kg	239	10	07/24/12 00:00	07/30/12 02:17	68553-00-4	
Jet Fuel	ND	mg/kg	239	10	07/24/12 00:00	07/30/12 02:17	94114-58-6	
Kerosene	ND	mg/kg	239	10	07/24/12 00:00	07/30/12 02:17	8008-20-6	
Mineral Spirits	ND	mg/kg	239	10	07/24/12 00:00	07/30/12 02:17	8030-30-6	
Motor Oil	ND	mg/kg	239	10	07/24/12 00:00	07/30/12 02:17	64742-65-0	
Total Petroleum Hydrocarbons	**7970**	mg/kg	239	10	07/24/12 00:00	07/30/12 02:17		2e
Surrogates								
n-Tetracosane (S)	0	%	50-137	10	07/24/12 00:00	07/30/12 02:17	646-31-1	D4,S4
p-Terphenyl (S)	0	%	41-129	10	07/24/12 00:00	07/30/12 02:17	92-94-4	S4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.0	1	07/25/12 16:15	07/26/12 18:05	7440-36-0	
Arsenic	**4.1**	mg/kg	1.0	1	07/25/12 16:15	07/26/12 18:05	7440-38-2	
Beryllium	**0.73**	mg/kg	0.10	1	07/25/12 16:15	07/26/12 18:05	7440-41-7	
Cadmium	ND	mg/kg	0.52	1	07/25/12 16:15	07/26/12 18:05	7440-43-9	
Chromium	**16.2**	mg/kg	0.52	1	07/25/12 16:15	07/26/12 18:05	7440-47-3	
Copper	**13.4**	mg/kg	1.0	1	07/25/12 16:15	07/26/12 18:05	7440-50-8	
Lead	**14.0**	mg/kg	0.52	1	07/25/12 16:15	07/26/12 18:05	7439-92-1	
Nickel	**17.5**	mg/kg	0.52	1	07/25/12 16:15	07/26/12 18:05	7440-02-0	
Selenium	ND	mg/kg	1.6	1	07/25/12 16:15	07/26/12 18:05	7782-49-2	
Silver	ND	mg/kg	0.72	1	07/25/12 16:15	07/26/12 18:05	7440-22-4	
Thallium	ND	mg/kg	2.1	1	07/25/12 16:15	07/26/12 18:05	7440-28-0	
Zinc	**49.8**	mg/kg	10.3	1	07/25/12 16:15	07/26/12 18:05	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.056	1	07/26/12 12:50	07/26/12 17:05	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**290**	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	83-32-9	
Acenaphthylene	ND	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	208-96-8	
Anthracene	**414**	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	120-12-7	
Benzo(a)anthracene	**356**	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	56-55-3	
Benzo(a)pyrene	**455**	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	50-32-8	
Benzo(b)fluoranthene	**397**	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	205-99-2	
Benzo(g,h,i)perylene	**579**	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	207-08-9	
Chrysene	**969**	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	53-70-3	
Fluoranthene	**281**	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	206-44-0	
Fluorene	**574**	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	193-39-5	
Naphthalene	**887**	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	91-20-3	
Phenanthrene	**2120**	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	85-01-8	
Pyrene	**1620**	ug/kg	200	10	07/26/12 00:00	07/27/12 15:09	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-7-10-12 **Lab ID: 60125643013** Collected: 07/18/12 14:23 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	0	%	35-121	10	07/26/12 00:00	07/27/12 15:09	4165-60-0	P3,S4
2-Fluorobiphenyl (S)	0	%	41-120	10	07/26/12 00:00	07/27/12 15:09	321-60-8	S4
Terphenyl-d14 (S)	0	%	39-123	10	07/26/12 00:00	07/27/12 15:09	1718-51-0	S4
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	**539**	mg/kg	62.0	50		07/26/12 16:54		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	1240	50		07/26/12 16:54	67-64-1	
Benzene	ND	ug/kg	310	50		07/26/12 16:54	71-43-2	
Bromobenzene	ND	ug/kg	310	50		07/26/12 16:54	108-86-1	
Bromochloromethane	ND	ug/kg	310	50		07/26/12 16:54	74-97-5	
Bromodichloromethane	ND	ug/kg	310	50		07/26/12 16:54	75-27-4	
Bromoform	ND	ug/kg	310	50		07/26/12 16:54	75-25-2	
Bromomethane	ND	ug/kg	310	50		07/26/12 16:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	620	50		07/26/12 16:54	78-93-3	
n-Butylbenzene	**700**	ug/kg	310	50		07/26/12 16:54	104-51-8	
sec-Butylbenzene	**1310**	ug/kg	310	50		07/26/12 16:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	310	50		07/26/12 16:54	98-06-6	
Carbon disulfide	ND	ug/kg	310	50		07/26/12 16:54	75-15-0	
Carbon tetrachloride	ND	ug/kg	310	50		07/26/12 16:54	56-23-5	
Chlorobenzene	ND	ug/kg	310	50		07/26/12 16:54	108-90-7	
Chloroethane	ND	ug/kg	310	50		07/26/12 16:54	75-00-3	
Chloroform	ND	ug/kg	310	50		07/26/12 16:54	67-66-3	L2
Chloromethane	ND	ug/kg	310	50		07/26/12 16:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	310	50		07/26/12 16:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	310	50		07/26/12 16:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	620	50		07/26/12 16:54	96-12-8	
Dibromochloromethane	ND	ug/kg	310	50		07/26/12 16:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	310	50		07/26/12 16:54	106-93-4	
Dibromomethane	ND	ug/kg	310	50		07/26/12 16:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	310	50		07/26/12 16:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	310	50		07/26/12 16:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	310	50		07/26/12 16:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	310	50		07/26/12 16:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	310	50		07/26/12 16:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	310	50		07/26/12 16:54	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	310	50		07/26/12 16:54	540-59-0	
1,1-Dichloroethene	ND	ug/kg	310	50		07/26/12 16:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	310	50		07/26/12 16:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	310	50		07/26/12 16:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	310	50		07/26/12 16:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	310	50		07/26/12 16:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	310	50		07/26/12 16:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	310	50		07/26/12 16:54	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-7-10-12 **Lab ID: 60125643013** Collected: 07/18/12 14:23 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	310	50		07/26/12 16:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	310	50		07/26/12 16:54	10061-02-6	
Ethylbenzene	ND	ug/kg	310	50		07/26/12 16:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	310	50		07/26/12 16:54	87-68-3	
2-Hexanone	ND	ug/kg	1240	50		07/26/12 16:54	591-78-6	
Isopropylbenzene (Cumene)	**331**	ug/kg	310	50		07/26/12 16:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	310	50		07/26/12 16:54	99-87-6	
Methylene chloride	ND	ug/kg	310	50		07/26/12 16:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	620	50		07/26/12 16:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	310	50		07/26/12 16:54	1634-04-4	
Naphthalene	ND	ug/kg	620	50		07/26/12 16:54	91-20-3	
n-Propylbenzene	ND	ug/kg	310	50		07/26/12 16:54	103-65-1	
Styrene	ND	ug/kg	310	50		07/26/12 16:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	310	50		07/26/12 16:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	310	50		07/26/12 16:54	79-34-5	
Tetrachloroethene	ND	ug/kg	310	50		07/26/12 16:54	127-18-4	
Toluene	ND	ug/kg	310	50		07/26/12 16:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	310	50		07/26/12 16:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	310	50		07/26/12 16:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	310	50		07/26/12 16:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	310	50		07/26/12 16:54	79-00-5	
Trichloroethene	ND	ug/kg	310	50		07/26/12 16:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	310	50		07/26/12 16:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	310	50		07/26/12 16:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	310	50		07/26/12 16:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	310	50		07/26/12 16:54	108-67-8	
Vinyl chloride	ND	ug/kg	310	50		07/26/12 16:54	75-01-4	
Xylene (Total)	ND	ug/kg	310	50		07/26/12 16:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	89	%	78-122	50		07/26/12 16:54	1868-53-7	D3
Toluene-d8 (S)	113	%	80-123	50		07/26/12 16:54	2037-26-5	
4-Bromofluorobenzene (S)	96	%	78-125	50		07/26/12 16:54	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	73-135	50		07/26/12 16:54	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**19.5**	%	0.50	1		08/01/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-7-GW **Lab ID: 60125643014** Collected: 07/18/12 15:07 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.50	1	07/24/12 00:00	07/25/12 05:43	68334-30-5	
Fuel Oil	ND	mg/L	0.50	1	07/24/12 00:00	07/25/12 05:43	68553-00-4	
Jet Fuel	ND	mg/L	0.50	1	07/24/12 00:00	07/25/12 05:43	94114-58-6	
Kerosene	ND	mg/L	0.50	1	07/24/12 00:00	07/25/12 05:43	8008-20-6	
Mineral Spirits	ND	mg/L	0.50	1	07/24/12 00:00	07/25/12 05:43	8030-30-6	
Motor Oil	ND	mg/L	0.50	1	07/24/12 00:00	07/25/12 05:43	64742-65-0	
Total Petroleum Hydrocarbons	**0.51**	mg/L	0.50	1	07/24/12 00:00	07/25/12 05:43		3e
Surrogates								
p-Terphenyl (S)	61	%	20-122	1	07/24/12 00:00	07/25/12 05:43	92-94-4	
n-Tetracosane (S)	61	%	30-122	1	07/24/12 00:00	07/25/12 05:43	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:40	7440-36-0	
Arsenic	**42.1**	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:40	7440-38-2	
Beryllium	ND	ug/L	1.0	1	07/26/12 14:30	07/27/12 12:40	7440-41-7	
Cadmium	ND	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:40	7440-43-9	
Chromium	**27.4**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:40	7440-47-3	
Copper	**29.5**	ug/L	10.0	1	07/26/12 14:30	07/27/12 12:40	7440-50-8	
Lead	**24.5**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:40	7439-92-1	
Nickel	**81.1**	ug/L	5.0	1	07/26/12 14:30	07/27/12 12:40	7440-02-0	
Selenium	ND	ug/L	15.0	1	07/26/12 14:30	07/27/12 12:40	7782-49-2	
Silver	ND	ug/L	7.0	1	07/26/12 14:30	07/27/12 12:40	7440-22-4	
Thallium	ND	ug/L	20.0	1	07/26/12 14:30	07/27/12 12:40	7440-28-0	
Zinc	**313**	ug/L	50.0	1	07/26/12 14:30	07/27/12 12:40	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:52	7440-36-0	
Arsenic, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:52	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	07/26/12 14:30	07/30/12 16:52	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:52	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:52	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/26/12 14:30	07/30/12 16:52	7440-50-8	
Lead, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:52	7439-92-1	
Nickel, Dissolved	ND	ug/L	5.0	1	07/26/12 14:30	07/30/12 16:52	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	07/26/12 14:30	07/30/12 16:52	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	07/26/12 14:30	07/30/12 16:52	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	07/26/12 14:30	07/30/12 16:52	7440-28-0	
Zinc, Dissolved	**60.2**	ug/L	50.0	1	07/26/12 14:30	07/30/12 16:52	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.43**	ug/L	0.20	1	07/24/12 09:15	07/24/12 15:49	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	08/01/12 06:30	08/03/12 11:36	7439-97-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-7-GW **Lab ID: 60125643014** Collected: 07/18/12 15:07 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	53-70-3	
Fluoranthene	**0.13**	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/24/12 00:00	08/06/12 19:38	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/24/12 00:00	08/06/12 19:38	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/24/12 00:00	08/06/12 19:38	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	78	%	42-120	1	07/24/12 00:00	08/06/12 19:38	4165-60-0	
2-Fluorobiphenyl (S)	73	%	44-120	1	07/24/12 00:00	08/06/12 19:38	321-60-8	
Terphenyl-d14 (S)	77	%	46-131	1	07/24/12 00:00	08/06/12 19:38	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		07/27/12 14:56	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/12 14:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/12 14:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/12 14:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/27/12 14:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/12 14:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/12 14:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/12 14:56	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/27/12 14:56	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/27/12 14:56	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/27/12 14:56	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		07/27/12 14:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/12 14:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/12 14:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/12 14:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/27/12 14:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/12 14:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/12 14:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/12 14:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		07/27/12 14:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/12 14:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/27/12 14:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/12 14:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:56	541-73-1	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-7-GW **Lab ID: 60125643014** Collected: 07/18/12 15:07 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/12 14:56	75-71-8	
1,1-Dichloroethane	**1.1**	ug/L	1.0	1		07/27/12 14:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/12 14:56	107-06-2	
1,2-Dichloroethene (Total)	**25.5**	ug/L	1.0	1		07/27/12 14:56	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/12 14:56	75-35-4	
cis-1,2-Dichloroethene	**25.3**	ug/L	1.0	1		07/27/12 14:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/12 14:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/12 14:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/12 14:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/12 14:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/12 14:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/12 14:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/12 14:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 14:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/27/12 14:56	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		07/27/12 14:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/27/12 14:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/12 14:56	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		07/27/12 14:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/12 14:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/27/12 14:56	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/27/12 14:56	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/27/12 14:56	103-65-1	
Styrene	ND	ug/L	1.0	1		07/27/12 14:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/12 14:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/12 14:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/27/12 14:56	127-18-4	
Toluene	ND	ug/L	1.0	1		07/27/12 14:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/12 14:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/12 14:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/27/12 14:56	79-00-5	
Trichloroethene	**9.5**	ug/L	1.0	1		07/27/12 14:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/12 14:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		07/27/12 14:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/27/12 14:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/27/12 14:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		07/27/12 14:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 14:56	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	1		07/27/12 14:56	460-00-4	HS
Dibromofluoromethane (S)	96	%	80-120	1		07/27/12 14:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	93	%	80-120	1		07/27/12 14:56	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		07/27/12 14:56	2037-26-5	
Preservation pH	**6.0**		0.10	1		07/27/12 14:56		pH

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: SB-7-GW **Lab ID: 60125643014** Collected: 07/18/12 15:07 Received: 07/21/12 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		07/27/12 14:56		
Benzene	ND	ug/L	1.0	1		07/27/12 14:56	71-43-2	
Toluene	ND	ug/L	1.0	1		07/27/12 14:56	108-88-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 14:56	100-41-4	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 14:56	1330-20-7	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/27/12 14:56	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/27/12 14:56	91-20-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/12 14:56	107-06-2	
tert-Butyl Alcohol	ND	ug/L	10.0	1		07/27/12 14:56	75-65-0	
Surrogates								
Dibromofluoromethane (S)	96	%	80-120	1		07/27/12 14:56	1868-53-7	HS
Toluene-d8 (S)	100	%	80-120	1		07/27/12 14:56	2037-26-5	
4-Bromofluorobenzene (S)	104	%	80-120	1		07/27/12 14:56	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	80-120	1		07/27/12 14:56	17060-07-0	
Preservation pH	**6.0**		0.10	1		07/27/12 14:56		pH

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: TRIP BLANK **Lab ID: 60125643015** Collected: 07/18/12 08:00 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	20.0	1		07/30/12 17:35	67-64-1	
Benzene	ND	ug/kg	5.0	1		07/30/12 17:35	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		07/30/12 17:35	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		07/30/12 17:35	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		07/30/12 17:35	75-27-4	
Bromoform	ND	ug/kg	5.0	1		07/30/12 17:35	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		07/30/12 17:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	1		07/30/12 17:35	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		07/30/12 17:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		07/30/12 17:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		07/30/12 17:35	98-06-6	
Carbon disulfide	ND	ug/kg	5.0	1		07/30/12 17:35	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		07/30/12 17:35	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		07/30/12 17:35	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		07/30/12 17:35	75-00-3	
Chloroform	ND	ug/kg	5.0	1		07/30/12 17:35	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		07/30/12 17:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		07/30/12 17:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		07/30/12 17:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.0	1		07/30/12 17:35	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		07/30/12 17:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		07/30/12 17:35	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		07/30/12 17:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		07/30/12 17:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		07/30/12 17:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		07/30/12 17:35	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		07/30/12 17:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		07/30/12 17:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		07/30/12 17:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.0	1		07/30/12 17:35	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1		07/30/12 17:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		07/30/12 17:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		07/30/12 17:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		07/30/12 17:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		07/30/12 17:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		07/30/12 17:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		07/30/12 17:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		07/30/12 17:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		07/30/12 17:35	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		07/30/12 17:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		07/30/12 17:35	87-68-3	
2-Hexanone	ND	ug/kg	20.0	1		07/30/12 17:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		07/30/12 17:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		07/30/12 17:35	99-87-6	
Methylene chloride	ND	ug/kg	5.0	1		07/30/12 17:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	1		07/30/12 17:35	108-10-1	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Sample: TRIP BLANK **Lab ID: 60125643015** Collected: 07/18/12 08:00 Received: 07/21/12 08:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		07/30/12 17:35	1634-04-4	
Naphthalene	ND	ug/kg	10.0	1		07/30/12 17:35	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		07/30/12 17:35	103-65-1	
Styrene	ND	ug/kg	5.0	1		07/30/12 17:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		07/30/12 17:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		07/30/12 17:35	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		07/30/12 17:35	127-18-4	
Toluene	ND	ug/kg	5.0	1		07/30/12 17:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		07/30/12 17:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		07/30/12 17:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		07/30/12 17:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		07/30/12 17:35	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		07/30/12 17:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		07/30/12 17:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		07/30/12 17:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		07/30/12 17:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		07/30/12 17:35	108-67-8	
Vinyl chloride	ND	ug/kg	5.0	1		07/30/12 17:35	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	1		07/30/12 17:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	78-122	1		07/30/12 17:35	1868-53-7	
Toluene-d8 (S)	100	%	80-123	1		07/30/12 17:35	2037-26-5	
4-Bromofluorobenzene (S)	101	%	78-125	1		07/30/12 17:35	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	73-135	1		07/30/12 17:35	17060-07-0	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MERP/6475 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 60125643001, 60125643002, 60125643004, 60125643007, 60125643010, 60125643012, 60125643014

METHOD BLANK: 1033648 Matrix: Water
Associated Lab Samples: 60125643001, 60125643002, 60125643004, 60125643007, 60125643010, 60125643012, 60125643014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	07/24/12 15:00	

LABORATORY CONTROL SAMPLE: 1033649

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1033650 1033651

Parameter	Units	60125568010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.7	94	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MERP/6489 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 60125643001, 60125643002, 60125643004, 60125643007, 60125643010, 60125643012, 60125643014

METHOD BLANK: 1037724 Matrix: Water
Associated Lab Samples: 60125643001, 60125643002, 60125643004, 60125643007, 60125643010, 60125643012, 60125643014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	08/03/12 11:06	

LABORATORY CONTROL SAMPLE: 1037725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037726 1037727

Parameter	Units	60125643004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	3.5	3.8	69	75	75-125	9	20	M1

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MERP/6477 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 60125643003, 60125643005, 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

METHOD BLANK: 1033814 Matrix: Solid
Associated Lab Samples: 60125643003, 60125643005, 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.050	07/26/12 16:14	

LABORATORY CONTROL SAMPLE: 1033815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1033816 1033817

Parameter	Units	60125568001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.014J	.45	.47	0.48	0.46	105	95	75-125	4	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MPRP/18848 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 60125643003, 60125643005, 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

METHOD BLANK: 1034609 Matrix: Solid
Associated Lab Samples: 60125643003, 60125643005, 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	1.0	07/26/12 17:11	
Arsenic	mg/kg	ND	1.0	07/26/12 17:11	
Beryllium	mg/kg	ND	0.10	07/26/12 17:11	
Cadmium	mg/kg	ND	0.50	07/26/12 17:11	
Chromium	mg/kg	ND	0.50	07/26/12 17:11	
Copper	mg/kg	ND	1.0	07/26/12 17:11	
Lead	mg/kg	ND	0.50	07/26/12 17:11	
Nickel	mg/kg	ND	0.50	07/26/12 17:11	
Selenium	mg/kg	ND	1.5	07/26/12 17:11	
Silver	mg/kg	ND	0.70	07/26/12 17:11	
Thallium	mg/kg	ND	2.0	07/26/12 17:11	
Zinc	mg/kg	ND	10.0	07/26/12 17:11	

LABORATORY CONTROL SAMPLE: 1034610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	45.4	91	80-120	
Arsenic	mg/kg	50	46.6	93	80-120	
Beryllium	mg/kg	50	50.2	100	80-120	
Cadmium	mg/kg	50	47.0	94	80-120	
Chromium	mg/kg	50	50.1	100	80-120	
Copper	mg/kg	50	48.7	97	80-120	
Lead	mg/kg	50	47.8	96	80-120	
Nickel	mg/kg	50	49.0	98	80-120	
Selenium	mg/kg	50	43.0	86	80-120	
Silver	mg/kg	25	23.7	95	80-120	
Thallium	mg/kg	50	45.6	91	80-120	
Zinc	mg/kg	50	48.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1034611 1034612

Parameter	Units	60125652001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/kg	ND	55.5	53.5	16.2	14.3	28	26	75-125	12	20	M1
Arsenic	mg/kg	1.8	55.5	53.5	50.6	48.4	88	87	75-125	4	20	
Beryllium	mg/kg	0.34	55.5	53.5	53.2	50.5	95	94	75-125	5	20	
Cadmium	mg/kg	ND	55.5	53.5	50.3	47.9	91	90	75-125	5	20	
Chromium	mg/kg	9.8	55.5	53.5	66.7	62.8	103	99	75-125	6	20	
Copper	mg/kg	5.6	55.5	53.5	60.6	58.2	99	99	75-125	4	20	
Lead	mg/kg	7.0	55.5	53.5	57.9	57.4	92	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1034611 1034612

Parameter	Units	60125652001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel	mg/kg	5.7	55.5	53.5	59.4	56.4	97	95	75-125	5	20	
Selenium	mg/kg	ND	55.5	53.5	45.0	43.0	81	80	75-125	5	20	
Silver	mg/kg	ND	27.7	26.7	25.8	24.7	93	92	75-125	5	20	
Thallium	mg/kg	ND	55.5	53.5	48.5	46.2	87	86	75-125	5	20	
Zinc	mg/kg	26.8	55.5	53.5	81.0	77.8	98	95	75-125	4	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MPRP/18874 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60125643004, 60125643007, 60125643010, 60125643012, 60125643014

METHOD BLANK: 1035333 Matrix: Water
Associated Lab Samples: 60125643004, 60125643007, 60125643010, 60125643012, 60125643014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	10.0	07/27/12 12:14	
Arsenic	ug/L	ND	10.0	07/27/12 12:14	
Beryllium	ug/L	ND	1.0	07/27/12 12:14	
Cadmium	ug/L	ND	5.0	07/27/12 12:14	
Chromium	ug/L	ND	5.0	07/27/12 12:14	
Copper	ug/L	ND	10.0	07/27/12 12:14	
Lead	ug/L	ND	5.0	07/27/12 12:14	
Nickel	ug/L	ND	5.0	07/27/12 12:14	
Selenium	ug/L	ND	15.0	07/27/12 12:14	
Silver	ug/L	ND	7.0	07/27/12 12:14	
Thallium	ug/L	ND	20.0	07/27/12 12:14	
Zinc	ug/L	ND	50.0	07/27/12 12:14	

LABORATORY CONTROL SAMPLE: 1035334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1000	1010	101	80-120	
Arsenic	ug/L	1000	1030	103	80-120	
Beryllium	ug/L	1000	1050	105	80-120	
Cadmium	ug/L	1000	1030	103	80-120	
Chromium	ug/L	1000	1020	102	80-120	
Copper	ug/L	1000	987	99	80-120	
Lead	ug/L	1000	1000	100	80-120	
Nickel	ug/L	1000	1020	102	80-120	
Selenium	ug/L	1000	1000	100	80-120	
Silver	ug/L	500	493	99	80-120	
Thallium	ug/L	1000	976	98	80-120	
Zinc	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035335 1035336

Parameter	Units	60125879001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1010	1010	101	101	75-125	0	20	
Arsenic	ug/L	ND	1000	1000	1040	1040	104	104	75-125	0	20	
Beryllium	ug/L	ND	1000	1000	1060	1050	106	105	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	1030	1030	103	103	75-125	0	20	
Chromium	ug/L	ND	1000	1000	1010	1010	101	101	75-125	1	20	
Copper	ug/L	17.7	1000	1000	1030	1030	101	101	75-125	0	20	
Lead	ug/L	ND	1000	1000	1000	1010	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035335 1035336

Parameter	Units	60125879001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel	ug/L	ND	1000	1000	1010	1010	101	101	75-125	0	20	
Selenium	ug/L	ND	1000	1000	1000	1000	100	100	75-125	0	20	
Silver	ug/L	ND	500	500	502	499	100	100	75-125	1	20	
Thallium	ug/L	ND	1000	1000	986	986	99	99	75-125	0	20	
Zinc	ug/L	ND	1000	1000	1030	1030	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MPRP/18881 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 60125643001, 60125643002

METHOD BLANK: 1035772 | Matrix: Water
Associated Lab Samples: 60125643001, 60125643002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	10.0	07/31/12 13:56	
Arsenic	ug/L	ND	10.0	07/31/12 13:56	
Beryllium	ug/L	ND	1.0	07/31/12 13:56	
Cadmium	ug/L	ND	5.0	07/31/12 13:56	
Chromium	ug/L	ND	5.0	07/31/12 13:56	
Copper	ug/L	ND	10.0	07/31/12 13:56	
Lead	ug/L	ND	5.0	07/31/12 13:56	
Nickel	ug/L	ND	5.0	07/31/12 13:56	
Selenium	ug/L	ND	15.0	07/31/12 13:56	
Silver	ug/L	ND	7.0	07/31/12 13:56	
Thallium	ug/L	ND	20.0	07/31/12 13:56	
Zinc	ug/L	ND	50.0	07/31/12 13:56	

LABORATORY CONTROL SAMPLE: 1035773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1000	997	100	80-120	
Arsenic	ug/L	1000	1020	102	80-120	
Beryllium	ug/L	1000	932	93	80-120	
Cadmium	ug/L	1000	970	97	80-120	
Chromium	ug/L	1000	918	92	80-120	
Copper	ug/L	1000	877	88	80-120	
Lead	ug/L	1000	912	91	80-120	
Nickel	ug/L	1000	955	96	80-120	
Selenium	ug/L	1000	1000	100	80-120	
Silver	ug/L	500	454	91	80-120	
Thallium	ug/L	1000	888	89	80-120	
Zinc	ug/L	1000	941	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035774 1035775

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	989	982	99	98	75-125	1	20	
Arsenic	ug/L	ND	1000	1000	1000	995	100	99	75-125	1	20	
Beryllium	ug/L	ND	1000	1000	931	921	93	92	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	965	955	97	95	75-125	1	20	
Chromium	ug/L	ND	1000	1000	916	901	92	90	75-125	2	20	
Copper	ug/L	ND	1000	1000	894	884	89	88	75-125	1	20	
Lead	ug/L	ND	1000	1000	921	909	92	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035774 1035775

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel	ug/L	ND	1000	1000	955	943	95	94	75-125	1	20	
Selenium	ug/L	ND	1000	1000	1000	984	100	98	75-125	2	20	
Silver	ug/L	ND	500	500	457	451	91	90	75-125	1	20	
Thallium	ug/L	ND	1000	1000	886	877	89	88	75-125	1	20	
Zinc	ug/L	ND	1000	1000	941	929	94	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MPRP/18877 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60125643004, 60125643007, 60125643010, 60125643012, 60125643014

METHOD BLANK: 1035345 Matrix: Water
Associated Lab Samples: 60125643004, 60125643007, 60125643010, 60125643012, 60125643014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	10.0	07/30/12 16:25	
Arsenic, Dissolved	ug/L	ND	10.0	07/30/12 16:25	
Beryllium, Dissolved	ug/L	ND	1.0	07/30/12 16:25	
Cadmium, Dissolved	ug/L	ND	5.0	07/30/12 16:25	
Chromium, Dissolved	ug/L	ND	5.0	07/30/12 16:25	
Copper, Dissolved	ug/L	ND	10.0	07/30/12 16:25	
Lead, Dissolved	ug/L	ND	5.0	07/30/12 16:25	
Nickel, Dissolved	ug/L	ND	5.0	07/30/12 16:25	
Selenium, Dissolved	ug/L	ND	15.0	07/30/12 16:25	
Silver, Dissolved	ug/L	ND	7.0	07/30/12 16:25	
Thallium, Dissolved	ug/L	ND	20.0	07/30/12 16:25	
Zinc, Dissolved	ug/L	ND	50.0	07/30/12 16:25	

LABORATORY CONTROL SAMPLE: 1035346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	1000	948	95	80-120	
Arsenic, Dissolved	ug/L	1000	972	97	80-120	
Beryllium, Dissolved	ug/L	1000	1000	100	80-120	
Cadmium, Dissolved	ug/L	1000	954	95	80-120	
Chromium, Dissolved	ug/L	1000	991	99	80-120	
Copper, Dissolved	ug/L	1000	910	91	80-120	
Lead, Dissolved	ug/L	1000	954	95	80-120	
Nickel, Dissolved	ug/L	1000	974	97	80-120	
Selenium, Dissolved	ug/L	1000	954	95	80-120	
Silver, Dissolved	ug/L	500	472	94	80-120	
Thallium, Dissolved	ug/L	1000	901	90	80-120	
Zinc, Dissolved	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035347 1035348

Parameter	Units	60125643004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	967	980	97	98	75-125	1	20	
Arsenic, Dissolved	ug/L	39.0	1000	1000	1020	1030	98	99	75-125	1	20	
Beryllium, Dissolved	ug/L	ND	1000	1000	999	1010	100	101	75-125	1	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	973	985	97	98	75-125	1	20	
Chromium, Dissolved	ug/L	ND	1000	1000	968	983	97	98	75-125	1	20	
Copper, Dissolved	ug/L	ND	1000	1000	990	992	99	99	75-125	0	20	
Lead, Dissolved	ug/L	ND	1000	1000	975	986	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035347 1035348

Parameter	Units	60125643004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel, Dissolved	ug/L	18.2	1000	1000	989	998	97	98	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	963	973	96	97	75-125	1	20	
Silver, Dissolved	ug/L	ND	500	500	493	494	99	99	75-125	0	20	
Thallium, Dissolved	ug/L	ND	1000	1000	930	942	93	94	75-125	1	20	
Zinc, Dissolved	ug/L	146	1000	1000	1110	1130	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MPRP/18880
Analysis Method: EPA 6010
QC Batch Method: EPA 3010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60125643001, 60125643002

METHOD BLANK: 1035765
Matrix: Water
Associated Lab Samples: 60125643001, 60125643002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	10.0	07/30/12 13:05	
Arsenic, Dissolved	ug/L	ND	10.0	07/30/12 13:05	
Beryllium, Dissolved	ug/L	ND	1.0	07/30/12 13:05	
Cadmium, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Chromium, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Copper, Dissolved	ug/L	ND	10.0	07/30/12 13:05	
Lead, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Nickel, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Selenium, Dissolved	ug/L	ND	15.0	07/30/12 13:05	
Silver, Dissolved	ug/L	ND	7.0	07/30/12 13:05	
Thallium, Dissolved	ug/L	ND	20.0	07/30/12 13:05	
Zinc, Dissolved	ug/L	ND	50.0	07/30/12 13:05	

LABORATORY CONTROL SAMPLE: 1035766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	1000	972	97	80-120	
Arsenic, Dissolved	ug/L	1000	995	100	80-120	
Beryllium, Dissolved	ug/L	1000	972	97	80-120	
Cadmium, Dissolved	ug/L	1000	966	97	80-120	
Chromium, Dissolved	ug/L	1000	986	99	80-120	
Copper, Dissolved	ug/L	1000	901	90	80-120	
Lead, Dissolved	ug/L	1000	935	93	80-120	
Nickel, Dissolved	ug/L	1000	969	97	80-120	
Selenium, Dissolved	ug/L	1000	974	97	80-120	
Silver, Dissolved	ug/L	500	462	92	80-120	
Thallium, Dissolved	ug/L	1000	903	90	80-120	
Zinc, Dissolved	ug/L	1000	985	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035767 1035768

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	977	973	98	97	75-125	0	20	
Arsenic, Dissolved	ug/L	ND	1000	1000	1000	993	100	99	75-125	1	20	
Beryllium, Dissolved	ug/L	ND	1000	1000	988	980	99	98	75-125	1	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	975	967	98	97	75-125	1	20	
Chromium, Dissolved	ug/L	ND	1000	1000	996	984	100	98	75-125	1	20	
Copper, Dissolved	ug/L	ND	1000	1000	923	909	92	91	75-125	2	20	
Lead, Dissolved	ug/L	ND	1000	1000	952	941	95	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035767 1035768

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel, Dissolved	ug/L	ND	1000	1000	983	974	98	97	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	981	967	98	97	75-125	1	20	
Silver, Dissolved	ug/L	ND	500	500	472	466	94	93	75-125	1	20	
Thallium, Dissolved	ug/L	ND	1000	1000	918	912	92	91	75-125	1	20	
Zinc, Dissolved	ug/L	ND	1000	1000	1000	992	100	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MSV/47378 | Analysis Method: OA1
QC Batch Method: OA1 | Analysis Description: OA1 Volatile Pet. Hydrocarbon
Associated Lab Samples: 60125643003, 60125643005

METHOD BLANK: 1036952 | Matrix: Solid
Associated Lab Samples: 60125643003, 60125643005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	07/26/12 09:15	

LABORATORY CONTROL SAMPLE: 1036953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	4	4.3	107	63-138	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MSV/47379 Analysis Method: OA1
QC Batch Method: OA1 Analysis Description: OA1 Volatile Pet. Hydrocarbon
Associated Lab Samples: 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

METHOD BLANK: 1036954 Matrix: Solid
Associated Lab Samples: 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	07/26/12 15:38	

LABORATORY CONTROL SAMPLE: 1036955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	4	4.3	107	63-138	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MSV/47349 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60125643004, 60125643007

METHOD BLANK: 1035916 | Matrix: Water
Associated Lab Samples: 60125643004, 60125643007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/27/12 15:56	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/27/12 15:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/27/12 15:56	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/27/12 15:56	
1,1-Dichloroethane	ug/L	ND	1.0	07/27/12 15:56	
1,1-Dichloroethene	ug/L	ND	1.0	07/27/12 15:56	
1,1-Dichloropropene	ug/L	ND	1.0	07/27/12 15:56	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/27/12 15:56	
1,2,3-Trichloropropane	ug/L	ND	2.5	07/27/12 15:56	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/27/12 15:56	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	07/27/12 15:56	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	07/27/12 15:56	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/27/12 15:56	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/27/12 15:56	
1,2-Dichloroethane	ug/L	ND	1.0	07/27/12 15:56	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	07/27/12 15:56	
1,2-Dichloropropane	ug/L	ND	1.0	07/27/12 15:56	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	07/27/12 15:56	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/27/12 15:56	
1,3-Dichloropropane	ug/L	ND	1.0	07/27/12 15:56	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/27/12 15:56	
2,2-Dichloropropane	ug/L	ND	1.0	07/27/12 15:56	
2-Butanone (MEK)	ug/L	ND	10.0	07/27/12 15:56	
2-Chlorotoluene	ug/L	ND	1.0	07/27/12 15:56	
2-Hexanone	ug/L	ND	10.0	07/27/12 15:56	
4-Chlorotoluene	ug/L	ND	1.0	07/27/12 15:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/27/12 15:56	
Acetone	ug/L	ND	10.0	07/27/12 15:56	
Benzene	ug/L	ND	1.0	07/27/12 15:56	
Bromobenzene	ug/L	ND	1.0	07/27/12 15:56	
Bromochloromethane	ug/L	ND	1.0	07/27/12 15:56	
Bromodichloromethane	ug/L	ND	1.0	07/27/12 15:56	
Bromoform	ug/L	ND	1.0	07/27/12 15:56	
Bromomethane	ug/L	ND	5.0	07/27/12 15:56	
Carbon disulfide	ug/L	ND	5.0	07/27/12 15:56	
Carbon tetrachloride	ug/L	ND	1.0	07/27/12 15:56	
Chlorobenzene	ug/L	ND	1.0	07/27/12 15:56	
Chloroethane	ug/L	ND	1.0	07/27/12 15:56	
Chloroform	ug/L	ND	1.0	07/27/12 15:56	
Chloromethane	ug/L	ND	1.0	07/27/12 15:56	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/27/12 15:56	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/27/12 15:56	
Dibromochloromethane	ug/L	ND	1.0	07/27/12 15:56	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

METHOD BLANK: 1035916 Matrix: Water

Associated Lab Samples: 60125643004, 60125643007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	07/27/12 15:56	
Dichlorodifluoromethane	ug/L	ND	1.0	07/27/12 15:56	
Ethylbenzene	ug/L	ND	1.0	07/27/12 15:56	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	07/27/12 15:56	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/27/12 15:56	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/27/12 15:56	
Methylene chloride	ug/L	ND	1.0	07/27/12 15:56	
n-Butylbenzene	ug/L	ND	1.0	07/27/12 15:56	
n-Propylbenzene	ug/L	ND	1.0	07/27/12 15:56	
Naphthalene	ug/L	ND	10.0	07/27/12 15:56	
p-Isopropyltoluene	ug/L	ND	1.0	07/27/12 15:56	
sec-Butylbenzene	ug/L	ND	1.0	07/27/12 15:56	
Styrene	ug/L	ND	1.0	07/27/12 15:56	
tert-Butylbenzene	ug/L	ND	1.0	07/27/12 15:56	
Tetrachloroethene	ug/L	ND	1.0	07/27/12 15:56	
Toluene	ug/L	ND	1.0	07/27/12 15:56	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/27/12 15:56	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/27/12 15:56	
Trichloroethene	ug/L	ND	1.0	07/27/12 15:56	
Trichlorofluoromethane	ug/L	ND	1.0	07/27/12 15:56	
Vinyl chloride	ug/L	ND	1.0	07/27/12 15:56	
Xylene (Total)	ug/L	ND	3.0	07/27/12 15:56	
1,2-Dichloroethane-d4 (S)	%	94	80-120	07/27/12 15:56	
4-Bromofluorobenzene (S)	%	106	80-120	07/27/12 15:56	
Dibromofluoromethane (S)	%	94	80-120	07/27/12 15:56	
Toluene-d8 (S)	%	98	80-120	07/27/12 15:56	

LABORATORY CONTROL SAMPLE: 1035917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	97	79-121	
1,1,1-Trichloroethane	ug/L	20	20.2	101	76-120	
1,1,2,2-Tetrachloroethane	ug/L	20	16.3	81	71-121	
1,1,2-Trichloroethane	ug/L	20	17.8	89	78-120	
1,1-Dichloroethane	ug/L	20	19.6	98	74-120	
1,1-Dichloroethene	ug/L	20	21.8	109	68-120	
1,1-Dichloropropene	ug/L	20	20.5	103	78-120	
1,2,3-Trichlorobenzene	ug/L	20	17.6	88	70-129	
1,2,3-Trichloropropane	ug/L	20	16.1	80	74-121	
1,2,4-Trichlorobenzene	ug/L	20	17.8	89	76-123	
1,2,4-Trimethylbenzene	ug/L	20	18.0	90	76-121	
1,2-Dibromo-3-chloropropane	ug/L	20	16.8	84	65-124	
1,2-Dibromoethane (EDB)	ug/L	20	19.2	96	76-125	
1,2-Dichlorobenzene	ug/L	20	18.2	91	80-120	
1,2-Dichloroethane	ug/L	20	20.6	103	72-123	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1035917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	41.8	105	78-120	
1,2-Dichloropropane	ug/L	20	20.6	103	78-120	
1,3,5-Trimethylbenzene	ug/L	20	18.4	92	75-120	
1,3-Dichlorobenzene	ug/L	20	18.6	93	79-120	
1,3-Dichloropropane	ug/L	20	18.3	91	75-120	
1,4-Dichlorobenzene	ug/L	20	18.4	92	80-120	
2,2-Dichloropropane	ug/L	20	19.0	95	54-132	
2-Butanone (MEK)	ug/L	100	88.4	88	40-160	
2-Chlorotoluene	ug/L	20	18.0	90	78-120	
2-Hexanone	ug/L	100	83.2	83	40-160	
4-Chlorotoluene	ug/L	20	19.2	96	79-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.7	92	65-126	
Acetone	ug/L	100	81.2	81	40-160	
Benzene	ug/L	20	20.8	104	74-123	
Bromobenzene	ug/L	20	18.4	92	79-120	
Bromochloromethane	ug/L	20	21.3	107	75-120	
Bromodichloromethane	ug/L	20	20.2	101	74-120	
Bromoform	ug/L	20	18.7	93	70-123	
Bromomethane	ug/L	20	15.9	79	40-158	
Carbon disulfide	ug/L	20	18.5	93	67-135	
Carbon tetrachloride	ug/L	20	21.1	106	74-126	
Chlorobenzene	ug/L	20	20.0	100	80-120	
Chloroethane	ug/L	20	25.2	126	60-144	
Chloroform	ug/L	20	20.3	101	77-120	
Chloromethane	ug/L	20	19.2	96	40-142	
cis-1,2-Dichloroethene	ug/L	20	19.7	99	70-120	
cis-1,3-Dichloropropene	ug/L	20	19.9	99	73-121	
Dibromochloromethane	ug/L	20	19.4	97	77-122	
Dibromomethane	ug/L	20	19.5	98	76-120	
Dichlorodifluoromethane	ug/L	20	17.6	88	40-160	
Ethylbenzene	ug/L	20	19.8	99	76-123	
Hexachloro-1,3-butadiene	ug/L	20	18.1	91	72-124	
Isopropylbenzene (Cumene)	ug/L	20	21.8	109	80-126	
Methyl-tert-butyl ether	ug/L	20	18.5	93	67-125	
Methylene chloride	ug/L	20	20.2	101	72-127	
n-Butylbenzene	ug/L	20	18.3	92	76-125	
n-Propylbenzene	ug/L	20	17.8	89	77-120	
Naphthalene	ug/L	20	15.9	80	63-128	
p-Isopropyltoluene	ug/L	20	18.3	91	77-121	
sec-Butylbenzene	ug/L	20	18.7	93	77-122	
Styrene	ug/L	20	20.0	100	79-120	
tert-Butylbenzene	ug/L	20	18.4	92	75-124	
Tetrachloroethene	ug/L	20	21.0	105	78-121	
Toluene	ug/L	20	19.8	99	75-123	
trans-1,2-Dichloroethene	ug/L	20	22.1	111	80-129	
trans-1,3-Dichloropropene	ug/L	20	19.6	98	77-122	
Trichloroethene	ug/L	20	21.6	108	74-120	
Trichlorofluoromethane	ug/L	20	22.2	111	69-122	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1035917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	21.9	109	50-140	
Xylene (Total)	ug/L	60	60.7	101	76-123	
1,2-Dichloroethane-d4 (S)	%			93	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Dibromofluoromethane (S)	%			95	80-120	
Toluene-d8 (S)	%			95	80-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MSV/47352 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60125643010, 60125643012, 60125643014

METHOD BLANK: 1035943 Matrix: Water
Associated Lab Samples: 60125643010, 60125643012, 60125643014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/27/12 12:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/27/12 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/27/12 12:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/27/12 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	07/27/12 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	07/27/12 12:11	
1,1-Dichloropropene	ug/L	ND	1.0	07/27/12 12:11	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/27/12 12:11	
1,2,3-Trichloropropane	ug/L	ND	2.5	07/27/12 12:11	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/27/12 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	07/27/12 12:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	07/27/12 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/27/12 12:11	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/27/12 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	07/27/12 12:11	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	07/27/12 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	07/27/12 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	07/27/12 12:11	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/27/12 12:11	
1,3-Dichloropropane	ug/L	ND	1.0	07/27/12 12:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/27/12 12:11	
2,2-Dichloropropane	ug/L	ND	1.0	07/27/12 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	07/27/12 12:11	
2-Chlorotoluene	ug/L	ND	1.0	07/27/12 12:11	
2-Hexanone	ug/L	ND	10.0	07/27/12 12:11	
4-Chlorotoluene	ug/L	ND	1.0	07/27/12 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/27/12 12:11	
Acetone	ug/L	ND	10.0	07/27/12 12:11	
Benzene	ug/L	ND	1.0	07/27/12 12:11	
Bromobenzene	ug/L	ND	1.0	07/27/12 12:11	
Bromochloromethane	ug/L	ND	1.0	07/27/12 12:11	
Bromodichloromethane	ug/L	ND	1.0	07/27/12 12:11	
Bromoform	ug/L	ND	1.0	07/27/12 12:11	
Bromomethane	ug/L	ND	5.0	07/27/12 12:11	
Carbon disulfide	ug/L	ND	5.0	07/27/12 12:11	
Carbon tetrachloride	ug/L	ND	1.0	07/27/12 12:11	
Chlorobenzene	ug/L	ND	1.0	07/27/12 12:11	
Chloroethane	ug/L	ND	1.0	07/27/12 12:11	
Chloroform	ug/L	ND	1.0	07/27/12 12:11	
Chloromethane	ug/L	ND	1.0	07/27/12 12:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/27/12 12:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/27/12 12:11	
Dibromochloromethane	ug/L	ND	1.0	07/27/12 12:11	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

METHOD BLANK: 1035943 Matrix: Water

Associated Lab Samples: 60125643010, 60125643012, 60125643014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	07/27/12 12:11	
Dichlorodifluoromethane	ug/L	ND	1.0	07/27/12 12:11	
Ethylbenzene	ug/L	ND	1.0	07/27/12 12:11	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	07/27/12 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/27/12 12:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/27/12 12:11	
Methylene chloride	ug/L	ND	1.0	07/27/12 12:11	
n-Butylbenzene	ug/L	ND	1.0	07/27/12 12:11	
n-Propylbenzene	ug/L	ND	1.0	07/27/12 12:11	
Naphthalene	ug/L	ND	10.0	07/27/12 12:11	
p-Isopropyltoluene	ug/L	ND	1.0	07/27/12 12:11	
sec-Butylbenzene	ug/L	ND	1.0	07/27/12 12:11	
Styrene	ug/L	ND	1.0	07/27/12 12:11	
tert-Butylbenzene	ug/L	ND	1.0	07/27/12 12:11	
Tetrachloroethene	ug/L	ND	1.0	07/27/12 12:11	
Toluene	ug/L	ND	1.0	07/27/12 12:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/27/12 12:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/27/12 12:11	
Trichloroethene	ug/L	ND	1.0	07/27/12 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	07/27/12 12:11	
Vinyl chloride	ug/L	ND	1.0	07/27/12 12:11	
Xylene (Total)	ug/L	ND	3.0	07/27/12 12:11	
1,2-Dichloroethane-d4 (S)	%	90	80-120	07/27/12 12:11	
4-Bromofluorobenzene (S)	%	103	80-120	07/27/12 12:11	
Dibromofluoromethane (S)	%	97	80-120	07/27/12 12:11	
Toluene-d8 (S)	%	100	80-120	07/27/12 12:11	

LABORATORY CONTROL SAMPLE: 1035944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.5	93	79-121	
1,1,1-Trichloroethane	ug/L	20	19.9	99	76-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	71-121	
1,1,2-Trichloroethane	ug/L	20	18.1	90	78-120	
1,1-Dichloroethane	ug/L	20	17.9	90	74-120	
1,1-Dichloroethene	ug/L	20	21.7	108	68-120	
1,1-Dichloropropene	ug/L	20	20.5	102	78-120	
1,2,3-Trichlorobenzene	ug/L	20	17.3	87	70-129	
1,2,3-Trichloropropane	ug/L	20	19.1	96	74-121	
1,2,4-Trichlorobenzene	ug/L	20	19.3	96	76-123	
1,2,4-Trimethylbenzene	ug/L	20	16.7	84	76-121	
1,2-Dibromo-3-chloropropane	ug/L	20	18.3	92	65-124	
1,2-Dibromoethane (EDB)	ug/L	20	18.5	92	76-125	
1,2-Dichlorobenzene	ug/L	20	18.1	91	80-120	
1,2-Dichloroethane	ug/L	20	18.3	92	72-123	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1035944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	38.4	96	78-120	
1,2-Dichloropropane	ug/L	20	19.3	97	78-120	
1,3,5-Trimethylbenzene	ug/L	20	18.2	91	75-120	
1,3-Dichlorobenzene	ug/L	20	18.7	93	79-120	
1,3-Dichloropropane	ug/L	20	18.2	91	75-120	
1,4-Dichlorobenzene	ug/L	20	18.1	91	80-120	
2,2-Dichloropropane	ug/L	20	18.9	94	54-132	
2-Butanone (MEK)	ug/L	100	86.8	87	40-160	
2-Chlorotoluene	ug/L	20	19.7	99	78-120	
2-Hexanone	ug/L	100	86.4	86	40-160	
4-Chlorotoluene	ug/L	20	20.0	100	79-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	87.6	88	65-126	
Acetone	ug/L	100	85.7	86	40-160	
Benzene	ug/L	20	18.4	92	74-123	
Bromobenzene	ug/L	20	19.4	97	79-120	
Bromochloromethane	ug/L	20	19.9	100	75-120	
Bromodichloromethane	ug/L	20	17.2	86	74-120	
Bromoform	ug/L	20	17.1	85	70-123	
Bromomethane	ug/L	20	16.2	81	40-158	
Carbon disulfide	ug/L	20	17.8	89	67-135	
Carbon tetrachloride	ug/L	20	18.4	92	74-126	
Chlorobenzene	ug/L	20	19.2	96	80-120	
Chloroethane	ug/L	20	24.5	123	60-144	
Chloroform	ug/L	20	17.8	89	77-120	
Chloromethane	ug/L	20	18.9	94	40-142	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	70-120	
cis-1,3-Dichloropropene	ug/L	20	17.7	89	73-121	
Dibromochloromethane	ug/L	20	17.8	89	77-122	
Dibromomethane	ug/L	20	19.2	96	76-120	
Dichlorodifluoromethane	ug/L	20	22.0	110	40-160	
Ethylbenzene	ug/L	20	18.9	95	76-123	
Hexachloro-1,3-butadiene	ug/L	20	17.5	88	72-124	
Isopropylbenzene (Cumene)	ug/L	20	20.4	102	80-126	
Methyl-tert-butyl ether	ug/L	20	18.0	90	67-125	
Methylene chloride	ug/L	20	18.3	91	72-127	
n-Butylbenzene	ug/L	20	18.8	94	76-125	
n-Propylbenzene	ug/L	20	19.1	95	77-120	
Naphthalene	ug/L	20	16.8	84	63-128	
p-Isopropyltoluene	ug/L	20	18.5	93	77-121	
sec-Butylbenzene	ug/L	20	16.7	84	77-122	
Styrene	ug/L	20	18.6	93	79-120	
tert-Butylbenzene	ug/L	20	18.7	93	75-124	
Tetrachloroethene	ug/L	20	19.5	98	78-121	
Toluene	ug/L	20	17.7	88	75-123	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	80-129	
trans-1,3-Dichloropropene	ug/L	20	20.1	100	77-122	
Trichloroethene	ug/L	20	17.8	89	74-120	
Trichlorofluoromethane	ug/L	20	22.7	113	69-122	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1035944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	21.8	109	50-140	
Xylene (Total)	ug/L	60	56.1	93	76-123	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Dibromofluoromethane (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MSV/47383
Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60125643001, 60125643002

METHOD BLANK: 1036999
Matrix: Water
Associated Lab Samples: 60125643001, 60125643002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/30/12 10:21	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/30/12 10:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/30/12 10:21	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/30/12 10:21	
1,1-Dichloroethane	ug/L	ND	1.0	07/30/12 10:21	
1,1-Dichloroethene	ug/L	ND	1.0	07/30/12 10:21	
1,1-Dichloropropene	ug/L	ND	1.0	07/30/12 10:21	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/30/12 10:21	
1,2,3-Trichloropropane	ug/L	ND	2.5	07/30/12 10:21	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/30/12 10:21	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	07/30/12 10:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	07/30/12 10:21	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/30/12 10:21	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/30/12 10:21	
1,2-Dichloroethane	ug/L	ND	1.0	07/30/12 10:21	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	07/30/12 10:21	
1,2-Dichloropropane	ug/L	ND	1.0	07/30/12 10:21	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	07/30/12 10:21	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/30/12 10:21	
1,3-Dichloropropane	ug/L	ND	1.0	07/30/12 10:21	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/30/12 10:21	
2,2-Dichloropropane	ug/L	ND	1.0	07/30/12 10:21	
2-Butanone (MEK)	ug/L	ND	10.0	07/30/12 10:21	
2-Chlorotoluene	ug/L	ND	1.0	07/30/12 10:21	
2-Hexanone	ug/L	ND	10.0	07/30/12 10:21	
4-Chlorotoluene	ug/L	ND	1.0	07/30/12 10:21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/30/12 10:21	
Acetone	ug/L	ND	10.0	07/30/12 10:21	
Benzene	ug/L	ND	1.0	07/30/12 10:21	
Bromobenzene	ug/L	ND	1.0	07/30/12 10:21	
Bromochloromethane	ug/L	ND	1.0	07/30/12 10:21	
Bromodichloromethane	ug/L	ND	1.0	07/30/12 10:21	
Bromoform	ug/L	ND	1.0	07/30/12 10:21	
Bromomethane	ug/L	ND	5.0	07/30/12 10:21	
Carbon disulfide	ug/L	ND	5.0	07/30/12 10:21	
Carbon tetrachloride	ug/L	ND	1.0	07/30/12 10:21	
Chlorobenzene	ug/L	ND	1.0	07/30/12 10:21	
Chloroethane	ug/L	ND	1.0	07/30/12 10:21	
Chloroform	ug/L	ND	1.0	07/30/12 10:21	
Chloromethane	ug/L	ND	1.0	07/30/12 10:21	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/30/12 10:21	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/30/12 10:21	
Dibromochloromethane	ug/L	ND	1.0	07/30/12 10:21	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

METHOD BLANK: 1036999 Matrix: Water

Associated Lab Samples: 60125643001, 60125643002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	07/30/12 10:21	
Dichlorodifluoromethane	ug/L	ND	1.0	07/30/12 10:21	
Ethylbenzene	ug/L	ND	1.0	07/30/12 10:21	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	07/30/12 10:21	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/30/12 10:21	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/30/12 10:21	
Methylene chloride	ug/L	ND	1.0	07/30/12 10:21	
n-Butylbenzene	ug/L	ND	1.0	07/30/12 10:21	
n-Propylbenzene	ug/L	ND	1.0	07/30/12 10:21	
Naphthalene	ug/L	ND	10.0	07/30/12 10:21	
p-Isopropyltoluene	ug/L	ND	1.0	07/30/12 10:21	
sec-Butylbenzene	ug/L	ND	1.0	07/30/12 10:21	
Styrene	ug/L	ND	1.0	07/30/12 10:21	
tert-Butylbenzene	ug/L	ND	1.0	07/30/12 10:21	
Tetrachloroethene	ug/L	ND	1.0	07/30/12 10:21	
Toluene	ug/L	ND	1.0	07/30/12 10:21	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/30/12 10:21	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/30/12 10:21	
Trichloroethene	ug/L	ND	1.0	07/30/12 10:21	
Trichlorofluoromethane	ug/L	ND	1.0	07/30/12 10:21	
Vinyl chloride	ug/L	ND	1.0	07/30/12 10:21	
Xylene (Total)	ug/L	ND	3.0	07/30/12 10:21	
1,2-Dichloroethane-d4 (S)	%	116	80-120	07/30/12 10:21	
4-Bromofluorobenzene (S)	%	102	80-120	07/30/12 10:21	
Dibromofluoromethane (S)	%	114	80-120	07/30/12 10:21	
Toluene-d8 (S)	%	102	80-120	07/30/12 10:21	

LABORATORY CONTROL SAMPLE: 1037000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.4	107	79-121	
1,1,1-Trichloroethane	ug/L	20	20.0	100	76-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	71-121	
1,1,2-Trichloroethane	ug/L	20	19.8	99	78-120	
1,1-Dichloroethane	ug/L	20	19.6	98	74-120	
1,1-Dichloroethene	ug/L	20	21.2	106	68-120	
1,1-Dichloropropene	ug/L	20	20.4	102	78-120	
1,2,3-Trichlorobenzene	ug/L	20	21.2	106	70-129	
1,2,3-Trichloropropane	ug/L	20	19.7	99	74-121	
1,2,4-Trichlorobenzene	ug/L	20	21.8	109	76-123	
1,2,4-Trimethylbenzene	ug/L	20	21.0	105	76-121	
1,2-Dibromo-3-chloropropane	ug/L	20	20.1	100	65-124	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	105	76-125	
1,2-Dichlorobenzene	ug/L	20	21.4	107	80-120	
1,2-Dichloroethane	ug/L	20	20.6	103	72-123	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1037000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	41.0	103	78-120	
1,2-Dichloropropane	ug/L	20	21.5	108	78-120	
1,3,5-Trimethylbenzene	ug/L	20	21.1	106	75-120	
1,3-Dichlorobenzene	ug/L	20	21.4	107	79-120	
1,3-Dichloropropane	ug/L	20	19.5	97	75-120	
1,4-Dichlorobenzene	ug/L	20	21.5	108	80-120	
2,2-Dichloropropane	ug/L	20	23.5	117	54-132	
2-Butanone (MEK)	ug/L	100	92.6	93	40-160	
2-Chlorotoluene	ug/L	20	20.8	104	78-120	
2-Hexanone	ug/L	100	95.4	95	40-160	
4-Chlorotoluene	ug/L	20	22.1	111	79-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.8	96	65-126	
Acetone	ug/L	100	83.2	83	40-160	
Benzene	ug/L	20	20.5	103	74-123	
Bromobenzene	ug/L	20	21.0	105	79-120	
Bromochloromethane	ug/L	20	20.9	105	75-120	
Bromodichloromethane	ug/L	20	20.1	100	74-120	
Bromoform	ug/L	20	20.8	104	70-123	
Bromomethane	ug/L	20	17.1	85	40-158	
Carbon disulfide	ug/L	20	18.0	90	67-135	
Carbon tetrachloride	ug/L	20	20.6	103	74-126	
Chlorobenzene	ug/L	20	21.7	109	80-120	
Chloroethane	ug/L	20	24.2	121	60-144	
Chloroform	ug/L	20	20.0	100	77-120	
Chloromethane	ug/L	20	17.5	88	40-142	
cis-1,2-Dichloroethene	ug/L	20	19.6	98	70-120	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	73-121	
Dibromochloromethane	ug/L	20	21.5	107	77-122	
Dibromomethane	ug/L	20	19.3	97	76-120	
Dichlorodifluoromethane	ug/L	20	14.8	74	40-160	
Ethylbenzene	ug/L	20	21.7	109	76-123	
Hexachloro-1,3-butadiene	ug/L	20	22.8	114	72-124	
Isopropylbenzene (Cumene)	ug/L	20	23.7	118	80-126	
Methyl-tert-butyl ether	ug/L	20	19.2	96	67-125	
Methylene chloride	ug/L	20	19.5	97	72-127	
n-Butylbenzene	ug/L	20	22.2	111	76-125	
n-Propylbenzene	ug/L	20	20.6	103	77-120	
Naphthalene	ug/L	20	19.1	95	63-128	
p-Isopropyltoluene	ug/L	20	21.5	107	77-121	
sec-Butylbenzene	ug/L	20	21.3	107	77-122	
Styrene	ug/L	20	21.8	109	79-120	
tert-Butylbenzene	ug/L	20	21.4	107	75-124	
Tetrachloroethene	ug/L	20	22.7	114	78-121	
Toluene	ug/L	20	21.5	107	75-123	
trans-1,2-Dichloroethene	ug/L	20	21.5	107	80-129	
trans-1,3-Dichloropropene	ug/L	20	22.8	114	77-122	
Trichloroethene	ug/L	20	20.6	103	74-120	
Trichlorofluoromethane	ug/L	20	20.9	105	69-122	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1037000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	19.9	100	50-140	
Xylene (Total)	ug/L	60	65.7	109	76-123	
1,2-Dichloroethane-d4 (S)	%			94	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			93	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MSV/47353 Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60125643010, 60125643012, 60125643014

METHOD BLANK: 1035947 Matrix: Water
Associated Lab Samples: 60125643010, 60125643012, 60125643014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	07/27/12 12:11	
Benzene	ug/L	ND	1.0	07/27/12 12:11	
Ethylbenzene	ug/L	ND	1.0	07/27/12 12:11	
Gasoline Range Organics	mg/L	ND	0.50	07/27/12 12:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/27/12 12:11	
Naphthalene	ug/L	ND	10.0	07/27/12 12:11	
tert-Butyl Alcohol	ug/L	ND	10.0	07/27/12 12:11	
Toluene	ug/L	ND	1.0	07/27/12 12:11	
Xylene (Total)	ug/L	ND	3.0	07/27/12 12:11	
1,2-Dichloroethane-d4 (S)	%	90	80-120	07/27/12 12:11	
4-Bromofluorobenzene (S)	%	103	80-120	07/27/12 12:11	
Dibromofluoromethane (S)	%	97	80-120	07/27/12 12:11	
Toluene-d8 (S)	%	100	80-120	07/27/12 12:11	

LABORATORY CONTROL SAMPLE: 1035948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	18.3	92	72-123	
Benzene	ug/L	20	18.4	92	74-123	
Ethylbenzene	ug/L	20	18.9	95	76-123	
Gasoline Range Organics	mg/L	4	3.8	95	65-136	
Methyl-tert-butyl ether	ug/L	20	18.0	90	67-125	
Naphthalene	ug/L	20	16.8	84	63-128	
tert-Butyl Alcohol	ug/L	100	82.3	82	44-142	
Toluene	ug/L	20	17.7	88	75-123	
Xylene (Total)	ug/L	60	56.1	93	76-123	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Dibromofluoromethane (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MSV/47406 | Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 | Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60125643004, 60125643007

METHOD BLANK: 1037162 | Matrix: Water
Associated Lab Samples: 60125643004, 60125643007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	07/27/12 15:56	
Benzene	ug/L	ND	1.0	07/27/12 15:56	
Ethylbenzene	ug/L	ND	1.0	07/27/12 15:56	
Gasoline Range Organics	mg/L	ND	0.50	07/27/12 15:56	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/27/12 15:56	
Naphthalene	ug/L	ND	10.0	07/27/12 15:56	
tert-Butyl Alcohol	ug/L	ND	10.0	07/27/12 15:56	
Toluene	ug/L	ND	1.0	07/27/12 15:56	
Xylene (Total)	ug/L	ND	3.0	07/27/12 15:56	
1,2-Dichloroethane-d4 (S)	%	94	80-120	07/27/12 15:56	
4-Bromofluorobenzene (S)	%	106	80-120	07/27/12 15:56	
Dibromofluoromethane (S)	%	94	80-120	07/27/12 15:56	
Toluene-d8 (S)	%	98	80-120	07/27/12 15:56	

LABORATORY CONTROL SAMPLE: 1037163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.6	103	72-123	
Benzene	ug/L	20	20.8	104	74-123	
Ethylbenzene	ug/L	20	19.8	99	76-123	
Gasoline Range Organics	mg/L	4	3.1	78	65-136	
Methyl-tert-butyl ether	ug/L	20	18.5	93	67-125	
Naphthalene	ug/L	20	15.9	80	63-128	
tert-Butyl Alcohol	ug/L	100	97.4	97	44-142	
Toluene	ug/L	20	19.8	99	75-123	
Xylene (Total)	ug/L	60	60.7	101	76-123	
1,2-Dichloroethane-d4 (S)	%			93	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Dibromofluoromethane (S)	%			95	80-120	
Toluene-d8 (S)	%			95	80-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MSV/47407 | Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 | Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60125643001, 60125643002

METHOD BLANK: 1037164 | Matrix: Water
Associated Lab Samples: 60125643001, 60125643002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	07/30/12 10:21	
Benzene	ug/L	ND	1.0	07/30/12 10:21	
Ethylbenzene	ug/L	ND	1.0	07/30/12 10:21	
Gasoline Range Organics	mg/L	ND	0.50	07/30/12 10:21	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/30/12 10:21	
Naphthalene	ug/L	ND	10.0	07/30/12 10:21	
tert-Butyl Alcohol	ug/L	ND	10.0	07/30/12 10:21	
Toluene	ug/L	ND	1.0	07/30/12 10:21	
Xylene (Total)	ug/L	ND	3.0	07/30/12 10:21	
1,2-Dichloroethane-d4 (S)	%	116	80-120	07/30/12 10:21	
4-Bromofluorobenzene (S)	%	102	80-120	07/30/12 10:21	
Dibromofluoromethane (S)	%	114	80-120	07/30/12 10:21	
Toluene-d8 (S)	%	102	80-120	07/30/12 10:21	

LABORATORY CONTROL SAMPLE: 1037165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.6	103	72-123	
Benzene	ug/L	20	20.5	103	74-123	
Ethylbenzene	ug/L	20	21.7	109	76-123	
Gasoline Range Organics	mg/L	4	3.3	83	65-136	
Methyl-tert-butyl ether	ug/L	20	19.2	96	67-125	
Naphthalene	ug/L	20	19.1	95	63-128	
tert-Butyl Alcohol	ug/L	100	102	102	44-142	
Toluene	ug/L	20	21.5	107	75-123	
Xylene (Total)	ug/L	60	65.7	109	76-123	
1,2-Dichloroethane-d4 (S)	%			94	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			93	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MSV/47270 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60125643003, 60125643005

METHOD BLANK: 1034592 | Matrix: Solid
Associated Lab Samples: 60125643003, 60125643005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	07/26/12 09:15	
1,1,1-Trichloroethane	ug/kg	ND	5.0	07/26/12 09:15	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	07/26/12 09:15	
1,1,2-Trichloroethane	ug/kg	ND	5.0	07/26/12 09:15	
1,1-Dichloroethane	ug/kg	ND	5.0	07/26/12 09:15	
1,1-Dichloroethene	ug/kg	ND	5.0	07/26/12 09:15	
1,1-Dichloropropene	ug/kg	ND	5.0	07/26/12 09:15	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	07/26/12 09:15	
1,2,3-Trichloropropane	ug/kg	ND	5.0	07/26/12 09:15	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	07/26/12 09:15	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	07/26/12 09:15	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	07/26/12 09:15	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	07/26/12 09:15	
1,2-Dichlorobenzene	ug/kg	ND	5.0	07/26/12 09:15	
1,2-Dichloroethane	ug/kg	ND	5.0	07/26/12 09:15	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	07/26/12 09:15	
1,2-Dichloropropane	ug/kg	ND	5.0	07/26/12 09:15	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	07/26/12 09:15	
1,3-Dichlorobenzene	ug/kg	ND	5.0	07/26/12 09:15	
1,3-Dichloropropane	ug/kg	ND	5.0	07/26/12 09:15	
1,4-Dichlorobenzene	ug/kg	ND	5.0	07/26/12 09:15	
2,2-Dichloropropane	ug/kg	ND	5.0	07/26/12 09:15	
2-Butanone (MEK)	ug/kg	ND	10.0	07/26/12 09:15	
2-Chlorotoluene	ug/kg	ND	5.0	07/26/12 09:15	
2-Hexanone	ug/kg	ND	20.0	07/26/12 09:15	
4-Chlorotoluene	ug/kg	ND	5.0	07/26/12 09:15	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	07/26/12 09:15	
Acetone	ug/kg	ND	20.0	07/26/12 09:15	
Benzene	ug/kg	ND	5.0	07/26/12 09:15	
Bromobenzene	ug/kg	ND	5.0	07/26/12 09:15	
Bromochloromethane	ug/kg	ND	5.0	07/26/12 09:15	
Bromodichloromethane	ug/kg	ND	5.0	07/26/12 09:15	
Bromoform	ug/kg	ND	5.0	07/26/12 09:15	
Bromomethane	ug/kg	ND	5.0	07/26/12 09:15	
Carbon disulfide	ug/kg	ND	5.0	07/26/12 09:15	
Carbon tetrachloride	ug/kg	ND	5.0	07/26/12 09:15	
Chlorobenzene	ug/kg	ND	5.0	07/26/12 09:15	
Chloroethane	ug/kg	ND	5.0	07/26/12 09:15	
Chloroform	ug/kg	ND	5.0	07/26/12 09:15	
Chloromethane	ug/kg	ND	5.0	07/26/12 09:15	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	07/26/12 09:15	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	07/26/12 09:15	
Dibromochloromethane	ug/kg	ND	5.0	07/26/12 09:15	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

METHOD BLANK: 1034592 Matrix: Solid

Associated Lab Samples: 60125643003, 60125643005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	07/26/12 09:15	
Dichlorodifluoromethane	ug/kg	ND	5.0	07/26/12 09:15	
Ethylbenzene	ug/kg	ND	5.0	07/26/12 09:15	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	07/26/12 09:15	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	07/26/12 09:15	
Methyl-tert-butyl ether	ug/kg	ND	5.0	07/26/12 09:15	
Methylene chloride	ug/kg	ND	5.0	07/26/12 09:15	
n-Butylbenzene	ug/kg	ND	5.0	07/26/12 09:15	
n-Propylbenzene	ug/kg	ND	5.0	07/26/12 09:15	
Naphthalene	ug/kg	ND	10.0	07/26/12 09:15	
p-Isopropyltoluene	ug/kg	ND	5.0	07/26/12 09:15	
sec-Butylbenzene	ug/kg	ND	5.0	07/26/12 09:15	
Styrene	ug/kg	ND	5.0	07/26/12 09:15	
tert-Butylbenzene	ug/kg	ND	5.0	07/26/12 09:15	
Tetrachloroethene	ug/kg	ND	5.0	07/26/12 09:15	
Toluene	ug/kg	ND	5.0	07/26/12 09:15	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	07/26/12 09:15	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	07/26/12 09:15	
Trichloroethene	ug/kg	ND	5.0	07/26/12 09:15	
Trichlorofluoromethane	ug/kg	ND	5.0	07/26/12 09:15	
Vinyl chloride	ug/kg	ND	5.0	07/26/12 09:15	
Xylene (Total)	ug/kg	ND	5.0	07/26/12 09:15	
1,2-Dichloroethane-d4 (S)	%	95	73-135	07/26/12 09:15	
4-Bromofluorobenzene (S)	%	95	78-125	07/26/12 09:15	
Dibromofluoromethane (S)	%	91	78-122	07/26/12 09:15	
Toluene-d8 (S)	%	101	80-123	07/26/12 09:15	

LABORATORY CONTROL SAMPLE: 1034593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	96.6	97	80-120	
1,1,1-Trichloroethane	ug/kg	100	98.3	98	78-128	
1,1,2,2-Tetrachloroethane	ug/kg	100	80.1	80	70-120	
1,1,2-Trichloroethane	ug/kg	100	79.9	80	77-120	
1,1-Dichloroethane	ug/kg	100	79.6	80	78-120	
1,1-Dichloroethene	ug/kg	100	98.0	98	71-123	
1,1-Dichloropropene	ug/kg	100	99.4	99	77-127	
1,2,3-Trichlorobenzene	ug/kg	100	93.9	94	80-120	
1,2,3-Trichloropropane	ug/kg	100	82.8	83	73-120	
1,2,4-Trichlorobenzene	ug/kg	100	93.7	94	78-121	
1,2,4-Trimethylbenzene	ug/kg	100	86.9	87	80-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	82.8	83	70-125	
1,2-Dibromoethane (EDB)	ug/kg	100	89.8	90	78-120	
1,2-Dichlorobenzene	ug/kg	100	88.4	88	80-120	
1,2-Dichloroethane	ug/kg	100	87.6	88	76-121	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1034593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	200	174	87	80-120	
1,2-Dichloropropane	ug/kg	100	92.8	93	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	90.0	90	79-120	
1,3-Dichlorobenzene	ug/kg	100	89.7	90	80-120	
1,3-Dichloropropane	ug/kg	100	80.0	80	76-120	
1,4-Dichlorobenzene	ug/kg	100	89.4	89	80-120	
2,2-Dichloropropane	ug/kg	100	85.6	86	71-130	
2-Butanone (MEK)	ug/kg	500	351	70	45-160	
2-Chlorotoluene	ug/kg	100	90.6	91	78-120	
2-Hexanone	ug/kg	500	407	81	47-160	
4-Chlorotoluene	ug/kg	100	85.6	86	79-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	439	88	68-123	
Acetone	ug/kg	500	359	72	40-160	
Benzene	ug/kg	100	92.0	92	78-120	
Bromobenzene	ug/kg	100	94.0	94	80-120	
Bromochloromethane	ug/kg	100	87.8	88	76-120	
Bromodichloromethane	ug/kg	100	88.9	89	79-120	
Bromoform	ug/kg	100	94.8	95	75-124	
Bromomethane	ug/kg	100	84.0	84	59-157	
Carbon disulfide	ug/kg	100	90.3	90	74-158	
Carbon tetrachloride	ug/kg	100	95.2	95	79-139	
Chlorobenzene	ug/kg	100	92.0	92	80-120	
Chloroethane	ug/kg	100	98.3	98	66-153	
Chloroform	ug/kg	100	81.4	81	74-120	
Chloromethane	ug/kg	100	92.5	92	40-160	
cis-1,2-Dichloroethene	ug/kg	100	81.8	82	75-120	
cis-1,3-Dichloropropene	ug/kg	100	90.6	91	80-120	
Dibromochloromethane	ug/kg	100	94.0	94	80-123	
Dibromomethane	ug/kg	100	89.0	89	80-120	
Dichlorodifluoromethane	ug/kg	100	110	110	40-160	
Ethylbenzene	ug/kg	100	96.1	96	77-120	
Hexachloro-1,3-butadiene	ug/kg	100	102	102	71-134	
Isopropylbenzene (Cumene)	ug/kg	100	103	103	80-128	
Methyl-tert-butyl ether	ug/kg	100	77.5	77	71-122	
Methylene chloride	ug/kg	100	79.7	80	76-131	
n-Butylbenzene	ug/kg	100	92.2	92	78-130	
n-Propylbenzene	ug/kg	100	92.8	93	78-121	
Naphthalene	ug/kg	100	89.3	89	67-123	
p-Isopropyltoluene	ug/kg	100	94.3	94	80-122	
sec-Butylbenzene	ug/kg	100	93.5	93	79-124	
Styrene	ug/kg	100	91.6	92	77-120	
tert-Butylbenzene	ug/kg	100	95.4	95	80-123	
Tetrachloroethene	ug/kg	100	106	106	74-129	
Toluene	ug/kg	100	95.6	96	76-120	
trans-1,2-Dichloroethene	ug/kg	100	92.2	92	80-129	
trans-1,3-Dichloropropene	ug/kg	100	92.0	92	80-120	
Trichloroethene	ug/kg	100	95.0	95	79-120	
Trichlorofluoromethane	ug/kg	100	97.1	97	70-135	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1034593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	100	99.1	99	64-148	
Xylene (Total)	ug/kg	300	275	92	76-120	
1,2-Dichloroethane-d4 (S)	%			93	73-135	
4-Bromofluorobenzene (S)	%			95	78-125	
Dibromofluoromethane (S)	%			99	78-122	
Toluene-d8 (S)	%			101	80-123	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MSV/47311 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

METHOD BLANK: 1035294 Matrix: Solid
Associated Lab Samples: 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	07/26/12 15:38	
1,1,1-Trichloroethane	ug/kg	ND	5.0	07/26/12 15:38	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	07/26/12 15:38	
1,1,2-Trichloroethane	ug/kg	ND	5.0	07/26/12 15:38	
1,1-Dichloroethane	ug/kg	ND	5.0	07/26/12 15:38	
1,1-Dichloroethene	ug/kg	ND	5.0	07/26/12 15:38	
1,1-Dichloropropene	ug/kg	ND	5.0	07/26/12 15:38	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	07/26/12 15:38	
1,2,3-Trichloropropane	ug/kg	ND	5.0	07/26/12 15:38	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	07/26/12 15:38	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	07/26/12 15:38	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	07/26/12 15:38	
1,2-Dichlorobenzene	ug/kg	ND	5.0	07/26/12 15:38	
1,2-Dichloroethane	ug/kg	ND	5.0	07/26/12 15:38	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	07/26/12 15:38	
1,2-Dichloropropane	ug/kg	ND	5.0	07/26/12 15:38	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
1,3-Dichlorobenzene	ug/kg	ND	5.0	07/26/12 15:38	
1,3-Dichloropropane	ug/kg	ND	5.0	07/26/12 15:38	
1,4-Dichlorobenzene	ug/kg	ND	5.0	07/26/12 15:38	
2,2-Dichloropropane	ug/kg	ND	5.0	07/26/12 15:38	
2-Butanone (MEK)	ug/kg	ND	10.0	07/26/12 15:38	
2-Chlorotoluene	ug/kg	ND	5.0	07/26/12 15:38	
2-Hexanone	ug/kg	ND	20.0	07/26/12 15:38	
4-Chlorotoluene	ug/kg	ND	5.0	07/26/12 15:38	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	07/26/12 15:38	
Acetone	ug/kg	ND	20.0	07/26/12 15:38	
Benzene	ug/kg	ND	5.0	07/26/12 15:38	
Bromobenzene	ug/kg	ND	5.0	07/26/12 15:38	
Bromochloromethane	ug/kg	ND	5.0	07/26/12 15:38	
Bromodichloromethane	ug/kg	ND	5.0	07/26/12 15:38	
Bromoform	ug/kg	ND	5.0	07/26/12 15:38	
Bromomethane	ug/kg	ND	5.0	07/26/12 15:38	
Carbon disulfide	ug/kg	ND	5.0	07/26/12 15:38	
Carbon tetrachloride	ug/kg	ND	5.0	07/26/12 15:38	
Chlorobenzene	ug/kg	ND	5.0	07/26/12 15:38	
Chloroethane	ug/kg	ND	5.0	07/26/12 15:38	
Chloroform	ug/kg	ND	5.0	07/26/12 15:38	
Chloromethane	ug/kg	ND	5.0	07/26/12 15:38	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	07/26/12 15:38	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	07/26/12 15:38	
Dibromochloromethane	ug/kg	ND	5.0	07/26/12 15:38	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

METHOD BLANK: 1035294 Matrix: Solid

Associated Lab Samples: 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	07/26/12 15:38	
Dichlorodifluoromethane	ug/kg	ND	5.0	07/26/12 15:38	
Ethylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	07/26/12 15:38	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	07/26/12 15:38	
Methyl-tert-butyl ether	ug/kg	ND	5.0	07/26/12 15:38	
Methylene chloride	ug/kg	ND	5.0	07/26/12 15:38	
n-Butylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
n-Propylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
Naphthalene	ug/kg	ND	10.0	07/26/12 15:38	
p-Isopropyltoluene	ug/kg	ND	5.0	07/26/12 15:38	
sec-Butylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
Styrene	ug/kg	ND	5.0	07/26/12 15:38	
tert-Butylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
Tetrachloroethene	ug/kg	ND	5.0	07/26/12 15:38	
Toluene	ug/kg	ND	5.0	07/26/12 15:38	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	07/26/12 15:38	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	07/26/12 15:38	
Trichloroethene	ug/kg	ND	5.0	07/26/12 15:38	
Trichlorofluoromethane	ug/kg	ND	5.0	07/26/12 15:38	
Vinyl chloride	ug/kg	ND	5.0	07/26/12 15:38	
Xylene (Total)	ug/kg	ND	5.0	07/26/12 15:38	
1,2-Dichloroethane-d4 (S)	%	95	73-135	07/26/12 15:38	
4-Bromofluorobenzene (S)	%	96	78-125	07/26/12 15:38	
Dibromofluoromethane (S)	%	93	78-122	07/26/12 15:38	
Toluene-d8 (S)	%	102	80-123	07/26/12 15:38	

LABORATORY CONTROL SAMPLE: 1035295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	95.3	95	80-120	
1,1,1-Trichloroethane	ug/kg	100	93.6	94	78-128	
1,1,2,2-Tetrachloroethane	ug/kg	100	81.1	81	70-120	
1,1,2-Trichloroethane	ug/kg	100	83.4	83	77-120	
1,1-Dichloroethane	ug/kg	100	79.1	79	78-120	
1,1-Dichloroethene	ug/kg	100	91.7	92	71-123	
1,1-Dichloropropene	ug/kg	100	95.3	95	77-127	
1,2,3-Trichlorobenzene	ug/kg	100	93.9	94	80-120	
1,2,3-Trichloropropane	ug/kg	100	85.7	86	73-120	
1,2,4-Trichlorobenzene	ug/kg	100	93.2	93	78-121	
1,2,4-Trimethylbenzene	ug/kg	100	83.4	83	80-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	83.5	83	70-125	
1,2-Dibromoethane (EDB)	ug/kg	100	92.5	92	78-120	
1,2-Dichlorobenzene	ug/kg	100	87.7	88	80-120	
1,2-Dichloroethane	ug/kg	100	88.9	89	76-121	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1035295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	200	171	85	80-120	
1,2-Dichloropropane	ug/kg	100	95.7	96	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	85.1	85	79-120	
1,3-Dichlorobenzene	ug/kg	100	87.5	88	80-120	
1,3-Dichloropropane	ug/kg	100	82.6	83	76-120	
1,4-Dichlorobenzene	ug/kg	100	89.1	89	80-120	
2,2-Dichloropropane	ug/kg	100	82.1	82	71-130	
2-Butanone (MEK)	ug/kg	500	371	74	45-160	
2-Chlorotoluene	ug/kg	100	86.0	86	78-120	
2-Hexanone	ug/kg	500	426	85	47-160	
4-Chlorotoluene	ug/kg	100	82.6	83	79-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	459	92	68-123	
Acetone	ug/kg	500	366	73	40-160	
Benzene	ug/kg	100	91.2	91	78-120	
Bromobenzene	ug/kg	100	93.7	94	80-120	
Bromochloromethane	ug/kg	100	90.1	90	76-120	
Bromodichloromethane	ug/kg	100	90.9	91	79-120	
Bromoform	ug/kg	100	98.6	99	75-124	
Bromomethane	ug/kg	100	82.9	83	59-157	
Carbon disulfide	ug/kg	100	86.3	86	74-158	
Carbon tetrachloride	ug/kg	100	90.1	90	79-139	
Chlorobenzene	ug/kg	100	91.9	92	80-120	
Chloroethane	ug/kg	100	96.1	96	66-153	
Chloroform	ug/kg	100	72.2	72	74-120	L0
Chloromethane	ug/kg	100	93.1	93	40-160	
cis-1,2-Dichloroethene	ug/kg	100	81.7	82	75-120	
cis-1,3-Dichloropropene	ug/kg	100	92.3	92	80-120	
Dibromochloromethane	ug/kg	100	97.4	97	80-123	
Dibromomethane	ug/kg	100	91.6	92	80-120	
Dichlorodifluoromethane	ug/kg	100	97.4	97	40-160	
Ethylbenzene	ug/kg	100	92.4	92	77-120	
Hexachloro-1,3-butadiene	ug/kg	100	97.3	97	71-134	
Isopropylbenzene (Cumene)	ug/kg	100	98.1	98	80-128	
Methyl-tert-butyl ether	ug/kg	100	81.0	81	71-122	
Methylene chloride	ug/kg	100	84.2	84	76-131	
n-Butylbenzene	ug/kg	100	86.3	86	78-130	
n-Propylbenzene	ug/kg	100	87.4	87	78-121	
Naphthalene	ug/kg	100	92.8	93	67-123	
p-Isopropyltoluene	ug/kg	100	88.0	88	80-122	
sec-Butylbenzene	ug/kg	100	87.9	88	79-124	
Styrene	ug/kg	100	90.6	91	77-120	
tert-Butylbenzene	ug/kg	100	89.1	89	80-123	
Tetrachloroethene	ug/kg	100	99.1	99	74-129	
Toluene	ug/kg	100	93.3	93	76-120	
trans-1,2-Dichloroethene	ug/kg	100	89.1	89	80-129	
trans-1,3-Dichloropropene	ug/kg	100	93.5	94	80-120	
Trichloroethene	ug/kg	100	93.1	93	79-120	
Trichlorofluoromethane	ug/kg	100	91.1	91	70-135	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1035295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	100	93.2	93	64-148	
Xylene (Total)	ug/kg	300	267	89	76-120	
1,2-Dichloroethane-d4 (S)	%			96	73-135	
4-Bromofluorobenzene (S)	%			95	78-125	
Dibromofluoromethane (S)	%			100	78-122	
Toluene-d8 (S)	%			101	80-123	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: MSV/47410
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60125643015

METHOD BLANK: 1037202
Matrix: Solid
Associated Lab Samples: 60125643015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1,1-Trichloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1,2-Trichloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1-Dichloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1-Dichloroethene	ug/kg	ND	5.0	07/30/12 17:20	
1,1-Dichloropropene	ug/kg	ND	5.0	07/30/12 17:20	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,2,3-Trichloropropane	ug/kg	ND	5.0	07/30/12 17:20	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	07/30/12 17:20	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichloropropane	ug/kg	ND	5.0	07/30/12 17:20	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,3-Dichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,3-Dichloropropane	ug/kg	ND	5.0	07/30/12 17:20	
1,4-Dichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
2,2-Dichloropropane	ug/kg	ND	5.0	07/30/12 17:20	
2-Butanone (MEK)	ug/kg	ND	10.0	07/30/12 17:20	
2-Chlorotoluene	ug/kg	ND	5.0	07/30/12 17:20	
2-Hexanone	ug/kg	ND	20.0	07/30/12 17:20	
4-Chlorotoluene	ug/kg	ND	5.0	07/30/12 17:20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	07/30/12 17:20	
Acetone	ug/kg	ND	20.0	07/30/12 17:20	
Benzene	ug/kg	ND	5.0	07/30/12 17:20	
Bromobenzene	ug/kg	ND	5.0	07/30/12 17:20	
Bromochloromethane	ug/kg	ND	5.0	07/30/12 17:20	
Bromodichloromethane	ug/kg	ND	5.0	07/30/12 17:20	
Bromoform	ug/kg	ND	5.0	07/30/12 17:20	
Bromomethane	ug/kg	ND	5.0	07/30/12 17:20	
Carbon disulfide	ug/kg	ND	5.0	07/30/12 17:20	
Carbon tetrachloride	ug/kg	ND	5.0	07/30/12 17:20	
Chlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
Chloroethane	ug/kg	ND	5.0	07/30/12 17:20	
Chloroform	ug/kg	ND	5.0	07/30/12 17:20	
Chloromethane	ug/kg	ND	5.0	07/30/12 17:20	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	07/30/12 17:20	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	07/30/12 17:20	
Dibromochloromethane	ug/kg	ND	5.0	07/30/12 17:20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

METHOD BLANK: 1037202 Matrix: Solid

Associated Lab Samples: 60125643015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	07/30/12 17:20	
Dichlorodifluoromethane	ug/kg	ND	5.0	07/30/12 17:20	
Ethylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	07/30/12 17:20	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	07/30/12 17:20	
Methyl-tert-butyl ether	ug/kg	ND	5.0	07/30/12 17:20	
Methylene chloride	ug/kg	ND	5.0	07/30/12 17:20	
n-Butylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
n-Propylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
Naphthalene	ug/kg	ND	10.0	07/30/12 17:20	
p-Isopropyltoluene	ug/kg	ND	5.0	07/30/12 17:20	
sec-Butylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
Styrene	ug/kg	ND	5.0	07/30/12 17:20	
tert-Butylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
Tetrachloroethene	ug/kg	ND	5.0	07/30/12 17:20	
Toluene	ug/kg	ND	5.0	07/30/12 17:20	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	07/30/12 17:20	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	07/30/12 17:20	
Trichloroethene	ug/kg	ND	5.0	07/30/12 17:20	
Trichlorofluoromethane	ug/kg	ND	5.0	07/30/12 17:20	
Vinyl chloride	ug/kg	ND	5.0	07/30/12 17:20	
Xylene (Total)	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichloroethane-d4 (S)	%	99	73-135	07/30/12 17:20	
4-Bromofluorobenzene (S)	%	99	78-125	07/30/12 17:20	
Dibromofluoromethane (S)	%	100	78-122	07/30/12 17:20	
Toluene-d8 (S)	%	100	80-123	07/30/12 17:20	

LABORATORY CONTROL SAMPLE: 1037203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	91.7	92	80-120	
1,1,1-Trichloroethane	ug/kg	100	87.9	88	78-128	
1,1,2,2-Tetrachloroethane	ug/kg	100	91.6	92	70-120	
1,1,2-Trichloroethane	ug/kg	100	88.0	88	77-120	
1,1-Dichloroethane	ug/kg	100	85.1	85	78-120	
1,1-Dichloroethene	ug/kg	100	93.4	93	71-123	
1,1-Dichloropropene	ug/kg	100	89.0	89	77-127	
1,2,3-Trichlorobenzene	ug/kg	100	82.6	83	80-120	
1,2,3-Trichloropropane	ug/kg	100	88.7	89	73-120	
1,2,4-Trichlorobenzene	ug/kg	100	80.6	81	78-121	
1,2,4-Trimethylbenzene	ug/kg	100	83.7	84	80-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	84.6	85	70-125	
1,2-Dibromoethane (EDB)	ug/kg	100	92.4	92	78-120	
1,2-Dichlorobenzene	ug/kg	100	86.6	87	80-120	
1,2-Dichloroethane	ug/kg	100	91.8	92	76-121	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1037203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	200	177	88	80-120	
1,2-Dichloropropane	ug/kg	100	89.6	90	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	83.1	83	79-120	
1,3-Dichlorobenzene	ug/kg	100	84.8	85	80-120	
1,3-Dichloropropane	ug/kg	100	84.3	84	76-120	
1,4-Dichlorobenzene	ug/kg	100	86.7	87	80-120	
2,2-Dichloropropane	ug/kg	100	83.8	84	71-130	
2-Butanone (MEK)	ug/kg	500	435	87	45-160	
2-Chlorotoluene	ug/kg	100	84.3	84	78-120	
2-Hexanone	ug/kg	500	439	88	47-160	
4-Chlorotoluene	ug/kg	100	84.1	84	79-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	443	89	68-123	
Acetone	ug/kg	500	438	88	40-160	
Benzene	ug/kg	100	87.2	87	78-120	
Bromobenzene	ug/kg	100	86.0	86	80-120	
Bromochloromethane	ug/kg	100	95.9	96	76-120	
Bromodichloromethane	ug/kg	100	88.5	88	79-120	
Bromoform	ug/kg	100	93.8	94	75-124	
Bromomethane	ug/kg	100	85.0	85	59-157	
Carbon disulfide	ug/kg	100	91.5	92	74-158	
Carbon tetrachloride	ug/kg	100	90.9	91	79-139	
Chlorobenzene	ug/kg	100	87.1	87	80-120	
Chloroethane	ug/kg	100	104	104	66-153	
Chloroform	ug/kg	100	78.5	78	74-120	
Chloromethane	ug/kg	100	105	105	40-160	
cis-1,2-Dichloroethene	ug/kg	100	86.6	87	75-120	
cis-1,3-Dichloropropene	ug/kg	100	90.4	90	80-120	
Dibromochloromethane	ug/kg	100	95.4	95	80-123	
Dibromomethane	ug/kg	100	86.2	86	80-120	
Dichlorodifluoromethane	ug/kg	100	104	104	40-160	
Ethylbenzene	ug/kg	100	84.3	84	77-120	
Hexachloro-1,3-butadiene	ug/kg	100	81.8	82	71-134	
Isopropylbenzene (Cumene)	ug/kg	100	89.4	89	80-128	
Methyl-tert-butyl ether	ug/kg	100	87.5	87	71-122	
Methylene chloride	ug/kg	100	91.0	91	76-131	
n-Butylbenzene	ug/kg	100	85.0	85	78-130	
n-Propylbenzene	ug/kg	100	85.2	85	78-121	
Naphthalene	ug/kg	100	84.0	84	67-123	
p-Isopropyltoluene	ug/kg	100	81.9	82	80-122	
sec-Butylbenzene	ug/kg	100	83.8	84	79-124	
Styrene	ug/kg	100	86.0	86	77-120	
tert-Butylbenzene	ug/kg	100	84.3	84	80-123	
Tetrachloroethene	ug/kg	100	84.2	84	74-129	
Toluene	ug/kg	100	80.4	80	76-120	
trans-1,2-Dichloroethene	ug/kg	100	90.0	90	80-129	
trans-1,3-Dichloropropene	ug/kg	100	99.3	99	80-120	
Trichloroethene	ug/kg	100	85.8	86	79-120	
Trichlorofluoromethane	ug/kg	100	97.2	97	70-135	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1037203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	100	108	108	64-148	
Xylene (Total)	ug/kg	300	252	84	76-120	
1,2-Dichloroethane-d4 (S)	%			100	73-135	
4-Bromofluorobenzene (S)	%			98	78-125	
Dibromofluoromethane (S)	%			101	78-122	
Toluene-d8 (S)	%			99	80-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037204 1037205

Parameter	Units	60125686004 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	ND	99.5	99.3	69.5	75.5	70	76	40-138	8	48	
1,1,1-Trichloroethane	ug/kg	ND	99.5	99.3	80.2	83.0	81	84	40-136	3	39	
1,1,2,2-Tetrachloroethane	ug/kg	ND	99.5	99.3	ND	ND	2	2	40-157		47	M1
1,1,2-Trichloroethane	ug/kg	ND	99.5	99.3	26.2	26.5	26	27	40-141	1	47	M1
1,1-Dichloroethane	ug/kg	ND	99.5	99.3	76.6	81.5	77	82	40-126	6	42	
1,1-Dichloroethene	ug/kg	ND	99.5	99.3	129	138	129	139	40-130	7	33	M1
1,1-Dichloropropene	ug/kg	ND	99.5	99.3	74.3	80.1	75	81	40-134	7	44	
1,2,3-Trichlorobenzene	ug/kg	ND	99.5	99.3	57.7	66.8	58	67	40-131	15	45	
1,2,3-Trichloropropane	ug/kg	ND	99.5	99.3	72.0	80.6	72	81	40-160	11	48	
1,2,4-Trichlorobenzene	ug/kg	ND	99.5	99.3	57.4	63.4	58	64	40-133	10	48	
1,2,4-Trimethylbenzene	ug/kg	ND	99.5	99.3	74.1	75.7	70	71	40-132	2	46	
1,2-Dibromo-3-chloropropane	ug/kg	ND	99.5	99.3	21.8	21.9	22	22	40-160	0	49	M1
1,2-Dibromoethane (EDB)	ug/kg	ND	99.5	99.3	81.9	89.8	82	90	40-143	9	39	
1,2-Dichlorobenzene	ug/kg	ND	99.5	99.3	67.2	75.1	68	76	40-133	11	45	
1,2-Dichloroethane	ug/kg	ND	99.5	99.3	85.6	93.0	86	94	40-141	8	41	
1,2-Dichloroethene (Total)	ug/kg	ND	199	199	156	167	79	84	40-131	7	42	
1,2-Dichloropropane	ug/kg	ND	99.5	99.3	84.7	90.8	85	91	40-134	7	43	
1,3,5-Trimethylbenzene	ug/kg	ND	99.5	99.3	70.6	71.6	70	71	40-134	1	47	
1,3-Dichlorobenzene	ug/kg	ND	99.5	99.3	62.8	70.0	63	71	40-131	11	45	
1,3-Dichloropropane	ug/kg	ND	99.5	99.3	77.8	84.0	78	85	40-133	8	45	
1,4-Dichlorobenzene	ug/kg	ND	99.5	99.3	64.8	72.2	65	73	40-134	11	46	
2,2-Dichloropropane	ug/kg	ND	99.5	99.3	75.2	80.6	76	81	40-135	7	45	
2-Butanone (MEK)	ug/kg	ND	497	496	418	465	83	93	45-160	11	48	
2-Chlorotoluene	ug/kg	ND	99.5	99.3	67.1	72.1	67	73	40-133	7	46	
2-Hexanone	ug/kg	ND	497	496	423	463	85	93	40-160	9	47	
4-Chlorotoluene	ug/kg	ND	99.5	99.3	65.7	70.6	66	71	40-136	7	46	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	497	496	425	462	85	92	40-148	8	49	
Acetone	ug/kg	0.024 mg/kg	497	496	445	480	85	92	40-160	8	44	
Benzene	ug/kg	ND	99.5	99.3	78.5	83.7	79	84	40-141	6	34	
Bromobenzene	ug/kg	ND	99.5	99.3	72.1	78.1	73	79	40-138	8	44	
Bromochloromethane	ug/kg	ND	99.5	99.3	89.0	96.2	90	97	40-141	8	45	
Bromodichloromethane	ug/kg	ND	99.5	99.3	59.9	65.4	60	66	40-136	9	47	
Bromoform	ug/kg	ND	99.5	99.3	76.2	86.2	77	87	40-146	12	47	
Bromomethane	ug/kg	ND	99.5	99.3	68.7	71.4	69	72	40-147	4	40	
Carbon disulfide	ug/kg	ND	99.5	99.3	49.1	64.6	49	65	40-147	27	34	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037204 1037205

Parameter	Units	60125686004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Carbon tetrachloride	ug/kg	ND	99.5	99.3	78.7	82.7	79	83	40-138	5	45	
Chlorobenzene	ug/kg	ND	99.5	99.3	73.4	78.9	74	79	40-130	7	46	
Chloroethane	ug/kg	ND	99.5	99.3	83.4	88.9	84	90	40-157	6	34	
Chloroform	ug/kg	ND	99.5	99.3	72.4	77.0	72	76	40-129	6	43	
Chloromethane	ug/kg	ND	99.5	99.3	75.1	79.7	76	80	40-140	6	37	
cis-1,2-Dichloroethene	ug/kg	ND	99.5	99.3	78.9	84.2	79	85	40-125	6	46	
cis-1,3-Dichloropropene	ug/kg	ND	99.5	99.3	80.1	85.9	80	87	40-132	7	47	
Dibromochloromethane	ug/kg	ND	99.5	99.3	70.3	75.0	71	76	40-144	6	41	
Dibromomethane	ug/kg	ND	99.5	99.3	80.3	87.1	81	88	40-140	8	47	
Dichlorodifluoromethane	ug/kg	ND	99.5	99.3	61.7	66.7	62	67	40-127	8	37	
Ethylbenzene	ug/kg	ND	99.5	99.3	73.9	77.0	73	76	40-149	4	39	
Hexachloro-1,3-butadiene	ug/kg	ND	99.5	99.3	60.9	54.3	61	55	40-128	11	48	
Isopropylbenzene (Cumene)	ug/kg	ND	99.5	99.3	79.0	78.4	79	79	40-142	1	48	
Methyl-tert-butyl ether	ug/kg	ND	99.5	99.3	81.7	90.1	82	91	40-147	10	36	
Methylene chloride	ug/kg	ND	99.5	99.3	87.4	92.4	86	91	40-147	6	44	
n-Butylbenzene	ug/kg	ND	99.5	99.3	69.3	64.4	70	65	40-136	7	47	
n-Propylbenzene	ug/kg	ND	99.5	99.3	69.8	71.5	70	72	40-134	2	45	
Naphthalene	ug/kg	ND	99.5	99.3	74.1	84.5	70	81	40-158	13	46	
p-Isopropyltoluene	ug/kg	ND	99.5	99.3	68.6	65.2	69	66	40-133	5	46	
sec-Butylbenzene	ug/kg	ND	99.5	99.3	71.6	67.7	72	68	40-135	6	48	
Styrene	ug/kg	ND	99.5	99.3	72.7	78.6	73	79	40-133	8	48	
tert-Butylbenzene	ug/kg	ND	99.5	99.3	75.5	72.7	76	73	40-137	4	45	
Tetrachloroethene	ug/kg	ND	99.5	99.3	65.8	73.0	66	74	40-128	10	44	
Toluene	ug/kg	ND	99.5	99.3	70.7	76.3	68	74	40-143	8	39	
trans-1,2-Dichloroethene	ug/kg	ND	99.5	99.3	77.5	83.1	78	84	40-140	7	35	
trans-1,3-Dichloropropene	ug/kg	ND	99.5	99.3	86.7	94.7	87	95	40-144	9	46	
Trichloroethene	ug/kg	ND	99.5	99.3	139	149	139	150	40-139	7	37	M1
Trichlorofluoromethane	ug/kg	ND	99.5	99.3	75.0	81.5	75	82	40-137	8	34	
Vinyl chloride	ug/kg	ND	99.5	99.3	79.0	83.6	79	84	40-150	6	32	
Xylene (Total)	ug/kg	0.0066 mg/kg	299	298	224	236	73	77	40-147	5	40	
1,2-Dichloroethane-d4 (S)	%						100	100	73-135			
4-Bromofluorobenzene (S)	%						101	99	78-125			
Dibromofluoromethane (S)	%						48	44	78-122			S0
Toluene-d8 (S)	%						100	100	80-123			

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: OEXT/34158 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 60125643003, 60125643005, 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

METHOD BLANK: 1034973 Matrix: Solid
Associated Lab Samples: 60125643003, 60125643005, 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	3.2	07/27/12 11:46	
Acenaphthylene	ug/kg	ND	3.2	07/27/12 11:46	
Anthracene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(a)anthracene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(a)pyrene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(b)fluoranthene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(g,h,i)perylene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(k)fluoranthene	ug/kg	ND	3.2	07/27/12 11:46	
Chrysene	ug/kg	ND	3.2	07/27/12 11:46	
Dibenz(a,h)anthracene	ug/kg	ND	3.2	07/27/12 11:46	
Fluoranthene	ug/kg	ND	3.2	07/27/12 11:46	
Fluorene	ug/kg	ND	3.2	07/27/12 11:46	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	3.2	07/27/12 11:46	
Naphthalene	ug/kg	ND	3.2	07/27/12 11:46	
Phenanthrene	ug/kg	ND	3.2	07/27/12 11:46	
Pyrene	ug/kg	ND	3.2	07/27/12 11:46	
2-Fluorobiphenyl (S)	%	78	41-120	07/27/12 11:46	
Nitrobenzene-d5 (S)	%	95	35-121	07/27/12 11:46	
Terphenyl-d14 (S)	%	78	39-123	07/27/12 11:46	

LABORATORY CONTROL SAMPLE: 1034974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	32.5	26.3	81	58-120	
Acenaphthylene	ug/kg	32.5	25.5	78	56-120	
Anthracene	ug/kg	32.5	23.5	72	55-120	
Benzo(a)anthracene	ug/kg	32.5	26.3	81	60-120	
Benzo(a)pyrene	ug/kg	32.5	26.2	81	54-120	
Benzo(b)fluoranthene	ug/kg	32.5	26.2	81	54-128	
Benzo(g,h,i)perylene	ug/kg	32.5	25.6	79	26-126	
Benzo(k)fluoranthene	ug/kg	32.5	26.0	80	53-120	
Chrysene	ug/kg	32.5	26.8	82	56-120	
Dibenz(a,h)anthracene	ug/kg	32.5	25.7	79	42-120	
Fluoranthene	ug/kg	32.5	27.3	84	57-120	
Fluorene	ug/kg	32.5	27.4	84	58-120	
Indeno(1,2,3-cd)pyrene	ug/kg	32.5	23.9	74	37-120	
Naphthalene	ug/kg	32.5	25.6	79	55-120	
Phenanthrene	ug/kg	32.5	30.1	92	57-120	
Pyrene	ug/kg	32.5	27.3	84	57-120	
2-Fluorobiphenyl (S)	%			81	41-120	
Nitrobenzene-d5 (S)	%			94	35-121	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1034974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			77	39-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1034975 1034976

Parameter	Units	60125643003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	43.3	43.4	36.8	31.9	84	72	45-120	14	30	
Acenaphthylene	ug/kg	ND	43.3	43.4	35.3	30.9	81	71	28-129	13	35	
Anthracene	ug/kg	ND	43.3	43.4	35.9	29.4	83	68	27-130	20	37	
Benzo(a)anthracene	ug/kg	ND	43.3	43.4	38.2	33.5	87	76	36-127	13	39	
Benzo(a)pyrene	ug/kg	ND	43.3	43.4	32.1	29.3	73	66	21-135	9	35	
Benzo(b)fluoranthene	ug/kg	ND	43.3	43.4	41.0	36.9	90	80	17-158	11	36	
Benzo(g,h,i)perylene	ug/kg	ND	43.3	43.4	36.8	34.5	77	72	10-141	6	41	
Benzo(k)fluoranthene	ug/kg	ND	43.3	43.4	32.1	29.1	72	65	47-120	10	33	
Chrysene	ug/kg	ND	43.3	43.4	35.4	29.3	80	66	24-128	19	42	
Dibenz(a,h)anthracene	ug/kg	ND	43.3	43.4	32.9	31.3	75	71	10-137	5	31	
Fluoranthene	ug/kg	ND	43.3	43.4	36.4	31.5	83	71	34-126	15	43	
Fluorene	ug/kg	ND	43.3	43.4	37.9	32.6	86	73	42-123	15	35	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	43.3	43.4	33.7	30.7	76	69	10-126	9	32	
Naphthalene	ug/kg	14.4	43.3	43.4	36.3	33.6	51	44	22-135	8	41	
Phenanthrene	ug/kg	ND	43.3	43.4	42.6	36.9	91	78	29-139	14	42	
Pyrene	ug/kg	ND	43.3	43.4	36.6	32.1	83	72	20-138	13	43	
2-Fluorobiphenyl (S)	%						100	74	41-120			
Nitrobenzene-d5 (S)	%						85	78	35-121			
Terphenyl-d14 (S)	%						98	61	39-123			

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: OEXT/34123 Analysis Method: EPA 8270C by SIM
QC Batch Method: EPA 3510C Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60125643004, 60125643007, 60125643010, 60125643012, 60125643014

METHOD BLANK: 1033735 Matrix: Water
Associated Lab Samples: 60125643004, 60125643007, 60125643010, 60125643012, 60125643014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	08/05/12 11:51	
Acenaphthylene	ug/L	ND	0.10	08/05/12 11:51	
Anthracene	ug/L	ND	0.10	08/05/12 11:51	
Benzo(a)anthracene	ug/L	ND	0.10	08/05/12 11:51	
Benzo(a)pyrene	ug/L	ND	0.10	08/05/12 11:51	
Benzo(b)fluoranthene	ug/L	ND	0.10	08/05/12 11:51	
Benzo(g,h,i)perylene	ug/L	ND	0.10	08/05/12 11:51	
Benzo(k)fluoranthene	ug/L	ND	0.10	08/05/12 11:51	
Chrysene	ug/L	ND	0.10	08/05/12 11:51	
Dibenz(a,h)anthracene	ug/L	ND	0.10	08/05/12 11:51	
Fluoranthene	ug/L	ND	0.10	08/05/12 11:51	
Fluorene	ug/L	ND	0.10	08/05/12 11:51	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	08/05/12 11:51	
Naphthalene	ug/L	ND	0.50	08/05/12 11:51	
Phenanthrene	ug/L	ND	0.50	08/05/12 11:51	
Pyrene	ug/L	ND	0.10	08/05/12 11:51	
2-Fluorobiphenyl (S)	%	89	44-120	08/05/12 11:51	
Nitrobenzene-d5 (S)	%	105	42-120	08/05/12 11:51	
Terphenyl-d14 (S)	%	116	46-131	08/05/12 11:51	

LABORATORY CONTROL SAMPLE: 1033736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	10	8.2	82	48-120	
Acenaphthylene	ug/L	10	8.4	84	42-120	
Anthracene	ug/L	10	8.7	87	48-120	
Benzo(a)anthracene	ug/L	10	9.1	91	53-118	
Benzo(a)pyrene	ug/L	10	8.6	86	48-115	
Benzo(b)fluoranthene	ug/L	10	8.6	86	42-132	
Benzo(g,h,i)perylene	ug/L	10	7.1	71	38-116	
Benzo(k)fluoranthene	ug/L	10	8.9	89	48-117	
Chrysene	ug/L	10	8.8	88	51-115	
Dibenz(a,h)anthracene	ug/L	10	6.7	67	40-116	
Fluoranthene	ug/L	10	10.5	105	37-134	
Fluorene	ug/L	10	9.1	91	49-116	
Indeno(1,2,3-cd)pyrene	ug/L	10	6.8	68	37-118	
Naphthalene	ug/L	10	8.2	82	41-112	
Phenanthrene	ug/L	10	8.7	87	52-116	
Pyrene	ug/L	10	8.8	88	44-134	
2-Fluorobiphenyl (S)	%			80	44-120	
Nitrobenzene-d5 (S)	%			94	42-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1033736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			83	46-131	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: OEXT/34136
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270C by SIM
Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60125643001, 60125643002

METHOD BLANK: 1034350
Matrix: Water
Associated Lab Samples: 60125643001, 60125643002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	08/03/12 17:05	
Acenaphthylene	ug/L	ND	0.10	08/03/12 17:05	
Anthracene	ug/L	ND	0.10	08/03/12 17:05	
Benzo(a)anthracene	ug/L	ND	0.10	08/03/12 17:05	
Benzo(a)pyrene	ug/L	ND	0.10	08/03/12 17:05	
Benzo(b)fluoranthene	ug/L	ND	0.10	08/03/12 17:05	
Benzo(g,h,i)perylene	ug/L	ND	0.10	08/03/12 17:05	
Benzo(k)fluoranthene	ug/L	ND	0.10	08/03/12 17:05	
Chrysene	ug/L	ND	0.10	08/03/12 17:05	
Dibenz(a,h)anthracene	ug/L	ND	0.10	08/03/12 17:05	
Fluoranthene	ug/L	0.15	0.10	08/03/12 17:05	
Fluorene	ug/L	ND	0.10	08/03/12 17:05	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	08/03/12 17:05	
Naphthalene	ug/L	ND	0.50	08/03/12 17:05	
Phenanthrene	ug/L	ND	0.50	08/03/12 17:05	
Pyrene	ug/L	ND	0.10	08/03/12 17:05	
2-Fluorobiphenyl (S)	%	83	44-120	08/03/12 17:05	
Nitrobenzene-d5 (S)	%	93	42-120	08/03/12 17:05	
Terphenyl-d14 (S)	%	91	46-131	08/03/12 17:05	

LABORATORY CONTROL SAMPLE: 1034351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	10	7.3	73	48-120	
Acenaphthylene	ug/L	10	7.3	73	42-120	
Anthracene	ug/L	10	8.0	80	48-120	
Benzo(a)anthracene	ug/L	10	10.0	100	53-118	
Benzo(a)pyrene	ug/L	10	8.2	82	48-115	
Benzo(b)fluoranthene	ug/L	10	9.5	95	42-132	
Benzo(g,h,i)perylene	ug/L	10	7.6	76	38-116	
Benzo(k)fluoranthene	ug/L	10	7.5	75	48-117	
Chrysene	ug/L	10	7.5	75	51-115	
Dibenz(a,h)anthracene	ug/L	10	7.0	70	40-116	
Fluoranthene	ug/L	10	9.6	96	37-134	
Fluorene	ug/L	10	8.2	82	49-116	
Indeno(1,2,3-cd)pyrene	ug/L	10	7.0	70	37-118	
Naphthalene	ug/L	10	7.2	72	41-112	
Phenanthrene	ug/L	10	7.8	78	52-116	
Pyrene	ug/L	10	7.9	79	44-134	
2-Fluorobiphenyl (S)	%			70	44-120	
Nitrobenzene-d5 (S)	%			79	42-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

LABORATORY CONTROL SAMPLE: 1034351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			73	46-131	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: OEXT/34120 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60125643004, 60125643007, 60125643010, 60125643012, 60125643014

METHOD BLANK: 1033727 Matrix: Water
Associated Lab Samples: 60125643004, 60125643007, 60125643010, 60125643012, 60125643014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	07/25/12 02:52	
Fuel Oil	mg/L	ND	0.40	07/25/12 02:52	
Jet Fuel	mg/L	ND	0.40	07/25/12 02:52	
Kerosene	mg/L	ND	0.40	07/25/12 02:52	
Mineral Spirits	mg/L	ND	0.40	07/25/12 02:52	
Motor Oil	mg/L	ND	0.40	07/25/12 02:52	
n-Tetracosane (S)	%	73	30-122	07/25/12 02:52	
p-Terphenyl (S)	%	73	20-122	07/25/12 02:52	

LABORATORY CONTROL SAMPLE: 1033728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	25	21.0	84	47-122	
n-Tetracosane (S)	%			73	30-122	
p-Terphenyl (S)	%			72	20-122	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: OEXT/34137 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60125643001, 60125643002

METHOD BLANK: 1034359 Matrix: Water
Associated Lab Samples: 60125643001, 60125643002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	07/27/12 07:24	
Fuel Oil	mg/L	ND	0.40	07/27/12 07:24	
Jet Fuel	mg/L	ND	0.40	07/27/12 07:24	
Kerosene	mg/L	ND	0.40	07/27/12 07:24	
Mineral Spirits	mg/L	ND	0.40	07/27/12 07:24	
Motor Oil	mg/L	ND	0.40	07/27/12 07:24	
Total Petroleum Hydrocarbons	mg/L	ND	0.40	07/27/12 07:24	
n-Tetracosane (S)	%	68	30-122	07/27/12 07:24	
p-Terphenyl (S)	%	66	20-122	07/27/12 07:24	

LABORATORY CONTROL SAMPLE: 1034360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	25	20.2	81	47-122	
n-Tetracosane (S)	%			66	30-122	
p-Terphenyl (S)	%			66	20-122	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: OEXT/34132 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60125643003, 60125643005, 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

METHOD BLANK: 1034325 Matrix: Solid
Associated Lab Samples: 60125643003, 60125643005, 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/kg	ND	18.4	07/29/12 04:59	
Fuel Oil	mg/kg	ND	18.4	07/29/12 04:59	
Jet Fuel	mg/kg	ND	18.4	07/29/12 04:59	
Kerosene	mg/kg	ND	18.4	07/29/12 04:59	
Mineral Spirits	mg/kg	ND	18.4	07/29/12 04:59	
Motor Oil	mg/kg	ND	18.4	07/29/12 04:59	
Total Petroleum Hydrocarbons	mg/kg	ND	18.4	07/29/12 04:59	
n-Tetracosane (S)	%	81	50-137	07/29/12 04:59	
p-Terphenyl (S)	%	75	41-129	07/29/12 04:59	

LABORATORY CONTROL SAMPLE: 1034326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/kg	472	404	86	66-138	M4
n-Tetracosane (S)	%			78	50-137	
p-Terphenyl (S)	%			68	41-129	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: PMST/7541
Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60125643003, 60125643005

METHOD BLANK: 1037827
Matrix: Solid
Associated Lab Samples: 60125643003, 60125643005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/01/12 00:00	

SAMPLE DUPLICATE: 1037828

Parameter	Units	60125570007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.2	20.7	8	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: PMST/7542 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

METHOD BLANK: 1037829 Matrix: Solid
Associated Lab Samples: 60125643006, 60125643008, 60125643009, 60125643011, 60125643013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/01/12 00:00	

SAMPLE DUPLICATE: 1037830

Parameter	Units	60125643006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.3	19.3	0	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

QC Batch: WETA/20978
QC Batch Method: SM 3500-Cr D
Analysis Method: SM 3500-Cr D
Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 60125643001, 60125643002

METHOD BLANK: 1033097
Matrix: Water
Associated Lab Samples: 60125643001, 60125643002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	ND	0.010	07/21/12 10:55	

LABORATORY CONTROL SAMPLE: 1033098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.1	0.10	102	90-110	

MATRIX SPIKE SAMPLE: 1033099

Parameter	Units	60125643002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	ND	.1	0.10	101	85-115	

SAMPLE DUPLICATE: 1033100

Parameter	Units	60125643001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/L	ND	ND		20	

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QUALIFIERS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 60125643014

[1] VOC analyzed from vial with headspace >6 mm.

BATCH QUALIFIERS

Batch: OEXT/34120

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/34123

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/34136

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/34137

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47270

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47311

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47349

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47352

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALIFIERS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

BATCH QUALIFIERS

Batch: MSV/47353
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47378
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47379
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47383
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47406
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47407
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	Surrogate recovery outside laboratory control limits due to matrix interferences.
2e	The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to late motor oil range. Quantitation achieved using diesel fuel as a reference standard.
3e	The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to early motor oil range. Quantitation achieved using diesel fuel as a reference standard.
B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D4	Sample was diluted due to the presence of high levels of target analytes.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M4	A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125643001	**FIELD BLANK**	OA2	OEXT/34137	OA2	GCSV/12858
60125643002	**EQUIPMENT RINSATE**	OA2	OEXT/34137	OA2	GCSV/12858
60125643004	**SB-1-GW**	OA2	OEXT/34120	OA2	GCSV/12838
60125643007	**SB-3-GW**	OA2	OEXT/34120	OA2	GCSV/12838
60125643010	**SB-5-GW**	OA2	OEXT/34120	OA2	GCSV/12838
60125643012	**SB-6-GW**	OA2	OEXT/34120	OA2	GCSV/12838
60125643014	**SB-7-GW**	OA2	OEXT/34120	OA2	GCSV/12838
60125643003	**SB-1-25-27**	OA2	OEXT/34132	OA2	GCSV/12862
60125643005	**SB-2-2-4**	OA2	OEXT/34132	OA2	GCSV/12862
60125643006	**SB-3-16-18**	OA2	OEXT/34132	OA2	GCSV/12862
60125643008	**SB-4-14-16**	OA2	OEXT/34132	OA2	GCSV/12862
60125643009	**SB-5-10-12**	OA2	OEXT/34132	OA2	GCSV/12862
60125643011	**SB-6-14-16**	OA2	OEXT/34132	OA2	GCSV/12862
60125643013	**SB-7-10-12**	OA2	OEXT/34132	OA2	GCSV/12862
60125643003	**SB-1-25-27**	EPA 3050	MPRP/18848	EPA 6010	ICP/15697
60125643005	**SB-2-2-4**	EPA 3050	MPRP/18848	EPA 6010	ICP/15697
60125643006	**SB-3-16-18**	EPA 3050	MPRP/18848	EPA 6010	ICP/15697
60125643008	**SB-4-14-16**	EPA 3050	MPRP/18848	EPA 6010	ICP/15697
60125643009	**SB-5-10-12**	EPA 3050	MPRP/18848	EPA 6010	ICP/15697
60125643011	**SB-6-14-16**	EPA 3050	MPRP/18848	EPA 6010	ICP/15697
60125643013	**SB-7-10-12**	EPA 3050	MPRP/18848	EPA 6010	ICP/15697
60125643001	**FIELD BLANK**	EPA 3010	MPRP/18881	EPA 6010	ICP/15725
60125643002	**EQUIPMENT RINSATE**	EPA 3010	MPRP/18881	EPA 6010	ICP/15725
60125643004	**SB-1-GW**	EPA 3010	MPRP/18874	EPA 6010	ICP/15704
60125643007	**SB-3-GW**	EPA 3010	MPRP/18874	EPA 6010	ICP/15704
60125643010	**SB-5-GW**	EPA 3010	MPRP/18874	EPA 6010	ICP/15704
60125643012	**SB-6-GW**	EPA 3010	MPRP/18874	EPA 6010	ICP/15704
60125643014	**SB-7-GW**	EPA 3010	MPRP/18874	EPA 6010	ICP/15704
60125643001	**FIELD BLANK**	EPA 3010	MPRP/18880	EPA 6010	ICP/15715
60125643002	**EQUIPMENT RINSATE**	EPA 3010	MPRP/18880	EPA 6010	ICP/15715
60125643004	**SB-1-GW**	EPA 3010	MPRP/18877	EPA 6010	ICP/15706
60125643007	**SB-3-GW**	EPA 3010	MPRP/18877	EPA 6010	ICP/15706
60125643010	**SB-5-GW**	EPA 3010	MPRP/18877	EPA 6010	ICP/15706
60125643012	**SB-6-GW**	EPA 3010	MPRP/18877	EPA 6010	ICP/15706
60125643014	**SB-7-GW**	EPA 3010	MPRP/18877	EPA 6010	ICP/15706
60125643001	**FIELD BLANK**	EPA 7470	MERP/6475	EPA 7470	MERC/6436
60125643002	**EQUIPMENT RINSATE**	EPA 7470	MERP/6475	EPA 7470	MERC/6436
60125643004	**SB-1-GW**	EPA 7470	MERP/6475	EPA 7470	MERC/6436
60125643007	**SB-3-GW**	EPA 7470	MERP/6475	EPA 7470	MERC/6436
60125643010	**SB-5-GW**	EPA 7470	MERP/6475	EPA 7470	MERC/6436
60125643012	**SB-6-GW**	EPA 7470	MERP/6475	EPA 7470	MERC/6436
60125643014	**SB-7-GW**	EPA 7470	MERP/6475	EPA 7470	MERC/6436
60125643001	**FIELD BLANK**	EPA 7470	MERP/6489	EPA 7470	MERC/6458
60125643002	**EQUIPMENT RINSATE**	EPA 7470	MERP/6489	EPA 7470	MERC/6458

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125643004	**SB-1-GW**	EPA 7470	MERP/6489	EPA 7470	MERC/6458
60125643007	**SB-3-GW**	EPA 7470	MERP/6489	EPA 7470	MERC/6458
60125643010	**SB-5-GW**	EPA 7470	MERP/6489	EPA 7470	MERC/6458
60125643012	**SB-6-GW**	EPA 7470	MERP/6489	EPA 7470	MERC/6458
60125643014	**SB-7-GW**	EPA 7470	MERP/6489	EPA 7470	MERC/6458
60125643003	**SB-1-25-27**	EPA 7471	MERP/6477	EPA 7471	MERC/6444
60125643005	**SB-2-2-4**	EPA 7471	MERP/6477	EPA 7471	MERC/6444
60125643006	**SB-3-16-18**	EPA 7471	MERP/6477	EPA 7471	MERC/6444
60125643008	**SB-4-14-16**	EPA 7471	MERP/6477	EPA 7471	MERC/6444
60125643009	**SB-5-10-12**	EPA 7471	MERP/6477	EPA 7471	MERC/6444
60125643011	**SB-6-14-16**	EPA 7471	MERP/6477	EPA 7471	MERC/6444
60125643013	**SB-7-10-12**	EPA 7471	MERP/6477	EPA 7471	MERC/6444
60125643003	**SB-1-25-27**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125643005	**SB-2-2-4**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125643006	**SB-3-16-18**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125643008	**SB-4-14-16**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125643009	**SB-5-10-12**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125643011	**SB-6-14-16**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125643013	**SB-7-10-12**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125643001	**FIELD BLANK**	EPA 3510C	OEXT/34136	EPA 8270C by SIM	MSSV/10739
60125643002	**EQUIPMENT RINSATE**	EPA 3510C	OEXT/34136	EPA 8270C by SIM	MSSV/10739
60125643004	**SB-1-GW**	EPA 3510C	OEXT/34123	EPA 8270C by SIM	MSSV/10743
60125643007	**SB-3-GW**	EPA 3510C	OEXT/34123	EPA 8270C by SIM	MSSV/10743
60125643010	**SB-5-GW**	EPA 3510C	OEXT/34123	EPA 8270C by SIM	MSSV/10743
60125643012	**SB-6-GW**	EPA 3510C	OEXT/34123	EPA 8270C by SIM	MSSV/10743
60125643014	**SB-7-GW**	EPA 3510C	OEXT/34123	EPA 8270C by SIM	MSSV/10743
60125643003	**SB-1-25-27**	OA1	MSV/47378		
60125643005	**SB-2-2-4**	OA1	MSV/47378		
60125643006	**SB-3-16-18**	OA1	MSV/47379		
60125643008	**SB-4-14-16**	OA1	MSV/47379		
60125643009	**SB-5-10-12**	OA1	MSV/47379		
60125643011	**SB-6-14-16**	OA1	MSV/47379		
60125643013	**SB-7-10-12**	OA1	MSV/47379		
60125643001	**FIELD BLANK**	EPA 5030B/8260	MSV/47383		
60125643002	**EQUIPMENT RINSATE**	EPA 5030B/8260	MSV/47383		
60125643004	**SB-1-GW**	EPA 5030B/8260	MSV/47349		
60125643007	**SB-3-GW**	EPA 5030B/8260	MSV/47349		
60125643010	**SB-5-GW**	EPA 5030B/8260	MSV/47352		
60125643012	**SB-6-GW**	EPA 5030B/8260	MSV/47352		
60125643014	**SB-7-GW**	EPA 5030B/8260	MSV/47352		
60125643001	**FIELD BLANK**	EPA 8260/OA1	MSV/47407		
60125643002	**EQUIPMENT RINSATE**	EPA 8260/OA1	MSV/47407		
60125643004	**SB-1-GW**	EPA 8260/OA1	MSV/47406		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KUHLMAN DIECASTING
Pace Project No.: 60125643

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125643007	**SB-3-GW**	EPA 8260/OA1	MSV/47406		
60125643010	**SB-5-GW**	EPA 8260/OA1	MSV/47353		
60125643012	**SB-6-GW**	EPA 8260/OA1	MSV/47353		
60125643014	**SB-7-GW**	EPA 8260/OA1	MSV/47353		
60125643003	**SB-1-25-27**	EPA 8260	MSV/47270		
60125643005	**SB-2-2-4**	EPA 8260	MSV/47270		
60125643006	**SB-3-16-18**	EPA 8260	MSV/47311		
60125643008	**SB-4-14-16**	EPA 8260	MSV/47311		
60125643009	**SB-5-10-12**	EPA 8260	MSV/47311		
60125643011	**SB-6-14-16**	EPA 8260	MSV/47311		
60125643013	**SB-7-10-12**	EPA 8260	MSV/47311		
60125643015	**TRIP BLANK**	EPA 8260	MSV/47410		
60125643003	**SB-1-25-27**	ASTM D2974	PMST/7541		
60125643005	**SB-2-2-4**	ASTM D2974	PMST/7541		
60125643006	**SB-3-16-18**	ASTM D2974	PMST/7542		
60125643008	**SB-4-14-16**	ASTM D2974	PMST/7542		
60125643009	**SB-5-10-12**	ASTM D2974	PMST/7542		
60125643011	**SB-6-14-16**	ASTM D2974	PMST/7542		
60125643013	**SB-7-10-12**	ASTM D2974	PMST/7542		
60125643001	**FIELD BLANK**	SM 3500-Cr D	WETA/20978		
60125643002	**EQUIPMENT RINSATE**	SM 3500-Cr D	WETA/20978		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

Section A Required Client Information:

Company:	Seagull Environmentals Technologies
Address:	415 Oak St.
	Kansas City, MO 64106
Email To:	jpritchard@seagullenvirotech.com
Phone: 913-220-5887	Fax:
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Jeff Pirtchard
Copy To:	
Purchase Order No.:	
Project Name:	Kuhlman Diecasting
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJW
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: KS

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: 8260	OA1	OA2	PPL metals - 6010/7470	6010 -Cr,Cu,Ni,Zn	PCBs	PAH SIM	Cyanide-total 9012				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60125643
1	SB-1-25-27	SL	C	7/17/12	1011	7/17/12	1011		7	4					2	1		X	X	X	X	~~X~~	X	X	2WGFU	1WG2U				1DG9M, 2DG9B, 2VG9U 003
2	SB-1-GW	WT	G	7/17/12	1205	7/17/12	1205		8	3		2	3					X	X	X	X	~~X~~	X		3DG9H	3AG4U				1BP3N 1.5, 1BP3F 1.5 004
3	SB-2-2-4	SL	C	7/17/12	1432	7/17/12	1432		7	4					2	1		X	X	X	X			X	2WGFU	1WG2U				1DG9M, 2DG9B, 2VG9U 005
4	~~SB-3-16-18~~ SB-3-16-18	SL	C	7/17/12	1608	7/17/12	1608		7	4					2	1									↓	↓				↓ ↓ ↓ 006
5	SB-3-GW	WT	G	7/17/12	1617	7/17/12	1617		8	3		2	3												3DG9H	3AG4U				1BP3N 1.5, 1BP3F 007
6	SB-4-14-16	SL	C	7/18/12	1007	7/18/12	1007		7	4					2	1									2WGFU	1WG2U				1DG9M, 2DG9B, 2VG9U 008
7	SB-5-10-12	SL	C	7/18/12	1102	7/18/12	1102		7	4					2	1									↓	↓				↓ ↓ ↓ 009
8	SB-5-GW	WT	G	—		7/18/12	1042		8	3		2	3												3DG9H	3AG4U				1BP3N 1.5, 1BP3F 1.5 010
9	SB-6-14-16	SL	C	7/18/12	1200	7/18/12	1200		7	4					2	1									2WGFU	1WG2U				1DG9M, 2DG9B, 2VG9U 011
10	SB-6-GW	WT	G	—		7/18/12	1202		8	3		2	3												3DG9H	3AG4U				1BP3N 1.5, 1BP3F 1.5 012
11	SB-7-10-12	SL	C	7/18/12	1423	7/18/12	1423		7	4					2	1									2WGFU	1WG2U				1DG9M, 2DG9B, 2VG9U 013
12	SB-7-GW	WT	G	—		7/18/12	1507		8	3		2	3												3DG9H	3AG4U				1BP3N 1.5, 1BP3F 014

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	7/21/12	0855	[signature]	7/21	~~0855~~	1.6	Y	N	Y
						0855	3.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joel Harvester

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-20-12

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

*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.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

Section A Required Client Information

Company	Seagull Environmentals Technologies
Address	415 Oak St.
	Kansas City, MO 64106
Email To	jpritchard@seagullenvirotech.com
Phone	913-220-5887
Fax:	
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To	Jeff Pirtchard
Copy To	
Purchase Order No.:	
Project Name:	Kuhlman Diecasting
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJW
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: KS

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED 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): 8260	OA1	OA2	PPL metals - 6010/7470	6010 -Cr,Cu,Ni,Zn	PCBs	PAH SIM	Cyanide-total 9012	Hexavalent Chromium	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60125643
1	Field Blank	WT	G	7/20/12	1140	7/20/12	1140		9	4		2	3					–			↓		–		–	3DG4U	3AG4U, 1BP3F, 1BP3N, 1BP3U	
2	~~Rinsate Blank~~ Equipment Rinsate	WT	G	7/20/12	1130	7/20/12	1130		16	4		2	6					–			↓		–		–	6DG4U	7AG4U, ↓ ↓ ↓	
3	Trip Blank	WT	G	—	—	5/31/12	—		2	2								2VG4U										015
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		7/21/12	0855		7/21	~~7/21 0855~~ 0855	1.6	Y	N	Y
							3.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joel Harvester

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-20-12

*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

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Client Name: Seagull Env. Technologies Project # 10612 5643

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____ Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Optional
Proj. Due Date: 8/3
Proj. Name: Kuhlman

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☑ Other ZPLC

Thermometer Used: T-191 / T-194 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.6, 3.7

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 7/21

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☑ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☑ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☑ Yes ☐ No ☐ N/A	6. Kits, Cr^{+6}
Rush Turn Around Time requested:	☐ Yes ☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
Containers intact:	☑ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☑ No ☐ N/A	11.
Filtered volume received for dissolved tests	☑ Yes ☐ No ☐ N/A	12. 7/21
Sample labels match COC:	☑ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: WT, SL		
All containers needing preservation have been checked.	☑ Yes ☐ No ☐ N/A	14. NON-filtered ~~samples~~ containers for samples SB-3-GW & SB-7-GW were out of pH, (both ≈ 7)
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☑ No ☐ N/A 7/21	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐ Yes ☐ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☑ Yes ☐ No ☐ N/A	15. (SB-6-14-16) – (B7-10-12) came w/ TBs
Pace Trip Blank lot # (if purchased): 05 2812-3 - VG9U		
Headspace in VOA vials (>6mm):	☑ Yes ☐ No ☐ N/A	16. SB-1-GW (2 of 3) (SB-7-GW) - (3 of 3) SB-3-GW (2 of 3) SB-5-GW (1 of 3)
Project sampled in USDA Regulated Area:	☐ Yes ☑ No ☐ N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 7/23/12

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)

F-KS-C-003-Rev 05, 19February2010

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 09, 2012

Jeff Pritchard
Seagull Environmental Technologies
415 Oak St.
Kansas City, MO 64106

RE: Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Dear Jeff Pritchard:
Enclosed are the analytical results for sample(s) received by the laboratory on July 25, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Mary Jane Walls

maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60125813001	**SB-8 9-11**	Solid	07/18/12 16:12	07/25/12 08:30
60125813002	**SB-9 12-14**	Solid	07/18/12 16:48	07/25/12 08:30
60125813003	**SB-9 GW**	Water	07/18/12 16:55	07/25/12 08:30
60125813004	**SB-10 12-14**	Solid	07/19/12 09:40	07/25/12 08:30
60125813005	**SB-11 17-19**	Solid	07/19/12 11:50	07/25/12 08:30
60125813006	**SB-14 8-10**	Solid	07/19/12 13:52	07/25/12 08:30
60125813007	**SB-17 10-12**	Solid	07/19/12 15:10	07/25/12 08:30
60125813008	**SB-18 12-14**	Solid	07/20/12 09:08	07/25/12 08:30

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SAMPLE ANALYTE COUNT

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60125813001	**SB-8 9-11**	OA2	NAW	9
		EPA 6010	TJG	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	DWC	1
60125813002	**SB-9 12-14**	OA2	NAW	9
		EPA 6010	TJG	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	DWC	1
60125813003	**SB-9 GW**	OA2	NAW	9
		EPA 6010	SMW	12
		EPA 6010	SMW	12
		EPA 7470	TJT	1
		EPA 7470	TJT	1
		EPA 8270C by SIM	BRM	19
		EPA 5030B/8260	RNS	70
		EPA 8260/OA1	RNS	14
60125813004	**SB-10 12-14**	OA2	NAW	9
		EPA 6010	TJG	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	DWC	1
60125813005	**SB-11 17-19**	OA2	NAW	9
		EPA 6010	TJG	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	DWC	1
60125813006	**SB-14 8-10**	OA2	NAW	9

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SAMPLE ANALYTE COUNT

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6010	TJG	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	DWC	1
60125813007	**SB-17 10-12**	OA2	NAW	9
		EPA 6010	TJG	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	DWC	1
60125813008	**SB-18 12-14**	OA2	NAW	9
		EPA 6010	TJG	12
		EPA 7471	TJT	1
		EPA 8270 by SIM	BRM	19
		OA1	RAB	1
		EPA 8260	RAB	69
		ASTM D2974	DWC	1

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(913)599-5665

ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-8 9-11 **Lab ID: 60125813001** Collected: 07/18/12 16:12 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	**792**	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:42	68334-30-5	
Fuel Oil	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:42	68553-00-4	
Jet Fuel	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:42	94114-58-6	
Kerosene	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:42	8008-20-6	
Mineral Spirits	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:42	8030-30-6	
Motor Oil	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:42	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:42		
Surrogates								
n-Tetracosane (S)	99	%	50-137	1	07/27/12 00:00	07/31/12 00:42	646-31-1	
p-Terphenyl (S)	82	%	41-129	1	07/27/12 00:00	07/31/12 00:42	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	**29.3**	mg/kg	21.3	1	07/31/12 17:10	08/06/12 14:51	7440-36-0	M1
Arsenic	**116**	mg/kg	21.3	1	07/31/12 17:10	08/06/12 14:51	7440-38-2	M1
Beryllium	**16.0**	mg/kg	2.1	1	07/31/12 17:10	08/07/12 09:54	7440-41-7	M1
Cadmium	ND	mg/kg	10.7	1	07/31/12 17:10	08/06/12 14:51	7440-43-9	M1
Chromium	**4060**	mg/kg	10.7	1	07/31/12 17:10	08/06/12 14:51	7440-47-3	M1
Copper	**3630**	mg/kg	21.3	1	07/31/12 17:10	08/06/12 14:51	7440-50-8	M1
Lead	**251**	mg/kg	10.7	1	07/31/12 17:10	08/06/12 14:51	7439-92-1	M1
Nickel	**7180**	mg/kg	10.7	1	07/31/12 17:10	08/06/12 14:51	7440-02-0	M1
Selenium	ND	mg/kg	32.0	1	07/31/12 17:10	08/06/12 14:51	7782-49-2	
Silver	ND	mg/kg	14.9	1	07/31/12 17:10	08/06/12 14:51	7440-22-4	M1
Thallium	ND	mg/kg	42.7	1	07/31/12 17:10	08/06/12 14:51	7440-28-0	M1
Zinc	**1930**	mg/kg	213	1	07/31/12 17:10	08/06/12 14:51	7440-66-6	M1
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.028**	mg/kg	0.019	1	08/04/12 09:00	08/04/12 13:16	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**24.3**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	83-32-9	
Acenaphthylene	**15.9**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	208-96-8	
Anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	120-12-7	
Benzo(a)anthracene	**4.8**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	56-55-3	
Benzo(a)pyrene	**6.0**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	50-32-8	
Benzo(b)fluoranthene	**9.3**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	205-99-2	
Benzo(g,h,i)perylene	**5.3**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	191-24-2	
Benzo(k)fluoranthene	**4.4**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	207-08-9	
Chrysene	**5.6**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	53-70-3	
Fluoranthene	**7.8**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	206-44-0	
Fluorene	**62.5**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	193-39-5	
Naphthalene	**11.2**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	91-20-3	
Phenanthrene	**49.7**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	85-01-8	
Pyrene	**7.4**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:49	129-00-0	

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-8 9-11 **Lab ID: 60125813001** Collected: 07/18/12 16:12 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	124	%	35-121	1	07/26/12 00:00	07/27/12 15:49	4165-60-0	1e
2-Fluorobiphenyl (S)	91	%	41-120	1	07/26/12 00:00	07/27/12 15:49	321-60-8	
Terphenyl-d14 (S)	70	%	39-123	1	07/26/12 00:00	07/27/12 15:49	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	**1.4**	mg/kg	1.1	1		07/26/12 17:09		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**75.3**	ug/kg	22.5	1		07/26/12 17:09	67-64-1	
Benzene	ND	ug/kg	5.6	1		07/26/12 17:09	71-43-2	
Bromobenzene	ND	ug/kg	5.6	1		07/26/12 17:09	108-86-1	
Bromochloromethane	ND	ug/kg	5.6	1		07/26/12 17:09	74-97-5	
Bromodichloromethane	ND	ug/kg	5.6	1		07/26/12 17:09	75-27-4	
Bromoform	ND	ug/kg	5.6	1		07/26/12 17:09	75-25-2	
Bromomethane	ND	ug/kg	5.6	1		07/26/12 17:09	74-83-9	
2-Butanone (MEK)	**13.4**	ug/kg	11.3	1		07/26/12 17:09	78-93-3	
n-Butylbenzene	ND	ug/kg	5.6	1		07/26/12 17:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.6	1		07/26/12 17:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.6	1		07/26/12 17:09	98-06-6	
Carbon disulfide	**6.5**	ug/kg	5.6	1		07/26/12 17:09	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.6	1		07/26/12 17:09	56-23-5	
Chlorobenzene	ND	ug/kg	5.6	1		07/26/12 17:09	108-90-7	
Chloroethane	ND	ug/kg	5.6	1		07/26/12 17:09	75-00-3	
Chloroform	ND	ug/kg	5.6	1		07/26/12 17:09	67-66-3	L2
Chloromethane	ND	ug/kg	5.6	1		07/26/12 17:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.6	1		07/26/12 17:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.6	1		07/26/12 17:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	11.3	1		07/26/12 17:09	96-12-8	
Dibromochloromethane	ND	ug/kg	5.6	1		07/26/12 17:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.6	1		07/26/12 17:09	106-93-4	
Dibromomethane	ND	ug/kg	5.6	1		07/26/12 17:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.6	1		07/26/12 17:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.6	1		07/26/12 17:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.6	1		07/26/12 17:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.6	1		07/26/12 17:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.6	1		07/26/12 17:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	1		07/26/12 17:09	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.6	1		07/26/12 17:09	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.6	1		07/26/12 17:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1		07/26/12 17:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	1		07/26/12 17:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.6	1		07/26/12 17:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.6	1		07/26/12 17:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.6	1		07/26/12 17:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.6	1		07/26/12 17:09	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-8 9-11 **Lab ID: 60125813001** Collected: 07/18/12 16:12 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	5.6	1		07/26/12 17:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.6	1		07/26/12 17:09	10061-02-6	
Ethylbenzene	ND	ug/kg	5.6	1		07/26/12 17:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.6	1		07/26/12 17:09	87-68-3	
2-Hexanone	ND	ug/kg	22.5	1		07/26/12 17:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.6	1		07/26/12 17:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.6	1		07/26/12 17:09	99-87-6	
Methylene chloride	ND	ug/kg	5.6	1		07/26/12 17:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.3	1		07/26/12 17:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.6	1		07/26/12 17:09	1634-04-4	
Naphthalene	ND	ug/kg	11.3	1		07/26/12 17:09	91-20-3	
n-Propylbenzene	ND	ug/kg	5.6	1		07/26/12 17:09	103-65-1	
Styrene	ND	ug/kg	5.6	1		07/26/12 17:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.6	1		07/26/12 17:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	1		07/26/12 17:09	79-34-5	
Tetrachloroethene	ND	ug/kg	5.6	1		07/26/12 17:09	127-18-4	
Toluene	ND	ug/kg	5.6	1		07/26/12 17:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.6	1		07/26/12 17:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.6	1		07/26/12 17:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.6	1		07/26/12 17:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.6	1		07/26/12 17:09	79-00-5	
Trichloroethene	ND	ug/kg	5.6	1		07/26/12 17:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.6	1		07/26/12 17:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.6	1		07/26/12 17:09	96-18-4	
1,2,4-Trimethylbenzene	**5.8**	ug/kg	5.6	1		07/26/12 17:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.6	1		07/26/12 17:09	108-67-8	
Vinyl chloride	ND	ug/kg	5.6	1		07/26/12 17:09	75-01-4	
Xylene (Total)	ND	ug/kg	5.6	1		07/26/12 17:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	78-122	1		07/26/12 17:09	1868-53-7	
Toluene-d8 (S)	101	%	80-123	1		07/26/12 17:09	2037-26-5	
4-Bromofluorobenzene (S)	97	%	78-125	1		07/26/12 17:09	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	73-135	1		07/26/12 17:09	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**21.9**	%	0.50	1		08/03/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-9 12-14 **Lab ID: 60125813002** Collected: 07/18/12 16:48 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	**1980**	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:53	68334-30-5	
Fuel Oil	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:53	68553-00-4	
Jet Fuel	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:53	94114-58-6	
Kerosene	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:53	8008-20-6	
Mineral Spirits	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:53	8030-30-6	
Motor Oil	**153**	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:53	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:53		
Surrogates								
n-Tetracosane (S)	104	%	50-137	1	07/27/12 00:00	07/31/12 00:53	646-31-1	
p-Terphenyl (S)	87	%	41-129	1	07/27/12 00:00	07/31/12 00:53	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	**2.3**	mg/kg	1.2	1	07/31/12 17:10	08/06/12 14:57	7440-36-0	
Arsenic	**5.8**	mg/kg	1.2	1	07/31/12 17:10	08/06/12 14:57	7440-38-2	
Beryllium	**0.81**	mg/kg	0.12	1	07/31/12 17:10	08/07/12 09:56	7440-41-7	
Cadmium	ND	mg/kg	0.58	1	07/31/12 17:10	08/06/12 14:57	7440-43-9	
Chromium	**342**	mg/kg	0.58	1	07/31/12 17:10	08/06/12 14:57	7440-47-3	
Copper	**284**	mg/kg	1.2	1	07/31/12 17:10	08/06/12 14:57	7440-50-8	
Lead	**17.7**	mg/kg	0.58	1	07/31/12 17:10	08/06/12 14:57	7439-92-1	
Nickel	**542**	mg/kg	0.58	1	07/31/12 17:10	08/06/12 14:57	7440-02-0	
Selenium	ND	mg/kg	1.7	1	07/31/12 17:10	08/06/12 14:57	7782-49-2	
Silver	ND	mg/kg	0.81	1	07/31/12 17:10	08/06/12 14:57	7440-22-4	
Thallium	ND	mg/kg	2.3	1	07/31/12 17:10	08/06/12 14:57	7440-28-0	
Zinc	**427**	mg/kg	11.6	1	07/31/12 17:10	08/06/12 14:57	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.031**	mg/kg	0.016	1	08/04/12 09:00	08/04/12 13:19	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	83-32-9	
Acenaphthylene	**66.6**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	208-96-8	
Anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	120-12-7	
Benzo(a)anthracene	**5.1**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	56-55-3	
Benzo(a)pyrene	**4.8**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	50-32-8	
Benzo(b)fluoranthene	**11.4**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	205-99-2	
Benzo(g,h,i)perylene	**5.1**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	191-24-2	
Benzo(k)fluoranthene	**4.5**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	207-08-9	
Chrysene	**10.3**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	53-70-3	
Fluoranthene	**9.7**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	206-44-0	
Fluorene	**49.7**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	193-39-5	
Naphthalene	**6.9**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	91-20-3	
Phenanthrene	**30.7**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	85-01-8	
Pyrene	**11.2**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:10	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-9 12-14 **Lab ID: 60125813002** Collected: 07/18/12 16:48 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	103	%	35-121	1	07/26/12 00:00	07/27/12 16:10	4165-60-0	
2-Fluorobiphenyl (S)	114	%	41-120	1	07/26/12 00:00	07/27/12 16:10	321-60-8	
Terphenyl-d14 (S)	71	%	39-123	1	07/26/12 00:00	07/27/12 16:10	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	**1.8**	mg/kg	1.3	1		07/30/12 20:22		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**224**	ug/kg	25.2	1		07/30/12 20:22	67-64-1	
Benzene	ND	ug/kg	6.3	1		07/30/12 20:22	71-43-2	
Bromobenzene	ND	ug/kg	6.3	1		07/30/12 20:22	108-86-1	
Bromochloromethane	ND	ug/kg	6.3	1		07/30/12 20:22	74-97-5	
Bromodichloromethane	ND	ug/kg	6.3	1		07/30/12 20:22	75-27-4	
Bromoform	ND	ug/kg	6.3	1		07/30/12 20:22	75-25-2	
Bromomethane	ND	ug/kg	6.3	1		07/30/12 20:22	74-83-9	
2-Butanone (MEK)	**27.8**	ug/kg	12.6	1		07/30/12 20:22	78-93-3	
n-Butylbenzene	ND	ug/kg	6.3	1		07/30/12 20:22	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.3	1		07/30/12 20:22	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.3	1		07/30/12 20:22	98-06-6	
Carbon disulfide	**32.9**	ug/kg	6.3	1		07/30/12 20:22	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.3	1		07/30/12 20:22	56-23-5	
Chlorobenzene	ND	ug/kg	6.3	1		07/30/12 20:22	108-90-7	
Chloroethane	ND	ug/kg	6.3	1		07/30/12 20:22	75-00-3	
Chloroform	ND	ug/kg	6.3	1		07/30/12 20:22	67-66-3	
Chloromethane	ND	ug/kg	6.3	1		07/30/12 20:22	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.3	1		07/30/12 20:22	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.3	1		07/30/12 20:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	12.6	1		07/30/12 20:22	96-12-8	
Dibromochloromethane	ND	ug/kg	6.3	1		07/30/12 20:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.3	1		07/30/12 20:22	106-93-4	
Dibromomethane	ND	ug/kg	6.3	1		07/30/12 20:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.3	1		07/30/12 20:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.3	1		07/30/12 20:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.3	1		07/30/12 20:22	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	6.3	1		07/30/12 20:22	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.3	1		07/30/12 20:22	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.3	1		07/30/12 20:22	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	6.3	1		07/30/12 20:22	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.3	1		07/30/12 20:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.3	1		07/30/12 20:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.3	1		07/30/12 20:22	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.3	1		07/30/12 20:22	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.3	1		07/30/12 20:22	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.3	1		07/30/12 20:22	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.3	1		07/30/12 20:22	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-9 12-14 **Lab ID: 60125813002** Collected: 07/18/12 16:48 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	6.3	1		07/30/12 20:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.3	1		07/30/12 20:22	10061-02-6	
Ethylbenzene	ND	ug/kg	6.3	1		07/30/12 20:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.3	1		07/30/12 20:22	87-68-3	
2-Hexanone	ND	ug/kg	25.2	1		07/30/12 20:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.3	1		07/30/12 20:22	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.3	1		07/30/12 20:22	99-87-6	
Methylene chloride	ND	ug/kg	6.3	1		07/30/12 20:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.6	1		07/30/12 20:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.3	1		07/30/12 20:22	1634-04-4	
Naphthalene	ND	ug/kg	12.6	1		07/30/12 20:22	91-20-3	
n-Propylbenzene	ND	ug/kg	6.3	1		07/30/12 20:22	103-65-1	
Styrene	ND	ug/kg	6.3	1		07/30/12 20:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.3	1		07/30/12 20:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.3	1		07/30/12 20:22	79-34-5	
Tetrachloroethene	ND	ug/kg	6.3	1		07/30/12 20:22	127-18-4	
Toluene	ND	ug/kg	6.3	1		07/30/12 20:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.3	1		07/30/12 20:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.3	1		07/30/12 20:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.3	1		07/30/12 20:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.3	1		07/30/12 20:22	79-00-5	
Trichloroethene	ND	ug/kg	6.3	1		07/30/12 20:22	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.3	1		07/30/12 20:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.3	1		07/30/12 20:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.3	1		07/30/12 20:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.3	1		07/30/12 20:22	108-67-8	
Vinyl chloride	ND	ug/kg	6.3	1		07/30/12 20:22	75-01-4	
Xylene (Total)	ND	ug/kg	6.3	1		07/30/12 20:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%	78-122	1		07/30/12 20:22	1868-53-7	
Toluene-d8 (S)	98	%	80-123	1		07/30/12 20:22	2037-26-5	
4-Bromofluorobenzene (S)	100	%	78-125	1		07/30/12 20:22	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	73-135	1		07/30/12 20:22	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**22.9**	%	0.50	1		08/03/12 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-9 GW **Lab ID: 60125813003** Collected: 07/18/12 16:55 Received: 07/25/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:47	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:47	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:47	94114-58-6	
Kerosene	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:47	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:47	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:47	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/L	0.40	1	07/25/12 00:00	07/27/12 10:47		
Surrogates								
p-Terphenyl (S)	59	%	20-122	1	07/25/12 00:00	07/27/12 10:47	92-94-4	
n-Tetracosane (S)	63	%	30-122	1	07/25/12 00:00	07/27/12 10:47	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:26	7440-36-0	
Arsenic	**77.3**	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:26	7440-38-2	
Beryllium	**2.7**	ug/L	1.0	1	07/27/12 14:15	07/31/12 14:26	7440-41-7	
Cadmium	**29.0**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:26	7440-43-9	
Chromium	**152**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:26	7440-47-3	
Copper	**54.1**	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:26	7440-50-8	
Lead	**101**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:26	7439-92-1	
Nickel	**136**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:26	7440-02-0	
Selenium	ND	ug/L	15.0	1	07/27/12 14:15	07/31/12 14:26	7782-49-2	
Silver	ND	ug/L	7.0	1	07/27/12 14:15	07/31/12 14:26	7440-22-4	
Thallium	ND	ug/L	20.0	1	07/27/12 14:15	07/31/12 14:26	7440-28-0	
Zinc	**948**	ug/L	50.0	1	07/27/12 14:15	07/31/12 14:26	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:56	7440-36-0	
Arsenic, Dissolved	**17.6**	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:56	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	07/27/12 10:30	07/30/12 13:56	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:56	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:56	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:56	7440-50-8	
Lead, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:56	7439-92-1	
Nickel, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:56	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	07/27/12 10:30	07/30/12 13:56	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	07/27/12 10:30	07/30/12 13:56	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	07/27/12 10:30	07/30/12 13:56	7440-28-0	
Zinc, Dissolved	**56.6**	ug/L	50.0	1	07/27/12 10:30	07/30/12 13:56	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.30**	ug/L	0.20	1	07/31/12 18:30	08/02/12 11:59	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	08/01/12 06:30	08/03/12 11:49	7439-97-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-9 GW **Lab ID: 60125813003** Collected: 07/18/12 16:55 Received: 07/25/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/25/12 00:00	08/06/12 21:37	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/25/12 00:00	08/06/12 21:37	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/25/12 00:00	08/06/12 21:37	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	80	%	42-120	1	07/25/12 00:00	08/06/12 21:37	4165-60-0	
2-Fluorobiphenyl (S)	78	%	44-120	1	07/25/12 00:00	08/06/12 21:37	321-60-8	
Terphenyl-d14 (S)	94	%	46-131	1	07/25/12 00:00	08/06/12 21:37	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		07/27/12 15:11	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/12 15:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/12 15:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/12 15:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/27/12 15:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/12 15:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/12 15:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/12 15:11	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/27/12 15:11	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/27/12 15:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/27/12 15:11	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		07/27/12 15:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/12 15:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/12 15:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/12 15:11	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/27/12 15:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/12 15:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/12 15:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/12 15:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		07/27/12 15:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/12 15:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/27/12 15:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/12 15:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 15:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 15:11	541-73-1	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-9 GW **Lab ID: 60125813003** Collected: 07/18/12 16:55 Received: 07/25/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/12 15:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/12 15:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/27/12 15:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/12 15:11	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		07/27/12 15:11	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/12 15:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/12 15:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/12 15:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/12 15:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/12 15:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/12 15:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/12 15:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/12 15:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/12 15:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 15:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/27/12 15:11	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		07/27/12 15:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/27/12 15:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/12 15:11	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		07/27/12 15:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/12 15:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/27/12 15:11	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/27/12 15:11	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/27/12 15:11	103-65-1	
Styrene	ND	ug/L	1.0	1		07/27/12 15:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/12 15:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/12 15:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/27/12 15:11	127-18-4	
Toluene	ND	ug/L	1.0	1		07/27/12 15:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/12 15:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/12 15:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/12 15:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/27/12 15:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/27/12 15:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/12 15:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		07/27/12 15:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/27/12 15:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/27/12 15:11	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		07/27/12 15:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 15:11	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1		07/27/12 15:11	460-00-4	
Dibromofluoromethane (S)	100	%	80-120	1		07/27/12 15:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	91	%	80-120	1		07/27/12 15:11	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		07/27/12 15:11	2037-26-5	
Preservation pH	**1.0**		0.10	1		07/27/12 15:11		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-9 GW **Lab ID: 60125813003** Collected: 07/18/12 16:55 Received: 07/25/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		07/27/12 15:11		
Benzene	ND	ug/L	1.0	1		07/27/12 15:11	71-43-2	
Toluene	ND	ug/L	1.0	1		07/27/12 15:11	108-88-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/12 15:11	100-41-4	
Xylene (Total)	ND	ug/L	3.0	1		07/27/12 15:11	1330-20-7	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/27/12 15:11	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/27/12 15:11	91-20-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/12 15:11	107-06-2	
tert-Butyl Alcohol	ND	ug/L	10.0	1		07/27/12 15:11	75-65-0	
Surrogates								
Dibromofluoromethane (S)	100	%	80-120	1		07/27/12 15:11	1868-53-7	
Toluene-d8 (S)	100	%	80-120	1		07/27/12 15:11	2037-26-5	
4-Bromofluorobenzene (S)	103	%	80-120	1		07/27/12 15:11	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-120	1		07/27/12 15:11	17060-07-0	
Preservation pH	**1.0**		0.10	1		07/27/12 15:11		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-10 12-14 **Lab ID: 60125813004** Collected: 07/19/12 09:40 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	24.1	1	07/27/12 00:00	07/31/12 01:04	68334-30-5	
Fuel Oil	ND	mg/kg	24.1	1	07/27/12 00:00	07/31/12 01:04	68553-00-4	
Jet Fuel	ND	mg/kg	24.1	1	07/27/12 00:00	07/31/12 01:04	94114-58-6	
Kerosene	ND	mg/kg	24.1	1	07/27/12 00:00	07/31/12 01:04	8008-20-6	
Mineral Spirits	ND	mg/kg	24.1	1	07/27/12 00:00	07/31/12 01:04	8030-30-6	
Motor Oil	ND	mg/kg	24.1	1	07/27/12 00:00	07/31/12 01:04	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	24.1	1	07/27/12 00:00	07/31/12 01:04		
Surrogates								
n-Tetracosane (S)	101	%	50-137	1	07/27/12 00:00	07/31/12 01:04	646-31-1	
p-Terphenyl (S)	86	%	41-129	1	07/27/12 00:00	07/31/12 01:04	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.0	1	07/31/12 17:10	08/06/12 14:59	7440-36-0	
Arsenic	**4.3**	mg/kg	1.0	1	07/31/12 17:10	08/06/12 14:59	7440-38-2	
Beryllium	**0.82**	mg/kg	0.10	1	07/31/12 17:10	08/07/12 09:58	7440-41-7	
Cadmium	ND	mg/kg	0.51	1	07/31/12 17:10	08/06/12 14:59	7440-43-9	
Chromium	**14.6**	mg/kg	0.51	1	07/31/12 17:10	08/06/12 14:59	7440-47-3	
Copper	**13.2**	mg/kg	1.0	1	07/31/12 17:10	08/06/12 14:59	7440-50-8	
Lead	**11.3**	mg/kg	0.51	1	07/31/12 17:10	08/06/12 14:59	7439-92-1	
Nickel	**17.5**	mg/kg	0.51	1	07/31/12 17:10	08/06/12 14:59	7440-02-0	
Selenium	ND	mg/kg	1.5	1	07/31/12 17:10	08/06/12 14:59	7782-49-2	
Silver	ND	mg/kg	0.72	1	07/31/12 17:10	08/06/12 14:59	7440-22-4	
Thallium	ND	mg/kg	2.1	1	07/31/12 17:10	08/06/12 14:59	7440-28-0	
Zinc	**46.9**	mg/kg	10.3	1	07/31/12 17:10	08/06/12 14:59	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.016	1	08/04/12 09:00	08/04/12 13:21	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	83-32-9	
Acenaphthylene	ND	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	208-96-8	
Anthracene	**13.0**	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	120-12-7	
Benzo(a)anthracene	**73.8**	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	56-55-3	
Benzo(a)pyrene	**65.5**	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	50-32-8	
Benzo(b)fluoranthene	**78.1**	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	205-99-2	
Benzo(g,h,i)perylene	**38.1**	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	191-24-2	
Benzo(k)fluoranthene	**51.6**	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	207-08-9	
Chrysene	**69.0**	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	218-01-9	
Dibenz(a,h)anthracene	**15.1**	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	53-70-3	
Fluoranthene	**94.5**	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	206-44-0	
Fluorene	ND	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	86-73-7	
Indeno(1,2,3-cd)pyrene	**31.5**	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	193-39-5	
Naphthalene	ND	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	91-20-3	
Phenanthrene	**50.1**	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	85-01-8	
Pyrene	**78.9**	ug/kg	4.0	1	07/26/12 00:00	07/27/12 16:30	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-10 12-14 **Lab ID: 60125813004** Collected: 07/19/12 09:40 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	85	%	35-121	1	07/26/12 00:00	07/27/12 16:30	4165-60-0	
2-Fluorobiphenyl (S)	80	%	41-120	1	07/26/12 00:00	07/27/12 16:30	321-60-8	
Terphenyl-d14 (S)	71	%	39-123	1	07/26/12 00:00	07/27/12 16:30	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	ND	mg/kg	1.0	1		07/26/12 17:40		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**87.3**	ug/kg	20.8	1		07/26/12 17:40	67-64-1	
Benzene	ND	ug/kg	5.2	1		07/26/12 17:40	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		07/26/12 17:40	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		07/26/12 17:40	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		07/26/12 17:40	75-27-4	
Bromoform	ND	ug/kg	5.2	1		07/26/12 17:40	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		07/26/12 17:40	74-83-9	
2-Butanone (MEK)	**14.3**	ug/kg	10.4	1		07/26/12 17:40	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		07/26/12 17:40	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		07/26/12 17:40	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		07/26/12 17:40	98-06-6	
Carbon disulfide	ND	ug/kg	5.2	1		07/26/12 17:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		07/26/12 17:40	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		07/26/12 17:40	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		07/26/12 17:40	75-00-3	
Chloroform	ND	ug/kg	5.2	1		07/26/12 17:40	67-66-3	L2
Chloromethane	ND	ug/kg	5.2	1		07/26/12 17:40	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		07/26/12 17:40	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		07/26/12 17:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.4	1		07/26/12 17:40	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1		07/26/12 17:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		07/26/12 17:40	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		07/26/12 17:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		07/26/12 17:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		07/26/12 17:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		07/26/12 17:40	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		07/26/12 17:40	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		07/26/12 17:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		07/26/12 17:40	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.2	1		07/26/12 17:40	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.2	1		07/26/12 17:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		07/26/12 17:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		07/26/12 17:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		07/26/12 17:40	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		07/26/12 17:40	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		07/26/12 17:40	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		07/26/12 17:40	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-10 12-14 **Lab ID: 60125813004** Collected: 07/19/12 09:40 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		07/26/12 17:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		07/26/12 17:40	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		07/26/12 17:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		07/26/12 17:40	87-68-3	
2-Hexanone	ND	ug/kg	20.8	1		07/26/12 17:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		07/26/12 17:40	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		07/26/12 17:40	99-87-6	
Methylene chloride	ND	ug/kg	5.2	1		07/26/12 17:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.4	1		07/26/12 17:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		07/26/12 17:40	1634-04-4	
Naphthalene	ND	ug/kg	10.4	1		07/26/12 17:40	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		07/26/12 17:40	103-65-1	
Styrene	ND	ug/kg	5.2	1		07/26/12 17:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		07/26/12 17:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		07/26/12 17:40	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		07/26/12 17:40	127-18-4	
Toluene	ND	ug/kg	5.2	1		07/26/12 17:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		07/26/12 17:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		07/26/12 17:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		07/26/12 17:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		07/26/12 17:40	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		07/26/12 17:40	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		07/26/12 17:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		07/26/12 17:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		07/26/12 17:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		07/26/12 17:40	108-67-8	
Vinyl chloride	ND	ug/kg	5.2	1		07/26/12 17:40	75-01-4	
Xylene (Total)	ND	ug/kg	5.2	1		07/26/12 17:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	78-122	1		07/26/12 17:40	1868-53-7	
Toluene-d8 (S)	103	%	80-123	1		07/26/12 17:40	2037-26-5	
4-Bromofluorobenzene (S)	96	%	78-125	1		07/26/12 17:40	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	73-135	1		07/26/12 17:40	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**17.4**	%	0.50	1		08/03/12 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(913)599-5665

ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-11 17-19 **Lab ID: 60125813005** Collected: 07/19/12 11:50 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	24.8	1	07/27/12 00:00	07/31/12 01:14	68334-30-5	
Fuel Oil	ND	mg/kg	24.8	1	07/27/12 00:00	07/31/12 01:14	68553-00-4	
Jet Fuel	ND	mg/kg	24.8	1	07/27/12 00:00	07/31/12 01:14	94114-58-6	
Kerosene	ND	mg/kg	24.8	1	07/27/12 00:00	07/31/12 01:14	8008-20-6	
Mineral Spirits	ND	mg/kg	24.8	1	07/27/12 00:00	07/31/12 01:14	8030-30-6	
Motor Oil	ND	mg/kg	24.8	1	07/27/12 00:00	07/31/12 01:14	64742-65-0	
Total Petroleum Hydrocarbons	**1590**	mg/kg	24.8	1	07/27/12 00:00	07/31/12 01:14		2e
Surrogates								
n-Tetracosane (S)	124	%	50-137	1	07/27/12 00:00	07/31/12 01:14	646-31-1	
p-Terphenyl (S)	110	%	41-129	1	07/27/12 00:00	07/31/12 01:14	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.0	1	07/31/12 17:10	08/06/12 15:02	7440-36-0	
Arsenic	**4.6**	mg/kg	1.0	1	07/31/12 17:10	08/06/12 15:02	7440-38-2	
Beryllium	**0.76**	mg/kg	0.10	1	07/31/12 17:10	08/07/12 10:00	7440-41-7	
Cadmium	ND	mg/kg	0.51	1	07/31/12 17:10	08/06/12 15:02	7440-43-9	
Chromium	**16.1**	mg/kg	0.51	1	07/31/12 17:10	08/06/12 15:02	7440-47-3	
Copper	**13.0**	mg/kg	1.0	1	07/31/12 17:10	08/06/12 15:02	7440-50-8	
Lead	**12.2**	mg/kg	0.51	1	07/31/12 17:10	08/06/12 15:02	7439-92-1	
Nickel	**13.1**	mg/kg	0.51	1	07/31/12 17:10	08/06/12 15:02	7440-02-0	
Selenium	ND	mg/kg	1.5	1	07/31/12 17:10	08/06/12 15:02	7782-49-2	
Silver	ND	mg/kg	0.71	1	07/31/12 17:10	08/06/12 15:02	7440-22-4	
Thallium	ND	mg/kg	2.0	1	07/31/12 17:10	08/06/12 15:02	7440-28-0	
Zinc	**54.0**	mg/kg	10.1	1	07/31/12 17:10	08/06/12 15:02	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.019**	mg/kg	0.017	1	08/04/12 09:00	08/04/12 13:23	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**18.0**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	83-32-9	
Acenaphthylene	**6.3**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	208-96-8	
Anthracene	**8.3**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	120-12-7	
Benzo(a)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	56-55-3	
Benzo(a)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	50-32-8	
Benzo(b)fluoranthene	**5.1**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	207-08-9	
Chrysene	**23.3**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	53-70-3	
Fluoranthene	**7.2**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	206-44-0	
Fluorene	**17.1**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	193-39-5	
Naphthalene	**43.1**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	91-20-3	
Phenanthrene	**13.0**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	85-01-8	
Pyrene	**8.4**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 16:50	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-11 17-19 **Lab ID: 60125813005** Collected: 07/19/12 11:50 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	594	%	35-121	1	07/26/12 00:00	07/27/12 16:50	4165-60-0	1e
2-Fluorobiphenyl (S)	91	%	41-120	1	07/26/12 00:00	07/27/12 16:50	321-60-8	
Terphenyl-d14 (S)	69	%	39-123	1	07/26/12 00:00	07/27/12 16:50	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	**114**	mg/kg	59.8	50		07/26/12 17:55		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	1200	50		07/26/12 17:55	67-64-1	
Benzene	ND	ug/kg	299	50		07/26/12 17:55	71-43-2	
Bromobenzene	ND	ug/kg	299	50		07/26/12 17:55	108-86-1	
Bromochloromethane	ND	ug/kg	299	50		07/26/12 17:55	74-97-5	
Bromodichloromethane	ND	ug/kg	299	50		07/26/12 17:55	75-27-4	
Bromoform	ND	ug/kg	299	50		07/26/12 17:55	75-25-2	
Bromomethane	ND	ug/kg	299	50		07/26/12 17:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	598	50		07/26/12 17:55	78-93-3	
n-Butylbenzene	ND	ug/kg	299	50		07/26/12 17:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	299	50		07/26/12 17:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	299	50		07/26/12 17:55	98-06-6	
Carbon disulfide	ND	ug/kg	299	50		07/26/12 17:55	75-15-0	
Carbon tetrachloride	ND	ug/kg	299	50		07/26/12 17:55	56-23-5	
Chlorobenzene	ND	ug/kg	299	50		07/26/12 17:55	108-90-7	
Chloroethane	ND	ug/kg	299	50		07/26/12 17:55	75-00-3	
Chloroform	ND	ug/kg	299	50		07/26/12 17:55	67-66-3	L2
Chloromethane	ND	ug/kg	299	50		07/26/12 17:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	299	50		07/26/12 17:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	299	50		07/26/12 17:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	598	50		07/26/12 17:55	96-12-8	
Dibromochloromethane	ND	ug/kg	299	50		07/26/12 17:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	299	50		07/26/12 17:55	106-93-4	
Dibromomethane	ND	ug/kg	299	50		07/26/12 17:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	299	50		07/26/12 17:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	299	50		07/26/12 17:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	299	50		07/26/12 17:55	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	299	50		07/26/12 17:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	299	50		07/26/12 17:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	299	50		07/26/12 17:55	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	299	50		07/26/12 17:55	540-59-0	
1,1-Dichloroethene	ND	ug/kg	299	50		07/26/12 17:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	299	50		07/26/12 17:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	299	50		07/26/12 17:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	299	50		07/26/12 17:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	299	50		07/26/12 17:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	299	50		07/26/12 17:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	299	50		07/26/12 17:55	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-11 17-19 **Lab ID: 60125813005** Collected: 07/19/12 11:50 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	299	50		07/26/12 17:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	299	50		07/26/12 17:55	10061-02-6	
Ethylbenzene	ND	ug/kg	299	50		07/26/12 17:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	299	50		07/26/12 17:55	87-68-3	
2-Hexanone	ND	ug/kg	1200	50		07/26/12 17:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	299	50		07/26/12 17:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	299	50		07/26/12 17:55	99-87-6	
Methylene chloride	ND	ug/kg	299	50		07/26/12 17:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	598	50		07/26/12 17:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	299	50		07/26/12 17:55	1634-04-4	
Naphthalene	ND	ug/kg	598	50		07/26/12 17:55	91-20-3	
n-Propylbenzene	ND	ug/kg	299	50		07/26/12 17:55	103-65-1	
Styrene	ND	ug/kg	299	50		07/26/12 17:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	299	50		07/26/12 17:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	299	50		07/26/12 17:55	79-34-5	
Tetrachloroethene	ND	ug/kg	299	50		07/26/12 17:55	127-18-4	
Toluene	ND	ug/kg	299	50		07/26/12 17:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	299	50		07/26/12 17:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	299	50		07/26/12 17:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	299	50		07/26/12 17:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	299	50		07/26/12 17:55	79-00-5	
Trichloroethene	ND	ug/kg	299	50		07/26/12 17:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	299	50		07/26/12 17:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	299	50		07/26/12 17:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	299	50		07/26/12 17:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	299	50		07/26/12 17:55	108-67-8	
Vinyl chloride	ND	ug/kg	299	50		07/26/12 17:55	75-01-4	
Xylene (Total)	ND	ug/kg	299	50		07/26/12 17:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	78-122	50		07/26/12 17:55	1868-53-7	D3
Toluene-d8 (S)	103	%	80-123	50		07/26/12 17:55	2037-26-5	
4-Bromofluorobenzene (S)	94	%	78-125	50		07/26/12 17:55	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	73-135	50		07/26/12 17:55	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**22.8**	%	0.50	1		08/03/12 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-14 8-10 **Lab ID: 60125813006** Collected: 07/19/12 13:52 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	26.4	1	07/27/12 00:00	07/31/12 12:30	68334-30-5	
Fuel Oil	ND	mg/kg	26.4	1	07/27/12 00:00	07/31/12 12:30	68553-00-4	
Jet Fuel	ND	mg/kg	26.4	1	07/27/12 00:00	07/31/12 12:30	94114-58-6	
Kerosene	ND	mg/kg	26.4	1	07/27/12 00:00	07/31/12 12:30	8008-20-6	
Mineral Spirits	ND	mg/kg	26.4	1	07/27/12 00:00	07/31/12 12:30	8030-30-6	
Motor Oil	ND	mg/kg	26.4	1	07/27/12 00:00	07/31/12 12:30	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	26.4	1	07/27/12 00:00	07/31/12 12:30		
Surrogates								
n-Tetracosane (S)	90	%	50-137	1	07/27/12 00:00	07/31/12 12:30	646-31-1	
p-Terphenyl (S)	76	%	41-129	1	07/27/12 00:00	07/31/12 12:30	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	07/31/12 17:10	08/06/12 15:04	7440-36-0	
Arsenic	**5.3**	mg/kg	1.1	1	07/31/12 17:10	08/06/12 15:04	7440-38-2	
Beryllium	**0.54**	mg/kg	0.11	1	07/31/12 17:10	08/07/12 10:02	7440-41-7	
Cadmium	ND	mg/kg	0.56	1	07/31/12 17:10	08/06/12 15:04	7440-43-9	
Chromium	**12.0**	mg/kg	0.56	1	07/31/12 17:10	08/06/12 15:04	7440-47-3	
Copper	**11.6**	mg/kg	1.1	1	07/31/12 17:10	08/06/12 15:04	7440-50-8	
Lead	**17.0**	mg/kg	0.56	1	07/31/12 17:10	08/06/12 15:04	7439-92-1	
Nickel	**13.7**	mg/kg	0.56	1	07/31/12 17:10	08/06/12 15:04	7440-02-0	
Selenium	ND	mg/kg	1.7	1	07/31/12 17:10	08/06/12 15:04	7782-49-2	
Silver	ND	mg/kg	0.79	1	07/31/12 17:10	08/06/12 15:04	7440-22-4	
Thallium	ND	mg/kg	2.2	1	07/31/12 17:10	08/06/12 15:04	7440-28-0	
Zinc	**85.8**	mg/kg	11.2	1	07/31/12 17:10	08/06/12 15:04	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.57**	mg/kg	0.091	5	08/04/12 09:00	08/04/12 16:41	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	83-32-9	
Acenaphthylene	ND	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	208-96-8	
Anthracene	ND	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	120-12-7	
Benzo(a)anthracene	**14.2**	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	56-55-3	
Benzo(a)pyrene	**13.8**	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	50-32-8	
Benzo(b)fluoranthene	**16.9**	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	205-99-2	
Benzo(g,h,i)perylene	**10.9**	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	191-24-2	
Benzo(k)fluoranthene	**10.9**	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	207-08-9	
Chrysene	**15.1**	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	53-70-3	
Fluoranthene	**17.1**	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	206-44-0	
Fluorene	ND	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	86-73-7	
Indeno(1,2,3-cd)pyrene	**7.4**	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	193-39-5	
Naphthalene	**7.4**	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	91-20-3	
Phenanthrene	**40.7**	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	85-01-8	
Pyrene	**17.8**	ug/kg	4.3	1	07/26/12 00:00	07/27/12 17:10	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-14 8-10 **Lab ID: 60125813006** Collected: 07/19/12 13:52 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	85	%	35-121	1	07/26/12 00:00	07/27/12 17:10	4165-60-0	
2-Fluorobiphenyl (S)	67	%	41-120	1	07/26/12 00:00	07/27/12 17:10	321-60-8	
Terphenyl-d14 (S)	59	%	39-123	1	07/26/12 00:00	07/27/12 17:10	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	ND	mg/kg	1.3	1		07/26/12 18:10		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	26.0	1		07/26/12 18:10	67-64-1	
Benzene	ND	ug/kg	6.5	1		07/26/12 18:10	71-43-2	
Bromobenzene	ND	ug/kg	6.5	1		07/26/12 18:10	108-86-1	
Bromochloromethane	ND	ug/kg	6.5	1		07/26/12 18:10	74-97-5	
Bromodichloromethane	ND	ug/kg	6.5	1		07/26/12 18:10	75-27-4	
Bromoform	ND	ug/kg	6.5	1		07/26/12 18:10	75-25-2	
Bromomethane	ND	ug/kg	6.5	1		07/26/12 18:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	13.0	1		07/26/12 18:10	78-93-3	
n-Butylbenzene	ND	ug/kg	6.5	1		07/26/12 18:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.5	1		07/26/12 18:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.5	1		07/26/12 18:10	98-06-6	
Carbon disulfide	ND	ug/kg	6.5	1		07/26/12 18:10	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.5	1		07/26/12 18:10	56-23-5	
Chlorobenzene	ND	ug/kg	6.5	1		07/26/12 18:10	108-90-7	
Chloroethane	ND	ug/kg	6.5	1		07/26/12 18:10	75-00-3	
Chloroform	ND	ug/kg	6.5	1		07/26/12 18:10	67-66-3	L2
Chloromethane	ND	ug/kg	6.5	1		07/26/12 18:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.5	1		07/26/12 18:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.5	1		07/26/12 18:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	13.0	1		07/26/12 18:10	96-12-8	
Dibromochloromethane	ND	ug/kg	6.5	1		07/26/12 18:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.5	1		07/26/12 18:10	106-93-4	
Dibromomethane	ND	ug/kg	6.5	1		07/26/12 18:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.5	1		07/26/12 18:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.5	1		07/26/12 18:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.5	1		07/26/12 18:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	6.5	1		07/26/12 18:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.5	1		07/26/12 18:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.5	1		07/26/12 18:10	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	6.5	1		07/26/12 18:10	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.5	1		07/26/12 18:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.5	1		07/26/12 18:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.5	1		07/26/12 18:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.5	1		07/26/12 18:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.5	1		07/26/12 18:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.5	1		07/26/12 18:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.5	1		07/26/12 18:10	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-14 8-10 **Lab ID: 60125813006** Collected: 07/19/12 13:52 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	6.5	1		07/26/12 18:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.5	1		07/26/12 18:10	10061-02-6	
Ethylbenzene	ND	ug/kg	6.5	1		07/26/12 18:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.5	1		07/26/12 18:10	87-68-3	
2-Hexanone	ND	ug/kg	26.0	1		07/26/12 18:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.5	1		07/26/12 18:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.5	1		07/26/12 18:10	99-87-6	
Methylene chloride	ND	ug/kg	6.5	1		07/26/12 18:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	13.0	1		07/26/12 18:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.5	1		07/26/12 18:10	1634-04-4	
Naphthalene	ND	ug/kg	13.0	1		07/26/12 18:10	91-20-3	
n-Propylbenzene	ND	ug/kg	6.5	1		07/26/12 18:10	103-65-1	
Styrene	ND	ug/kg	6.5	1		07/26/12 18:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.5	1		07/26/12 18:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.5	1		07/26/12 18:10	79-34-5	
Tetrachloroethene	ND	ug/kg	6.5	1		07/26/12 18:10	127-18-4	
Toluene	ND	ug/kg	6.5	1		07/26/12 18:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.5	1		07/26/12 18:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.5	1		07/26/12 18:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.5	1		07/26/12 18:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.5	1		07/26/12 18:10	79-00-5	
Trichloroethene	ND	ug/kg	6.5	1		07/26/12 18:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.5	1		07/26/12 18:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.5	1		07/26/12 18:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.5	1		07/26/12 18:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.5	1		07/26/12 18:10	108-67-8	
Vinyl chloride	ND	ug/kg	6.5	1		07/26/12 18:10	75-01-4	
Xylene (Total)	ND	ug/kg	6.5	1		07/26/12 18:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%	78-122	1		07/26/12 18:10	1868-53-7	
Toluene-d8 (S)	101	%	80-123	1		07/26/12 18:10	2037-26-5	
4-Bromofluorobenzene (S)	98	%	78-125	1		07/26/12 18:10	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	73-135	1		07/26/12 18:10	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**24.7**	%	0.50	1		08/03/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-17 10-12 **Lab ID: 60125813007** Collected: 07/19/12 15:10 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	24.5	1	07/27/12 00:00	07/31/12 01:36	68334-30-5	
Fuel Oil	ND	mg/kg	24.5	1	07/27/12 00:00	07/31/12 01:36	68553-00-4	
Jet Fuel	ND	mg/kg	24.5	1	07/27/12 00:00	07/31/12 01:36	94114-58-6	
Kerosene	ND	mg/kg	24.5	1	07/27/12 00:00	07/31/12 01:36	8008-20-6	
Mineral Spirits	ND	mg/kg	24.5	1	07/27/12 00:00	07/31/12 01:36	8030-30-6	
Motor Oil	ND	mg/kg	24.5	1	07/27/12 00:00	07/31/12 01:36	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	24.5	1	07/27/12 00:00	07/31/12 01:36		
Surrogates								
n-Tetracosane (S)	97	%	50-137	1	07/27/12 00:00	07/31/12 01:36	646-31-1	
p-Terphenyl (S)	81	%	41-129	1	07/27/12 00:00	07/31/12 01:36	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	07/31/12 17:10	08/06/12 15:06	7440-36-0	
Arsenic	**5.3**	mg/kg	1.1	1	07/31/12 17:10	08/06/12 15:06	7440-38-2	
Beryllium	**0.81**	mg/kg	0.11	1	07/31/12 17:10	08/07/12 10:04	7440-41-7	
Cadmium	ND	mg/kg	0.54	1	07/31/12 17:10	08/06/12 15:06	7440-43-9	
Chromium	**14.0**	mg/kg	0.54	1	07/31/12 17:10	08/06/12 15:06	7440-47-3	
Copper	**13.2**	mg/kg	1.1	1	07/31/12 17:10	08/06/12 15:06	7440-50-8	
Lead	**10.3**	mg/kg	0.54	1	07/31/12 17:10	08/06/12 15:06	7439-92-1	
Nickel	**17.0**	mg/kg	0.54	1	07/31/12 17:10	08/06/12 15:06	7440-02-0	
Selenium	ND	mg/kg	1.6	1	07/31/12 17:10	08/06/12 15:06	7782-49-2	
Silver	ND	mg/kg	0.75	1	07/31/12 17:10	08/06/12 15:06	7440-22-4	
Thallium	ND	mg/kg	2.1	1	07/31/12 17:10	08/06/12 15:06	7440-28-0	
Zinc	**51.6**	mg/kg	10.7	1	07/31/12 17:10	08/06/12 15:06	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.017**	mg/kg	0.016	1	08/04/12 09:00	08/04/12 13:27	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	83-32-9	
Acenaphthylene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	208-96-8	
Anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	120-12-7	
Benzo(a)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	56-55-3	
Benzo(a)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	207-08-9	
Chrysene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	53-70-3	
Fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	206-44-0	
Fluorene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	193-39-5	
Naphthalene	**13.0**	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	91-20-3	
Phenanthrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	85-01-8	
Pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:31	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-17 10-12 **Lab ID: 60125813007** Collected: 07/19/12 15:10 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	93	%	35-121	1	07/26/12 00:00	07/27/12 17:31	4165-60-0	
2-Fluorobiphenyl (S)	81	%	41-120	1	07/26/12 00:00	07/27/12 17:31	321-60-8	
Terphenyl-d14 (S)	70	%	39-123	1	07/26/12 00:00	07/27/12 17:31	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	ND	mg/kg	1.1	1		07/26/12 18:25		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**88.8**	ug/kg	22.1	1		07/26/12 18:25	67-64-1	
Benzene	ND	ug/kg	5.5	1		07/26/12 18:25	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		07/26/12 18:25	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		07/26/12 18:25	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		07/26/12 18:25	75-27-4	
Bromoform	ND	ug/kg	5.5	1		07/26/12 18:25	75-25-2	
Bromomethane	ND	ug/kg	5.5	1		07/26/12 18:25	74-83-9	
2-Butanone (MEK)	**20.8**	ug/kg	11.0	1		07/26/12 18:25	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1		07/26/12 18:25	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		07/26/12 18:25	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		07/26/12 18:25	98-06-6	
Carbon disulfide	ND	ug/kg	5.5	1		07/26/12 18:25	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.5	1		07/26/12 18:25	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		07/26/12 18:25	108-90-7	
Chloroethane	ND	ug/kg	5.5	1		07/26/12 18:25	75-00-3	
Chloroform	ND	ug/kg	5.5	1		07/26/12 18:25	67-66-3	L2
Chloromethane	ND	ug/kg	5.5	1		07/26/12 18:25	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		07/26/12 18:25	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		07/26/12 18:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	11.0	1		07/26/12 18:25	96-12-8	
Dibromochloromethane	ND	ug/kg	5.5	1		07/26/12 18:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		07/26/12 18:25	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		07/26/12 18:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		07/26/12 18:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		07/26/12 18:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		07/26/12 18:25	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.5	1		07/26/12 18:25	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		07/26/12 18:25	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		07/26/12 18:25	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.5	1		07/26/12 18:25	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.5	1		07/26/12 18:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1		07/26/12 18:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		07/26/12 18:25	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		07/26/12 18:25	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		07/26/12 18:25	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		07/26/12 18:25	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		07/26/12 18:25	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-17 10-12 **Lab ID: 60125813007** Collected: 07/19/12 15:10 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		07/26/12 18:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		07/26/12 18:25	10061-02-6	
Ethylbenzene	ND	ug/kg	5.5	1		07/26/12 18:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		07/26/12 18:25	87-68-3	
2-Hexanone	ND	ug/kg	22.1	1		07/26/12 18:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1		07/26/12 18:25	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1		07/26/12 18:25	99-87-6	
Methylene chloride	ND	ug/kg	5.5	1		07/26/12 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.0	1		07/26/12 18:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		07/26/12 18:25	1634-04-4	
Naphthalene	ND	ug/kg	11.0	1		07/26/12 18:25	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1		07/26/12 18:25	103-65-1	
Styrene	ND	ug/kg	5.5	1		07/26/12 18:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		07/26/12 18:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		07/26/12 18:25	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1		07/26/12 18:25	127-18-4	
Toluene	ND	ug/kg	5.5	1		07/26/12 18:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		07/26/12 18:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		07/26/12 18:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		07/26/12 18:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		07/26/12 18:25	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1		07/26/12 18:25	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		07/26/12 18:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		07/26/12 18:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		07/26/12 18:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		07/26/12 18:25	108-67-8	
Vinyl chloride	ND	ug/kg	5.5	1		07/26/12 18:25	75-01-4	
Xylene (Total)	ND	ug/kg	5.5	1		07/26/12 18:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	78-122	1		07/26/12 18:25	1868-53-7	
Toluene-d8 (S)	101	%	80-123	1		07/26/12 18:25	2037-26-5	
4-Bromofluorobenzene (S)	98	%	78-125	1		07/26/12 18:25	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	73-135	1		07/26/12 18:25	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**22.1**	%	0.50	1		08/03/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-18 12-14 **Lab ID: 60125813008** Collected: 07/20/12 09:08 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	25.2	1	07/27/12 00:00	07/31/12 01:46	68334-30-5	
Fuel Oil	ND	mg/kg	25.2	1	07/27/12 00:00	07/31/12 01:46	68553-00-4	
Jet Fuel	ND	mg/kg	25.2	1	07/27/12 00:00	07/31/12 01:46	94114-58-6	
Kerosene	ND	mg/kg	25.2	1	07/27/12 00:00	07/31/12 01:46	8008-20-6	
Mineral Spirits	ND	mg/kg	25.2	1	07/27/12 00:00	07/31/12 01:46	8030-30-6	
Motor Oil	ND	mg/kg	25.2	1	07/27/12 00:00	07/31/12 01:46	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	25.2	1	07/27/12 00:00	07/31/12 01:46		
Surrogates								
n-Tetracosane (S)	98	%	50-137	1	07/27/12 00:00	07/31/12 01:46	646-31-1	
p-Terphenyl (S)	82	%	41-129	1	07/27/12 00:00	07/31/12 01:46	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	07/31/12 17:10	08/06/12 15:08	7440-36-0	
Arsenic	**4.9**	mg/kg	1.1	1	07/31/12 17:10	08/06/12 15:08	7440-38-2	
Beryllium	**0.77**	mg/kg	0.11	1	07/31/12 17:10	08/07/12 10:06	7440-41-7	
Cadmium	ND	mg/kg	0.55	1	07/31/12 17:10	08/06/12 15:08	7440-43-9	
Chromium	**14.6**	mg/kg	0.55	1	07/31/12 17:10	08/06/12 15:08	7440-47-3	
Copper	**12.3**	mg/kg	1.1	1	07/31/12 17:10	08/06/12 15:08	7440-50-8	
Lead	**12.2**	mg/kg	0.55	1	07/31/12 17:10	08/06/12 15:08	7439-92-1	
Nickel	**16.8**	mg/kg	0.55	1	07/31/12 17:10	08/06/12 15:08	7440-02-0	
Selenium	ND	mg/kg	1.6	1	07/31/12 17:10	08/06/12 15:08	7782-49-2	
Silver	ND	mg/kg	0.77	1	07/31/12 17:10	08/06/12 15:08	7440-22-4	
Thallium	ND	mg/kg	2.2	1	07/31/12 17:10	08/06/12 15:08	7440-28-0	
Zinc	**52.6**	mg/kg	11.0	1	07/31/12 17:10	08/06/12 15:08	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.016	1	08/04/12 09:00	08/04/12 13:34	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	83-32-9	
Acenaphthylene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	208-96-8	
Anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	120-12-7	
Benzo(a)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	56-55-3	
Benzo(a)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	207-08-9	
Chrysene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	53-70-3	
Fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	206-44-0	
Fluorene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	193-39-5	
Naphthalene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	91-20-3	
Phenanthrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	85-01-8	
Pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 17:51	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-18 12-14 **Lab ID: 60125813008** Collected: 07/20/12 09:08 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	81	%	35-121	1	07/26/12 00:00	07/27/12 17:51	4165-60-0	
2-Fluorobiphenyl (S)	78	%	41-120	1	07/26/12 00:00	07/27/12 17:51	321-60-8	
Terphenyl-d14 (S)	60	%	39-123	1	07/26/12 00:00	07/27/12 17:51	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	ND	mg/kg	1.1	1		07/30/12 20:07		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**35.7**	ug/kg	22.1	1		07/30/12 20:07	67-64-1	
Benzene	ND	ug/kg	5.5	1		07/30/12 20:07	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		07/30/12 20:07	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		07/30/12 20:07	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		07/30/12 20:07	75-27-4	
Bromoform	ND	ug/kg	5.5	1		07/30/12 20:07	75-25-2	
Bromomethane	ND	ug/kg	5.5	1		07/30/12 20:07	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.1	1		07/30/12 20:07	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1		07/30/12 20:07	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		07/30/12 20:07	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		07/30/12 20:07	98-06-6	
Carbon disulfide	ND	ug/kg	5.5	1		07/30/12 20:07	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.5	1		07/30/12 20:07	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		07/30/12 20:07	108-90-7	
Chloroethane	ND	ug/kg	5.5	1		07/30/12 20:07	75-00-3	
Chloroform	ND	ug/kg	5.5	1		07/30/12 20:07	67-66-3	
Chloromethane	ND	ug/kg	5.5	1		07/30/12 20:07	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		07/30/12 20:07	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		07/30/12 20:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	11.1	1		07/30/12 20:07	96-12-8	
Dibromochloromethane	ND	ug/kg	5.5	1		07/30/12 20:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		07/30/12 20:07	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		07/30/12 20:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		07/30/12 20:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		07/30/12 20:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		07/30/12 20:07	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.5	1		07/30/12 20:07	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		07/30/12 20:07	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		07/30/12 20:07	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.5	1		07/30/12 20:07	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.5	1		07/30/12 20:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1		07/30/12 20:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		07/30/12 20:07	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		07/30/12 20:07	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		07/30/12 20:07	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		07/30/12 20:07	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		07/30/12 20:07	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Sample: SB-18 12-14 **Lab ID: 60125813008** Collected: 07/20/12 09:08 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		07/30/12 20:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		07/30/12 20:07	10061-02-6	
Ethylbenzene	ND	ug/kg	5.5	1		07/30/12 20:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		07/30/12 20:07	87-68-3	
2-Hexanone	ND	ug/kg	22.1	1		07/30/12 20:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1		07/30/12 20:07	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1		07/30/12 20:07	99-87-6	
Methylene chloride	ND	ug/kg	5.5	1		07/30/12 20:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.1	1		07/30/12 20:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		07/30/12 20:07	1634-04-4	
Naphthalene	ND	ug/kg	11.1	1		07/30/12 20:07	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1		07/30/12 20:07	103-65-1	
Styrene	ND	ug/kg	5.5	1		07/30/12 20:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		07/30/12 20:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		07/30/12 20:07	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1		07/30/12 20:07	127-18-4	
Toluene	ND	ug/kg	5.5	1		07/30/12 20:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		07/30/12 20:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		07/30/12 20:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		07/30/12 20:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		07/30/12 20:07	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1		07/30/12 20:07	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		07/30/12 20:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		07/30/12 20:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		07/30/12 20:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		07/30/12 20:07	108-67-8	
Vinyl chloride	ND	ug/kg	5.5	1		07/30/12 20:07	75-01-4	
Xylene (Total)	ND	ug/kg	5.5	1		07/30/12 20:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%	78-122	1		07/30/12 20:07	1868-53-7	
Toluene-d8 (S)	101	%	80-123	1		07/30/12 20:07	2037-26-5	
4-Bromofluorobenzene (S)	102	%	78-125	1		07/30/12 20:07	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	73-135	1		07/30/12 20:07	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**22.9**	%	0.50	1		08/03/12 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: MERP/6490
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 60125813003

METHOD BLANK: 1037728
Matrix: Water
Associated Lab Samples: 60125813003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	08/02/12 11:37	

LABORATORY CONTROL SAMPLE: 1037729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.4	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037730 1037731

Parameter	Units	60125738001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	6.1	6.2	120	122	75-125	2	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: MERP/6489 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 60125813003

METHOD BLANK: 1037724 — Matrix: Water
Associated Lab Samples: 60125813003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	08/03/12 11:06	

LABORATORY CONTROL SAMPLE: 1037725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037726 1037727

Parameter	Units	60125643004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	3.5	3.8	69	75	75-125	9	20	M1

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: MERP/6494 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 60125813001, 60125813002, 60125813004, 60125813005, 60125813006, 60125813007, 60125813008

METHOD BLANK: 1038143 Matrix: Solid
Associated Lab Samples: 60125813001, 60125813002, 60125813004, 60125813005, 60125813006, 60125813007, 60125813008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.050	08/04/12 13:01	

LABORATORY CONTROL SAMPLE: 1038144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.54	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1038145 1038146

Parameter	Units	60125766001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.17	.17	0.17	0.18	98	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: MPRP/18871 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 60125813001, 60125813002, 60125813004, 60125813005, 60125813006, 60125813007, 60125813008

METHOD BLANK: 1035198 Matrix: Solid
Associated Lab Samples: 60125813001, 60125813002, 60125813004, 60125813005, 60125813006, 60125813007, 60125813008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	1.0	08/06/12 14:29	
Arsenic	mg/kg	ND	1.0	08/06/12 14:29	
Beryllium	mg/kg	ND	0.10	08/06/12 14:29	
Cadmium	mg/kg	ND	0.50	08/06/12 14:29	
Chromium	mg/kg	ND	0.50	08/06/12 14:29	
Copper	mg/kg	ND	1.0	08/06/12 14:29	
Lead	mg/kg	ND	0.50	08/06/12 14:29	
Nickel	mg/kg	ND	0.50	08/06/12 14:29	
Selenium	mg/kg	ND	1.5	08/06/12 14:29	
Silver	mg/kg	ND	0.70	08/06/12 14:29	
Thallium	mg/kg	ND	2.0	08/06/12 14:29	
Zinc	mg/kg	ND	10.0	08/06/12 14:29	

LABORATORY CONTROL SAMPLE: 1035199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	46.7	93	80-120	
Arsenic	mg/kg	50	46.0	92	80-120	
Beryllium	mg/kg	50	46.1	92	80-120	
Cadmium	mg/kg	50	46.5	93	80-120	
Chromium	mg/kg	50	47.7	95	80-120	
Copper	mg/kg	50	48.6	97	80-120	
Lead	mg/kg	50	49.1	98	80-120	
Nickel	mg/kg	50	48.8	98	80-120	
Selenium	mg/kg	50	46.8	94	80-120	
Silver	mg/kg	25	23.4	94	80-120	
Thallium	mg/kg	50	48.8	98	80-120	
Zinc	mg/kg	50	46.5	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035200 1035201

Parameter	Units	60125813001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/kg	29.3	58.2	57.1	13.6	13.4	-27	-28	75-125	1	20	M1
Arsenic	mg/kg	116	58.2	57.1	52.0	51.2	-110	-113	75-125	2	20	M1
Beryllium	mg/kg	16.0	58.2	57.1	55.2	55.4	67	69	75-125	0	20	M1
Cadmium	mg/kg	ND	58.2	57.1	46.6	46.2	71	72	75-125	1	20	M1
Chromium	mg/kg	4060	58.2	57.1	355	323	-6370	-6542	75-125	9	20	M1
Copper	mg/kg	3630	58.2	57.1	327	299	-5676	-5827	75-125	9	20	M1
Lead	mg/kg	251	58.2	57.1	57.8	57.2	-332	-339	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035200 1035201

Parameter	Units	60125813001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel	mg/kg	7180	58.2	57.1	543	500	-11408	-11692	75-125	8	20	M1
Selenium	mg/kg	ND	58.2	57.1	45.1	44.4	78	78	75-125	2	20	
Silver	mg/kg	ND	29.1	28.5	24.3	24.0	72	72	75-125	1	20	M1
Thallium	mg/kg	ND	58.2	57.1	40.5	40.0	70	70	75-125	1	20	M1
Zinc	mg/kg	1930	58.2	57.1	175	168	-3025	-3092	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: MPRP/18881
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 60125813003

METHOD BLANK: 1035772
Matrix: Water
Associated Lab Samples: 60125813003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	10.0	07/31/12 13:56	
Arsenic	ug/L	ND	10.0	07/31/12 13:56	
Beryllium	ug/L	ND	1.0	07/31/12 13:56	
Cadmium	ug/L	ND	5.0	07/31/12 13:56	
Chromium	ug/L	ND	5.0	07/31/12 13:56	
Copper	ug/L	ND	10.0	07/31/12 13:56	
Lead	ug/L	ND	5.0	07/31/12 13:56	
Nickel	ug/L	ND	5.0	07/31/12 13:56	
Selenium	ug/L	ND	15.0	07/31/12 13:56	
Silver	ug/L	ND	7.0	07/31/12 13:56	
Thallium	ug/L	ND	20.0	07/31/12 13:56	
Zinc	ug/L	ND	50.0	07/31/12 13:56	

LABORATORY CONTROL SAMPLE: 1035773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1000	997	100	80-120	
Arsenic	ug/L	1000	1020	102	80-120	
Beryllium	ug/L	1000	932	93	80-120	
Cadmium	ug/L	1000	970	97	80-120	
Chromium	ug/L	1000	918	92	80-120	
Copper	ug/L	1000	877	88	80-120	
Lead	ug/L	1000	912	91	80-120	
Nickel	ug/L	1000	955	96	80-120	
Selenium	ug/L	1000	1000	100	80-120	
Silver	ug/L	500	454	91	80-120	
Thallium	ug/L	1000	888	89	80-120	
Zinc	ug/L	1000	941	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035774 1035775

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	989	982	99	98	75-125	1	20	
Arsenic	ug/L	ND	1000	1000	1000	995	100	99	75-125	1	20	
Beryllium	ug/L	ND	1000	1000	931	921	93	92	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	965	955	97	95	75-125	1	20	
Chromium	ug/L	ND	1000	1000	916	901	92	90	75-125	2	20	
Copper	ug/L	ND	1000	1000	894	884	89	88	75-125	1	20	
Lead	ug/L	ND	1000	1000	921	909	92	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035774 1035775

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel	ug/L	ND	1000	1000	955	943	95	94	75-125	1	20	
Selenium	ug/L	ND	1000	1000	1000	984	100	98	75-125	2	20	
Silver	ug/L	ND	500	500	457	451	91	90	75-125	1	20	
Thallium	ug/L	ND	1000	1000	886	877	89	88	75-125	1	20	
Zinc	ug/L	ND	1000	1000	941	929	94	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: MPRP/18880
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60125813003

METHOD BLANK: 1035765
Matrix: Water
Associated Lab Samples: 60125813003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	10.0	07/30/12 13:05	
Arsenic, Dissolved	ug/L	ND	10.0	07/30/12 13:05	
Beryllium, Dissolved	ug/L	ND	1.0	07/30/12 13:05	
Cadmium, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Chromium, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Copper, Dissolved	ug/L	ND	10.0	07/30/12 13:05	
Lead, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Nickel, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Selenium, Dissolved	ug/L	ND	15.0	07/30/12 13:05	
Silver, Dissolved	ug/L	ND	7.0	07/30/12 13:05	
Thallium, Dissolved	ug/L	ND	20.0	07/30/12 13:05	
Zinc, Dissolved	ug/L	ND	50.0	07/30/12 13:05	

LABORATORY CONTROL SAMPLE: 1035766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	1000	972	97	80-120	
Arsenic, Dissolved	ug/L	1000	995	100	80-120	
Beryllium, Dissolved	ug/L	1000	972	97	80-120	
Cadmium, Dissolved	ug/L	1000	966	97	80-120	
Chromium, Dissolved	ug/L	1000	986	99	80-120	
Copper, Dissolved	ug/L	1000	901	90	80-120	
Lead, Dissolved	ug/L	1000	935	93	80-120	
Nickel, Dissolved	ug/L	1000	969	97	80-120	
Selenium, Dissolved	ug/L	1000	974	97	80-120	
Silver, Dissolved	ug/L	500	462	92	80-120	
Thallium, Dissolved	ug/L	1000	903	90	80-120	
Zinc, Dissolved	ug/L	1000	985	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035767 1035768

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	977	973	98	97	75-125	0	20	
Arsenic, Dissolved	ug/L	ND	1000	1000	1000	993	100	99	75-125	1	20	
Beryllium, Dissolved	ug/L	ND	1000	1000	988	980	99	98	75-125	1	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	975	967	98	97	75-125	1	20	
Chromium, Dissolved	ug/L	ND	1000	1000	996	984	100	98	75-125	1	20	
Copper, Dissolved	ug/L	ND	1000	1000	923	909	92	91	75-125	2	20	
Lead, Dissolved	ug/L	ND	1000	1000	952	941	95	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035767 1035768

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel, Dissolved	ug/L	ND	1000	1000	983	974	98	97	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	981	967	98	97	75-125	1	20	
Silver, Dissolved	ug/L	ND	500	500	472	466	94	93	75-125	1	20	
Thallium, Dissolved	ug/L	ND	1000	1000	918	912	92	91	75-125	1	20	
Zinc, Dissolved	ug/L	ND	1000	1000	1000	992	100	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: MSV/47379 Analysis Method: OA1
QC Batch Method: OA1 Analysis Description: OA1 Volatile Pet. Hydrocarbon
Associated Lab Samples: 60125813001, 60125813004, 60125813005, 60125813006, 60125813007

METHOD BLANK: 1036954 Matrix: Solid
Associated Lab Samples: 60125813001, 60125813004, 60125813005, 60125813006, 60125813007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	07/26/12 15:38	

LABORATORY CONTROL SAMPLE: 1036955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	4	4.3	107	63-138	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: MSV/47425 | Analysis Method: OA1
QC Batch Method: OA1 | Analysis Description: OA1 Volatile Pet. Hydrocarbon
Associated Lab Samples: 60125813002, 60125813008

METHOD BLANK: 1037459 | Matrix: Solid
Associated Lab Samples: 60125813002, 60125813008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	07/30/12 17:20	

LABORATORY CONTROL SAMPLE: 1037460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	4	4.3	107	63-138	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: MSV/47352
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60125813003

METHOD BLANK: 1035943
Matrix: Water
Associated Lab Samples: 60125813003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/27/12 12:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/27/12 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/27/12 12:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/27/12 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	07/27/12 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	07/27/12 12:11	
1,1-Dichloropropene	ug/L	ND	1.0	07/27/12 12:11	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/27/12 12:11	
1,2,3-Trichloropropane	ug/L	ND	2.5	07/27/12 12:11	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/27/12 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	07/27/12 12:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	07/27/12 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/27/12 12:11	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/27/12 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	07/27/12 12:11	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	07/27/12 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	07/27/12 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	07/27/12 12:11	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/27/12 12:11	
1,3-Dichloropropane	ug/L	ND	1.0	07/27/12 12:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/27/12 12:11	
2,2-Dichloropropane	ug/L	ND	1.0	07/27/12 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	07/27/12 12:11	
2-Chlorotoluene	ug/L	ND	1.0	07/27/12 12:11	
2-Hexanone	ug/L	ND	10.0	07/27/12 12:11	
4-Chlorotoluene	ug/L	ND	1.0	07/27/12 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/27/12 12:11	
Acetone	ug/L	ND	10.0	07/27/12 12:11	
Benzene	ug/L	ND	1.0	07/27/12 12:11	
Bromobenzene	ug/L	ND	1.0	07/27/12 12:11	
Bromochloromethane	ug/L	ND	1.0	07/27/12 12:11	
Bromodichloromethane	ug/L	ND	1.0	07/27/12 12:11	
Bromoform	ug/L	ND	1.0	07/27/12 12:11	
Bromomethane	ug/L	ND	5.0	07/27/12 12:11	
Carbon disulfide	ug/L	ND	5.0	07/27/12 12:11	
Carbon tetrachloride	ug/L	ND	1.0	07/27/12 12:11	
Chlorobenzene	ug/L	ND	1.0	07/27/12 12:11	
Chloroethane	ug/L	ND	1.0	07/27/12 12:11	
Chloroform	ug/L	ND	1.0	07/27/12 12:11	
Chloromethane	ug/L	ND	1.0	07/27/12 12:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/27/12 12:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/27/12 12:11	
Dibromochloromethane	ug/L	ND	1.0	07/27/12 12:11	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

METHOD BLANK: 1035943 Matrix: Water

Associated Lab Samples: 60125813003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	07/27/12 12:11	
Dichlorodifluoromethane	ug/L	ND	1.0	07/27/12 12:11	
Ethylbenzene	ug/L	ND	1.0	07/27/12 12:11	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	07/27/12 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/27/12 12:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/27/12 12:11	
Methylene chloride	ug/L	ND	1.0	07/27/12 12:11	
n-Butylbenzene	ug/L	ND	1.0	07/27/12 12:11	
n-Propylbenzene	ug/L	ND	1.0	07/27/12 12:11	
Naphthalene	ug/L	ND	10.0	07/27/12 12:11	
p-Isopropyltoluene	ug/L	ND	1.0	07/27/12 12:11	
sec-Butylbenzene	ug/L	ND	1.0	07/27/12 12:11	
Styrene	ug/L	ND	1.0	07/27/12 12:11	
tert-Butylbenzene	ug/L	ND	1.0	07/27/12 12:11	
Tetrachloroethene	ug/L	ND	1.0	07/27/12 12:11	
Toluene	ug/L	ND	1.0	07/27/12 12:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/27/12 12:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/27/12 12:11	
Trichloroethene	ug/L	ND	1.0	07/27/12 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	07/27/12 12:11	
Vinyl chloride	ug/L	ND	1.0	07/27/12 12:11	
Xylene (Total)	ug/L	ND	3.0	07/27/12 12:11	
1,2-Dichloroethane-d4 (S)	%	90	80-120	07/27/12 12:11	
4-Bromofluorobenzene (S)	%	103	80-120	07/27/12 12:11	
Dibromofluoromethane (S)	%	97	80-120	07/27/12 12:11	
Toluene-d8 (S)	%	100	80-120	07/27/12 12:11	

LABORATORY CONTROL SAMPLE: 1035944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.5	93	79-121	
1,1,1-Trichloroethane	ug/L	20	19.9	99	76-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	71-121	
1,1,2-Trichloroethane	ug/L	20	18.1	90	78-120	
1,1-Dichloroethane	ug/L	20	17.9	90	74-120	
1,1-Dichloroethene	ug/L	20	21.7	108	68-120	
1,1-Dichloropropene	ug/L	20	20.5	102	78-120	
1,2,3-Trichlorobenzene	ug/L	20	17.3	87	70-129	
1,2,3-Trichloropropane	ug/L	20	19.1	96	74-121	
1,2,4-Trichlorobenzene	ug/L	20	19.3	96	76-123	
1,2,4-Trimethylbenzene	ug/L	20	16.7	84	76-121	
1,2-Dibromo-3-chloropropane	ug/L	20	18.3	92	65-124	
1,2-Dibromoethane (EDB)	ug/L	20	18.5	92	76-125	
1,2-Dichlorobenzene	ug/L	20	18.1	91	80-120	
1,2-Dichloroethane	ug/L	20	18.3	92	72-123	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

LABORATORY CONTROL SAMPLE: 1035944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	38.4	96	78-120	
1,2-Dichloropropane	ug/L	20	19.3	97	78-120	
1,3,5-Trimethylbenzene	ug/L	20	18.2	91	75-120	
1,3-Dichlorobenzene	ug/L	20	18.7	93	79-120	
1,3-Dichloropropane	ug/L	20	18.2	91	75-120	
1,4-Dichlorobenzene	ug/L	20	18.1	91	80-120	
2,2-Dichloropropane	ug/L	20	18.9	94	54-132	
2-Butanone (MEK)	ug/L	100	86.8	87	40-160	
2-Chlorotoluene	ug/L	20	19.7	99	78-120	
2-Hexanone	ug/L	100	86.4	86	40-160	
4-Chlorotoluene	ug/L	20	20.0	100	79-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	87.6	88	65-126	
Acetone	ug/L	100	85.7	86	40-160	
Benzene	ug/L	20	18.4	92	74-123	
Bromobenzene	ug/L	20	19.4	97	79-120	
Bromochloromethane	ug/L	20	19.9	100	75-120	
Bromodichloromethane	ug/L	20	17.2	86	74-120	
Bromoform	ug/L	20	17.1	85	70-123	
Bromomethane	ug/L	20	16.2	81	40-158	
Carbon disulfide	ug/L	20	17.8	89	67-135	
Carbon tetrachloride	ug/L	20	18.4	92	74-126	
Chlorobenzene	ug/L	20	19.2	96	80-120	
Chloroethane	ug/L	20	24.5	123	60-144	
Chloroform	ug/L	20	17.8	89	77-120	
Chloromethane	ug/L	20	18.9	94	40-142	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	70-120	
cis-1,3-Dichloropropene	ug/L	20	17.7	89	73-121	
Dibromochloromethane	ug/L	20	17.8	89	77-122	
Dibromomethane	ug/L	20	19.2	96	76-120	
Dichlorodifluoromethane	ug/L	20	22.0	110	40-160	
Ethylbenzene	ug/L	20	18.9	95	76-123	
Hexachloro-1,3-butadiene	ug/L	20	17.5	88	72-124	
Isopropylbenzene (Cumene)	ug/L	20	20.4	102	80-126	
Methyl-tert-butyl ether	ug/L	20	18.0	90	67-125	
Methylene chloride	ug/L	20	18.3	91	72-127	
n-Butylbenzene	ug/L	20	18.8	94	76-125	
n-Propylbenzene	ug/L	20	19.1	95	77-120	
Naphthalene	ug/L	20	16.8	84	63-128	
p-Isopropyltoluene	ug/L	20	18.5	93	77-121	
sec-Butylbenzene	ug/L	20	16.7	84	77-122	
Styrene	ug/L	20	18.6	93	79-120	
tert-Butylbenzene	ug/L	20	18.7	93	75-124	
Tetrachloroethene	ug/L	20	19.5	98	78-121	
Toluene	ug/L	20	17.7	88	75-123	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	80-129	
trans-1,3-Dichloropropene	ug/L	20	20.1	100	77-122	
Trichloroethene	ug/L	20	17.8	89	74-120	
Trichlorofluoromethane	ug/L	20	22.7	113	69-122	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

LABORATORY CONTROL SAMPLE: 1035944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	21.8	109	50-140	
Xylene (Total)	ug/L	60	56.1	93	76-123	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Dibromofluoromethane (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: MSV/47353 | Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 | Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60125813003

METHOD BLANK: 1035947 | Matrix: Water
Associated Lab Samples: 60125813003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	07/27/12 12:11	
Benzene	ug/L	ND	1.0	07/27/12 12:11	
Ethylbenzene	ug/L	ND	1.0	07/27/12 12:11	
Gasoline Range Organics	mg/L	ND	0.50	07/27/12 12:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/27/12 12:11	
Naphthalene	ug/L	ND	10.0	07/27/12 12:11	
tert-Butyl Alcohol	ug/L	ND	10.0	07/27/12 12:11	
Toluene	ug/L	ND	1.0	07/27/12 12:11	
Xylene (Total)	ug/L	ND	3.0	07/27/12 12:11	
1,2-Dichloroethane-d4 (S)	%	90	80-120	07/27/12 12:11	
4-Bromofluorobenzene (S)	%	103	80-120	07/27/12 12:11	
Dibromofluoromethane (S)	%	97	80-120	07/27/12 12:11	
Toluene-d8 (S)	%	100	80-120	07/27/12 12:11	

LABORATORY CONTROL SAMPLE: 1035948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	18.3	92	72-123	
Benzene	ug/L	20	18.4	92	74-123	
Ethylbenzene	ug/L	20	18.9	95	76-123	
Gasoline Range Organics	mg/L	4	3.8	95	65-136	
Methyl-tert-butyl ether	ug/L	20	18.0	90	67-125	
Naphthalene	ug/L	20	16.8	84	63-128	
tert-Butyl Alcohol	ug/L	100	82.3	82	44-142	
Toluene	ug/L	20	17.7	88	75-123	
Xylene (Total)	ug/L	60	56.1	93	76-123	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Dibromofluoromethane (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: MSV/47311 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60125813001, 60125813004, 60125813005, 60125813006, 60125813007

METHOD BLANK: 1035294 Matrix: Solid
Associated Lab Samples: 60125813001, 60125813004, 60125813005, 60125813006, 60125813007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	07/26/12 15:38	
1,1,1-Trichloroethane	ug/kg	ND	5.0	07/26/12 15:38	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	07/26/12 15:38	
1,1,2-Trichloroethane	ug/kg	ND	5.0	07/26/12 15:38	
1,1-Dichloroethane	ug/kg	ND	5.0	07/26/12 15:38	
1,1-Dichloroethene	ug/kg	ND	5.0	07/26/12 15:38	
1,1-Dichloropropene	ug/kg	ND	5.0	07/26/12 15:38	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	07/26/12 15:38	
1,2,3-Trichloropropane	ug/kg	ND	5.0	07/26/12 15:38	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	07/26/12 15:38	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	07/26/12 15:38	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	07/26/12 15:38	
1,2-Dichlorobenzene	ug/kg	ND	5.0	07/26/12 15:38	
1,2-Dichloroethane	ug/kg	ND	5.0	07/26/12 15:38	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	07/26/12 15:38	
1,2-Dichloropropane	ug/kg	ND	5.0	07/26/12 15:38	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
1,3-Dichlorobenzene	ug/kg	ND	5.0	07/26/12 15:38	
1,3-Dichloropropane	ug/kg	ND	5.0	07/26/12 15:38	
1,4-Dichlorobenzene	ug/kg	ND	5.0	07/26/12 15:38	
2,2-Dichloropropane	ug/kg	ND	5.0	07/26/12 15:38	
2-Butanone (MEK)	ug/kg	ND	10.0	07/26/12 15:38	
2-Chlorotoluene	ug/kg	ND	5.0	07/26/12 15:38	
2-Hexanone	ug/kg	ND	20.0	07/26/12 15:38	
4-Chlorotoluene	ug/kg	ND	5.0	07/26/12 15:38	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	07/26/12 15:38	
Acetone	ug/kg	ND	20.0	07/26/12 15:38	
Benzene	ug/kg	ND	5.0	07/26/12 15:38	
Bromobenzene	ug/kg	ND	5.0	07/26/12 15:38	
Bromochloromethane	ug/kg	ND	5.0	07/26/12 15:38	
Bromodichloromethane	ug/kg	ND	5.0	07/26/12 15:38	
Bromoform	ug/kg	ND	5.0	07/26/12 15:38	
Bromomethane	ug/kg	ND	5.0	07/26/12 15:38	
Carbon disulfide	ug/kg	ND	5.0	07/26/12 15:38	
Carbon tetrachloride	ug/kg	ND	5.0	07/26/12 15:38	
Chlorobenzene	ug/kg	ND	5.0	07/26/12 15:38	
Chloroethane	ug/kg	ND	5.0	07/26/12 15:38	
Chloroform	ug/kg	ND	5.0	07/26/12 15:38	
Chloromethane	ug/kg	ND	5.0	07/26/12 15:38	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	07/26/12 15:38	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	07/26/12 15:38	
Dibromochloromethane	ug/kg	ND	5.0	07/26/12 15:38	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

METHOD BLANK: 1035294 Matrix: Solid

Associated Lab Samples: 60125813001, 60125813004, 60125813005, 60125813006, 60125813007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	07/26/12 15:38	
Dichlorodifluoromethane	ug/kg	ND	5.0	07/26/12 15:38	
Ethylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	07/26/12 15:38	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	07/26/12 15:38	
Methyl-tert-butyl ether	ug/kg	ND	5.0	07/26/12 15:38	
Methylene chloride	ug/kg	ND	5.0	07/26/12 15:38	
n-Butylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
n-Propylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
Naphthalene	ug/kg	ND	10.0	07/26/12 15:38	
p-Isopropyltoluene	ug/kg	ND	5.0	07/26/12 15:38	
sec-Butylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
Styrene	ug/kg	ND	5.0	07/26/12 15:38	
tert-Butylbenzene	ug/kg	ND	5.0	07/26/12 15:38	
Tetrachloroethene	ug/kg	ND	5.0	07/26/12 15:38	
Toluene	ug/kg	ND	5.0	07/26/12 15:38	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	07/26/12 15:38	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	07/26/12 15:38	
Trichloroethene	ug/kg	ND	5.0	07/26/12 15:38	
Trichlorofluoromethane	ug/kg	ND	5.0	07/26/12 15:38	
Vinyl chloride	ug/kg	ND	5.0	07/26/12 15:38	
Xylene (Total)	ug/kg	ND	5.0	07/26/12 15:38	
1,2-Dichloroethane-d4 (S)	%	95	73-135	07/26/12 15:38	
4-Bromofluorobenzene (S)	%	96	78-125	07/26/12 15:38	
Dibromofluoromethane (S)	%	93	78-122	07/26/12 15:38	
Toluene-d8 (S)	%	102	80-123	07/26/12 15:38	

LABORATORY CONTROL SAMPLE: 1035295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	95.3	95	80-120	
1,1,1-Trichloroethane	ug/kg	100	93.6	94	78-128	
1,1,2,2-Tetrachloroethane	ug/kg	100	81.1	81	70-120	
1,1,2-Trichloroethane	ug/kg	100	83.4	83	77-120	
1,1-Dichloroethane	ug/kg	100	79.1	79	78-120	
1,1-Dichloroethene	ug/kg	100	91.7	92	71-123	
1,1-Dichloropropene	ug/kg	100	95.3	95	77-127	
1,2,3-Trichlorobenzene	ug/kg	100	93.9	94	80-120	
1,2,3-Trichloropropane	ug/kg	100	85.7	86	73-120	
1,2,4-Trichlorobenzene	ug/kg	100	93.2	93	78-121	
1,2,4-Trimethylbenzene	ug/kg	100	83.4	83	80-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	83.5	83	70-125	
1,2-Dibromoethane (EDB)	ug/kg	100	92.5	92	78-120	
1,2-Dichlorobenzene	ug/kg	100	87.7	88	80-120	
1,2-Dichloroethane	ug/kg	100	88.9	89	76-121	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

LABORATORY CONTROL SAMPLE: 1035295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	200	171	85	80-120	
1,2-Dichloropropane	ug/kg	100	95.7	96	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	85.1	85	79-120	
1,3-Dichlorobenzene	ug/kg	100	87.5	88	80-120	
1,3-Dichloropropane	ug/kg	100	82.6	83	76-120	
1,4-Dichlorobenzene	ug/kg	100	89.1	89	80-120	
2,2-Dichloropropane	ug/kg	100	82.1	82	71-130	
2-Butanone (MEK)	ug/kg	500	371	74	45-160	
2-Chlorotoluene	ug/kg	100	86.0	86	78-120	
2-Hexanone	ug/kg	500	426	85	47-160	
4-Chlorotoluene	ug/kg	100	82.6	83	79-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	459	92	68-123	
Acetone	ug/kg	500	366	73	40-160	
Benzene	ug/kg	100	91.2	91	78-120	
Bromobenzene	ug/kg	100	93.7	94	80-120	
Bromochloromethane	ug/kg	100	90.1	90	76-120	
Bromodichloromethane	ug/kg	100	90.9	91	79-120	
Bromoform	ug/kg	100	98.6	99	75-124	
Bromomethane	ug/kg	100	82.9	83	59-157	
Carbon disulfide	ug/kg	100	86.3	86	74-158	
Carbon tetrachloride	ug/kg	100	90.1	90	79-139	
Chlorobenzene	ug/kg	100	91.9	92	80-120	
Chloroethane	ug/kg	100	96.1	96	66-153	
Chloroform	ug/kg	100	72.2	72	74-120	L0
Chloromethane	ug/kg	100	93.1	93	40-160	
cis-1,2-Dichloroethene	ug/kg	100	81.7	82	75-120	
cis-1,3-Dichloropropene	ug/kg	100	92.3	92	80-120	
Dibromochloromethane	ug/kg	100	97.4	97	80-123	
Dibromomethane	ug/kg	100	91.6	92	80-120	
Dichlorodifluoromethane	ug/kg	100	97.4	97	40-160	
Ethylbenzene	ug/kg	100	92.4	92	77-120	
Hexachloro-1,3-butadiene	ug/kg	100	97.3	97	71-134	
Isopropylbenzene (Cumene)	ug/kg	100	98.1	98	80-128	
Methyl-tert-butyl ether	ug/kg	100	81.0	81	71-122	
Methylene chloride	ug/kg	100	84.2	84	76-131	
n-Butylbenzene	ug/kg	100	86.3	86	78-130	
n-Propylbenzene	ug/kg	100	87.4	87	78-121	
Naphthalene	ug/kg	100	92.8	93	67-123	
p-Isopropyltoluene	ug/kg	100	88.0	88	80-122	
sec-Butylbenzene	ug/kg	100	87.9	88	79-124	
Styrene	ug/kg	100	90.6	91	77-120	
tert-Butylbenzene	ug/kg	100	89.1	89	80-123	
Tetrachloroethene	ug/kg	100	99.1	99	74-129	
Toluene	ug/kg	100	93.3	93	76-120	
trans-1,2-Dichloroethene	ug/kg	100	89.1	89	80-129	
trans-1,3-Dichloropropene	ug/kg	100	93.5	94	80-120	
Trichloroethene	ug/kg	100	93.1	93	79-120	
Trichlorofluoromethane	ug/kg	100	91.1	91	70-135	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

LABORATORY CONTROL SAMPLE: 1035295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	100	93.2	93	64-148	
Xylene (Total)	ug/kg	300	267	89	76-120	
1,2-Dichloroethane-d4 (S)	%			96	73-135	
4-Bromofluorobenzene (S)	%			95	78-125	
Dibromofluoromethane (S)	%			100	78-122	
Toluene-d8 (S)	%			101	80-123	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: MSV/47410 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60125813002, 60125813008

METHOD BLANK: 1037202 | Matrix: Solid
Associated Lab Samples: 60125813002, 60125813008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1,1-Trichloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1,2-Trichloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1-Dichloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1-Dichloroethene	ug/kg	ND	5.0	07/30/12 17:20	
1,1-Dichloropropene	ug/kg	ND	5.0	07/30/12 17:20	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,2,3-Trichloropropane	ug/kg	ND	5.0	07/30/12 17:20	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	07/30/12 17:20	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichloropropane	ug/kg	ND	5.0	07/30/12 17:20	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,3-Dichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,3-Dichloropropane	ug/kg	ND	5.0	07/30/12 17:20	
1,4-Dichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
2,2-Dichloropropane	ug/kg	ND	5.0	07/30/12 17:20	
2-Butanone (MEK)	ug/kg	ND	10.0	07/30/12 17:20	
2-Chlorotoluene	ug/kg	ND	5.0	07/30/12 17:20	
2-Hexanone	ug/kg	ND	20.0	07/30/12 17:20	
4-Chlorotoluene	ug/kg	ND	5.0	07/30/12 17:20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	07/30/12 17:20	
Acetone	ug/kg	ND	20.0	07/30/12 17:20	
Benzene	ug/kg	ND	5.0	07/30/12 17:20	
Bromobenzene	ug/kg	ND	5.0	07/30/12 17:20	
Bromochloromethane	ug/kg	ND	5.0	07/30/12 17:20	
Bromodichloromethane	ug/kg	ND	5.0	07/30/12 17:20	
Bromoform	ug/kg	ND	5.0	07/30/12 17:20	
Bromomethane	ug/kg	ND	5.0	07/30/12 17:20	
Carbon disulfide	ug/kg	ND	5.0	07/30/12 17:20	
Carbon tetrachloride	ug/kg	ND	5.0	07/30/12 17:20	
Chlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
Chloroethane	ug/kg	ND	5.0	07/30/12 17:20	
Chloroform	ug/kg	ND	5.0	07/30/12 17:20	
Chloromethane	ug/kg	ND	5.0	07/30/12 17:20	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	07/30/12 17:20	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	07/30/12 17:20	
Dibromochloromethane	ug/kg	ND	5.0	07/30/12 17:20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

METHOD BLANK: 1037202 Matrix: Solid

Associated Lab Samples: 60125813002, 60125813008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	07/30/12 17:20	
Dichlorodifluoromethane	ug/kg	ND	5.0	07/30/12 17:20	
Ethylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	07/30/12 17:20	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	07/30/12 17:20	
Methyl-tert-butyl ether	ug/kg	ND	5.0	07/30/12 17:20	
Methylene chloride	ug/kg	ND	5.0	07/30/12 17:20	
n-Butylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
n-Propylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
Naphthalene	ug/kg	ND	10.0	07/30/12 17:20	
p-Isopropyltoluene	ug/kg	ND	5.0	07/30/12 17:20	
sec-Butylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
Styrene	ug/kg	ND	5.0	07/30/12 17:20	
tert-Butylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
Tetrachloroethene	ug/kg	ND	5.0	07/30/12 17:20	
Toluene	ug/kg	ND	5.0	07/30/12 17:20	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	07/30/12 17:20	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	07/30/12 17:20	
Trichloroethene	ug/kg	ND	5.0	07/30/12 17:20	
Trichlorofluoromethane	ug/kg	ND	5.0	07/30/12 17:20	
Vinyl chloride	ug/kg	ND	5.0	07/30/12 17:20	
Xylene (Total)	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichloroethane-d4 (S)	%	99	73-135	07/30/12 17:20	
4-Bromofluorobenzene (S)	%	99	78-125	07/30/12 17:20	
Dibromofluoromethane (S)	%	100	78-122	07/30/12 17:20	
Toluene-d8 (S)	%	100	80-123	07/30/12 17:20	

LABORATORY CONTROL SAMPLE: 1037203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	91.7	92	80-120	
1,1,1-Trichloroethane	ug/kg	100	87.9	88	78-128	
1,1,2,2-Tetrachloroethane	ug/kg	100	91.6	92	70-120	
1,1,2-Trichloroethane	ug/kg	100	88.0	88	77-120	
1,1-Dichloroethane	ug/kg	100	85.1	85	78-120	
1,1-Dichloroethene	ug/kg	100	93.4	93	71-123	
1,1-Dichloropropene	ug/kg	100	89.0	89	77-127	
1,2,3-Trichlorobenzene	ug/kg	100	82.6	83	80-120	
1,2,3-Trichloropropane	ug/kg	100	88.7	89	73-120	
1,2,4-Trichlorobenzene	ug/kg	100	80.6	81	78-121	
1,2,4-Trimethylbenzene	ug/kg	100	83.7	84	80-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	84.6	85	70-125	
1,2-Dibromoethane (EDB)	ug/kg	100	92.4	92	78-120	
1,2-Dichlorobenzene	ug/kg	100	86.6	87	80-120	
1,2-Dichloroethane	ug/kg	100	91.8	92	76-121	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

LABORATORY CONTROL SAMPLE: 1037203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	200	177	88	80-120	
1,2-Dichloropropane	ug/kg	100	89.6	90	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	83.1	83	79-120	
1,3-Dichlorobenzene	ug/kg	100	84.8	85	80-120	
1,3-Dichloropropane	ug/kg	100	84.3	84	76-120	
1,4-Dichlorobenzene	ug/kg	100	86.7	87	80-120	
2,2-Dichloropropane	ug/kg	100	83.8	84	71-130	
2-Butanone (MEK)	ug/kg	500	435	87	45-160	
2-Chlorotoluene	ug/kg	100	84.3	84	78-120	
2-Hexanone	ug/kg	500	439	88	47-160	
4-Chlorotoluene	ug/kg	100	84.1	84	79-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	443	89	68-123	
Acetone	ug/kg	500	438	88	40-160	
Benzene	ug/kg	100	87.2	87	78-120	
Bromobenzene	ug/kg	100	86.0	86	80-120	
Bromochloromethane	ug/kg	100	95.9	96	76-120	
Bromodichloromethane	ug/kg	100	88.5	88	79-120	
Bromoform	ug/kg	100	93.8	94	75-124	
Bromomethane	ug/kg	100	85.0	85	59-157	
Carbon disulfide	ug/kg	100	91.5	92	74-158	
Carbon tetrachloride	ug/kg	100	90.9	91	79-139	
Chlorobenzene	ug/kg	100	87.1	87	80-120	
Chloroethane	ug/kg	100	104	104	66-153	
Chloroform	ug/kg	100	78.5	78	74-120	
Chloromethane	ug/kg	100	105	105	40-160	
cis-1,2-Dichloroethene	ug/kg	100	86.6	87	75-120	
cis-1,3-Dichloropropene	ug/kg	100	90.4	90	80-120	
Dibromochloromethane	ug/kg	100	95.4	95	80-123	
Dibromomethane	ug/kg	100	86.2	86	80-120	
Dichlorodifluoromethane	ug/kg	100	104	104	40-160	
Ethylbenzene	ug/kg	100	84.3	84	77-120	
Hexachloro-1,3-butadiene	ug/kg	100	81.8	82	71-134	
Isopropylbenzene (Cumene)	ug/kg	100	89.4	89	80-128	
Methyl-tert-butyl ether	ug/kg	100	87.5	87	71-122	
Methylene chloride	ug/kg	100	91.0	91	76-131	
n-Butylbenzene	ug/kg	100	85.0	85	78-130	
n-Propylbenzene	ug/kg	100	85.2	85	78-121	
Naphthalene	ug/kg	100	84.0	84	67-123	
p-Isopropyltoluene	ug/kg	100	81.9	82	80-122	
sec-Butylbenzene	ug/kg	100	83.8	84	79-124	
Styrene	ug/kg	100	86.0	86	77-120	
tert-Butylbenzene	ug/kg	100	84.3	84	80-123	
Tetrachloroethene	ug/kg	100	84.2	84	74-129	
Toluene	ug/kg	100	80.4	80	76-120	
trans-1,2-Dichloroethene	ug/kg	100	90.0	90	80-129	
trans-1,3-Dichloropropene	ug/kg	100	99.3	99	80-120	
Trichloroethene	ug/kg	100	85.8	86	79-120	
Trichlorofluoromethane	ug/kg	100	97.2	97	70-135	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

LABORATORY CONTROL SAMPLE: 1037203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	100	108	108	64-148	
Xylene (Total)	ug/kg	300	252	84	76-120	
1,2-Dichloroethane-d4 (S)	%			100	73-135	
4-Bromofluorobenzene (S)	%			98	78-125	
Dibromofluoromethane (S)	%			101	78-122	
Toluene-d8 (S)	%			99	80-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037204 1037205

Parameter	Units	60125686004 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	ND	99.5	99.3	69.5	75.5	70	76	40-138	8	48	
1,1,1-Trichloroethane	ug/kg	ND	99.5	99.3	80.2	83.0	81	84	40-136	3	39	
1,1,2,2-Tetrachloroethane	ug/kg	ND	99.5	99.3	ND	ND	2	2	40-157		47	M1
1,1,2-Trichloroethane	ug/kg	ND	99.5	99.3	26.2	26.5	26	27	40-141	1	47	M1
1,1-Dichloroethane	ug/kg	ND	99.5	99.3	76.6	81.5	77	82	40-126	6	42	
1,1-Dichloroethene	ug/kg	ND	99.5	99.3	129	138	129	139	40-130	7	33	M1
1,1-Dichloropropene	ug/kg	ND	99.5	99.3	74.3	80.1	75	81	40-134	7	44	
1,2,3-Trichlorobenzene	ug/kg	ND	99.5	99.3	57.7	66.8	58	67	40-131	15	45	
1,2,3-Trichloropropane	ug/kg	ND	99.5	99.3	72.0	80.6	72	81	40-160	11	48	
1,2,4-Trichlorobenzene	ug/kg	ND	99.5	99.3	57.4	63.4	58	64	40-133	10	48	
1,2,4-Trimethylbenzene	ug/kg	ND	99.5	99.3	74.1	75.7	70	71	40-132	2	46	
1,2-Dibromo-3-chloropropane	ug/kg	ND	99.5	99.3	21.8	21.9	22	22	40-160	0	49	M1
1,2-Dibromoethane (EDB)	ug/kg	ND	99.5	99.3	81.9	89.8	82	90	40-143	9	39	
1,2-Dichlorobenzene	ug/kg	ND	99.5	99.3	67.2	75.1	68	76	40-133	11	45	
1,2-Dichloroethane	ug/kg	ND	99.5	99.3	85.6	93.0	86	94	40-141	8	41	
1,2-Dichloroethene (Total)	ug/kg	ND	199	199	156	167	79	84	40-131	7	42	
1,2-Dichloropropane	ug/kg	ND	99.5	99.3	84.7	90.8	85	91	40-134	7	43	
1,3,5-Trimethylbenzene	ug/kg	ND	99.5	99.3	70.6	71.6	70	71	40-134	1	47	
1,3-Dichlorobenzene	ug/kg	ND	99.5	99.3	62.8	70.0	63	71	40-131	11	45	
1,3-Dichloropropane	ug/kg	ND	99.5	99.3	77.8	84.0	78	85	40-133	8	45	
1,4-Dichlorobenzene	ug/kg	ND	99.5	99.3	64.8	72.2	65	73	40-134	11	46	
2,2-Dichloropropane	ug/kg	ND	99.5	99.3	75.2	80.6	76	81	40-135	7	45	
2-Butanone (MEK)	ug/kg	ND	497	496	418	465	83	93	45-160	11	48	
2-Chlorotoluene	ug/kg	ND	99.5	99.3	67.1	72.1	67	73	40-133	7	46	
2-Hexanone	ug/kg	ND	497	496	423	463	85	93	40-160	9	47	
4-Chlorotoluene	ug/kg	ND	99.5	99.3	65.7	70.6	66	71	40-136	7	46	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	497	496	425	462	85	92	40-148	8	49	
Acetone	ug/kg	0.024 mg/kg	497	496	445	480	85	92	40-160	8	44	
Benzene	ug/kg	ND	99.5	99.3	78.5	83.7	79	84	40-141	6	34	
Bromobenzene	ug/kg	ND	99.5	99.3	72.1	78.1	73	79	40-138	8	44	
Bromochloromethane	ug/kg	ND	99.5	99.3	89.0	96.2	90	97	40-141	8	45	
Bromodichloromethane	ug/kg	ND	99.5	99.3	59.9	65.4	60	66	40-136	9	47	
Bromoform	ug/kg	ND	99.5	99.3	76.2	86.2	77	87	40-146	12	47	
Bromomethane	ug/kg	ND	99.5	99.3	68.7	71.4	69	72	40-147	4	40	
Carbon disulfide	ug/kg	ND	99.5	99.3	49.1	64.6	49	65	40-147	27	34	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037204 1037205

Parameter	Units	60125686004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Carbon tetrachloride	ug/kg	ND	99.5	99.3	78.7	82.7	79	83	40-138	5	45	
Chlorobenzene	ug/kg	ND	99.5	99.3	73.4	78.9	74	79	40-130	7	46	
Chloroethane	ug/kg	ND	99.5	99.3	83.4	88.9	84	90	40-157	6	34	
Chloroform	ug/kg	ND	99.5	99.3	72.4	77.0	72	76	40-129	6	43	
Chloromethane	ug/kg	ND	99.5	99.3	75.1	79.7	76	80	40-140	6	37	
cis-1,2-Dichloroethene	ug/kg	ND	99.5	99.3	78.9	84.2	79	85	40-125	6	46	
cis-1,3-Dichloropropene	ug/kg	ND	99.5	99.3	80.1	85.9	80	87	40-132	7	47	
Dibromochloromethane	ug/kg	ND	99.5	99.3	70.3	75.0	71	76	40-144	6	41	
Dibromomethane	ug/kg	ND	99.5	99.3	80.3	87.1	81	88	40-140	8	47	
Dichlorodifluoromethane	ug/kg	ND	99.5	99.3	61.7	66.7	62	67	40-127	8	37	
Ethylbenzene	ug/kg	ND	99.5	99.3	73.9	77.0	73	76	40-149	4	39	
Hexachloro-1,3-butadiene	ug/kg	ND	99.5	99.3	60.9	54.3	61	55	40-128	11	48	
Isopropylbenzene (Cumene)	ug/kg	ND	99.5	99.3	79.0	78.4	79	79	40-142	1	48	
Methyl-tert-butyl ether	ug/kg	ND	99.5	99.3	81.7	90.1	82	91	40-147	10	36	
Methylene chloride	ug/kg	ND	99.5	99.3	87.4	92.4	86	91	40-147	6	44	
n-Butylbenzene	ug/kg	ND	99.5	99.3	69.3	64.4	70	65	40-136	7	47	
n-Propylbenzene	ug/kg	ND	99.5	99.3	69.8	71.5	70	72	40-134	2	45	
Naphthalene	ug/kg	ND	99.5	99.3	74.1	84.5	70	81	40-158	13	46	
p-Isopropyltoluene	ug/kg	ND	99.5	99.3	68.6	65.2	69	66	40-133	5	46	
sec-Butylbenzene	ug/kg	ND	99.5	99.3	71.6	67.7	72	68	40-135	6	48	
Styrene	ug/kg	ND	99.5	99.3	72.7	78.6	73	79	40-133	8	48	
tert-Butylbenzene	ug/kg	ND	99.5	99.3	75.5	72.7	76	73	40-137	4	45	
Tetrachloroethene	ug/kg	ND	99.5	99.3	65.8	73.0	66	74	40-128	10	44	
Toluene	ug/kg	ND	99.5	99.3	70.7	76.3	68	74	40-143	8	39	
trans-1,2-Dichloroethene	ug/kg	ND	99.5	99.3	77.5	83.1	78	84	40-140	7	35	
trans-1,3-Dichloropropene	ug/kg	ND	99.5	99.3	86.7	94.7	87	95	40-144	9	46	
Trichloroethene	ug/kg	ND	99.5	99.3	139	149	139	150	40-139	7	37	M1
Trichlorofluoromethane	ug/kg	ND	99.5	99.3	75.0	81.5	75	82	40-137	8	34	
Vinyl chloride	ug/kg	ND	99.5	99.3	79.0	83.6	79	84	40-150	6	32	
Xylene (Total)	ug/kg	0.0066 mg/kg	299	298	224	236	73	77	40-147	5	40	
1,2-Dichloroethane-d4 (S)	%						100	100	73-135			
4-Bromofluorobenzene (S)	%						101	99	78-125			
Dibromofluoromethane (S)	%						48	44	78-122			S0
Toluene-d8 (S)	%						100	100	80-123			

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: OEXT/34158 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 60125813001, 60125813002, 60125813004, 60125813005, 60125813006, 60125813007, 60125813008

METHOD BLANK: 1034973 Matrix: Solid
Associated Lab Samples: 60125813001, 60125813002, 60125813004, 60125813005, 60125813006, 60125813007, 60125813008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	3.2	07/27/12 11:46	
Acenaphthylene	ug/kg	ND	3.2	07/27/12 11:46	
Anthracene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(a)anthracene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(a)pyrene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(b)fluoranthene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(g,h,i)perylene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(k)fluoranthene	ug/kg	ND	3.2	07/27/12 11:46	
Chrysene	ug/kg	ND	3.2	07/27/12 11:46	
Dibenz(a,h)anthracene	ug/kg	ND	3.2	07/27/12 11:46	
Fluoranthene	ug/kg	ND	3.2	07/27/12 11:46	
Fluorene	ug/kg	ND	3.2	07/27/12 11:46	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	3.2	07/27/12 11:46	
Naphthalene	ug/kg	ND	3.2	07/27/12 11:46	
Phenanthrene	ug/kg	ND	3.2	07/27/12 11:46	
Pyrene	ug/kg	ND	3.2	07/27/12 11:46	
2-Fluorobiphenyl (S)	%	78	41-120	07/27/12 11:46	
Nitrobenzene-d5 (S)	%	95	35-121	07/27/12 11:46	
Terphenyl-d14 (S)	%	78	39-123	07/27/12 11:46	

LABORATORY CONTROL SAMPLE: 1034974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	32.5	26.3	81	58-120	
Acenaphthylene	ug/kg	32.5	25.5	78	56-120	
Anthracene	ug/kg	32.5	23.5	72	55-120	
Benzo(a)anthracene	ug/kg	32.5	26.3	81	60-120	
Benzo(a)pyrene	ug/kg	32.5	26.2	81	54-120	
Benzo(b)fluoranthene	ug/kg	32.5	26.2	81	54-128	
Benzo(g,h,i)perylene	ug/kg	32.5	25.6	79	26-126	
Benzo(k)fluoranthene	ug/kg	32.5	26.0	80	53-120	
Chrysene	ug/kg	32.5	26.8	82	56-120	
Dibenz(a,h)anthracene	ug/kg	32.5	25.7	79	42-120	
Fluoranthene	ug/kg	32.5	27.3	84	57-120	
Fluorene	ug/kg	32.5	27.4	84	58-120	
Indeno(1,2,3-cd)pyrene	ug/kg	32.5	23.9	74	37-120	
Naphthalene	ug/kg	32.5	25.6	79	55-120	
Phenanthrene	ug/kg	32.5	30.1	92	57-120	
Pyrene	ug/kg	32.5	27.3	84	57-120	
2-Fluorobiphenyl (S)	%			81	41-120	
Nitrobenzene-d5 (S)	%			94	35-121	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

LABORATORY CONTROL SAMPLE: 1034974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			77	39-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1034975 1034976

Parameter	Units	60125643003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	43.3	43.4	36.8	31.9	84	72	45-120	14	30	
Acenaphthylene	ug/kg	ND	43.3	43.4	35.3	30.9	81	71	28-129	13	35	
Anthracene	ug/kg	ND	43.3	43.4	35.9	29.4	83	68	27-130	20	37	
Benzo(a)anthracene	ug/kg	ND	43.3	43.4	38.2	33.5	87	76	36-127	13	39	
Benzo(a)pyrene	ug/kg	ND	43.3	43.4	32.1	29.3	73	66	21-135	9	35	
Benzo(b)fluoranthene	ug/kg	ND	43.3	43.4	41.0	36.9	90	80	17-158	11	36	
Benzo(g,h,i)perylene	ug/kg	ND	43.3	43.4	36.8	34.5	77	72	10-141	6	41	
Benzo(k)fluoranthene	ug/kg	ND	43.3	43.4	32.1	29.1	72	65	47-120	10	33	
Chrysene	ug/kg	ND	43.3	43.4	35.4	29.3	80	66	24-128	19	42	
Dibenz(a,h)anthracene	ug/kg	ND	43.3	43.4	32.9	31.3	75	71	10-137	5	31	
Fluoranthene	ug/kg	ND	43.3	43.4	36.4	31.5	83	71	34-126	15	43	
Fluorene	ug/kg	ND	43.3	43.4	37.9	32.6	86	73	42-123	15	35	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	43.3	43.4	33.7	30.7	76	69	10-126	9	32	
Naphthalene	ug/kg	14.4	43.3	43.4	36.3	33.6	51	44	22-135	8	41	
Phenanthrene	ug/kg	ND	43.3	43.4	42.6	36.9	91	78	29-139	14	42	
Pyrene	ug/kg	ND	43.3	43.4	36.6	32.1	83	72	20-138	13	43	
2-Fluorobiphenyl (S)	%						100	74	41-120			
Nitrobenzene-d5 (S)	%						85	78	35-121			
Terphenyl-d14 (S)	%						98	61	39-123			

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: OEXT/34136
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270C by SIM
Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60125813003

METHOD BLANK: 1034350
Matrix: Water
Associated Lab Samples: 60125813003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	08/03/12 17:05	
Acenaphthylene	ug/L	ND	0.10	08/03/12 17:05	
Anthracene	ug/L	ND	0.10	08/03/12 17:05	
Benzo(a)anthracene	ug/L	ND	0.10	08/03/12 17:05	
Benzo(a)pyrene	ug/L	ND	0.10	08/03/12 17:05	
Benzo(b)fluoranthene	ug/L	ND	0.10	08/03/12 17:05	
Benzo(g,h,i)perylene	ug/L	ND	0.10	08/03/12 17:05	
Benzo(k)fluoranthene	ug/L	ND	0.10	08/03/12 17:05	
Chrysene	ug/L	ND	0.10	08/03/12 17:05	
Dibenz(a,h)anthracene	ug/L	ND	0.10	08/03/12 17:05	
Fluoranthene	ug/L	0.15	0.10	08/03/12 17:05	
Fluorene	ug/L	ND	0.10	08/03/12 17:05	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	08/03/12 17:05	
Naphthalene	ug/L	ND	0.50	08/03/12 17:05	
Phenanthrene	ug/L	ND	0.50	08/03/12 17:05	
Pyrene	ug/L	ND	0.10	08/03/12 17:05	
2-Fluorobiphenyl (S)	%	83	44-120	08/03/12 17:05	
Nitrobenzene-d5 (S)	%	93	42-120	08/03/12 17:05	
Terphenyl-d14 (S)	%	91	46-131	08/03/12 17:05	

LABORATORY CONTROL SAMPLE: 1034351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	10	7.3	73	48-120	
Acenaphthylene	ug/L	10	7.3	73	42-120	
Anthracene	ug/L	10	8.0	80	48-120	
Benzo(a)anthracene	ug/L	10	10.0	100	53-118	
Benzo(a)pyrene	ug/L	10	8.2	82	48-115	
Benzo(b)fluoranthene	ug/L	10	9.5	95	42-132	
Benzo(g,h,i)perylene	ug/L	10	7.6	76	38-116	
Benzo(k)fluoranthene	ug/L	10	7.5	75	48-117	
Chrysene	ug/L	10	7.5	75	51-115	
Dibenz(a,h)anthracene	ug/L	10	7.0	70	40-116	
Fluoranthene	ug/L	10	9.6	96	37-134	
Fluorene	ug/L	10	8.2	82	49-116	
Indeno(1,2,3-cd)pyrene	ug/L	10	7.0	70	37-118	
Naphthalene	ug/L	10	7.2	72	41-112	
Phenanthrene	ug/L	10	7.8	78	52-116	
Pyrene	ug/L	10	7.9	79	44-134	
2-Fluorobiphenyl (S)	%			70	44-120	
Nitrobenzene-d5 (S)	%			79	42-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

LABORATORY CONTROL SAMPLE: 1034351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			73	46-131	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: OEXT/34137 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60125813003

METHOD BLANK: 1034359 Matrix: Water
Associated Lab Samples: 60125813003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	07/27/12 07:24	
Fuel Oil	mg/L	ND	0.40	07/27/12 07:24	
Jet Fuel	mg/L	ND	0.40	07/27/12 07:24	
Kerosene	mg/L	ND	0.40	07/27/12 07:24	
Mineral Spirits	mg/L	ND	0.40	07/27/12 07:24	
Motor Oil	mg/L	ND	0.40	07/27/12 07:24	
Total Petroleum Hydrocarbons	mg/L	ND	0.40	07/27/12 07:24	
n-Tetracosane (S)	%	68	30-122	07/27/12 07:24	
p-Terphenyl (S)	%	66	20-122	07/27/12 07:24	

LABORATORY CONTROL SAMPLE: 1034360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	25	20.2	81	47-122	
n-Tetracosane (S)	%			66	30-122	
p-Terphenyl (S)	%			66	20-122	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: OEXT/34179 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60125813001, 60125813002, 60125813004, 60125813005, 60125813006, 60125813007, 60125813008

METHOD BLANK: 1035683 Matrix: Solid
Associated Lab Samples: 60125813001, 60125813002, 60125813004, 60125813005, 60125813006, 60125813007, 60125813008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/kg	ND	19.8	07/30/12 22:56	
Fuel Oil	mg/kg	ND	19.8	07/30/12 22:56	
Jet Fuel	mg/kg	ND	19.8	07/30/12 22:56	
Kerosene	mg/kg	ND	19.8	07/30/12 22:56	
Mineral Spirits	mg/kg	ND	19.8	07/30/12 22:56	
Motor Oil	mg/kg	ND	19.8	07/30/12 22:56	
Total Petroleum Hydrocarbons	mg/kg	ND	19.8	07/30/12 22:56	
n-Tetracosane (S)	%	97	50-137	07/30/12 22:56	
p-Terphenyl (S)	%	83	41-129	07/30/12 22:56	

LABORATORY CONTROL SAMPLE: 1035684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/kg	486	519	107	66-138	
n-Tetracosane (S)	%			103	50-137	
p-Terphenyl (S)	%			97	41-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035685 1035686

Parameter	Units	60125914001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel	mg/kg	ND	507	493	542	541	107	110	56-154	0	27	
n-Tetracosane (S)	%						100	104	50-137			
p-Terphenyl (S)	%						88	91	41-129			

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: PMST/7549 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60125813001, 60125813002, 60125813004, 60125813005

METHOD BLANK: 1039390 Matrix: Solid
Associated Lab Samples: 60125813001, 60125813002, 60125813004, 60125813005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/03/12 00:00	

SAMPLE DUPLICATE: 1039391

Parameter	Units	60125766001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.8	21.7	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

QC Batch: PMST/7550 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60125813006, 60125813007, 60125813008

METHOD BLANK: 1039395 Matrix: Solid
Associated Lab Samples: 60125813006, 60125813007, 60125813008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/03/12 00:00	

SAMPLE DUPLICATE: 1039396

Parameter	Units	60125857008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	24.6	26.4	7	20	

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QUALIFIERS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/34136

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/34137

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47311

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47352

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47353

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47379

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/47425

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	Surrogate recovery outside laboratory control limits due to matrix interferences.
2e	The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to late motor oil range. Quantitation achieved using diesel fuel as a reference standard.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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QUALIFIERS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

ANALYTE QUALIFIERS

L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125813003	**SB-9 GW**	OA2	OEXT/34137	OA2	GCSV/12858
60125813001	**SB-8 9-11**	OA2	OEXT/34179	OA2	GCSV/12867
60125813002	**SB-9 12-14**	OA2	OEXT/34179	OA2	GCSV/12867
60125813004	**SB-10 12-14**	OA2	OEXT/34179	OA2	GCSV/12867
60125813005	**SB-11 17-19**	OA2	OEXT/34179	OA2	GCSV/12867
60125813006	**SB-14 8-10**	OA2	OEXT/34179	OA2	GCSV/12867
60125813007	**SB-17 10-12**	OA2	OEXT/34179	OA2	GCSV/12867
60125813008	**SB-18 12-14**	OA2	OEXT/34179	OA2	GCSV/12867
60125813001	**SB-8 9-11**	EPA 3050	MPRP/18871	EPA 6010	ICP/15732
60125813002	**SB-9 12-14**	EPA 3050	MPRP/18871	EPA 6010	ICP/15732
60125813004	**SB-10 12-14**	EPA 3050	MPRP/18871	EPA 6010	ICP/15732
60125813005	**SB-11 17-19**	EPA 3050	MPRP/18871	EPA 6010	ICP/15732
60125813006	**SB-14 8-10**	EPA 3050	MPRP/18871	EPA 6010	ICP/15732
60125813007	**SB-17 10-12**	EPA 3050	MPRP/18871	EPA 6010	ICP/15732
60125813008	**SB-18 12-14**	EPA 3050	MPRP/18871	EPA 6010	ICP/15732
60125813003	**SB-9 GW**	EPA 3010	MPRP/18881	EPA 6010	ICP/15725
60125813003	**SB-9 GW**	EPA 3010	MPRP/18880	EPA 6010	ICP/15715
60125813003	**SB-9 GW**	EPA 7470	MERP/6490	EPA 7470	MERC/6455
60125813003	**SB-9 GW**	EPA 7470	MERP/6489	EPA 7470	MERC/6458
60125813001	**SB-8 9-11**	EPA 7471	MERP/6494	EPA 7471	MERC/6463
60125813002	**SB-9 12-14**	EPA 7471	MERP/6494	EPA 7471	MERC/6463
60125813004	**SB-10 12-14**	EPA 7471	MERP/6494	EPA 7471	MERC/6463
60125813005	**SB-11 17-19**	EPA 7471	MERP/6494	EPA 7471	MERC/6463
60125813006	**SB-14 8-10**	EPA 7471	MERP/6494	EPA 7471	MERC/6463
60125813007	**SB-17 10-12**	EPA 7471	MERP/6494	EPA 7471	MERC/6463
60125813008	**SB-18 12-14**	EPA 7471	MERP/6494	EPA 7471	MERC/6463
60125813001	**SB-8 9-11**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125813002	**SB-9 12-14**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125813004	**SB-10 12-14**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125813005	**SB-11 17-19**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125813006	**SB-14 8-10**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125813007	**SB-17 10-12**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125813008	**SB-18 12-14**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125813003	**SB-9 GW**	EPA 3510C	OEXT/34136	EPA 8270C by SIM	MSSV/10739
60125813001	**SB-8 9-11**	OA1	MSV/47379		
60125813002	**SB-9 12-14**	OA1	MSV/47425		
60125813004	**SB-10 12-14**	OA1	MSV/47379		
60125813005	**SB-11 17-19**	OA1	MSV/47379		
60125813006	**SB-14 8-10**	OA1	MSV/47379		
60125813007	**SB-17 10-12**	OA1	MSV/47379		
60125813008	**SB-18 12-14**	OA1	MSV/47425		
60125813003	**SB-9 GW**	EPA 5030B/8260	MSV/47352		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KUHLMAN DIECASTING
Pace Project No.: 60125813

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125813003	**SB-9 GW**	EPA 8260/OA1	MSV/47353		
60125813001	**SB-8 9-11**	EPA 8260	MSV/47311		
60125813002	**SB-9 12-14**	EPA 8260	MSV/47410		
60125813004	**SB-10 12-14**	EPA 8260	MSV/47311		
60125813005	**SB-11 17-19**	EPA 8260	MSV/47311		
60125813006	**SB-14 8-10**	EPA 8260	MSV/47311		
60125813007	**SB-17 10-12**	EPA 8260	MSV/47311		
60125813008	**SB-18 12-14**	EPA 8260	MSV/47410		
60125813001	**SB-8 9-11**	ASTM D2974	PMST/7549		
60125813002	**SB-9 12-14**	ASTM D2974	PMST/7549		
60125813004	**SB-10 12-14**	ASTM D2974	PMST/7549		
60125813005	**SB-11 17-19**	ASTM D2974	PMST/7549		
60125813006	**SB-14 8-10**	ASTM D2974	PMST/7550		
60125813007	**SB-17 10-12**	ASTM D2974	PMST/7550		
60125813008	**SB-18 12-14**	ASTM D2974	PMST/7550		

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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

Section A Required Client Information

Company	Seagull Environmentals Technologies
Address	415 Oak St.
	Kansas City, MO 64106
Email To	jpritchard@seagullenvirotech.com
Phone: 913-220-5887	Fax:
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To	Jeff Pirtchard
Copy To	
Purchase Order No.	
Project Name:	Kuhlman Diecasting
Project Number:	

Section C Invoice Information

Attention:	
Company Name	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJW
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: KS

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) 8260	OA1	OA2	PPL metals - 6010/7470	6010 -Cr,Cu,Ni,Zn	PCBs	PAH SIM	Cyanide-total 9012				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60125813
1	SB-8-9-11	SL	C	7/18/12	1612	7/18/12	1612		7	4					2	1		X	X	X	X			X	2VGFU, 2V					9U, 1DG9M, 2DG9B a1
2	SB-9-12-14	SL	C	7/18/12	1648	7/18/12	1648		7	4					2	1		X	X	X	X			X	↓		↓			↓ ↓ a2
3	SB-9-GW	WT	G	7/18/12	1655	7/18/12	1655		8	3		2	3					X	X	X	X			X	3DG9H, 3AG4U, 2BP3N 1.5					a3
4	SB-10-12-14	SL	C	7/19/12	0940	7/19/12	0940		7	4					2	1		X	X	X	X			X	2VGFU, 2VG9U, 1DG9M, 2DG9B a4					
5	SB-11-17-19	SL	C	7/19/12	1150	7/19/12	1150		7	4					2	1		X	X	X	X			X	↓		↓			↓ ↓ a5
6	SB-14-8-10	SL	C	7/19/12	1352	7/19/12	1352		7	4					2	1		X	X	X	X			X						a6
7	SB-17-10-12	SL	C	7/19/12	1510	7/19/12	1510		7	4					2	1		X	X	X	X			X						a7
8	SB-18-12-14	SL	C	7/20/12	0908	7/20/12	0908		7	4					2	1		X	X	X	X			X						a8
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	7/25/12	0830	[signature]	7/25	0830	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*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.

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

Pace Analytical
www.pacelabs.com

Client Name: Seagull Env. Project # 60125813

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____ Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Optional
Proj. Due Date: 8/8
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☑ Other ZPLC

Thermometer Used: (T-191) / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 5.0

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 7/25

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☐ Yes ☑ No ☐ N/A	4.
Samples arrived within holding time:	~~☐ Yes~~ ☑ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☑ Yes ☐ No ☐ N/A	6. K, TS
Rush Turn Around Time requested:	☐ Yes ☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
Containers intact:	☑ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☑ No ☐ N/A	11.
Filtered volume received for dissolved tests	☐ Yes ☐ No ☑ N/A	12.
Sample labels match COC:	☑ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: SL, WT		
All containers needing preservation have been checked.	(☑ Yes) ☐ No ~~☐ N/A~~	7/25
All containers needing preservation are found to be in compliance with EPA recommendation.	☑ Yes ☐ No ☐ N/A	
Exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water), Phenolics	☑ Yes ☐ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☐ Yes ☑ No ☐ N/A	15.
Pace Trip Blank lot # (if purchased): _____		
Headspace in VOA vials (>6mm):	☐ Yes ☑ No ☐ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☑ No ☐ N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Total & dissolved metals per Joel Harvester. -MW 7/26/18

Project Manager Review: MW Date: 7/25/18

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)

F-KS-C-003-Rev.05, 19February2010

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August 13, 2012

Jeff Pritchard
Seagull Environmental Technologies
415 Oak St.
Kansas City, MO 64106

RE: Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Dear Jeff Pritchard:
Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Mary Jane Walls

maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

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CERTIFICATIONS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60125852001	**BR-1-SW**	Water	07/24/12 11:30	07/26/12 08:25
60125852002	**BR-2-SW**	Water	07/24/12 11:50	07/26/12 08:25
60125852003	**BR-3-SW**	Water	07/24/12 12:20	07/26/12 08:25
60125852004	**BR-4-SW**	Water	07/24/12 12:50	07/26/12 08:25
60125852005	**BR-1-SED**	Solid	07/24/12 11:30	07/26/12 08:25
60125852006	**BR-2-SED**	Solid	07/24/12 11:50	07/26/12 08:25
60125852007	**BR-3-SED**	Solid	07/24/12 12:20	07/26/12 08:25
60125852008	**BR-4-SED**	Solid	07/24/12 12:50	07/26/12 08:25
60125852009	**EP-SED**	Solid	07/25/12 09:55	07/26/12 08:25
60125852010	**NPWB-SED-S**	Solid	07/24/12 14:50	07/26/12 08:25
60125852011	**NPWB-SED-N**	Solid	07/24/12 14:40	07/26/12 08:25
60125852012	**NPWB-SW**	Water	07/24/12 14:30	07/26/12 08:25
60125852013	**SPWB-SED-N**	Solid	07/24/12 10:50	07/26/12 08:25
60125852014	**SPWB-SED-S**	Solid	07/24/12 11:05	07/26/12 08:25
60125852015	**GM-1**	Water	07/25/12 13:38	07/26/12 08:25
60125852016	**GM-2**	Water	07/25/12 14:40	07/26/12 08:25
60125852017	**GM-17**	Water	07/25/12 15:38	07/26/12 08:25

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SAMPLE ANALYTE COUNT

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60125852001	**BR-1-SW**	EPA 6010	SMW	4
60125852002	**BR-2-SW**	EPA 6010	SMW	4
60125852003	**BR-3-SW**	EPA 6010	SMW	4
60125852004	**BR-4-SW**	EPA 6010	SMW	4
60125852005	**BR-1-SED**	EPA 6010	SMW	4
		ASTM D2974	TMD	1
60125852006	**BR-2-SED**	EPA 6010	SMW	4
		ASTM D2974	TMD	1
60125852007	**BR-3-SED**	EPA 6010	SMW	4
		ASTM D2974	TMD	1
60125852008	**BR-4-SED**	EPA 6010	SMW	4
		ASTM D2974	TMD	1
60125852009	**EP-SED**	EPA 6010	SMW	4
		ASTM D2974	TMD	1
		EPA 9012A	AJM	1
60125852010	**NPWB-SED-S**	EPA 6010	SMW	4
		ASTM D2974	TMD	1
		EPA 9012A	AJM	1
60125852011	**NPWB-SED-N**	EPA 6010	SMW	4
		ASTM D2974	TMD	1
		EPA 9012A	AJM	1
60125852012	**NPWB-SW**	EPA 8082	NAW	9
		EPA 6010	SMW	4
		EPA 9012A	AJM	1
60125852013	**SPWB-SED-N**	EPA 6010	SMW	4
		ASTM D2974	TMD	1
		EPA 9012A	AJM	1
60125852014	**SPWB-SED-S**	EPA 6010	SMW	4
		ASTM D2974	TMD	1
		EPA 9012A	AJM	1
60125852015	**GM-1**	EPA 6010	SMW	4
		EPA 6010	SMW	4
60125852016	**GM-2**	EPA 6010	SMW	4
		EPA 6010	SMW	4
		EPA 7196	JML	1
		EPA 7196	JML	1
60125852017	**GM-17**	EPA 6010	SMW	4

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SAMPLE ANALYTE COUNT

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6010	SMW	4

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: BR-1-SW **Lab ID: 60125852001** Collected: 07/24/12 11:30 Received: 07/26/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:09	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:09	7440-50-8	
Nickel	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:09	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:09	7440-66-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: BR-2-SW **Lab ID: 60125852002** Collected: 07/24/12 11:50 Received: 07/26/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:11	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:11	7440-50-8	
Nickel	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:11	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:11	7440-66-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: BR-3-SW **Lab ID: 60125852003** Collected: 07/24/12 12:20 Received: 07/26/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:13	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:13	7440-50-8	
Nickel	**5.3**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:13	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:13	7440-66-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: BR-4-SW **Lab ID: 60125852004** Collected: 07/24/12 12:50 Received: 07/26/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:15	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:15	7440-50-8	
Nickel	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:15	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:15	7440-66-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: BR-1-SED **Lab ID: 60125852005** Collected: 07/24/12 11:30 Received: 07/26/12 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**13.5**	mg/kg	2.2	5	07/31/12 08:15	08/06/12 12:24	7440-47-3	
Copper	**12.0**	mg/kg	4.4	5	07/31/12 08:15	08/06/12 12:24	7440-50-8	
Nickel	**15.2**	mg/kg	2.2	5	07/31/12 08:15	08/06/12 12:24	7440-02-0	
Zinc	**44.2**	mg/kg	44.0	5	07/31/12 08:15	08/06/12 12:24	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**8.3**	%	0.50	1		08/06/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: BR-2-SED **Lab ID: 60125852006** Collected: 07/24/12 11:50 Received: 07/26/12 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**15.0**	mg/kg	2.9	5	07/31/12 08:15	08/06/12 12:27	7440-47-3	
Copper	**17.9**	mg/kg	5.9	5	07/31/12 08:15	08/06/12 12:27	7440-50-8	
Nickel	**23.9**	mg/kg	2.9	5	07/31/12 08:15	08/06/12 12:27	7440-02-0	
Zinc	**58.8**	mg/kg	58.6	5	07/31/12 08:15	08/06/12 12:27	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**31.2**	%	0.50	1		08/06/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: BR-3-SED **Lab ID: 60125852007** Collected: 07/24/12 12:20 Received: 07/26/12 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**21.3**	mg/kg	3.4	5	07/31/12 08:15	08/06/12 12:30	7440-47-3	
Copper	**17.8**	mg/kg	6.7	5	07/31/12 08:15	08/06/12 12:30	7440-50-8	
Nickel	**24.9**	mg/kg	3.4	5	07/31/12 08:15	08/06/12 12:30	7440-02-0	
Zinc	**70.3**	mg/kg	67.2	5	07/31/12 08:15	08/06/12 12:30	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**42.7**	%	0.50	1		08/07/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: BR-4-SED **Lab ID: 60125852008** Collected: 07/24/12 12:50 Received: 07/26/12 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**18.0**	mg/kg	2.7	5	07/31/12 08:15	08/06/12 12:34	7440-47-3	
Copper	**14.9**	mg/kg	5.5	5	07/31/12 08:15	08/06/12 12:34	7440-50-8	
Nickel	**20.7**	mg/kg	2.7	5	07/31/12 08:15	08/06/12 12:34	7440-02-0	
Zinc	**62.4**	mg/kg	54.7	5	07/31/12 08:15	08/06/12 12:34	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**28.6**	%	0.50	1		08/07/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: EP-SED **Lab ID: 60125852009** Collected: 07/25/12 09:55 Received: 07/26/12 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**19.0**	mg/kg	5.3	5	07/31/12 08:15	08/06/12 12:37	7440-47-3	
Copper	**19.1**	mg/kg	10.5	5	07/31/12 08:15	08/06/12 12:37	7440-50-8	
Nickel	**18.1**	mg/kg	1.1	1	07/31/12 08:15	08/03/12 17:10	7440-02-0	
Zinc	**59.9**	mg/kg	21.1	1	07/31/12 08:15	08/03/12 17:10	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**63.5**	%	0.50	1		08/07/12 00:00		
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	ND	mg/kg	0.44	1	07/30/12 07:35	07/30/12 18:21	57-12-5	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: NPWB-SED-S **Lab ID: 60125852010** Collected: 07/24/12 14:50 Received: 07/26/12 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**385**	mg/kg	1.0	1	07/31/12 08:15	08/03/12 17:13	7440-47-3	
Copper	**979**	mg/kg	2.0	1	07/31/12 08:15	08/03/12 17:13	7440-50-8	
Nickel	**91.2**	mg/kg	1.0	1	07/31/12 08:15	08/03/12 17:13	7440-02-0	
Zinc	**564**	mg/kg	20.1	1	07/31/12 08:15	08/03/12 17:13	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**60.6**	%	0.50	1		08/07/12 00:00		
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	ND	mg/kg	0.37	1	07/30/12 07:35	07/30/12 18:22	57-12-5	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: NPWB-SED-N **Lab ID: 60125852011** Collected: 07/24/12 14:40 Received: 07/26/12 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**301**	mg/kg	1.8	1	07/31/12 08:15	08/03/12 17:17	7440-47-3	
Copper	**873**	mg/kg	3.7	1	07/31/12 08:15	08/03/12 17:17	7440-50-8	
Nickel	**74.5**	mg/kg	1.8	1	07/31/12 08:15	08/03/12 17:17	7440-02-0	
Zinc	**435**	mg/kg	36.9	1	07/31/12 08:15	08/03/12 17:17	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**76.7**	%	0.50	1		08/07/12 00:00		
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	ND	mg/kg	0.69	1	07/30/12 07:35	07/30/12 18:22	57-12-5	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: NPWB-SW **Lab ID: 60125852012** Collected: 07/24/12 14:30 Received: 07/26/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	ND	ug/L	1.8	1	07/30/12 00:00	08/10/12 00:26	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.8	1	07/30/12 00:00	08/10/12 00:26	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	1.8	1	07/30/12 00:00	08/10/12 00:26	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	1.8	1	07/30/12 00:00	08/10/12 00:26	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	1.8	1	07/30/12 00:00	08/10/12 00:26	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	1.8	1	07/30/12 00:00	08/10/12 00:26	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	1.8	1	07/30/12 00:00	08/10/12 00:26	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	44	%	36-115	1	07/30/12 00:00	08/10/12 00:26	877-09-8	
Decachlorobiphenyl (S)	54	%	17-122	1	07/30/12 00:00	08/10/12 00:26	2051-24-3	CH
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	**186**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:17	7440-47-3	
Copper	**450**	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:17	7440-50-8	
Nickel	**57.8**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:17	7440-02-0	
Zinc	**456**	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:17	7440-66-6	
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	ND	mg/L	0.0050	1	07/30/12 07:33	07/30/12 19:17	57-12-5	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: SPWB-SED-N **Lab ID: 60125852013** Collected: 07/24/12 10:50 Received: 07/26/12 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**70.4**	mg/kg	3.2	5	07/31/12 08:15	08/06/12 12:40	7440-47-3	
Copper	**739**	mg/kg	6.5	5	07/31/12 08:15	08/06/12 12:40	7440-50-8	
Nickel	**58.7**	mg/kg	0.65	1	07/31/12 08:15	08/03/12 17:21	7440-02-0	
Zinc	**433**	mg/kg	12.9	1	07/31/12 08:15	08/03/12 17:21	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**24.1**	%	0.50	1		08/07/12 00:00		
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	**0.27**	mg/kg	0.20	1	07/30/12 07:35	07/30/12 18:25	57-12-5	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: SPWB-SED-S **Lab ID: 60125852014** Collected: 07/24/12 11:05 Received: 07/26/12 08:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**64.2**	mg/kg	3.9	5	07/31/12 08:15	08/06/12 12:51	7440-47-3	
Copper	**742**	mg/kg	7.8	5	07/31/12 08:15	08/06/12 12:51	7440-50-8	
Nickel	**68.6**	mg/kg	0.78	1	07/31/12 08:15	08/03/12 17:24	7440-02-0	
Zinc	**683**	mg/kg	15.5	1	07/31/12 08:15	08/03/12 17:24	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**45.4**	%	0.50	1		08/07/12 00:00		
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	ND	mg/kg	0.28	1	07/30/12 07:35	07/30/12 18:25	57-12-5	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: GM-1 **Lab ID: 60125852015** Collected: 07/25/12 13:38 Received: 07/26/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:23	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:23	7440-50-8	
Nickel	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:23	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:23	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:59	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:59	7440-50-8	
Nickel, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:59	7440-02-0	
Zinc, Dissolved	ND	ug/L	50.0	1	07/27/12 10:30	07/30/12 13:59	7440-66-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: GM-2 **Lab ID: 60125852016** Collected: 07/25/12 14:40 Received: 07/26/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	**5.1**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:25	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:25	7440-50-8	
Nickel	**6.4**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:25	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:25	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 14:03	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 14:03	7440-50-8	
Nickel, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 14:03	7440-02-0	
Zinc, Dissolved	ND	ug/L	50.0	1	07/27/12 10:30	07/30/12 14:03	7440-66-6	
7196 Chromium, Hexavalent	Analytical Method: EPA 7196							
Chromium, Hexavalent	ND	mg/L	0.010	1		07/26/12 10:41	18540-29-9	
7196 Chromium, Hexavalent Diss	Analytical Method: EPA 7196							
Chromium, Hexavalent,Dissolved	ND	mg/L	0.010	1		07/26/12 10:45	18540-29-9	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Sample: GM-17 **Lab ID: 60125852017** Collected: 07/25/12 15:38 Received: 07/26/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	**5.5**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:28	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:28	7440-50-8	
Nickel	**6.8**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:28	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:28	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 14:06	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 14:06	7440-50-8	
Nickel, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 14:06	7440-02-0	
Zinc, Dissolved	ND	ug/L	50.0	1	07/27/12 10:30	07/30/12 14:06	7440-66-6	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

QC Batch: MPRP/18896 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 60125852005, 60125852006, 60125852007, 60125852008, 60125852009, 60125852010, 60125852011, 60125852013, 60125852014

METHOD BLANK: 1036875 Matrix: Solid
Associated Lab Samples: 60125852005, 60125852006, 60125852007, 60125852008, 60125852009, 60125852010, 60125852011, 60125852013, 60125852014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	ND	0.50	08/03/12 16:12	
Copper	mg/kg	ND	1.0	08/03/12 16:12	
Nickel	mg/kg	ND	0.50	08/03/12 16:12	
Zinc	mg/kg	ND	10.0	08/03/12 16:12	

LABORATORY CONTROL SAMPLE: 1036876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	50	42.2	84	80-120	
Copper	mg/kg	50	42.2	84	80-120	
Nickel	mg/kg	50	42.5	85	80-120	
Zinc	mg/kg	50	43.6	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1036877 1036878

Parameter	Units	60125880001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/kg	8.4	544	553	443	461	80	82	75-125	4	20	
Copper	mg/kg	106	544	553	602	624	91	94	75-125	3	20	
Nickel	mg/kg	18.3	544	553	475	497	84	87	75-125	5	20	
Zinc	mg/kg	778	544	553	1250	1240	86	85	75-125	0	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

QC Batch: MPRP/18924 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 60125852001, 60125852002, 60125852003, 60125852004, 60125852012, 60125852015, 60125852016, 60125852017

METHOD BLANK: 1037888 | Matrix: Water
Associated Lab Samples: 60125852001, 60125852002, 60125852003, 60125852004, 60125852012, 60125852015, 60125852016, 60125852017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	ND	5.0	08/02/12 10:59	
Copper	ug/L	ND	10.0	08/02/12 10:59	
Nickel	ug/L	ND	5.0	08/02/12 10:59	
Zinc	ug/L	ND	50.0	08/02/12 10:59	

LABORATORY CONTROL SAMPLE: 1037889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	1000	1020	102	80-120	
Copper	ug/L	1000	982	98	80-120	
Nickel	ug/L	1000	1010	101	80-120	
Zinc	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037890 1037891

Parameter	Units	60126151001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	0.0091 mg/L	1000	1000	1030	1020	102	101	75-125	0	20	
Copper	ug/L	0.037 mg/L	1000	1000	1020	1020	98	98	75-125	0	20	
Nickel	ug/L	0.0072 mg/L	1000	1000	1010	1010	100	100	75-125	0	20	
Zinc	ug/L	0.057 mg/L	1000	1000	1080	1080	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

QC Batch: MPRP/18880 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60125852015, 60125852016, 60125852017

METHOD BLANK: 1035765 | Matrix: Water
Associated Lab Samples: 60125852015, 60125852016, 60125852017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Copper, Dissolved	ug/L	ND	10.0	07/30/12 13:05	
Nickel, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Zinc, Dissolved	ug/L	ND	50.0	07/30/12 13:05	

LABORATORY CONTROL SAMPLE: 1035766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	1000	986	99	80-120	
Copper, Dissolved	ug/L	1000	901	90	80-120	
Nickel, Dissolved	ug/L	1000	969	97	80-120	
Zinc, Dissolved	ug/L	1000	985	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035767 1035768

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Dissolved	ug/L	ND	1000	1000	996	984	100	98	75-125	1	20	
Copper, Dissolved	ug/L	ND	1000	1000	923	909	92	91	75-125	2	20	
Nickel, Dissolved	ug/L	ND	1000	1000	983	974	98	97	75-125	1	20	
Zinc, Dissolved	ug/L	ND	1000	1000	1000	992	100	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

QC Batch: OEXT/34200 | Analysis Method: EPA 8082
QC Batch Method: EPA 3510 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 60125852012

METHOD BLANK: 1036831 | Matrix: Water
Associated Lab Samples: 60125852012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.50	08/09/12 23:33	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.50	08/09/12 23:33	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.50	08/09/12 23:33	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.50	08/09/12 23:33	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.50	08/09/12 23:33	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.50	08/09/12 23:33	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.50	08/09/12 23:33	
Decachlorobiphenyl (S)	%	77	17-122	08/09/12 23:33	CH
Tetrachloro-m-xylene (S)	%	82	36-115	08/09/12 23:33	

LABORATORY CONTROL SAMPLE: 1036832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	2.4	49	38-130	
PCB-1260 (Aroclor 1260)	ug/L	5	2.4	48	39-131	
Decachlorobiphenyl (S)	%			76	17-122	CH
Tetrachloro-m-xylene (S)	%			82	36-115	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

QC Batch: PMST/7554 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60125852005, 60125852006

METHOD BLANK: 1040494 | Matrix: Solid
Associated Lab Samples: 60125852005, 60125852006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/06/12 00:00	

SAMPLE DUPLICATE: 1040495

Parameter	Units	60125851002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.0	23.9	13	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

QC Batch: PMST/7558 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60125852007, 60125852008, 60125852009, 60125852010, 60125852011, 60125852013, 60125852014

METHOD BLANK: 1040976 Matrix: Solid
Associated Lab Samples: 60125852007, 60125852008, 60125852009, 60125852010, 60125852011, 60125852013, 60125852014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/07/12 00:00	

SAMPLE DUPLICATE: 1040977

Parameter	Units	60125852007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	42.7	43.2	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

QC Batch: WETA/21027 | Analysis Method: EPA 7196
QC Batch Method: EPA 7196 | Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 60125852016

METHOD BLANK: 1035099 | Matrix: Water
Associated Lab Samples: 60125852016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	ND	0.010	07/26/12 10:37	

LABORATORY CONTROL SAMPLE: 1035100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.1	0.10	105	90-110	

MATRIX SPIKE SAMPLE: 1035102

Parameter	Units	60125853004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	ND	.1	0.11	107	85-115	

SAMPLE DUPLICATE: 1035101

Parameter	Units	60125853006 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/L	ND	ND		20	H1

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

QC Batch: WETA/21028 | Analysis Method: EPA 7196
QC Batch Method: EPA 7196 | Analysis Description: 7196 Chromium, Hexavalent Diss
Associated Lab Samples: 60125852016

METHOD BLANK: 1035103 | Matrix: Water
Associated Lab Samples: 60125852016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	ND	0.010	07/26/12 10:44	

LABORATORY CONTROL SAMPLE: 1035104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	.1	0.090	90	90-110	

MATRIX SPIKE SAMPLE: 1035105

Parameter	Units	60125852016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	ND	.1	0.10	102	85-115	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

QC Batch: WETA/21068 Analysis Method: EPA 9012A
QC Batch Method: EPA 9012A Analysis Description: 9012 Cyanide
Associated Lab Samples: 60125852009, 60125852010, 60125852011, 60125852013, 60125852014

METHOD BLANK: 1036816 Matrix: Solid
Associated Lab Samples: 60125852009, 60125852010, 60125852011, 60125852013, 60125852014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/kg	ND	0.15	07/30/12 19:30	

LABORATORY CONTROL SAMPLE: 1036817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/kg	3	3.2	106	81-117	

SAMPLE DUPLICATE: 1036819

Parameter	Units	60125766017 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/kg	0.33	.19J		20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

QC Batch: WETA/21067 | Analysis Method: EPA 9012A
QC Batch Method: EPA 9012A | Analysis Description: EPA 9012 Cyanide
Associated Lab Samples: 60125852012

METHOD BLANK: 1036810 | Matrix: Solid
Associated Lab Samples: 60125852012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	07/30/12 19:13	

LABORATORY CONTROL SAMPLE: 1036811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	105	81-117	

MATRIX SPIKE SAMPLE: 1036812

Parameter	Units	60125766018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.11	105	50-150	

SAMPLE DUPLICATE: 1036813

Parameter	Units	60125852012 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	.0029J		20	

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QUALIFIERS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/34200

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
H1	Analysis conducted outside the EPA method holding time.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KUHLMAN DIECASTING
Pace Project No.: 60125852

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125852012	**NPWB-SW**	EPA 3510	OEXT/34200	EPA 8082	GCSV/12868
60125852005	**BR-1-SED**	EPA 3050	MPRP/18896	EPA 6010	ICP/15743
60125852006	**BR-2-SED**	EPA 3050	MPRP/18896	EPA 6010	ICP/15743
60125852007	**BR-3-SED**	EPA 3050	MPRP/18896	EPA 6010	ICP/15743
60125852008	**BR-4-SED**	EPA 3050	MPRP/18896	EPA 6010	ICP/15743
60125852009	**EP-SED**	EPA 3050	MPRP/18896	EPA 6010	ICP/15743
60125852010	**NPWB-SED-S**	EPA 3050	MPRP/18896	EPA 6010	ICP/15743
60125852011	**NPWB-SED-N**	EPA 3050	MPRP/18896	EPA 6010	ICP/15743
60125852013	**SPWB-SED-N**	EPA 3050	MPRP/18896	EPA 6010	ICP/15743
60125852014	**SPWB-SED-S**	EPA 3050	MPRP/18896	EPA 6010	ICP/15743
60125852001	**BR-1-SW**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125852002	**BR-2-SW**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125852003	**BR-3-SW**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125852004	**BR-4-SW**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125852012	**NPWB-SW**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125852015	**GM-1**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125852016	**GM-2**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125852017	**GM-17**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125852015	**GM-1**	EPA 3010	MPRP/18880	EPA 6010	ICP/15715
60125852016	**GM-2**	EPA 3010	MPRP/18880	EPA 6010	ICP/15715
60125852017	**GM-17**	EPA 3010	MPRP/18880	EPA 6010	ICP/15715
60125852005	**BR-1-SED**	ASTM D2974	PMST/7554		
60125852006	**BR-2-SED**	ASTM D2974	PMST/7554		
60125852007	**BR-3-SED**	ASTM D2974	PMST/7558		
60125852008	**BR-4-SED**	ASTM D2974	PMST/7558		
60125852009	**EP-SED**	ASTM D2974	PMST/7558		
60125852010	**NPWB-SED-S**	ASTM D2974	PMST/7558		
60125852011	**NPWB-SED-N**	ASTM D2974	PMST/7558		
60125852013	**SPWB-SED-N**	ASTM D2974	PMST/7558		
60125852014	**SPWB-SED-S**	ASTM D2974	PMST/7558		
60125852012	**NPWB-SW**	EPA 9012A	WETA/21067	EPA 9012A	WET/36289
60125852016	**GM-2**	EPA 7196	WETA/21027		
60125852016	**GM-2**	EPA 7196	WETA/21028		
60125852009	**EP-SED**	EPA 9012A	WETA/21068	EPA 9012A	WETA/21069
60125852010	**NPWB-SED-S**	EPA 9012A	WETA/21068	EPA 9012A	WETA/21069
60125852011	**NPWB-SED-N**	EPA 9012A	WETA/21068	EPA 9012A	WETA/21069
60125852013	**SPWB-SED-N**	EPA 9012A	WETA/21068	EPA 9012A	WETA/21069
60125852014	**SPWB-SED-S**	EPA 9012A	WETA/21068	EPA 9012A	WETA/21069

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information

Company	Seagull Environmentals Technologies
Address	415 Oak St
	Kansas City, MO 64106
Email To:	jpritchard@seagullenvirotech.com
Phone	913-220-5887
Fax	
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Jeff Pirtchard
Copy To:	
Purchase Order No.:	
Project Name:	Kuhlman Diecasting
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference	
Pace Project Manager	MJW
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: KS

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED 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)	8260	OA1	OA2	PPL metals - 6010/7470	6010 -Cr,Cu,Ni,Zn	PCBs	PAH SIM	Cyanide-total 9012				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60125852
1	BR-1-SW	WT	G	7/24	1130	7/24	1130		2			2											X	1 2 B	P3N		1 BP3N		1.5		001
2	BR-2-SW	WT	G	7/24	1150	7/24	1150		2			2											X		426						002
3	BR-3-SW	WT	G	7/24	1220	7/24	1220		2			2											X								003
4	BR-4-SW	WT	G	7/24	1250	7/24	1250		2			2											X								004
5	BR-1-SED	SL	C	7/24	1130	7/24	1130		1	1													X	1 W	G	FU					005
6	BR-2-SED	SL	C	7/24	1150	7/24	1150		1	1													X	1							006
7	BR-3-SED	SL	C	7/24	1220	7/24	1220		1	1													X								007
8	BR-4-SED	SL	C	7/24	1250	7/24	1250		1	1													X								008
9	EP-SED	SL	C	7/25	0955	7/25	0955		2	2													X			X	2 W	G	FU		009
10	NPWB-SED-S	SL	C	7/24	1450	7/24	1450		2	2													X			X	1				010
11	NPWB-SED-N	SL	C	7/24	1440	7/24	1440		2	2													X			X				13.0 2.0 1.5	011
12	NPWB-SW	WT	G	7/24	1430	7/24	1430		5	2		2		1									X	X		X	2 AG	1U	1 BP3C, 1 BP3N, 1 BP3F		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	7/26	0825	[signature]	7/26	0825	1.2	Y	N	Y
All metals Total & dissolved per Joel Harvester. mw 7/26/12										

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):

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

*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.

F-ALL-Q-020rev.08, 12-Oct-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Company	Seagull Environmentals Technologies
Address	415 Oak St
	Kansas City, MO 64106
Email To	jpritchard@seagullenvirotech.com
Phone: 913-220-5887	Fax:
Requested Due Date/TAT:	standard

Section B Required Project Information

Report To	Jeff Pirtchard
Copy To	
Purchase Order No	
Project Name	Kuhlman Diecasting
Project Number	

Section C Invoice Information

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJW
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: KS

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED 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): 8260	OA1	OA2	PPL metals - 6010/7470	6010 -Cr,Cu,Ni,Zn	PCBs	PAH SIM	Cyanide-total 9012		Hexavalent Chromium			Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SPWB-SED-N	SL	C	7/24	1050	7/24	1050		2	2											~~X~~	X			X			2WGF			013
2	SPWB-SED-S	SL	C	7/24	1105	7/24	1105		2	2											~~X~~	X			X			↓		1.5	1.5 Ow 7/24 014
3	GM-1	WT	G	7/25	1338	7/25	1338		2			2										X						1BP3F		,1BP3N, ~~2BP3U~~	015
4	GM-2	WT	G	7/25	1440	7/25	1440		4	2		2										X					X	↓		↓ 2(BP3U)	016
5	GM-17	WT	G	7/25	1538	7/25	1538		2			2										X						↓			017
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	7/26	0825	[signature]	7/26	0825	1.2	Y	N	Y
Total & Diss Cr+6 on GM-2 per J. Hrovrestu -mw 7/26/12										

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

*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.

F-ALL-Q-020rev.08, 12-Oct-2007

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Sample Condition Upon Receipt

Client Name: Seagull Environmentals Project # 60125852

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☑ Other 7/26

Tracking #: _____ Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Optional
Proj. Due Date: 8/9
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Foam ☐ None ☑ Other ZPLC

Thermometer Used: T-191 / T-194 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.2

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 7/26

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☑ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☑ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☑ Yes ☐ No ☐ N/A	6. Cr^{+6} (one filtered, one not filtered)
Rush Turn Around Time requested:	☐ Yes ☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
Containers intact:	☑ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☑ N/A	11.
Filtered volume received for dissolved tests	☑ Yes ☐ No ☐ N/A	12.
Sample labels match COC:	☑ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: WT, SL		
All containers needing preservation have been checked.	☑ Yes ☐ No ☐ N/A	14. Sample NPWB-SW (BP3N) was at pH of 7.0, 2.5 ml of HNO_3 added, now at 2.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☑ Yes ☐ No ☐ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐ Yes ☑ No	Initial when completed: ff Lot # of added preservative: 12624
Trip Blank present:	☐ Yes ☑ No ☐ N/A	15.
Pace Trip Blank lot # (if purchased): _____		
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☑ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☑ No ☐ N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

-Total & Dissolved metals per Joel Hennester. mw 7/26/12

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)

F-KS-C-003-Rev 05, 19February2010

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 13, 2012

Jeff Pritchard
Seagull Environmental Technologies
415 Oak St.
Kansas City, MO 64106

RE: Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Dear Jeff Pritchard:
Enclosed are the analytical results for sample(s) received by the laboratory on July 25, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Mary Jane Walls

maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60125766001	**SB-19-6-8**	Solid	07/20/12 09:38	07/25/12 08:30
60125766002	**SB-11 GW**	Water	07/19/12 11:50	07/25/12 08:30
60125766003	**SB-17 GW**	Water	07/20/12 08:11	07/25/12 08:30
60125766004	**SS-1**	Solid	07/24/12 09:12	07/25/12 08:30
60125766005	**SS-2**	Solid	07/24/12 09:13	07/25/12 08:30
60125766006	**SS-3**	Solid	07/24/12 09:15	07/25/12 08:30
60125766007	**SS-4**	Solid	07/24/12 09:18	07/25/12 08:30
60125766008	**SS-5**	Solid	07/24/12 09:19	07/25/12 08:30
60125766009	**SS-6**	Solid	07/24/12 09:21	07/25/12 08:30
60125766010	**SS-7**	Solid	07/24/12 09:22	07/25/12 08:30
60125766011	**SS-8**	Solid	07/24/12 09:25	07/25/12 08:30
60125766012	**SS-9**	Solid	07/24/12 09:27	07/25/12 08:30
60125766013	**SS-10**	Solid	07/24/12 09:28	07/25/12 08:30
60125766014	**SS-11**	Solid	07/24/12 09:30	07/25/12 08:30
60125766015	**SS-12**	Solid	07/24/12 09:32	07/25/12 08:30
60125766016	**WWEL-N-SED**	Solid	07/24/12 15:22	07/25/12 08:30
60125766017	**WWEL-S-SED**	Solid	07/24/12 15:40	07/25/12 08:30
60125766018	**WWEL-S-SW**	Water	07/24/12 15:34	07/25/12 08:30

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SAMPLE ANALYTE COUNT

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60125766001	**SB-19-6-8**	OA2	NAW	9	PASI-K
		EPA 6010	JGP	12	PASI-K
		EPA 7471	TJT	1	PASI-K
		EPA 8270 by SIM	BRM	19	PASI-K
		OA1	RAB	1	PASI-K
		EPA 8260	RAB	69	PASI-K
		ASTM D2974	DWC	1	PASI-K
60125766002	**SB-11 GW**	OA2	NAW	9	PASI-K
		EPA 6010	SMW	12	PASI-K
		EPA 6010	SMW	12	PASI-K
		EPA 7470	TJT	1	PASI-K
		EPA 7470	TJT	1	PASI-K
		EPA 8270C by SIM	BRM	19	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		EPA 8260/OA1	PRG	5	PASI-K
60125766003	**SB-17 GW**	OA2	NAW	9	PASI-K
		EPA 6010	SMW	12	PASI-K
		EPA 6010	SMW	12	PASI-K
		EPA 7470	TJT	1	PASI-K
		EPA 7470	TJT	1	PASI-K
		EPA 8270C by SIM	BRM	19	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		EPA 8260/OA1	PRG	5	PASI-K
60125766004	**SS-1**	EPA 6010	JGP, SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
60125766005	**SS-2**	EPA 6010	JGP, SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
60125766006	**SS-3**	EPA 6010	JGP	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
60125766007	**SS-4**	EPA 6010	JGP, SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
60125766008	**SS-5**	EPA 6010	JGP, SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7196A	TPD	1	PASI-I
60125766009	**SS-6**	EPA 6010	JGP	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
60125766010	**SS-7**	EPA 6010	JGP, SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
60125766011	**SS-8**	EPA 6010	JGP, SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
60125766012	**SS-9**	EPA 6010	JGP, SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
60125766013	**SS-10**	EPA 6010	JGP, SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
60125766014	**SS-11**	EPA 6010	JGP, SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
60125766015	**SS-12**	EPA 6010	JGP, SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
60125766016	**WWEL-N-SED**	EPA 8082	NAW	9	PASI-K
		EPA 6010	JGP	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
		EPA 9012A	AJM	1	PASI-K
60125766017	**WWEL-S-SED**	EPA 8082	NAW	9	PASI-K
		EPA 6010	JGP, SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
		EPA 9012A	AJM	1	PASI-K
60125766018	**WWEL-S-SW**	EPA 8082	NAW	9	PASI-K
		EPA 6010	SMW	4	PASI-K
		EPA 9012A	AJM	1	PASI-K
		EPA 7196	NDL	1	PASI-K
		EPA 7196	NDL	1	PASI-K

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SB-19-6-8 **Lab ID: 60125766001** Collected: 07/20/12 09:38 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:32	68334-30-5	
Fuel Oil	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:32	68553-00-4	
Jet Fuel	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:32	94114-58-6	
Kerosene	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:32	8008-20-6	
Mineral Spirits	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:32	8030-30-6	
Motor Oil	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:32	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	24.9	1	07/27/12 00:00	07/31/12 00:32		
Surrogates								
n-Tetracosane (S)	108	%	50-137	1	07/27/12 00:00	07/31/12 00:32	646-31-1	
p-Terphenyl (S)	92	%	41-129	1	07/27/12 00:00	07/31/12 00:32	92-94-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	2.1	2	07/26/12 17:00	08/01/12 15:08	7440-36-0	M1
Arsenic	**5.8**	mg/kg	2.1	2	07/26/12 17:00	08/01/12 15:08	7440-38-2	
Beryllium	**0.83**	mg/kg	0.21	2	07/26/12 17:00	08/01/12 15:08	7440-41-7	
Cadmium	ND	mg/kg	1.0	2	07/26/12 17:00	08/01/12 15:08	7440-43-9	D3
Chromium	**20.2**	mg/kg	1.0	2	07/26/12 17:00	08/01/12 15:08	7440-47-3	
Copper	**14.7**	mg/kg	2.1	2	07/26/12 17:00	08/01/12 15:08	7440-50-8	
Lead	**11.3**	mg/kg	1.0	2	07/26/12 17:00	08/01/12 15:08	7439-92-1	
Nickel	**19.0**	mg/kg	1.0	2	07/26/12 17:00	08/01/12 15:08	7440-02-0	
Selenium	ND	mg/kg	3.1	2	07/26/12 17:00	08/01/12 15:08	7782-49-2	
Silver	ND	mg/kg	1.4	2	07/26/12 17:00	08/01/12 15:08	7440-22-4	
Thallium	ND	mg/kg	4.1	2	07/26/12 17:00	08/01/12 15:08	7440-28-0	
Zinc	**58.9**	mg/kg	20.6	2	07/26/12 17:00	08/01/12 15:08	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.017	1	08/04/12 09:00	08/04/12 13:10	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	83-32-9	
Acenaphthylene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	208-96-8	
Anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	120-12-7	
Benzo(a)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	56-55-3	
Benzo(a)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	207-08-9	
Chrysene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	53-70-3	
Fluoranthene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	206-44-0	
Fluorene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	193-39-5	
Naphthalene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	91-20-3	
Phenanthrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	85-01-8	
Pyrene	ND	ug/kg	4.2	1	07/26/12 00:00	07/27/12 15:29	129-00-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SB-19-6-8 **Lab ID: 60125766001** Collected: 07/20/12 09:38 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
Nitrobenzene-d5 (S)	88	%	35-121	1	07/26/12 00:00	07/27/12 15:29	4165-60-0	
2-Fluorobiphenyl (S)	92	%	41-120	1	07/26/12 00:00	07/27/12 15:29	321-60-8	
Terphenyl-d14 (S)	82	%	39-123	1	07/26/12 00:00	07/27/12 15:29	1718-51-0	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	ND	mg/kg	1.2	1		07/30/12 19:52		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	23.1	1		07/30/12 19:52	67-64-1	
Benzene	ND	ug/kg	5.8	1		07/30/12 19:52	71-43-2	
Bromobenzene	ND	ug/kg	5.8	1		07/30/12 19:52	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1		07/30/12 19:52	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1		07/30/12 19:52	75-27-4	
Bromoform	ND	ug/kg	5.8	1		07/30/12 19:52	75-25-2	
Bromomethane	ND	ug/kg	5.8	1		07/30/12 19:52	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.6	1		07/30/12 19:52	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	1		07/30/12 19:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1		07/30/12 19:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1		07/30/12 19:52	98-06-6	
Carbon disulfide	ND	ug/kg	5.8	1		07/30/12 19:52	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.8	1		07/30/12 19:52	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		07/30/12 19:52	108-90-7	
Chloroethane	ND	ug/kg	5.8	1		07/30/12 19:52	75-00-3	
Chloroform	ND	ug/kg	5.8	1		07/30/12 19:52	67-66-3	
Chloromethane	ND	ug/kg	5.8	1		07/30/12 19:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1		07/30/12 19:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1		07/30/12 19:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	11.6	1		07/30/12 19:52	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1		07/30/12 19:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		07/30/12 19:52	106-93-4	
Dibromomethane	ND	ug/kg	5.8	1		07/30/12 19:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		07/30/12 19:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		07/30/12 19:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		07/30/12 19:52	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.8	1		07/30/12 19:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		07/30/12 19:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		07/30/12 19:52	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.8	1		07/30/12 19:52	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.8	1		07/30/12 19:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		07/30/12 19:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		07/30/12 19:52	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		07/30/12 19:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1		07/30/12 19:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1		07/30/12 19:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1		07/30/12 19:52	563-58-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SB-19-6-8 **Lab ID: 60125766001** Collected: 07/20/12 09:38 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		07/30/12 19:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		07/30/12 19:52	10061-02-6	
Ethylbenzene	ND	ug/kg	5.8	1		07/30/12 19:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		07/30/12 19:52	87-68-3	
2-Hexanone	ND	ug/kg	23.1	1		07/30/12 19:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		07/30/12 19:52	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.8	1		07/30/12 19:52	99-87-6	
Methylene chloride	ND	ug/kg	5.8	1		07/30/12 19:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.6	1		07/30/12 19:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		07/30/12 19:52	1634-04-4	
Naphthalene	ND	ug/kg	11.6	1		07/30/12 19:52	91-20-3	
n-Propylbenzene	ND	ug/kg	5.8	1		07/30/12 19:52	103-65-1	
Styrene	ND	ug/kg	5.8	1		07/30/12 19:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		07/30/12 19:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		07/30/12 19:52	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		07/30/12 19:52	127-18-4	
Toluene	ND	ug/kg	5.8	1		07/30/12 19:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		07/30/12 19:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		07/30/12 19:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		07/30/12 19:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		07/30/12 19:52	79-00-5	
Trichloroethene	ND	ug/kg	5.8	1		07/30/12 19:52	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		07/30/12 19:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		07/30/12 19:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		07/30/12 19:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		07/30/12 19:52	108-67-8	
Vinyl chloride	ND	ug/kg	5.8	1		07/30/12 19:52	75-01-4	
Xylene (Total)	ND	ug/kg	5.8	1		07/30/12 19:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	78-122	1		07/30/12 19:52	1868-53-7	
Toluene-d8 (S)	100	%	80-123	1		07/30/12 19:52	2037-26-5	
4-Bromofluorobenzene (S)	103	%	78-125	1		07/30/12 19:52	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	73-135	1		07/30/12 19:52	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**21.8**	%	0.50	1		08/03/12 00:00		

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SB-11 GW **Lab ID: 60125766002** Collected: 07/19/12 11:50 Received: 07/25/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:44	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:44	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:44	94114-58-6	
Kerosene	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:44	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:44	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:44	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:44		
Surrogates								
p-Terphenyl (S)	95	%	20-122	1	07/26/12 00:00	08/02/12 11:44	92-94-4	
n-Tetracosane (S)	87	%	30-122	1	07/26/12 00:00	08/02/12 11:44	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:16	7440-36-0	
Arsenic	**12.2**	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:16	7440-38-2	
Beryllium	ND	ug/L	1.0	1	07/27/12 14:15	07/31/12 14:16	7440-41-7	
Cadmium	**22.5**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:16	7440-43-9	
Chromium	**307**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:16	7440-47-3	
Copper	**372**	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:16	7440-50-8	
Lead	**44.4**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:16	7439-92-1	
Nickel	**300**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:16	7440-02-0	
Selenium	ND	ug/L	15.0	1	07/27/12 14:15	07/31/12 14:16	7782-49-2	
Silver	ND	ug/L	7.0	1	07/27/12 14:15	07/31/12 14:16	7440-22-4	
Thallium	ND	ug/L	20.0	1	07/27/12 14:15	07/31/12 14:16	7440-28-0	
Zinc	**1000**	ug/L	50.0	1	07/27/12 14:15	07/31/12 14:16	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:49	7440-36-0	
Arsenic, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:49	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	07/27/12 10:30	07/30/12 13:49	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:49	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:49	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:49	7440-50-8	
Lead, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:49	7439-92-1	
Nickel, Dissolved	**22.4**	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:49	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	07/27/12 10:30	07/30/12 13:49	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	07/27/12 10:30	07/30/12 13:49	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	07/27/12 10:30	07/30/12 13:49	7440-28-0	
Zinc, Dissolved	**50.3**	ug/L	50.0	1	07/27/12 10:30	07/30/12 13:49	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.60**	ug/L	0.20	1	07/31/12 18:30	08/02/12 11:55	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	08/01/12 06:30	08/03/12 11:45	7439-97-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SB-11 GW **Lab ID: 60125766002** Collected: 07/19/12 11:50 Received: 07/25/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/26/12 00:00	08/06/12 21:03	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/26/12 00:00	08/06/12 21:03	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:03	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	68	%	42-120	1	07/26/12 00:00	08/06/12 21:03	4165-60-0	
2-Fluorobiphenyl (S)	68	%	44-120	1	07/26/12 00:00	08/06/12 21:03	321-60-8	
Terphenyl-d14 (S)	73	%	46-131	1	07/26/12 00:00	08/06/12 21:03	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		07/30/12 14:04	67-64-1	
Benzene	ND	ug/L	1.0	1		07/30/12 14:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/30/12 14:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/30/12 14:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/30/12 14:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/30/12 14:04	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/30/12 14:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/30/12 14:04	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/30/12 14:04	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/30/12 14:04	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/30/12 14:04	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		07/30/12 14:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/30/12 14:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/30/12 14:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/30/12 14:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/30/12 14:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/30/12 14:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/30/12 14:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/30/12 14:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		07/30/12 14:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/30/12 14:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/30/12 14:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/30/12 14:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/30/12 14:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/30/12 14:04	541-73-1	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SB-11 GW **Lab ID: 60125766002** Collected: 07/19/12 11:50 Received: 07/25/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/30/12 14:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/30/12 14:04	75-71-8	
1,1-Dichloroethane	**4.0**	ug/L	1.0	1		07/30/12 14:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/30/12 14:04	107-06-2	
1,2-Dichloroethene (Total)	**299**	ug/L	5.0	5		07/31/12 15:34	540-59-0	
1,1-Dichloroethene	**3.4**	ug/L	1.0	1		07/30/12 14:04	75-35-4	
cis-1,2-Dichloroethene	**294**	ug/L	5.0	5		07/31/12 15:34	156-59-2	
trans-1,2-Dichloroethene	**4.8**	ug/L	1.0	1		07/30/12 14:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/30/12 14:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/30/12 14:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/30/12 14:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/30/12 14:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/30/12 14:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/30/12 14:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/30/12 14:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/30/12 14:04	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		07/30/12 14:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/30/12 14:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/30/12 14:04	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		07/30/12 14:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/30/12 14:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/30/12 14:04	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/30/12 14:04	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/30/12 14:04	103-65-1	
Styrene	ND	ug/L	1.0	1		07/30/12 14:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/30/12 14:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/30/12 14:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/30/12 14:04	127-18-4	
Toluene	ND	ug/L	1.0	1		07/30/12 14:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/30/12 14:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/30/12 14:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/30/12 14:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/30/12 14:04	79-00-5	
Trichloroethene	**384**	ug/L	5.0	5		07/31/12 15:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/30/12 14:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		07/30/12 14:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/30/12 14:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/30/12 14:04	108-67-8	
Vinyl chloride	**1.4**	ug/L	1.0	1		07/30/12 14:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/30/12 14:04	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1		07/30/12 14:04	460-00-4	
Dibromofluoromethane (S)	93	%	80-120	1		07/30/12 14:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		07/30/12 14:04	17060-07-0	
Toluene-d8 (S)	102	%	80-120	1		07/30/12 14:04	2037-26-5	
Preservation pH	**1.0**		0.10	1		07/30/12 14:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SB-11 GW **Lab ID: 60125766002** Collected: 07/19/12 11:50 Received: 07/25/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**0.64**	mg/L	0.50	1		07/30/12 14:04		
Surrogates								
Dibromofluoromethane (S)	93	%	80-120	1		07/30/12 14:04	1868-53-7	
Toluene-d8 (S)	102	%	80-120	1		07/30/12 14:04	2037-26-5	
4-Bromofluorobenzene (S)	103	%	80-120	1		07/30/12 14:04	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		07/30/12 14:04	17060-07-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SB-17 GW **Lab ID: 60125766003** Collected: 07/20/12 08:11 Received: 07/25/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:54	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:54	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:54	94114-58-6	
Kerosene	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:54	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:54	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:54	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/L	0.40	1	07/26/12 00:00	08/02/12 11:54		
Surrogates								
p-Terphenyl (S)	86	%	20-122	1	07/26/12 00:00	08/02/12 11:54	92-94-4	
n-Tetracosane (S)	77	%	30-122	1	07/26/12 00:00	08/02/12 11:54	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:20	7440-36-0	
Arsenic	**30.6**	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:20	7440-38-2	
Beryllium	**2.2**	ug/L	1.0	1	07/27/12 14:15	07/31/12 14:20	7440-41-7	
Cadmium	**35.1**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:20	7440-43-9	
Chromium	**55.7**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:20	7440-47-3	
Copper	**186**	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:20	7440-50-8	
Lead	**72.1**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:20	7439-92-1	
Nickel	**151**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:20	7440-02-0	
Selenium	ND	ug/L	15.0	1	07/27/12 14:15	07/31/12 14:20	7782-49-2	
Silver	ND	ug/L	7.0	1	07/27/12 14:15	07/31/12 14:20	7440-22-4	
Thallium	ND	ug/L	20.0	1	07/27/12 14:15	07/31/12 14:20	7440-28-0	
Zinc	**1540**	ug/L	50.0	1	07/27/12 14:15	07/31/12 14:20	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:52	7440-36-0	
Arsenic, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:52	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	07/27/12 10:30	07/30/12 13:52	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:52	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:52	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	07/27/12 10:30	07/30/12 13:52	7440-50-8	
Lead, Dissolved	**5.0**	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:52	7439-92-1	
Nickel, Dissolved	**35.2**	ug/L	5.0	1	07/27/12 10:30	07/30/12 13:52	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	07/27/12 10:30	07/30/12 13:52	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	07/27/12 10:30	07/30/12 13:52	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	07/27/12 10:30	07/30/12 13:52	7440-28-0	
Zinc, Dissolved	**113**	ug/L	50.0	1	07/27/12 10:30	07/30/12 13:52	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.35**	ug/L	0.20	1	07/31/12 18:30	08/02/12 11:57	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	08/01/12 06:30	08/03/12 11:47	7439-97-6	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SB-17 GW **Lab ID: 60125766003** Collected: 07/20/12 08:11 Received: 07/25/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	206-44-0	
Fluorene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	193-39-5	
Naphthalene	ND	ug/L	0.50	1	07/26/12 00:00	08/06/12 21:20	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	07/26/12 00:00	08/06/12 21:20	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/26/12 00:00	08/06/12 21:20	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	85	%	42-120	1	07/26/12 00:00	08/06/12 21:20	4165-60-0	
2-Fluorobiphenyl (S)	84	%	44-120	1	07/26/12 00:00	08/06/12 21:20	321-60-8	
Terphenyl-d14 (S)	92	%	46-131	1	07/26/12 00:00	08/06/12 21:20	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		07/30/12 14:20	67-64-1	
Benzene	ND	ug/L	1.0	1		07/30/12 14:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/30/12 14:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/30/12 14:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/30/12 14:20	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/30/12 14:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/30/12 14:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/30/12 14:20	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/30/12 14:20	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/30/12 14:20	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/30/12 14:20	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		07/30/12 14:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/30/12 14:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/30/12 14:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/30/12 14:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/30/12 14:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/30/12 14:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/30/12 14:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/30/12 14:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		07/30/12 14:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/30/12 14:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/30/12 14:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/30/12 14:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/30/12 14:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/30/12 14:20	541-73-1	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SB-17 GW **Lab ID: 60125766003** Collected: 07/20/12 08:11 Received: 07/25/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/30/12 14:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/30/12 14:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/30/12 14:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/30/12 14:20	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		07/31/12 15:50	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/30/12 14:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/31/12 15:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/30/12 14:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/30/12 14:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/30/12 14:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/30/12 14:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/30/12 14:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/30/12 14:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/30/12 14:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/30/12 14:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/30/12 14:20	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		07/30/12 14:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/30/12 14:20	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/30/12 14:20	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		07/30/12 14:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/30/12 14:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/30/12 14:20	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		07/30/12 14:20	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/30/12 14:20	103-65-1	
Styrene	ND	ug/L	1.0	1		07/30/12 14:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/30/12 14:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/30/12 14:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/30/12 14:20	127-18-4	
Toluene	ND	ug/L	1.0	1		07/30/12 14:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/30/12 14:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/30/12 14:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/30/12 14:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/30/12 14:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/31/12 15:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/30/12 14:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		07/30/12 14:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/30/12 14:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/30/12 14:20	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		07/30/12 14:20	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/30/12 14:20	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		07/30/12 14:20	460-00-4	
Dibromofluoromethane (S)	95	%	80-120	1		07/30/12 14:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	80-120	1		07/30/12 14:20	17060-07-0	
Toluene-d8 (S)	102	%	80-120	1		07/30/12 14:20	2037-26-5	
Preservation pH	**1.0**		0.10	1		07/30/12 14:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SB-17 GW **Lab ID: 60125766003** Collected: 07/20/12 08:11 Received: 07/25/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		07/30/12 14:20		
Surrogates								
Dibromofluoromethane (S)	95	%	80-120	1		07/30/12 14:20	1868-53-7	
Toluene-d8 (S)	102	%	80-120	1		07/30/12 14:20	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120	1		07/30/12 14:20	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	80-120	1		07/30/12 14:20	17060-07-0	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SS-1 **Lab ID: 60125766004** Collected: 07/24/12 09:12 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**44.7**	mg/kg	0.88	2	07/26/12 17:00	08/01/12 15:14	7440-47-3	
Copper	**105**	mg/kg	1.8	2	07/26/12 17:00	08/01/12 15:14	7440-50-8	
Nickel	**105**	mg/kg	0.44	1	07/26/12 17:00	07/31/12 16:32	7440-02-0	
Zinc	**220**	mg/kg	8.8	1	07/26/12 17:00	07/31/12 16:32	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**2.3**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	4.1	2	07/31/12 13:42	08/01/12 12:14	18540-29-9	D3

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SS-2 **Lab ID: 60125766005** Collected: 07/24/12 09:13 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**144**	mg/kg	0.92	2	07/26/12 17:00	08/01/12 15:20	7440-47-3	
Copper	**103**	mg/kg	1.8	2	07/26/12 17:00	08/01/12 15:20	7440-50-8	
Nickel	**139**	mg/kg	0.46	1	07/26/12 17:00	07/31/12 16:35	7440-02-0	
Zinc	**301**	mg/kg	9.2	1	07/26/12 17:00	07/31/12 16:35	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**3.5**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	4.1	2	07/31/12 13:42	08/01/12 12:14	18540-29-9	D3

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SS-3 **Lab ID: 60125766006** Collected: 07/24/12 09:15 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**31.3**	mg/kg	1.3	3	07/26/12 17:00	08/01/12 15:22	7440-47-3	
Copper	**26.1**	mg/kg	2.6	3	07/26/12 17:00	08/01/12 15:22	7440-50-8	
Nickel	**43.7**	mg/kg	1.3	3	07/26/12 17:00	08/01/12 15:22	7440-02-0	
Zinc	**67.4**	mg/kg	26.3	3	07/26/12 17:00	08/01/12 15:22	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**4.9**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	4.2	2	07/31/12 13:42	08/01/12 12:14	18540-29-9	D3

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SS-4 **Lab ID: 60125766007** Collected: 07/24/12 09:18 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**177**	mg/kg	0.94	2	07/26/12 17:00	08/01/12 15:24	7440-47-3	
Copper	**109**	mg/kg	1.9	2	07/26/12 17:00	08/01/12 15:24	7440-50-8	
Nickel	**143**	mg/kg	0.47	1	07/26/12 17:00	07/31/12 16:42	7440-02-0	
Zinc	**1870**	mg/kg	9.4	1	07/26/12 17:00	07/31/12 16:42	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**3.9**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	4.2	2	07/31/12 13:42	08/01/12 12:14	18540-29-9	D3

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SS-5 **Lab ID: 60125766008** Collected: 07/24/12 09:19 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**153**	mg/kg	1.0	2	07/26/12 17:00	08/01/12 15:27	7440-47-3	
Copper	**118**	mg/kg	2.1	2	07/26/12 17:00	08/01/12 15:27	7440-50-8	
Nickel	**182**	mg/kg	0.52	1	07/26/12 17:00	07/31/12 16:46	7440-02-0	
Zinc	**1570**	mg/kg	10.5	1	07/26/12 17:00	07/31/12 16:46	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**4.5**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	10.5	5	07/31/12 13:42	08/01/12 12:14	18540-29-9	D3

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SS-6 **Lab ID: 60125766009** Collected: 07/24/12 09:21 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**27.7**	mg/kg	1.4	3	07/26/12 17:00	08/01/12 15:29	7440-47-3	
Copper	**23.9**	mg/kg	2.7	3	07/26/12 17:00	08/01/12 15:29	7440-50-8	
Nickel	**37.3**	mg/kg	1.4	3	07/26/12 17:00	08/01/12 15:29	7440-02-0	
Zinc	**96.6**	mg/kg	27.1	3	07/26/12 17:00	08/01/12 15:29	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**6.0**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	10.6	5	07/31/12 13:42	08/01/12 12:14	18540-29-9	D3

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SS-7 **Lab ID: 60125766010** Collected: 07/24/12 09:22 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**155**	mg/kg	4.5	10	07/26/12 17:00	08/01/12 15:31	7440-47-3	
Copper	**175**	mg/kg	0.90	1	07/26/12 17:00	07/31/12 17:00	7440-50-8	
Nickel	**279**	mg/kg	0.45	1	07/26/12 17:00	07/31/12 17:00	7440-02-0	
Zinc	**13900**	mg/kg	90.0	10	07/26/12 17:00	08/01/12 15:31	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**0.83**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	2.0	1	07/31/12 13:42	08/01/12 12:14	18540-29-9	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SS-8 **Lab ID: 60125766011** Collected: 07/24/12 09:25 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**18.5**	mg/kg	0.48	1	07/26/12 17:00	07/31/12 17:04	7440-47-3	
Copper	**35.7**	mg/kg	1.9	2	07/26/12 17:00	08/01/12 15:33	7440-50-8	
Nickel	**71.2**	mg/kg	0.48	1	07/26/12 17:00	07/31/12 17:04	7440-02-0	
Zinc	**1380**	mg/kg	9.5	1	07/26/12 17:00	07/31/12 17:04	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**0.70**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	2.0	1	07/31/12 13:42	08/01/12 12:14	18540-29-9	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SS-9 **Lab ID: 60125766012** Collected: 07/24/12 09:27 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**60.0**	mg/kg	0.98	2	07/26/12 17:00	08/01/12 15:35	7440-47-3	
Copper	**42.3**	mg/kg	2.0	2	07/26/12 17:00	08/01/12 15:35	7440-50-8	
Nickel	**36.4**	mg/kg	0.49	1	07/26/12 17:00	07/31/12 17:07	7440-02-0	
Zinc	**347**	mg/kg	9.8	1	07/26/12 17:00	07/31/12 17:07	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**5.1**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	10.5	5	07/31/12 13:42	08/01/12 12:14	18540-29-9	D3

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SS-10 **Lab ID: 60125766013** Collected: 07/24/12 09:28 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**17.3**	mg/kg	0.84	2	07/26/12 17:00	08/01/12 15:37	7440-47-3	
Copper	**36.1**	mg/kg	1.7	2	07/26/12 17:00	08/01/12 15:37	7440-50-8	
Nickel	**29.4**	mg/kg	0.42	1	07/26/12 17:00	07/31/12 17:11	7440-02-0	
Zinc	**686**	mg/kg	8.4	1	07/26/12 17:00	07/31/12 17:11	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**2.2**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	4.1	2	07/31/12 13:42	08/01/12 12:14	18540-29-9	D3

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SS-11 **Lab ID: 60125766014** Collected: 07/24/12 09:30 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**8.8**	mg/kg	0.47	1	07/26/12 17:00	07/31/12 17:14	7440-47-3	
Copper	**28.7**	mg/kg	4.7	5	07/26/12 17:00	08/01/12 15:39	7440-50-8	
Nickel	**87.6**	mg/kg	0.47	1	07/26/12 17:00	07/31/12 17:14	7440-02-0	
Zinc	**5480**	mg/kg	47.4	5	07/26/12 17:00	08/01/12 15:39	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	ND	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	2.0	1	07/31/12 13:42	08/01/12 12:14	18540-29-9	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: SS-12 **Lab ID: 60125766015** Collected: 07/24/12 09:32 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**21.7**	mg/kg	1.0	2	07/26/12 17:00	08/01/12 15:46	7440-47-3	
Copper	**29.4**	mg/kg	2.1	2	07/26/12 17:00	08/01/12 15:46	7440-50-8	
Nickel	**38.2**	mg/kg	0.52	1	07/26/12 17:00	07/31/12 17:18	7440-02-0	
Zinc	**1030**	mg/kg	10.4	1	07/26/12 17:00	07/31/12 17:18	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**7.9**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	10.9	5	07/31/12 13:42	08/01/12 12:14	18540-29-9	D3

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: WWEL-N-SED **Lab ID: 60125766016** Collected: 07/24/12 15:22 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	374	1	07/26/12 00:00	08/10/12 15:46	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	748	1	07/26/12 00:00	08/10/12 15:46	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	374	1	07/26/12 00:00	08/10/12 15:46	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	374	1	07/26/12 00:00	08/10/12 15:46	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	374	1	07/26/12 00:00	08/10/12 15:46	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	374	1	07/26/12 00:00	08/10/12 15:46	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	374	1	07/26/12 00:00	08/10/12 15:46	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	0	%	34-132	1	07/26/12 00:00	08/10/12 15:46	877-09-8	P3,S4
Decachlorobiphenyl (S)	0	%	36-131	1	07/26/12 00:00	08/10/12 15:46	2051-24-3	S4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**7030**	mg/kg	9.5	20	07/26/12 17:00	08/01/12 15:48	7440-47-3	
Copper	**5770**	mg/kg	19.0	20	07/26/12 17:00	08/01/12 15:48	7440-50-8	
Nickel	**14900**	mg/kg	9.5	20	07/26/12 17:00	08/01/12 15:48	7440-02-0	
Zinc	**8210**	mg/kg	190	20	07/26/12 17:00	08/01/12 15:48	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**12.4**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	11.4	5	07/31/12 13:42	08/01/12 12:14	18540-29-9	D3
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	**1.2**	mg/kg	0.18	1	07/30/12 07:35	07/30/12 19:31	57-12-5	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: WWEL-S-SED **Lab ID: 60125766017** Collected: 07/24/12 15:40 Received: 07/25/12 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	1310	1	07/26/12 00:00	08/10/12 16:24	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	2620	1	07/26/12 00:00	08/10/12 16:24	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1310	1	07/26/12 00:00	08/10/12 16:24	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1310	1	07/26/12 00:00	08/10/12 16:24	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1310	1	07/26/12 00:00	08/10/12 16:24	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1310	1	07/26/12 00:00	08/10/12 16:24	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	1310	1	07/26/12 00:00	08/10/12 16:24	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	0	%	34-132	1	07/26/12 00:00	08/10/12 16:24	877-09-8	P3,S4
Decachlorobiphenyl (S)	0	%	36-131	1	07/26/12 00:00	08/10/12 16:24	2051-24-3	S4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**571**	mg/kg	1.0	1	07/26/12 17:00	07/31/12 17:25	7440-47-3	
Copper	**687**	mg/kg	10.3	5	07/26/12 17:00	08/01/12 15:50	7440-50-8	
Nickel	**891**	mg/kg	1.0	1	07/26/12 17:00	07/31/12 17:25	7440-02-0	
Zinc	**288**	mg/kg	20.6	1	07/26/12 17:00	07/31/12 17:25	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**52.4**	%	0.50	1		08/03/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	8.4	2	07/31/12 13:42	08/01/12 12:14	18540-29-9	D3
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	**0.33**	mg/kg	0.33	1	07/30/12 07:35	07/30/12 18:18	57-12-5	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Sample: WWEL-S-SW **Lab ID: 60125766018** Collected: 07/24/12 15:34 Received: 07/25/12 08:30 Matrix: Water

Comments: • Dissolved hexavalent chromium analyzed outside of holding time since it was not noted on the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	ND	ug/L	1.0	1	07/26/12 00:00	08/07/12 12:38	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.0	1	07/26/12 00:00	08/07/12 12:38	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	1.0	1	07/26/12 00:00	08/07/12 12:38	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	1.0	1	07/26/12 00:00	08/07/12 12:38	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	1.0	1	07/26/12 00:00	08/07/12 12:38	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	1.0	1	07/26/12 00:00	08/07/12 12:38	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	1.0	1	07/26/12 00:00	08/07/12 12:38	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	78	%	36-115	1	07/26/12 00:00	08/07/12 12:38	877-09-8	
Decachlorobiphenyl (S)	49	%	17-122	1	07/26/12 00:00	08/07/12 12:38	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	**30.3**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:23	7440-47-3	
Copper	**112**	ug/L	10.0	1	07/27/12 14:15	07/31/12 14:23	7440-50-8	
Nickel	**307**	ug/L	5.0	1	07/27/12 14:15	07/31/12 14:23	7440-02-0	
Zinc	**120**	ug/L	50.0	1	07/27/12 14:15	07/31/12 14:23	7440-66-6	
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	ND	mg/L	0.0050	1	07/30/12 07:33	07/30/12 19:14	57-12-5	
7196 Chromium, Hexavalent	Analytical Method: EPA 7196							
Chromium, Hexavalent	**0.057**	mg/L	0.010	1		07/25/12 15:15	18540-29-9	1e
7196 Chromium, Hexavalent Diss	Analytical Method: EPA 7196							
Chromium, Hexavalent,Dissolved	ND	mg/L	0.010	1		07/27/12 09:19	18540-29-9	H1

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: MERP/6490 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 60125766002, 60125766003

METHOD BLANK: 1037728 Matrix: Water
Associated Lab Samples: 60125766002, 60125766003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	08/02/12 11:37	

LABORATORY CONTROL SAMPLE: 1037729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.4	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037730 1037731

Parameter	Units	60125738001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	6.1	6.2	120	122	75-125	2	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: MERP/6489 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 60125766002, 60125766003

METHOD BLANK: 1037724 | Matrix: Water
Associated Lab Samples: 60125766002, 60125766003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	08/03/12 11:06	

LABORATORY CONTROL SAMPLE: 1037725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037726 1037727

Parameter	Units	60125643004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	3.5	3.8	69	75	75-125	9	20	M1

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: MERP/6494 | Analysis Method: EPA 7471
QC Batch Method: EPA 7471 | Analysis Description: 7471 Mercury
Associated Lab Samples: 60125766001

METHOD BLANK: 1038143 | Matrix: Solid
Associated Lab Samples: 60125766001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.050	08/04/12 13:01	

LABORATORY CONTROL SAMPLE: 1038144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.54	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1038145 1038146

Parameter	Units	60125766001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.17	.17	0.17	0.18	98	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: MPRP/18868 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 60125766001, 60125766004, 60125766005, 60125766006, 60125766007, 60125766008, 60125766009, 60125766010, 60125766011, 60125766012, 60125766013, 60125766014, 60125766015, 60125766016, 60125766017

METHOD BLANK: 1035171 Matrix: Solid
Associated Lab Samples: 60125766001, 60125766004, 60125766005, 60125766006, 60125766007, 60125766008, 60125766009, 60125766010, 60125766011, 60125766012, 60125766013, 60125766014, 60125766015, 60125766016, 60125766017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	1.0	07/31/12 16:14	
Arsenic	mg/kg	ND	1.0	07/31/12 16:14	
Beryllium	mg/kg	ND	0.10	07/31/12 16:14	
Cadmium	mg/kg	ND	0.50	07/31/12 16:14	
Chromium	mg/kg	ND	0.50	07/31/12 16:14	
Copper	mg/kg	ND	1.0	08/01/12 15:06	
Lead	mg/kg	ND	0.50	07/31/12 16:14	
Nickel	mg/kg	ND	0.50	07/31/12 16:14	
Selenium	mg/kg	ND	1.5	07/31/12 16:14	
Silver	mg/kg	ND	0.70	07/31/12 16:14	
Thallium	mg/kg	ND	2.0	07/31/12 16:14	
Zinc	mg/kg	ND	10.0	07/31/12 16:14	

LABORATORY CONTROL SAMPLE: 1035172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	40.3	81	80-120	
Arsenic	mg/kg	50	40.4	81	80-120	
Beryllium	mg/kg	50	41.2	82	80-120	
Cadmium	mg/kg	50	42.0	84	80-120	
Chromium	mg/kg	50	41.1	82	80-120	
Copper	mg/kg	50	49.5	99	80-120	
Lead	mg/kg	50	39.9	80	80-120	
Nickel	mg/kg	50	41.8	84	80-120	
Selenium	mg/kg	50	44.2	88	80-120	
Silver	mg/kg	25	20.1	80	80-120	
Thallium	mg/kg	50	46.2	92	80-120	
Zinc	mg/kg	50	42.1	84	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035173 1035174

Parameter	Units	60125766001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/kg	ND	52.4	55.1	14.2	14.5	26	25	75-125	2	20	M1
Arsenic	mg/kg	5.8	52.4	55.1	53.3	54.8	91	89	75-125	3	20	
Beryllium	mg/kg	0.83	52.4	55.1	50.8	52.8	95	94	75-125	4	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035173 1035174

Parameter	Units	60125766001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/kg	ND	52.4	55.1	46.4	48.6	88	88	75-125	5	20	
Chromium	mg/kg	20.2	52.4	55.1	73.8	76.6	102	102	75-125	4	20	
Copper	mg/kg	14.7	52.4	55.1	67.9	70.9	101	102	75-125	4	20	
Lead	mg/kg	11.3	52.4	55.1	61.7	61.9	96	92	75-125	0	20	
Nickel	mg/kg	19.0	52.4	55.1	69.6	71.5	97	95	75-125	3	20	
Selenium	mg/kg	ND	52.4	55.1	44.6	47.2	85	86	75-125	6	20	
Silver	mg/kg	ND	26.2	27.6	25.1	26.1	95	94	75-125	4	20	
Thallium	mg/kg	ND	52.4	55.1	46.9	49.2	90	89	75-125	5	20	
Zinc	mg/kg	58.9	52.4	55.1	109	111	95	95	75-125	2	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: MPRP/18881 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60125766002, 60125766003, 60125766018

METHOD BLANK: 1035772 Matrix: Water
Associated Lab Samples: 60125766002, 60125766003, 60125766018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	10.0	07/31/12 13:56	
Arsenic	ug/L	ND	10.0	07/31/12 13:56	
Beryllium	ug/L	ND	1.0	07/31/12 13:56	
Cadmium	ug/L	ND	5.0	07/31/12 13:56	
Chromium	ug/L	ND	5.0	07/31/12 13:56	
Copper	ug/L	ND	10.0	07/31/12 13:56	
Lead	ug/L	ND	5.0	07/31/12 13:56	
Nickel	ug/L	ND	5.0	07/31/12 13:56	
Selenium	ug/L	ND	15.0	07/31/12 13:56	
Silver	ug/L	ND	7.0	07/31/12 13:56	
Thallium	ug/L	ND	20.0	07/31/12 13:56	
Zinc	ug/L	ND	50.0	07/31/12 13:56	

LABORATORY CONTROL SAMPLE: 1035773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1000	997	100	80-120	
Arsenic	ug/L	1000	1020	102	80-120	
Beryllium	ug/L	1000	932	93	80-120	
Cadmium	ug/L	1000	970	97	80-120	
Chromium	ug/L	1000	918	92	80-120	
Copper	ug/L	1000	877	88	80-120	
Lead	ug/L	1000	912	91	80-120	
Nickel	ug/L	1000	955	96	80-120	
Selenium	ug/L	1000	1000	100	80-120	
Silver	ug/L	500	454	91	80-120	
Thallium	ug/L	1000	888	89	80-120	
Zinc	ug/L	1000	941	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035774 1035775

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	989	982	99	98	75-125	1	20	
Arsenic	ug/L	ND	1000	1000	1000	995	100	99	75-125	1	20	
Beryllium	ug/L	ND	1000	1000	931	921	93	92	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	965	955	97	95	75-125	1	20	
Chromium	ug/L	ND	1000	1000	916	901	92	90	75-125	2	20	
Copper	ug/L	ND	1000	1000	894	884	89	88	75-125	1	20	
Lead	ug/L	ND	1000	1000	921	909	92	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035774 1035775

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel	ug/L	ND	1000	1000	955	943	95	94	75-125	1	20	
Selenium	ug/L	ND	1000	1000	1000	984	100	98	75-125	2	20	
Silver	ug/L	ND	500	500	457	451	91	90	75-125	1	20	
Thallium	ug/L	ND	1000	1000	886	877	89	88	75-125	1	20	
Zinc	ug/L	ND	1000	1000	941	929	94	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: MPRP/18880
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60125766002, 60125766003

METHOD BLANK: 1035765
Matrix: Water
Associated Lab Samples: 60125766002, 60125766003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	10.0	07/30/12 13:05	
Arsenic, Dissolved	ug/L	ND	10.0	07/30/12 13:05	
Beryllium, Dissolved	ug/L	ND	1.0	07/30/12 13:05	
Cadmium, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Chromium, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Copper, Dissolved	ug/L	ND	10.0	07/30/12 13:05	
Lead, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Nickel, Dissolved	ug/L	ND	5.0	07/30/12 13:05	
Selenium, Dissolved	ug/L	ND	15.0	07/30/12 13:05	
Silver, Dissolved	ug/L	ND	7.0	07/30/12 13:05	
Thallium, Dissolved	ug/L	ND	20.0	07/30/12 13:05	
Zinc, Dissolved	ug/L	ND	50.0	07/30/12 13:05	

LABORATORY CONTROL SAMPLE: 1035766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	1000	972	97	80-120	
Arsenic, Dissolved	ug/L	1000	995	100	80-120	
Beryllium, Dissolved	ug/L	1000	972	97	80-120	
Cadmium, Dissolved	ug/L	1000	966	97	80-120	
Chromium, Dissolved	ug/L	1000	986	99	80-120	
Copper, Dissolved	ug/L	1000	901	90	80-120	
Lead, Dissolved	ug/L	1000	935	93	80-120	
Nickel, Dissolved	ug/L	1000	969	97	80-120	
Selenium, Dissolved	ug/L	1000	974	97	80-120	
Silver, Dissolved	ug/L	500	462	92	80-120	
Thallium, Dissolved	ug/L	1000	903	90	80-120	
Zinc, Dissolved	ug/L	1000	985	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035767 1035768

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	977	973	98	97	75-125	0	20	
Arsenic, Dissolved	ug/L	ND	1000	1000	1000	993	100	99	75-125	1	20	
Beryllium, Dissolved	ug/L	ND	1000	1000	988	980	99	98	75-125	1	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	975	967	98	97	75-125	1	20	
Chromium, Dissolved	ug/L	ND	1000	1000	996	984	100	98	75-125	1	20	
Copper, Dissolved	ug/L	ND	1000	1000	923	909	92	91	75-125	2	20	
Lead, Dissolved	ug/L	ND	1000	1000	952	941	95	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035767 1035768

Parameter	Units	60125643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel, Dissolved	ug/L	ND	1000	1000	983	974	98	97	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	981	967	98	97	75-125	1	20	
Silver, Dissolved	ug/L	ND	500	500	472	466	94	93	75-125	1	20	
Thallium, Dissolved	ug/L	ND	1000	1000	918	912	92	91	75-125	1	20	
Zinc, Dissolved	ug/L	ND	1000	1000	1000	992	100	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: MSV/47425 | Analysis Method: OA1
QC Batch Method: OA1 | Analysis Description: OA1 Volatile Pet. Hydrocarbon
Associated Lab Samples: 60125766001

METHOD BLANK: 1037459 | Matrix: Solid
Associated Lab Samples: 60125766001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	07/30/12 17:20	

LABORATORY CONTROL SAMPLE: 1037460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	4	4.3	107	63-138	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: MSV/47383 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60125766002, 60125766003

METHOD BLANK: 1036999 | Matrix: Water
Associated Lab Samples: 60125766002, 60125766003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/30/12 10:21	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/30/12 10:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/30/12 10:21	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/30/12 10:21	
1,1-Dichloroethane	ug/L	ND	1.0	07/30/12 10:21	
1,1-Dichloroethene	ug/L	ND	1.0	07/30/12 10:21	
1,1-Dichloropropene	ug/L	ND	1.0	07/30/12 10:21	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/30/12 10:21	
1,2,3-Trichloropropane	ug/L	ND	2.5	07/30/12 10:21	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/30/12 10:21	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	07/30/12 10:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	07/30/12 10:21	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/30/12 10:21	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/30/12 10:21	
1,2-Dichloroethane	ug/L	ND	1.0	07/30/12 10:21	
1,2-Dichloropropane	ug/L	ND	1.0	07/30/12 10:21	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	07/30/12 10:21	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/30/12 10:21	
1,3-Dichloropropane	ug/L	ND	1.0	07/30/12 10:21	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/30/12 10:21	
2,2-Dichloropropane	ug/L	ND	1.0	07/30/12 10:21	
2-Butanone (MEK)	ug/L	ND	10.0	07/30/12 10:21	
2-Chlorotoluene	ug/L	ND	1.0	07/30/12 10:21	
2-Hexanone	ug/L	ND	10.0	07/30/12 10:21	
4-Chlorotoluene	ug/L	ND	1.0	07/30/12 10:21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/30/12 10:21	
Acetone	ug/L	ND	10.0	07/30/12 10:21	
Benzene	ug/L	ND	1.0	07/30/12 10:21	
Bromobenzene	ug/L	ND	1.0	07/30/12 10:21	
Bromochloromethane	ug/L	ND	1.0	07/30/12 10:21	
Bromodichloromethane	ug/L	ND	1.0	07/30/12 10:21	
Bromoform	ug/L	ND	1.0	07/30/12 10:21	
Bromomethane	ug/L	ND	5.0	07/30/12 10:21	
Carbon disulfide	ug/L	ND	5.0	07/30/12 10:21	
Carbon tetrachloride	ug/L	ND	1.0	07/30/12 10:21	
Chlorobenzene	ug/L	ND	1.0	07/30/12 10:21	
Chloroethane	ug/L	ND	1.0	07/30/12 10:21	
Chloroform	ug/L	ND	1.0	07/30/12 10:21	
Chloromethane	ug/L	ND	1.0	07/30/12 10:21	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/30/12 10:21	
Dibromochloromethane	ug/L	ND	1.0	07/30/12 10:21	
Dibromomethane	ug/L	ND	1.0	07/30/12 10:21	
Dichlorodifluoromethane	ug/L	ND	1.0	07/30/12 10:21	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

METHOD BLANK: 1036999 Matrix: Water

Associated Lab Samples: 60125766002, 60125766003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	1.0	07/30/12 10:21	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	07/30/12 10:21	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/30/12 10:21	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/30/12 10:21	
Methylene chloride	ug/L	ND	1.0	07/30/12 10:21	
n-Butylbenzene	ug/L	ND	1.0	07/30/12 10:21	
n-Propylbenzene	ug/L	ND	1.0	07/30/12 10:21	
Naphthalene	ug/L	ND	10.0	07/30/12 10:21	
p-Isopropyltoluene	ug/L	ND	1.0	07/30/12 10:21	
sec-Butylbenzene	ug/L	ND	1.0	07/30/12 10:21	
Styrene	ug/L	ND	1.0	07/30/12 10:21	
tert-Butylbenzene	ug/L	ND	1.0	07/30/12 10:21	
Tetrachloroethene	ug/L	ND	1.0	07/30/12 10:21	
Toluene	ug/L	ND	1.0	07/30/12 10:21	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/30/12 10:21	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/30/12 10:21	
Trichlorofluoromethane	ug/L	ND	1.0	07/30/12 10:21	
Vinyl chloride	ug/L	ND	1.0	07/30/12 10:21	
Xylene (Total)	ug/L	ND	3.0	07/30/12 10:21	
1,2-Dichloroethane-d4 (S)	%	116	80-120	07/30/12 10:21	
4-Bromofluorobenzene (S)	%	102	80-120	07/30/12 10:21	
Dibromofluoromethane (S)	%	114	80-120	07/30/12 10:21	
Toluene-d8 (S)	%	102	80-120	07/30/12 10:21	

LABORATORY CONTROL SAMPLE: 1037000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.4	107	79-121	
1,1,1-Trichloroethane	ug/L	20	20.0	100	76-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	71-121	
1,1,2-Trichloroethane	ug/L	20	19.8	99	78-120	
1,1-Dichloroethane	ug/L	20	19.6	98	74-120	
1,1-Dichloroethene	ug/L	20	21.2	106	68-120	
1,1-Dichloropropene	ug/L	20	20.4	102	78-120	
1,2,3-Trichlorobenzene	ug/L	20	21.2	106	70-129	
1,2,3-Trichloropropane	ug/L	20	19.7	99	74-121	
1,2,4-Trichlorobenzene	ug/L	20	21.8	109	76-123	
1,2,4-Trimethylbenzene	ug/L	20	21.0	105	76-121	
1,2-Dibromo-3-chloropropane	ug/L	20	20.1	100	65-124	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	105	76-125	
1,2-Dichlorobenzene	ug/L	20	21.4	107	80-120	
1,2-Dichloroethane	ug/L	20	20.6	103	72-123	
1,2-Dichloropropane	ug/L	20	21.5	108	78-120	
1,3,5-Trimethylbenzene	ug/L	20	21.1	106	75-120	
1,3-Dichlorobenzene	ug/L	20	21.4	107	79-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

LABORATORY CONTROL SAMPLE: 1037000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	20	19.5	97	75-120	
1,4-Dichlorobenzene	ug/L	20	21.5	108	80-120	
2,2-Dichloropropane	ug/L	20	23.5	117	54-132	
2-Butanone (MEK)	ug/L	100	92.6	93	40-160	
2-Chlorotoluene	ug/L	20	20.8	104	78-120	
2-Hexanone	ug/L	100	95.4	95	40-160	
4-Chlorotoluene	ug/L	20	22.1	111	79-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.8	96	65-126	
Acetone	ug/L	100	83.2	83	40-160	
Benzene	ug/L	20	20.5	103	74-123	
Bromobenzene	ug/L	20	21.0	105	79-120	
Bromochloromethane	ug/L	20	20.9	105	75-120	
Bromodichloromethane	ug/L	20	20.1	100	74-120	
Bromoform	ug/L	20	20.8	104	70-123	
Bromomethane	ug/L	20	17.1	85	40-158	
Carbon disulfide	ug/L	20	18.0	90	67-135	
Carbon tetrachloride	ug/L	20	20.6	103	74-126	
Chlorobenzene	ug/L	20	21.7	109	80-120	
Chloroethane	ug/L	20	24.2	121	60-144	
Chloroform	ug/L	20	20.0	100	77-120	
Chloromethane	ug/L	20	17.5	88	40-142	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	73-121	
Dibromochloromethane	ug/L	20	21.5	107	77-122	
Dibromomethane	ug/L	20	19.3	97	76-120	
Dichlorodifluoromethane	ug/L	20	14.8	74	40-160	
Ethylbenzene	ug/L	20	21.7	109	76-123	
Hexachloro-1,3-butadiene	ug/L	20	22.8	114	72-124	
Isopropylbenzene (Cumene)	ug/L	20	23.7	118	80-126	
Methyl-tert-butyl ether	ug/L	20	19.2	96	67-125	
Methylene chloride	ug/L	20	19.5	97	72-127	
n-Butylbenzene	ug/L	20	22.2	111	76-125	
n-Propylbenzene	ug/L	20	20.6	103	77-120	
Naphthalene	ug/L	20	19.1	95	63-128	
p-Isopropyltoluene	ug/L	20	21.5	107	77-121	
sec-Butylbenzene	ug/L	20	21.3	107	77-122	
Styrene	ug/L	20	21.8	109	79-120	
tert-Butylbenzene	ug/L	20	21.4	107	75-124	
Tetrachloroethene	ug/L	20	22.7	114	78-121	
Toluene	ug/L	20	21.5	107	75-123	
trans-1,2-Dichloroethene	ug/L	20	21.5	107	80-129	
trans-1,3-Dichloropropene	ug/L	20	22.8	114	77-122	
Trichlorofluoromethane	ug/L	20	20.9	105	69-122	
Vinyl chloride	ug/L	20	19.9	100	50-140	
Xylene (Total)	ug/L	60	65.7	109	76-123	
1,2-Dichloroethane-d4 (S)	%			94	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			93	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: MSV/47421 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60125766002, 60125766003

METHOD BLANK: 1037410 | Matrix: Water
Associated Lab Samples: 60125766002, 60125766003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethene (Total)	ug/L	ND	1.0	07/31/12 10:36	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/31/12 10:36	
Trichloroethene	ug/L	ND	1.0	07/31/12 10:36	
1,2-Dichloroethane-d4 (S)	%	96	80-120	07/31/12 10:36	
4-Bromofluorobenzene (S)	%	102	80-120	07/31/12 10:36	
Dibromofluoromethane (S)	%	93	80-120	07/31/12 10:36	
Toluene-d8 (S)	%	104	80-120	07/31/12 10:36	

LABORATORY CONTROL SAMPLE: 1037411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	40.1	100	78-120	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	70-120	
Trichloroethene	ug/L	20	20.3	101	74-120	
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Dibromofluoromethane (S)	%			91	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037412 1037413

Parameter	Units	60125632025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethene (Total)	ug/L	ND	200	200	192	187	96	94	53-150	3	31	
cis-1,2-Dichloroethene	ug/L	ND	100	100	90.8	88.9	91	89	46-144	2	34	
Trichloroethene	ug/L	ND	100	100	96.6	92.2	97	92	51-146	5	34	
1,2-Dichloroethane-d4 (S)	%						95	93	80-120			
4-Bromofluorobenzene (S)	%						100	101	80-120			
Dibromofluoromethane (S)	%						92	91	80-120			
Toluene-d8 (S)	%						82	102	80-120			

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: MSV/47407 | Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 | Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60125766002, 60125766003

METHOD BLANK: 1037164 | Matrix: Water
Associated Lab Samples: 60125766002, 60125766003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	07/30/12 10:21	
1,2-Dichloroethane-d4 (S)	%	116	80-120	07/30/12 10:21	
4-Bromofluorobenzene (S)	%	102	80-120	07/30/12 10:21	
Dibromofluoromethane (S)	%	114	80-120	07/30/12 10:21	
Toluene-d8 (S)	%	102	80-120	07/30/12 10:21	

LABORATORY CONTROL SAMPLE: 1037165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.3	83	65-136	
1,2-Dichloroethane-d4 (S)	%			94	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			93	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: MSV/47410
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60125766001

METHOD BLANK: 1037202
Matrix: Solid
Associated Lab Samples: 60125766001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1,1-Trichloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1,2-Trichloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1-Dichloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,1-Dichloroethene	ug/kg	ND	5.0	07/30/12 17:20	
1,1-Dichloropropene	ug/kg	ND	5.0	07/30/12 17:20	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,2,3-Trichloropropane	ug/kg	ND	5.0	07/30/12 17:20	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	07/30/12 17:20	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichloroethane	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichloropropane	ug/kg	ND	5.0	07/30/12 17:20	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,3-Dichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
1,3-Dichloropropane	ug/kg	ND	5.0	07/30/12 17:20	
1,4-Dichlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
2,2-Dichloropropane	ug/kg	ND	5.0	07/30/12 17:20	
2-Butanone (MEK)	ug/kg	ND	10.0	07/30/12 17:20	
2-Chlorotoluene	ug/kg	ND	5.0	07/30/12 17:20	
2-Hexanone	ug/kg	ND	20.0	07/30/12 17:20	
4-Chlorotoluene	ug/kg	ND	5.0	07/30/12 17:20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	07/30/12 17:20	
Acetone	ug/kg	ND	20.0	07/30/12 17:20	
Benzene	ug/kg	ND	5.0	07/30/12 17:20	
Bromobenzene	ug/kg	ND	5.0	07/30/12 17:20	
Bromochloromethane	ug/kg	ND	5.0	07/30/12 17:20	
Bromodichloromethane	ug/kg	ND	5.0	07/30/12 17:20	
Bromoform	ug/kg	ND	5.0	07/30/12 17:20	
Bromomethane	ug/kg	ND	5.0	07/30/12 17:20	
Carbon disulfide	ug/kg	ND	5.0	07/30/12 17:20	
Carbon tetrachloride	ug/kg	ND	5.0	07/30/12 17:20	
Chlorobenzene	ug/kg	ND	5.0	07/30/12 17:20	
Chloroethane	ug/kg	ND	5.0	07/30/12 17:20	
Chloroform	ug/kg	ND	5.0	07/30/12 17:20	
Chloromethane	ug/kg	ND	5.0	07/30/12 17:20	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	07/30/12 17:20	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	07/30/12 17:20	
Dibromochloromethane	ug/kg	ND	5.0	07/30/12 17:20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

METHOD BLANK: 1037202 Matrix: Solid

Associated Lab Samples: 60125766001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	07/30/12 17:20	
Dichlorodifluoromethane	ug/kg	ND	5.0	07/30/12 17:20	
Ethylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	07/30/12 17:20	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	07/30/12 17:20	
Methyl-tert-butyl ether	ug/kg	ND	5.0	07/30/12 17:20	
Methylene chloride	ug/kg	ND	5.0	07/30/12 17:20	
n-Butylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
n-Propylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
Naphthalene	ug/kg	ND	10.0	07/30/12 17:20	
p-Isopropyltoluene	ug/kg	ND	5.0	07/30/12 17:20	
sec-Butylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
Styrene	ug/kg	ND	5.0	07/30/12 17:20	
tert-Butylbenzene	ug/kg	ND	5.0	07/30/12 17:20	
Tetrachloroethene	ug/kg	ND	5.0	07/30/12 17:20	
Toluene	ug/kg	ND	5.0	07/30/12 17:20	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	07/30/12 17:20	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	07/30/12 17:20	
Trichloroethene	ug/kg	ND	5.0	07/30/12 17:20	
Trichlorofluoromethane	ug/kg	ND	5.0	07/30/12 17:20	
Vinyl chloride	ug/kg	ND	5.0	07/30/12 17:20	
Xylene (Total)	ug/kg	ND	5.0	07/30/12 17:20	
1,2-Dichloroethane-d4 (S)	%	99	73-135	07/30/12 17:20	
4-Bromofluorobenzene (S)	%	99	78-125	07/30/12 17:20	
Dibromofluoromethane (S)	%	100	78-122	07/30/12 17:20	
Toluene-d8 (S)	%	100	80-123	07/30/12 17:20	

LABORATORY CONTROL SAMPLE: 1037203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	91.7	92	80-120	
1,1,1-Trichloroethane	ug/kg	100	87.9	88	78-128	
1,1,2,2-Tetrachloroethane	ug/kg	100	91.6	92	70-120	
1,1,2-Trichloroethane	ug/kg	100	88.0	88	77-120	
1,1-Dichloroethane	ug/kg	100	85.1	85	78-120	
1,1-Dichloroethene	ug/kg	100	93.4	93	71-123	
1,1-Dichloropropene	ug/kg	100	89.0	89	77-127	
1,2,3-Trichlorobenzene	ug/kg	100	82.6	83	80-120	
1,2,3-Trichloropropane	ug/kg	100	88.7	89	73-120	
1,2,4-Trichlorobenzene	ug/kg	100	80.6	81	78-121	
1,2,4-Trimethylbenzene	ug/kg	100	83.7	84	80-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	84.6	85	70-125	
1,2-Dibromoethane (EDB)	ug/kg	100	92.4	92	78-120	
1,2-Dichlorobenzene	ug/kg	100	86.6	87	80-120	
1,2-Dichloroethane	ug/kg	100	91.8	92	76-121	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

LABORATORY CONTROL SAMPLE: 1037203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	200	177	88	80-120	
1,2-Dichloropropane	ug/kg	100	89.6	90	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	83.1	83	79-120	
1,3-Dichlorobenzene	ug/kg	100	84.8	85	80-120	
1,3-Dichloropropane	ug/kg	100	84.3	84	76-120	
1,4-Dichlorobenzene	ug/kg	100	86.7	87	80-120	
2,2-Dichloropropane	ug/kg	100	83.8	84	71-130	
2-Butanone (MEK)	ug/kg	500	435	87	45-160	
2-Chlorotoluene	ug/kg	100	84.3	84	78-120	
2-Hexanone	ug/kg	500	439	88	47-160	
4-Chlorotoluene	ug/kg	100	84.1	84	79-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	443	89	68-123	
Acetone	ug/kg	500	438	88	40-160	
Benzene	ug/kg	100	87.2	87	78-120	
Bromobenzene	ug/kg	100	86.0	86	80-120	
Bromochloromethane	ug/kg	100	95.9	96	76-120	
Bromodichloromethane	ug/kg	100	88.5	88	79-120	
Bromoform	ug/kg	100	93.8	94	75-124	
Bromomethane	ug/kg	100	85.0	85	59-157	
Carbon disulfide	ug/kg	100	91.5	92	74-158	
Carbon tetrachloride	ug/kg	100	90.9	91	79-139	
Chlorobenzene	ug/kg	100	87.1	87	80-120	
Chloroethane	ug/kg	100	104	104	66-153	
Chloroform	ug/kg	100	78.5	78	74-120	
Chloromethane	ug/kg	100	105	105	40-160	
cis-1,2-Dichloroethene	ug/kg	100	86.6	87	75-120	
cis-1,3-Dichloropropene	ug/kg	100	90.4	90	80-120	
Dibromochloromethane	ug/kg	100	95.4	95	80-123	
Dibromomethane	ug/kg	100	86.2	86	80-120	
Dichlorodifluoromethane	ug/kg	100	104	104	40-160	
Ethylbenzene	ug/kg	100	84.3	84	77-120	
Hexachloro-1,3-butadiene	ug/kg	100	81.8	82	71-134	
Isopropylbenzene (Cumene)	ug/kg	100	89.4	89	80-128	
Methyl-tert-butyl ether	ug/kg	100	87.5	87	71-122	
Methylene chloride	ug/kg	100	91.0	91	76-131	
n-Butylbenzene	ug/kg	100	85.0	85	78-130	
n-Propylbenzene	ug/kg	100	85.2	85	78-121	
Naphthalene	ug/kg	100	84.0	84	67-123	
p-Isopropyltoluene	ug/kg	100	81.9	82	80-122	
sec-Butylbenzene	ug/kg	100	83.8	84	79-124	
Styrene	ug/kg	100	86.0	86	77-120	
tert-Butylbenzene	ug/kg	100	84.3	84	80-123	
Tetrachloroethene	ug/kg	100	84.2	84	74-129	
Toluene	ug/kg	100	80.4	80	76-120	
trans-1,2-Dichloroethene	ug/kg	100	90.0	90	80-129	
trans-1,3-Dichloropropene	ug/kg	100	99.3	99	80-120	
Trichloroethene	ug/kg	100	85.8	86	79-120	
Trichlorofluoromethane	ug/kg	100	97.2	97	70-135	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

LABORATORY CONTROL SAMPLE: 1037203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	100	108	108	64-148	
Xylene (Total)	ug/kg	300	252	84	76-120	
1,2-Dichloroethane-d4 (S)	%			100	73-135	
4-Bromofluorobenzene (S)	%			98	78-125	
Dibromofluoromethane (S)	%			101	78-122	
Toluene-d8 (S)	%			99	80-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037204 1037205

Parameter	Units	60125686004 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	ND	99.5	99.3	69.5	75.5	70	76	40-138	8	48	
1,1,1-Trichloroethane	ug/kg	ND	99.5	99.3	80.2	83.0	81	84	40-136	3	39	
1,1,2,2-Tetrachloroethane	ug/kg	ND	99.5	99.3	ND	ND	2	2	40-157		47	M1
1,1,2-Trichloroethane	ug/kg	ND	99.5	99.3	26.2	26.5	26	27	40-141	1	47	M1
1,1-Dichloroethane	ug/kg	ND	99.5	99.3	76.6	81.5	77	82	40-126	6	42	
1,1-Dichloroethene	ug/kg	ND	99.5	99.3	129	138	129	139	40-130	7	33	M1
1,1-Dichloropropene	ug/kg	ND	99.5	99.3	74.3	80.1	75	81	40-134	7	44	
1,2,3-Trichlorobenzene	ug/kg	ND	99.5	99.3	57.7	66.8	58	67	40-131	15	45	
1,2,3-Trichloropropane	ug/kg	ND	99.5	99.3	72.0	80.6	72	81	40-160	11	48	
1,2,4-Trichlorobenzene	ug/kg	ND	99.5	99.3	57.4	63.4	58	64	40-133	10	48	
1,2,4-Trimethylbenzene	ug/kg	ND	99.5	99.3	74.1	75.7	70	71	40-132	2	46	
1,2-Dibromo-3-chloropropane	ug/kg	ND	99.5	99.3	21.8	21.9	22	22	40-160	0	49	M1
1,2-Dibromoethane (EDB)	ug/kg	ND	99.5	99.3	81.9	89.8	82	90	40-143	9	39	
1,2-Dichlorobenzene	ug/kg	ND	99.5	99.3	67.2	75.1	68	76	40-133	11	45	
1,2-Dichloroethane	ug/kg	ND	99.5	99.3	85.6	93.0	86	94	40-141	8	41	
1,2-Dichloroethene (Total)	ug/kg	ND	199	199	156	167	79	84	40-131	7	42	
1,2-Dichloropropane	ug/kg	ND	99.5	99.3	84.7	90.8	85	91	40-134	7	43	
1,3,5-Trimethylbenzene	ug/kg	ND	99.5	99.3	70.6	71.6	70	71	40-134	1	47	
1,3-Dichlorobenzene	ug/kg	ND	99.5	99.3	62.8	70.0	63	71	40-131	11	45	
1,3-Dichloropropane	ug/kg	ND	99.5	99.3	77.8	84.0	78	85	40-133	8	45	
1,4-Dichlorobenzene	ug/kg	ND	99.5	99.3	64.8	72.2	65	73	40-134	11	46	
2,2-Dichloropropane	ug/kg	ND	99.5	99.3	75.2	80.6	76	81	40-135	7	45	
2-Butanone (MEK)	ug/kg	ND	497	496	418	465	83	93	45-160	11	48	
2-Chlorotoluene	ug/kg	ND	99.5	99.3	67.1	72.1	67	73	40-133	7	46	
2-Hexanone	ug/kg	ND	497	496	423	463	85	93	40-160	9	47	
4-Chlorotoluene	ug/kg	ND	99.5	99.3	65.7	70.6	66	71	40-136	7	46	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	497	496	425	462	85	92	40-148	8	49	
Acetone	ug/kg	0.024 mg/kg	497	496	445	480	85	92	40-160	8	44	
Benzene	ug/kg	ND	99.5	99.3	78.5	83.7	79	84	40-141	6	34	
Bromobenzene	ug/kg	ND	99.5	99.3	72.1	78.1	73	79	40-138	8	44	
Bromochloromethane	ug/kg	ND	99.5	99.3	89.0	96.2	90	97	40-141	8	45	
Bromodichloromethane	ug/kg	ND	99.5	99.3	59.9	65.4	60	66	40-136	9	47	
Bromoform	ug/kg	ND	99.5	99.3	76.2	86.2	77	87	40-146	12	47	
Bromomethane	ug/kg	ND	99.5	99.3	68.7	71.4	69	72	40-147	4	40	
Carbon disulfide	ug/kg	ND	99.5	99.3	49.1	64.6	49	65	40-147	27	34	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037204 1037205

Parameter	Units	60125686004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Carbon tetrachloride	ug/kg	ND	99.5	99.3	78.7	82.7	79	83	40-138	5	45	
Chlorobenzene	ug/kg	ND	99.5	99.3	73.4	78.9	74	79	40-130	7	46	
Chloroethane	ug/kg	ND	99.5	99.3	83.4	88.9	84	90	40-157	6	34	
Chloroform	ug/kg	ND	99.5	99.3	72.4	77.0	72	76	40-129	6	43	
Chloromethane	ug/kg	ND	99.5	99.3	75.1	79.7	76	80	40-140	6	37	
cis-1,2-Dichloroethene	ug/kg	ND	99.5	99.3	78.9	84.2	79	85	40-125	6	46	
cis-1,3-Dichloropropene	ug/kg	ND	99.5	99.3	80.1	85.9	80	87	40-132	7	47	
Dibromochloromethane	ug/kg	ND	99.5	99.3	70.3	75.0	71	76	40-144	6	41	
Dibromomethane	ug/kg	ND	99.5	99.3	80.3	87.1	81	88	40-140	8	47	
Dichlorodifluoromethane	ug/kg	ND	99.5	99.3	61.7	66.7	62	67	40-127	8	37	
Ethylbenzene	ug/kg	ND	99.5	99.3	73.9	77.0	73	76	40-149	4	39	
Hexachloro-1,3-butadiene	ug/kg	ND	99.5	99.3	60.9	54.3	61	55	40-128	11	48	
Isopropylbenzene (Cumene)	ug/kg	ND	99.5	99.3	79.0	78.4	79	79	40-142	1	48	
Methyl-tert-butyl ether	ug/kg	ND	99.5	99.3	81.7	90.1	82	91	40-147	10	36	
Methylene chloride	ug/kg	ND	99.5	99.3	87.4	92.4	86	91	40-147	6	44	
n-Butylbenzene	ug/kg	ND	99.5	99.3	69.3	64.4	70	65	40-136	7	47	
n-Propylbenzene	ug/kg	ND	99.5	99.3	69.8	71.5	70	72	40-134	2	45	
Naphthalene	ug/kg	ND	99.5	99.3	74.1	84.5	70	81	40-158	13	46	
p-Isopropyltoluene	ug/kg	ND	99.5	99.3	68.6	65.2	69	66	40-133	5	46	
sec-Butylbenzene	ug/kg	ND	99.5	99.3	71.6	67.7	72	68	40-135	6	48	
Styrene	ug/kg	ND	99.5	99.3	72.7	78.6	73	79	40-133	8	48	
tert-Butylbenzene	ug/kg	ND	99.5	99.3	75.5	72.7	76	73	40-137	4	45	
Tetrachloroethene	ug/kg	ND	99.5	99.3	65.8	73.0	66	74	40-128	10	44	
Toluene	ug/kg	ND	99.5	99.3	70.7	76.3	68	74	40-143	8	39	
trans-1,2-Dichloroethene	ug/kg	ND	99.5	99.3	77.5	83.1	78	84	40-140	7	35	
trans-1,3-Dichloropropene	ug/kg	ND	99.5	99.3	86.7	94.7	87	95	40-144	9	46	
Trichloroethene	ug/kg	ND	99.5	99.3	139	149	139	150	40-139	7	37	M1
Trichlorofluoromethane	ug/kg	ND	99.5	99.3	75.0	81.5	75	82	40-137	8	34	
Vinyl chloride	ug/kg	ND	99.5	99.3	79.0	83.6	79	84	40-150	6	32	
Xylene (Total)	ug/kg	0.0066 mg/kg	299	298	224	236	73	77	40-147	5	40	
1,2-Dichloroethane-d4 (S)	%						100	100	73-135			
4-Bromofluorobenzene (S)	%						101	99	78-125			
Dibromofluoromethane (S)	%						48	44	78-122			S0
Toluene-d8 (S)	%						100	100	80-123			

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: OEXT/34170 | Analysis Method: EPA 8082
QC Batch Method: EPA 3546 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 60125766016, 60125766017

METHOD BLANK: 1035590 | Matrix: Solid
Associated Lab Samples: 60125766016, 60125766017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	32.6	08/10/12 06:34	
PCB-1221 (Aroclor 1221)	ug/kg	ND	65.1	08/10/12 06:34	
PCB-1232 (Aroclor 1232)	ug/kg	ND	32.6	08/10/12 06:34	
PCB-1242 (Aroclor 1242)	ug/kg	ND	32.6	08/10/12 06:34	
PCB-1248 (Aroclor 1248)	ug/kg	ND	32.6	08/10/12 06:34	
PCB-1254 (Aroclor 1254)	ug/kg	ND	32.6	08/10/12 06:34	
PCB-1260 (Aroclor 1260)	ug/kg	ND	32.6	08/10/12 06:34	
Decachlorobiphenyl (S)	%	91	36-131	08/10/12 06:34	
Tetrachloro-m-xylene (S)	%	92	34-132	08/10/12 06:34	

LABORATORY CONTROL SAMPLE: 1035591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	163	171	105	54-129	
PCB-1260 (Aroclor 1260)	ug/kg	163	161	99	62-129	
Decachlorobiphenyl (S)	%			93	36-131	
Tetrachloro-m-xylene (S)	%			95	34-132	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035600 1035601

Parameter	Units	60125764002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	201	204	169	196	84	96	41-144	15	35	
PCB-1260 (Aroclor 1260)	ug/kg	ND	201	204	165	195	82	96	28-156	17	31	
Decachlorobiphenyl (S)	%						77	86	36-131			
Tetrachloro-m-xylene (S)	%						80	88	34-132			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: OEXT/34154 | Analysis Method: EPA 8082
QC Batch Method: EPA 3510 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 60125766018

METHOD BLANK: 1034958 | Matrix: Water
Associated Lab Samples: 60125766018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.50	08/07/12 10:35	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.50	08/07/12 10:35	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.50	08/07/12 10:35	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.50	08/07/12 10:35	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.50	08/07/12 10:35	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.50	08/07/12 10:35	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.50	08/07/12 10:35	
Decachlorobiphenyl (S)	%	66	17-122	08/07/12 10:35	
Tetrachloro-m-xylene (S)	%	70	36-115	08/07/12 10:35	

LABORATORY CONTROL SAMPLE: 1034959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2.5	2.3	92	38-130	
PCB-1260 (Aroclor 1260)	ug/L	2.5	2.4	95	39-131	
Decachlorobiphenyl (S)	%			74	17-122	
Tetrachloro-m-xylene (S)	%			82	36-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1034960 1034961

Parameter	Units	60125742003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/L	ND	2.5	2.5	2.4	2.4	97	98	35-144	1	30	
PCB-1260 (Aroclor 1260)	ug/L	ND	2.5	2.5	2.3	2.3	93	92	37-134	1	35	
Decachlorobiphenyl (S)	%						59	61	17-122			
Tetrachloro-m-xylene (S)	%						77	74	36-115			

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: OEXT/34158
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 60125766001

METHOD BLANK: 1034973
Matrix: Solid
Associated Lab Samples: 60125766001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	3.2	07/27/12 11:46	
Acenaphthylene	ug/kg	ND	3.2	07/27/12 11:46	
Anthracene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(a)anthracene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(a)pyrene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(b)fluoranthene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(g,h,i)perylene	ug/kg	ND	3.2	07/27/12 11:46	
Benzo(k)fluoranthene	ug/kg	ND	3.2	07/27/12 11:46	
Chrysene	ug/kg	ND	3.2	07/27/12 11:46	
Dibenz(a,h)anthracene	ug/kg	ND	3.2	07/27/12 11:46	
Fluoranthene	ug/kg	ND	3.2	07/27/12 11:46	
Fluorene	ug/kg	ND	3.2	07/27/12 11:46	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	3.2	07/27/12 11:46	
Naphthalene	ug/kg	ND	3.2	07/27/12 11:46	
Phenanthrene	ug/kg	ND	3.2	07/27/12 11:46	
Pyrene	ug/kg	ND	3.2	07/27/12 11:46	
2-Fluorobiphenyl (S)	%	78	41-120	07/27/12 11:46	
Nitrobenzene-d5 (S)	%	95	35-121	07/27/12 11:46	
Terphenyl-d14 (S)	%	78	39-123	07/27/12 11:46	

LABORATORY CONTROL SAMPLE: 1034974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	32.5	26.3	81	58-120	
Acenaphthylene	ug/kg	32.5	25.5	78	56-120	
Anthracene	ug/kg	32.5	23.5	72	55-120	
Benzo(a)anthracene	ug/kg	32.5	26.3	81	60-120	
Benzo(a)pyrene	ug/kg	32.5	26.2	81	54-120	
Benzo(b)fluoranthene	ug/kg	32.5	26.2	81	54-128	
Benzo(g,h,i)perylene	ug/kg	32.5	25.6	79	26-126	
Benzo(k)fluoranthene	ug/kg	32.5	26.0	80	53-120	
Chrysene	ug/kg	32.5	26.8	82	56-120	
Dibenz(a,h)anthracene	ug/kg	32.5	25.7	79	42-120	
Fluoranthene	ug/kg	32.5	27.3	84	57-120	
Fluorene	ug/kg	32.5	27.4	84	58-120	
Indeno(1,2,3-cd)pyrene	ug/kg	32.5	23.9	74	37-120	
Naphthalene	ug/kg	32.5	25.6	79	55-120	
Phenanthrene	ug/kg	32.5	30.1	92	57-120	
Pyrene	ug/kg	32.5	27.3	84	57-120	
2-Fluorobiphenyl (S)	%			81	41-120	
Nitrobenzene-d5 (S)	%			94	35-121	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

LABORATORY CONTROL SAMPLE: 1034974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			77	39-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1034975 1034976

Parameter	Units	60125643003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	43.3	43.4	36.8	31.9	84	72	45-120	14	30	
Acenaphthylene	ug/kg	ND	43.3	43.4	35.3	30.9	81	71	28-129	13	35	
Anthracene	ug/kg	ND	43.3	43.4	35.9	29.4	83	68	27-130	20	37	
Benzo(a)anthracene	ug/kg	ND	43.3	43.4	38.2	33.5	87	76	36-127	13	39	
Benzo(a)pyrene	ug/kg	ND	43.3	43.4	32.1	29.3	73	66	21-135	9	35	
Benzo(b)fluoranthene	ug/kg	ND	43.3	43.4	41.0	36.9	90	80	17-158	11	36	
Benzo(g,h,i)perylene	ug/kg	ND	43.3	43.4	36.8	34.5	77	72	10-141	6	41	
Benzo(k)fluoranthene	ug/kg	ND	43.3	43.4	32.1	29.1	72	65	47-120	10	33	
Chrysene	ug/kg	ND	43.3	43.4	35.4	29.3	80	66	24-128	19	42	
Dibenz(a,h)anthracene	ug/kg	ND	43.3	43.4	32.9	31.3	75	71	10-137	5	31	
Fluoranthene	ug/kg	ND	43.3	43.4	36.4	31.5	83	71	34-126	15	43	
Fluorene	ug/kg	ND	43.3	43.4	37.9	32.6	86	73	42-123	15	35	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	43.3	43.4	33.7	30.7	76	69	10-126	9	32	
Naphthalene	ug/kg	14.4	43.3	43.4	36.3	33.6	51	44	22-135	8	41	
Phenanthrene	ug/kg	ND	43.3	43.4	42.6	36.9	91	78	29-139	14	42	
Pyrene	ug/kg	ND	43.3	43.4	36.6	32.1	83	72	20-138	13	43	
2-Fluorobiphenyl (S)	%						100	74	41-120			
Nitrobenzene-d5 (S)	%						85	78	35-121			
Terphenyl-d14 (S)	%						98	61	39-123			

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: OEXT/34151
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270C by SIM
Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60125766002, 60125766003

METHOD BLANK: 1034950
Matrix: Water
Associated Lab Samples: 60125766002, 60125766003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	08/06/12 19:55	
Acenaphthylene	ug/L	ND	0.10	08/06/12 19:55	
Anthracene	ug/L	ND	0.10	08/06/12 19:55	
Benzo(a)anthracene	ug/L	ND	0.10	08/06/12 19:55	
Benzo(a)pyrene	ug/L	ND	0.10	08/06/12 19:55	
Benzo(b)fluoranthene	ug/L	ND	0.10	08/06/12 19:55	
Benzo(g,h,i)perylene	ug/L	ND	0.10	08/06/12 19:55	
Benzo(k)fluoranthene	ug/L	ND	0.10	08/06/12 19:55	
Chrysene	ug/L	ND	0.10	08/06/12 19:55	
Dibenz(a,h)anthracene	ug/L	ND	0.10	08/06/12 19:55	
Fluoranthene	ug/L	0.10	0.10	08/06/12 19:55	
Fluorene	ug/L	ND	0.10	08/06/12 19:55	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	08/06/12 19:55	
Naphthalene	ug/L	ND	0.50	08/06/12 19:55	
Phenanthrene	ug/L	ND	0.50	08/06/12 19:55	
Pyrene	ug/L	ND	0.10	08/06/12 19:55	
2-Fluorobiphenyl (S)	%	81	44-120	08/06/12 19:55	
Nitrobenzene-d5 (S)	%	81	42-120	08/06/12 19:55	
Terphenyl-d14 (S)	%	93	46-131	08/06/12 19:55	

LABORATORY CONTROL SAMPLE: 1034951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	10	7.4	74	48-120	
Acenaphthylene	ug/L	10	8.4	84	42-120	
Anthracene	ug/L	10	8.1	81	48-120	
Benzo(a)anthracene	ug/L	10	9.8	98	53-118	
Benzo(a)pyrene	ug/L	10	6.1	61	48-115	
Benzo(b)fluoranthene	ug/L	10	7.4	74	42-132	
Benzo(g,h,i)perylene	ug/L	10	5.8	58	38-116	
Benzo(k)fluoranthene	ug/L	10	6.6	66	48-117	
Chrysene	ug/L	10	7.4	74	51-115	
Dibenz(a,h)anthracene	ug/L	10	5.9	59	40-116	
Fluoranthene	ug/L	10	9.4	94	37-134	
Fluorene	ug/L	10	8.0	80	49-116	
Indeno(1,2,3-cd)pyrene	ug/L	10	5.9	59	37-118	
Naphthalene	ug/L	10	7.4	74	41-112	
Phenanthrene	ug/L	10	7.7	77	52-116	
Pyrene	ug/L	10	7.9	79	44-134	
2-Fluorobiphenyl (S)	%			73	44-120	
Nitrobenzene-d5 (S)	%			71	42-120	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

LABORATORY CONTROL SAMPLE: 1034951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			72	46-131	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: OEXT/34152 | Analysis Method: OA2
QC Batch Method: OA2 | Analysis Description: OA2 GCS
Associated Lab Samples: 60125766002, 60125766003

METHOD BLANK: 1034952 | Matrix: Water
Associated Lab Samples: 60125766002, 60125766003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	08/02/12 11:01	
Fuel Oil	mg/L	ND	0.40	08/02/12 11:01	
Jet Fuel	mg/L	ND	0.40	08/02/12 11:01	
Kerosene	mg/L	ND	0.40	08/02/12 11:01	
Mineral Spirits	mg/L	ND	0.40	08/02/12 11:01	
Motor Oil	mg/L	ND	0.40	08/02/12 11:01	
Total Petroleum Hydrocarbons	mg/L	ND	0.40	08/02/12 11:01	
n-Tetracosane (S)	%	81	30-122	08/02/12 11:01	
p-Terphenyl (S)	%	88	20-122	08/02/12 11:01	

LABORATORY CONTROL SAMPLE: 1034953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	25	24.7	99	47-122	
n-Tetracosane (S)	%			86	30-122	
p-Terphenyl (S)	%			94	20-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1034954 1034955

Parameter	Units	60125817004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel	mg/L	ND	25	25	24.2	24.9	97	100	41-130	3	27	
n-Tetracosane (S)	%						88	89	30-122			
p-Terphenyl (S)	%						95	95	20-122			

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: OEXT/34179 | Analysis Method: OA2
QC Batch Method: OA2 | Analysis Description: OA2 GCS
Associated Lab Samples: 60125766001

METHOD BLANK: 1035683 | Matrix: Solid
Associated Lab Samples: 60125766001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/kg	ND	19.8	07/30/12 22:56	
Fuel Oil	mg/kg	ND	19.8	07/30/12 22:56	
Jet Fuel	mg/kg	ND	19.8	07/30/12 22:56	
Kerosene	mg/kg	ND	19.8	07/30/12 22:56	
Mineral Spirits	mg/kg	ND	19.8	07/30/12 22:56	
Motor Oil	mg/kg	ND	19.8	07/30/12 22:56	
Total Petroleum Hydrocarbons	mg/kg	ND	19.8	07/30/12 22:56	
n-Tetracosane (S)	%	97	50-137	07/30/12 22:56	
p-Terphenyl (S)	%	83	41-129	07/30/12 22:56	

LABORATORY CONTROL SAMPLE: 1035684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/kg	486	519	107	66-138	
n-Tetracosane (S)	%			103	50-137	
p-Terphenyl (S)	%			97	41-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1035685 1035686

Parameter	Units	60125914001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel	mg/kg	ND	507	493	542	541	107	110	56-154	0	27	
n-Tetracosane (S)	%						100	104	50-137			
p-Terphenyl (S)	%						88	91	41-129			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: PMST/7549 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60125766001, 60125766004, 60125766005, 60125766006, 60125766007, 60125766008, 60125766009, 60125766010, 60125766011, 60125766012, 60125766013, 60125766014, 60125766015, 60125766016, 60125766017

METHOD BLANK: 1039390 Matrix: Solid
Associated Lab Samples: 60125766001, 60125766004, 60125766005, 60125766006, 60125766007, 60125766008, 60125766009, 60125766010, 60125766011, 60125766012, 60125766013, 60125766014, 60125766015, 60125766016, 60125766017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/03/12 00:00	

SAMPLE DUPLICATE: 1039391

Parameter	Units	60125766001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.8	21.7	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: WET/9801 Analysis Method: EPA 7196A
QC Batch Method: EPA 7196A Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 60125766004, 60125766005, 60125766006, 60125766007, 60125766008, 60125766009, 60125766010, 60125766011, 60125766012, 60125766013, 60125766014, 60125766015, 60125766016, 60125766017

METHOD BLANK: 773995 Matrix: Solid
Associated Lab Samples: 60125766004, 60125766005, 60125766006, 60125766007, 60125766008, 60125766009, 60125766010, 60125766011, 60125766012, 60125766013, 60125766014, 60125766015, 60125766016, 60125766017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	2.0	08/01/12 12:14	

LABORATORY CONTROL SAMPLE: 773996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	1070	876	82	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 773998 773999

Parameter	Units	60125766004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	1090	1040	594	498	54	47	75-125	18	20	M3

SAMPLE DUPLICATE: 773997

Parameter	Units	5066656003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: WETA/21016 | Analysis Method: EPA 7196
QC Batch Method: EPA 7196 | Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 60125766018

METHOD BLANK: 1034522 | Matrix: Water
Associated Lab Samples: 60125766018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	ND	0.010	07/25/12 15:08	

LABORATORY CONTROL SAMPLE: 1034523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.1	0.094	94	90-110	

MATRIX SPIKE SAMPLE: 1034525

Parameter	Units	60125753001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.019	.1	0.12	106	85-115	

SAMPLE DUPLICATE: 1034524

Parameter	Units	60125766018 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/L	0.057	0.051	11	20	H1

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: WETA/21048
QC Batch Method: EPA 7196
Analysis Method: EPA 7196
Analysis Description: 7196 Chromium, Hexavalent Diss
Associated Lab Samples: 60125766018

METHOD BLANK: 1035811
Matrix: Water
Associated Lab Samples: 60125766018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	ND	0.010	07/27/12 09:17	

LABORATORY CONTROL SAMPLE: 1035812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	.1	0.10	103	90-110	

MATRIX SPIKE SAMPLE: 1035814

Parameter	Units	60125938001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	ND	.1	0.049	47	85-115	M1

SAMPLE DUPLICATE: 1036047

Parameter	Units	60125938004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	ND	.005J		20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: WETA/21068 | Analysis Method: EPA 9012A
QC Batch Method: EPA 9012A | Analysis Description: 9012 Cyanide
Associated Lab Samples: 60125766016, 60125766017

METHOD BLANK: 1036816 | Matrix: Solid
Associated Lab Samples: 60125766016, 60125766017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/kg	ND	0.15	07/30/12 19:30	

LABORATORY CONTROL SAMPLE: 1036817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/kg	3	3.2	106	81-117	

SAMPLE DUPLICATE: 1036819

Parameter	Units	60125766017 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/kg	0.33	.19J		20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

QC Batch: WETA/21067 | Analysis Method: EPA 9012A
QC Batch Method: EPA 9012A | Analysis Description: EPA 9012 Cyanide
Associated Lab Samples: 60125766018

METHOD BLANK: 1036810 | Matrix: Solid
Associated Lab Samples: 60125766018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	07/30/12 19:13	

LABORATORY CONTROL SAMPLE: 1036811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	105	81-117	

MATRIX SPIKE SAMPLE: 1036812

Parameter	Units	60125766018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.11	105	50-150	

SAMPLE DUPLICATE: 1036813

Parameter	Units	60125852012 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	.0029J		20	

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QUALIFIERS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

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.
PRL - Pace Reporting Limit.
RL - Reporting 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.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/47383
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/47407
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/47425
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	Sample was filtered and blanked against the parent sample.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125766016	**WWEL-N-SED**	EPA 3546	OEXT/34170	EPA 8082	GCSV/12872
60125766017	**WWEL-S-SED**	EPA 3546	OEXT/34170	EPA 8082	GCSV/12872
60125766018	**WWEL-S-SW**	EPA 3510	OEXT/34154	EPA 8082	GCSV/12870
60125766002	**SB-11 GW**	OA2	OEXT/34152	OA2	GCSV/12889
60125766003	**SB-17 GW**	OA2	OEXT/34152	OA2	GCSV/12889
60125766001	**SB-19-6-8**	OA2	OEXT/34179	OA2	GCSV/12867
60125766001	**SB-19-6-8**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766004	**SS-1**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766005	**SS-2**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766006	**SS-3**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766007	**SS-4**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766008	**SS-5**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766009	**SS-6**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766010	**SS-7**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766011	**SS-8**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766012	**SS-9**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766013	**SS-10**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766014	**SS-11**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766015	**SS-12**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766016	**WWEL-N-SED**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766017	**WWEL-S-SED**	EPA 3050	MPRP/18868	EPA 6010	ICP/15712
60125766002	**SB-11 GW**	EPA 3010	MPRP/18881	EPA 6010	ICP/15725
60125766003	**SB-17 GW**	EPA 3010	MPRP/18881	EPA 6010	ICP/15725
60125766018	**WWEL-S-SW**	EPA 3010	MPRP/18881	EPA 6010	ICP/15725
60125766002	**SB-11 GW**	EPA 3010	MPRP/18880	EPA 6010	ICP/15715
60125766003	**SB-17 GW**	EPA 3010	MPRP/18880	EPA 6010	ICP/15715
60125766002	**SB-11 GW**	EPA 7470	MERP/6490	EPA 7470	MERC/6455
60125766003	**SB-17 GW**	EPA 7470	MERP/6490	EPA 7470	MERC/6455
60125766002	**SB-11 GW**	EPA 7470	MERP/6489	EPA 7470	MERC/6458
60125766003	**SB-17 GW**	EPA 7470	MERP/6489	EPA 7470	MERC/6458
60125766001	**SB-19-6-8**	EPA 7471	MERP/6494	EPA 7471	MERC/6463
60125766001	**SB-19-6-8**	EPA 3546	OEXT/34158	EPA 8270 by SIM	MSSV/10712
60125766002	**SB-11 GW**	EPA 3510C	OEXT/34151	EPA 8270C by SIM	MSSV/10746
60125766003	**SB-17 GW**	EPA 3510C	OEXT/34151	EPA 8270C by SIM	MSSV/10746
60125766001	**SB-19-6-8**	OA1	MSV/47425		
60125766002	**SB-11 GW**	EPA 5030B/8260	MSV/47383		
60125766002	**SB-11 GW**	EPA 5030B/8260	MSV/47421		
60125766003	**SB-17 GW**	EPA 5030B/8260	MSV/47383		
60125766003	**SB-17 GW**	EPA 5030B/8260	MSV/47421		
60125766002	**SB-11 GW**	EPA 8260/OA1	MSV/47407		

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KUHLMAN DIECASTING
Pace Project No.: 60125766

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125766003	**SB-17 GW**	EPA 8260/OA1	MSV/47407		
60125766001	**SB-19-6-8**	EPA 8260	MSV/47410		
60125766001	**SB-19-6-8**	ASTM D2974	PMST/7549		
60125766004	**SS-1**	ASTM D2974	PMST/7549		
60125766005	**SS-2**	ASTM D2974	PMST/7549		
60125766006	**SS-3**	ASTM D2974	PMST/7549		
60125766007	**SS-4**	ASTM D2974	PMST/7549		
60125766008	**SS-5**	ASTM D2974	PMST/7549		
60125766009	**SS-6**	ASTM D2974	PMST/7549		
60125766010	**SS-7**	ASTM D2974	PMST/7549		
60125766011	**SS-8**	ASTM D2974	PMST/7549		
60125766012	**SS-9**	ASTM D2974	PMST/7549		
60125766013	**SS-10**	ASTM D2974	PMST/7549		
60125766014	**SS-11**	ASTM D2974	PMST/7549		
60125766015	**SS-12**	ASTM D2974	PMST/7549		
60125766016	**WWEL-N-SED**	ASTM D2974	PMST/7549		
60125766017	**WWEL-S-SED**	ASTM D2974	PMST/7549		
60125766004	**SS-1**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766005	**SS-2**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766006	**SS-3**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766007	**SS-4**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766008	**SS-5**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766009	**SS-6**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766010	**SS-7**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766011	**SS-8**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766012	**SS-9**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766013	**SS-10**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766014	**SS-11**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766015	**SS-12**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766016	**WWEL-N-SED**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766017	**WWEL-S-SED**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60125766018	**WWEL-S-SW**	EPA 9012A	WETA/21067	EPA 9012A	WET/36289
60125766018	**WWEL-S-SW**	EPA 7196	WETA/21016		
60125766018	**WWEL-S-SW**	EPA 7196	WETA/21048		
60125766016	**WWEL-N-SED**	EPA 9012A	WETA/21068	EPA 9012A	WETA/21069
60125766017	**WWEL-S-SED**	EPA 9012A	WETA/21068	EPA 9012A	WETA/21069

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

Section A Required Client information

Company:	Seagull Environmentals Technologies
Address:	415 Oak St
	Kansas City, MO 64106
Email To:	jpritchard@seagullenvirotech.com
Phone:	913-220-5887
Fax:	
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Jeff Pirtchard
Copy To:	
Purchase Order No:	
Project Name:	Kuhlman Diecasting
Project Number:	

Section C Invoice Information

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJW
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: KS

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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

Requested Analysis Filtered (Y/N)

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	8260	OA1	OA2	PPL metals - 6010/7470	6010 -Cr,Cu,Ni,Zn	PCBs	PAH SIM	Cyanide-total 9012	Hexavalent Chromium		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60125766
1	SB-19-6-8	SL	C	7/20/12	0938	7/20/12	0938		7	4					2	1			X	X	X	X			X		1DG4M	2	DG4B	2UG4U 2UG4Fu	001
2	SB-11-GW	WT	G	7/19/12	1150	7/19/12	1150		8	3		2	3						X	X	X	X			X		3DG4H	3	AG4U	1BP3N-5	1BP3F-5 002
3	SB-17-GW	WT	G	7/20/12	0811	7/20/12	0811		8	3		2	3						X	X	X	X			X		↓		↓	↓	↓ 003
4	SS-1	SL	C	7/24/12	0912	7/24/12	0912		2	2													X				X			2UG4Fu	004
5	SS-2	SL	C	7/24/12	0913	7/24/12	0913		2	2													X				X				005
6	SS-3	SL	C	7/24/12	0915	7/24/12	0915		2	2													X				X				006
7	SS-4	SL	C	7/24/12	0918	7/24/12	0918		2	2													X				X				007
8	SS-5	SL	C	7/24/12	0919	7/24/12	0919		2	2													X				X				008
9	SS-6	SL	C	7/24/12	0921	7/24/12	0921		2	2													X				X				009
10	SS-7	SL	C	7/24/12	0922	7/24/12	0922		2	2													X				X				010
11	SS-8	SL	C	7/24/12	0925	7/24/12	0925		2	2													X				X				011
12	SS-9	SL	C	7/24/12	0927	7/24/12	0927		2	2													X				X				012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	7/25/12	0830	[signature]	7/25	0830	3.0	X	N	X

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*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

F-ALL-Q-020rev.08, 12-Oct-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information

Company:	Seagull Environmentals Technologies
Address:	415 Oak St
	Kansas City, MO 64106
Email To:	jpritchard@seagullenvirotech.com
Phone:	913-220-5887
Fax:	
Requested Due Date/TAT:	standard

Section B Required Project Information

Report To:	Jeff Pirtchard
Copy To:	
Purchase Order No.:	
Project Name:	Kuhlman Diecasting
Project Number:	

Section C Invoice Information

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJW
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: KS

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
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WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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

Requested Analysis Filtered (Y/N)

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260	OA1	OA2	PPL metals - 6010/7470	6010 -Cr,Cu,Ni,Zn	PCBs	PAH SIM	Cyanide-total 9012	Hexavalent Chromium			Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																														66125766
1	SS-10	SL	C	7/24/12	0928	7/24/12	0928		2	2												X				X				2WGFU 013
2	SS-11	SL	C	7/24	0930	7/24	0930		2	2												X				X				014
3	SS-12	SL	C	7/24	0932	7/24	0932		2	2												X				X				015
4	WWEL-N-SED	SL	C	7/24	1522	7/24	1522		3	3												X	X		X	X				3WGFU 016
5	WWEL-S-SED	SL	C	7/24	1540	7/24	1540		3	3												X	X		X	X				017
6	WWEL-S-SW	WT	G	7/24	1534	7/24	1534		6	3				1	2			2AGU				X	X		X	X	1BP3U			1BPSU125 1BPSN125 1BPSF 018
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		7/25/12	0830		7/25	0830	30	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp In °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*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.

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

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Client Name: SET

Project # 60125766

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____ Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Optional
Proj. Due Date:
Proj. Name: 8/8

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Foam ☐ None ☑ Other ziplc

Thermometer Used: T-191 / T-194 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 3.0

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: PW 7-

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☑ Yes ☐ No ☐ N/A	4. 2VOA
Samples arrived within holding time:	☑ Yes ☑ No ☐ N/A	5. ~~2VOA~~ for the Kits are out of hold
Short Hold Time analyses (<72hr):	☑ Yes ☐ No ☐ N/A	6. Cret PW 7-25-12
Rush Turn Around Time requested:	☐ Yes ☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
Containers intact:	☑ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs? PW 7-25-12	~~☑ Yes~~ ☑ No ☐ N/A	11.
Filtered volume received for dissolved tests	☑ Yes ☐ No ☐ N/A	12.
Sample labels match COC: -Includes date/time/ID/analyses Matrix: WT/SL	☑ Yes ☐ No ☐ N/A	13.
All containers needing preservation have been checked.	☑ Yes ☐ No ☐ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑ Yes ☐ No ☐ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑ Yes ☐ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present: Pace Trip Blank lot # (if purchased): _____	☐ Yes ☑ No ☐ N/A	15.
Headspace in VOA vials (>6mm):	☐ Yes ☑ No ☐ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☑ N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

- Total & dissolved metals per Joel Harvester - mw 7/26/12

Project Manager Review: MW Date: 7/25/12

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)

F-KS-C-003-Rev 05, 19February2010

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 09, 2012

Jeff Pritchard
Seagull Environmental Technologies
415 Oak St.
Kansas City, MO 64106

RE: Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

Dear Jeff Pritchard:
Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Mary Jane Walls

maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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(913)599-5665

SAMPLE SUMMARY

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60125938001	**GM-10**	Water	07/26/12 10:20	07/26/12 17:11
60125938002	**GM-8**	Water	07/26/12 11:51	07/26/12 17:11
60125938003	**GM-15**	Water	07/26/12 12:47	07/26/12 17:11
60125938004	**GM-13**	Water	07/26/12 14:40	07/26/12 17:11
60125938005	**GM-12**	Water	07/26/12 15:29	07/26/12 17:11

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(913)599-5665

SAMPLE ANALYTE COUNT

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60125938001	**GM-10**	EPA 6010	SMW	4
		EPA 6010	SMW	4
		EPA 7196	NDL	1
		EPA 7196	NDL	1
60125938002	**GM-8**	EPA 6010	SMW	4
		EPA 6010	SMW	4
60125938003	**GM-15**	EPA 6010	SMW	4
		EPA 6010	SMW	4
60125938004	**GM-13**	EPA 6010	SMW	4
		EPA 6010	SMW	4
		EPA 7196	NDL	1
		EPA 7196	NDL	1
60125938005	**GM-12**	EPA 6010	SMW	4
		EPA 6010	SMW	4

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

Sample: GM-10 **Lab ID: 60125938001** Collected: 07/26/12 10:20 Received: 07/26/12 17:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:30	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:30	7440-50-8	
Nickel	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:30	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:30	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium, Dissolved	ND	ug/L	5.0	1	08/01/12 17:30	08/06/12 14:36	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	08/01/12 17:30	08/06/12 14:36	7440-50-8	
Nickel, Dissolved	ND	ug/L	5.0	1	08/01/12 17:30	08/06/12 14:36	7440-02-0	
Zinc, Dissolved	ND	ug/L	50.0	1	08/01/12 17:30	08/06/12 14:36	7440-66-6	
7196 Chromium, Hexavalent	Analytical Method: EPA 7196							
Chromium, Hexavalent	ND	mg/L	0.010	1		07/27/12 08:40	18540-29-9	M1
7196 Chromium, Hexavalent Diss	Analytical Method: EPA 7196							
Chromium, Hexavalent,Dissolved	ND	mg/L	0.010	1		07/27/12 09:19	18540-29-9	M1

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

Sample: GM-8 **Lab ID: 60125938002** Collected: 07/26/12 11:51 Received: 07/26/12 17:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:32	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:32	7440-50-8	
Nickel	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:32	7440-02-0	
Zinc	**53.1**	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:32	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium, Dissolved	ND	ug/L	5.0	1	08/01/12 17:30	08/06/12 14:53	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	08/01/12 17:30	08/06/12 14:53	7440-50-8	
Nickel, Dissolved	ND	ug/L	5.0	1	08/01/12 17:30	08/06/12 14:53	7440-02-0	
Zinc, Dissolved	ND	ug/L	50.0	1	08/01/12 17:30	08/06/12 14:53	7440-66-6	

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

Sample: GM-15 **Lab ID: 60125938003** Collected: 07/26/12 12:47 Received: 07/26/12 17:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	**7.2**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:34	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:34	7440-50-8	
Nickel	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:34	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:34	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium, Dissolved	**6.9**	ug/L	5.0	1	08/01/12 17:30	08/06/12 14:56	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	08/01/12 17:30	08/06/12 14:56	7440-50-8	
Nickel, Dissolved	ND	ug/L	5.0	1	08/01/12 17:30	08/06/12 14:56	7440-02-0	
Zinc, Dissolved	ND	ug/L	50.0	1	08/01/12 17:30	08/06/12 14:56	7440-66-6	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

Sample: GM-13 **Lab ID: 60125938004** Collected: 07/26/12 14:40 Received: 07/26/12 17:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:36	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:36	7440-50-8	
Nickel	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:36	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:36	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium, Dissolved	ND	ug/L	5.0	1	08/01/12 17:30	08/06/12 14:59	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	08/01/12 17:30	08/06/12 14:59	7440-50-8	
Nickel, Dissolved	ND	ug/L	5.0	1	08/01/12 17:30	08/06/12 14:59	7440-02-0	
Zinc, Dissolved	ND	ug/L	50.0	1	08/01/12 17:30	08/06/12 14:59	7440-66-6	
7196 Chromium, Hexavalent	Analytical Method: EPA 7196							
Chromium, Hexavalent	ND	mg/L	0.010	1		07/27/12 09:00	18540-29-9	
7196 Chromium, Hexavalent Diss	Analytical Method: EPA 7196							
Chromium, Hexavalent,Dissolved	ND	mg/L	0.010	1		07/27/12 09:20	18540-29-9	

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ANALYTICAL RESULTS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

Sample: GM-12 **Lab ID: 60125938005** Collected: 07/26/12 15:29 Received: 07/26/12 17:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:38	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:38	7440-50-8	
Nickel	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:38	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:38	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium, Dissolved	ND	ug/L	5.0	1	08/01/12 17:30	08/06/12 15:03	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	08/01/12 17:30	08/06/12 15:03	7440-50-8	
Nickel, Dissolved	ND	ug/L	5.0	1	08/01/12 17:30	08/06/12 15:03	7440-02-0	
Zinc, Dissolved	ND	ug/L	50.0	1	08/01/12 17:30	08/06/12 15:03	7440-66-6	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

QC Batch: MPRP/18924 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60125938001, 60125938002, 60125938003, 60125938004, 60125938005

METHOD BLANK: 1037888 Matrix: Water
Associated Lab Samples: 60125938001, 60125938002, 60125938003, 60125938004, 60125938005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	ND	5.0	08/02/12 10:59	
Copper	ug/L	ND	10.0	08/02/12 10:59	
Nickel	ug/L	ND	5.0	08/02/12 10:59	
Zinc	ug/L	ND	50.0	08/02/12 10:59	

LABORATORY CONTROL SAMPLE: 1037889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	1000	1020	102	80-120	
Copper	ug/L	1000	982	98	80-120	
Nickel	ug/L	1000	1010	101	80-120	
Zinc	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037890 1037891

Parameter	Units	60126151001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	0.0091 mg/L	1000	1000	1030	1020	102	101	75-125	0	20	
Copper	ug/L	0.037 mg/L	1000	1000	1020	1020	98	98	75-125	0	20	
Nickel	ug/L	0.0072 mg/L	1000	1000	1010	1010	100	100	75-125	0	20	
Zinc	ug/L	0.057 mg/L	1000	1000	1080	1080	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

QC Batch: MPRP/18937 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60125938001, 60125938002, 60125938003, 60125938004, 60125938005

METHOD BLANK: 1038287 Matrix: Water
Associated Lab Samples: 60125938001, 60125938002, 60125938003, 60125938004, 60125938005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Dissolved	ug/L	ND	5.0	08/06/12 14:29	
Copper, Dissolved	ug/L	ND	10.0	08/06/12 14:29	
Nickel, Dissolved	ug/L	ND	5.0	08/06/12 14:29	
Zinc, Dissolved	ug/L	ND	50.0	08/06/12 14:29	

LABORATORY CONTROL SAMPLE: 1038288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	1000	1000	100	80-120	
Copper, Dissolved	ug/L	1000	962	96	80-120	
Nickel, Dissolved	ug/L	1000	1000	100	80-120	
Zinc, Dissolved	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1038289 1038290

Parameter	Units	60125938001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Dissolved	ug/L	ND	1000	1000	981	991	98	99	75-125	1	20	
Copper, Dissolved	ug/L	ND	1000	1000	956	967	95	97	75-125	1	20	
Nickel, Dissolved	ug/L	ND	1000	1000	971	976	97	97	75-125	1	20	
Zinc, Dissolved	ug/L	ND	1000	1000	978	984	98	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

QC Batch: WETA/21043 | Analysis Method: EPA 7196
QC Batch Method: EPA 7196 | Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 60125938001, 60125938004

METHOD BLANK: 1035709 | Matrix: Water
Associated Lab Samples: 60125938001, 60125938004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	ND	0.010	07/27/12 08:24	

LABORATORY CONTROL SAMPLE: 1035710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.1	0.10	103	90-110	

MATRIX SPIKE SAMPLE: 1035711

Parameter	Units	60125938001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	ND	.1	0.050	47	85-115	M1

SAMPLE DUPLICATE: 1035712

Parameter	Units	60125938004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/L	ND	.007J		20	

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QUALITY CONTROL DATA

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

QC Batch: WETA/21048 | Analysis Method: EPA 7196
QC Batch Method: EPA 7196 | Analysis Description: 7196 Chromium, Hexavalent Diss
Associated Lab Samples: 60125938001, 60125938004

METHOD BLANK: 1035811 | Matrix: Water
Associated Lab Samples: 60125938001, 60125938004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	ND	0.010	07/27/12 09:17	

LABORATORY CONTROL SAMPLE: 1035812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	.1	0.10	103	90-110	

MATRIX SPIKE SAMPLE: 1035814

Parameter	Units	60125938001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	ND	.1	0.049	47	85-115	M1

SAMPLE DUPLICATE: 1036047

Parameter	Units	60125938004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	ND	.005J		20	

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QUALIFIERS

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KUHLMAN DIECASTING
Pace Project No.: 60125938

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60125938001	**GM-10**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125938002	**GM-8**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125938003	**GM-15**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125938004	**GM-13**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125938005	**GM-12**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60125938001	**GM-10**	EPA 3010	MPRP/18937	EPA 6010	ICP/15744
60125938002	**GM-8**	EPA 3010	MPRP/18937	EPA 6010	ICP/15744
60125938003	**GM-15**	EPA 3010	MPRP/18937	EPA 6010	ICP/15744
60125938004	**GM-13**	EPA 3010	MPRP/18937	EPA 6010	ICP/15744
60125938005	**GM-12**	EPA 3010	MPRP/18937	EPA 6010	ICP/15744
60125938001	**GM-10**	EPA 7196	WETA/21043		
60125938004	**GM-13**	EPA 7196	WETA/21043		
60125938001	**GM-10**	EPA 7196	WETA/21048		
60125938004	**GM-13**	EPA 7196	WETA/21048		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of

Section A Required Client Information

Company:	Seagull Environmentals Technologies
Address:	415 Oak St
	Kansas City, MO 64106
Email To:	jpritchard@seagullenvirotech.com
Phone:	913-220-5887 Fax:
Requested Due Date/TAT:	standard

Section B Required Project Information

Report To:	Jeff Pirtchard
Copy To:	
Purchase Order No.:	
Project Name:	Kuhlman Diecasting
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJW
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: KS

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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): 8260	OA1	OA2	PPL metals - 6010/7470	6010 -Cr,Cu,Ni,Zn	PCBs	PAH SIM	Cyanide-total 9012	Dissolved Cr,Cu,Ni,Zn	Hexavalent Chromium	Dissolved Hex Chrome	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 66125938
1	GM-10	WT	G	7/26	1020	7/26	1020		4	2		2										X				X	X	X		1BP3N, 1BP3F, 2BP34 01
2	GM-8	WT	G	7/26	1151	7/26	1151		2			2										X				X				02
3	GM-15	WT	G	7/26	1247	7/26	1247		2			2										X				X				03
4	GM-13	WT	G	7/26	1440	7/26	1440		4	2		2										X				X	X	X		2BP34 04
5	GM-12	WT	G	7/26	1529	7/26	1529		2			2										X				X				05
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		7/26/12	1711		7/26/12	1711	4.5	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)
PRINT Name of SAMPLER:		Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):		

*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.

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

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Client Name: Seagull Env Technologies Project # 60125938

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____ Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Optional
Proj. Due Date: 8/10
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other ZPLC

Thermometer Used: T-197 / T-194 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 4.5

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 7/26

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☐ Yes ☑ No ☐ N/A	4.
Samples arrived within holding time:	☑ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☑ Yes ☐ No ☐ N/A	6. Cr^{+6} (one dissolved, one total for both samples)
Rush Turn Around Time requested:	☐ Yes ☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
Containers intact:	☑ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☑ N/A	11.
Filtered volume received for dissolved tests	☑ Yes ☐ No ☐ N/A	12.
Sample labels match COC:	☑ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☑ Yes ☐ No ☐ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑ Yes ☐ No ☐ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐ Yes ☑ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☐ Yes ☑ No ☐ N/A	15.
Pace Trip Blank lot # (if purchased): _____		
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☑ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☑ N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [illegible] Date: 7/27/12

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)

F-KS-C-003-Rev 05, 19February2010

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August 13, 2012

Jeff Pritchard
Seagull Environmental Technologies
415 Oak St.
Kansas City, MO 64106

RE: Project: Kuhlman Diecasting
Pace Project No.: 60126042

Dear Jeff Pritchard:
Enclosed are the analytical results for sample(s) received by the laboratory on July 27, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Mary Jane Walls

maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

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CERTIFICATIONS

Project:	Kuhlman Diecasting
Pace Project No.:	60126042

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: Kuhlman Diecasting
Pace Project No.: 60126042

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60126042001	**GM-5**	Water	07/27/12 09:58	07/27/12 17:00
60126042002	**GM-7**	Water	07/27/12 11:10	07/27/12 17:00
60126042003	**BLDG-1-SW**	Water	07/27/12 12:48	07/27/12 17:00
60126042004	**BLDG-2-SW**	Water	07/27/12 13:40	07/27/12 17:00
60126042005	**BLDG-1-SED**	Solid	07/27/12 12:38	07/27/12 17:00
60126042006	**BLDG-2-SED**	Solid	07/27/12 13:23	07/27/12 17:00
60126042007	**TRIP BLANK WATER**	Water	07/27/12 08:00	07/27/12 17:00
60126042008	**TRIP BLANK SOIL**	Solid	07/27/12 08:00	07/27/12 17:00

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SAMPLE ANALYTE COUNT

Project: Kuhlman Diecasting
Pace Project No.: 60126042

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60126042001	**GM-5**	EPA 6010	SMW	4	PASI-K
		EPA 6010	SMW	4	PASI-K
		EPA 7196	NDL	1	PASI-K
		EPA 7196	NDL	1	PASI-K
60126042002	**GM-7**	EPA 6010	SMW	4	PASI-K
		EPA 6010	SMW	4	PASI-K
60126042003	**BLDG-1-SW**	EPA 8082	NAW	9	PASI-K
		EPA 6010	SMW	4	PASI-K
		EPA 9012A	AJM	1	PASI-K
		EPA 7196	NDL	1	PASI-K
60126042004	**BLDG-2-SW**	EPA 8082	NAW	9	PASI-K
		EPA 6010	SMW	4	PASI-K
		EPA 9012A	AJM	1	PASI-K
		EPA 7196	NDL	1	PASI-K
60126042005	**BLDG-1-SED**	EPA 8082	NAW	9	PASI-K
		EPA 6010	SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
		EPA 9012A	AJM	1	PASI-K
60126042006	**BLDG-2-SED**	EPA 8082	NAW	9	PASI-K
		EPA 6010	SMW	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 7196A	TPD	1	PASI-I
		EPA 9012A	AJM	1	PASI-K

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ANALYTICAL RESULTS

Project: Kuhlman Diecasting
Pace Project No.: 60126042

Sample: GM-5 **Lab ID: 60126042001** Collected: 07/27/12 09:58 Received: 07/27/12 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:40	7440-47-3	
Copper	ND	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:40	7440-50-8	
Nickel	ND	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:40	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:40	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium, Dissolved	ND	ug/L	5.0	1	08/01/12 17:30	08/06/12 15:17	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	08/01/12 17:30	08/06/12 15:17	7440-50-8	
Nickel, Dissolved	ND	ug/L	5.0	1	08/01/12 17:30	08/06/12 15:17	7440-02-0	
Zinc, Dissolved	ND	ug/L	50.0	1	08/01/12 17:30	08/06/12 15:17	7440-66-6	
7196 Chromium, Hexavalent	Analytical Method: EPA 7196							
Chromium, Hexavalent	ND	mg/L	0.010	1		07/28/12 09:41	18540-29-9	
7196 Chromium, Hexavalent Diss	Analytical Method: EPA 7196							
Chromium, Hexavalent,Dissolved	ND	mg/L	0.010	1		07/28/12 09:51	18540-29-9	

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ANALYTICAL RESULTS

Project: Kuhlman Diecasting
Pace Project No.: 60126042

Sample: GM-7 **Lab ID: 60126042002** Collected: 07/27/12 11:10 Received: 07/27/12 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	**6.8**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:42	7440-47-3	
Copper	**14.5**	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:42	7440-50-8	
Nickel	**15.7**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:42	7440-02-0	
Zinc	ND	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:42	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium, Dissolved	ND	ug/L	5.0	1	08/01/12 17:30	08/06/12 15:20	7440-47-3	
Copper, Dissolved	ND	ug/L	10.0	1	08/01/12 17:30	08/06/12 15:20	7440-50-8	
Nickel, Dissolved	**9.8**	ug/L	5.0	1	08/01/12 17:30	08/06/12 15:20	7440-02-0	
Zinc, Dissolved	ND	ug/L	50.0	1	08/01/12 17:30	08/06/12 15:20	7440-66-6	

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ANALYTICAL RESULTS

Project: Kuhlman Diecasting
Pace Project No.: 60126042

Sample: BLDG-1-SW **Lab ID: 60126042003** Collected: 07/27/12 12:48 Received: 07/27/12 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:28	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:28	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:28	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:28	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:28	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:28	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:28	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	81	%	36-115	1	08/01/12 00:00	08/10/12 02:28	877-09-8	
Decachlorobiphenyl (S)	71	%	17-122	1	08/01/12 00:00	08/10/12 02:28	2051-24-3	CH
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	**5.1**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:49	7440-47-3	
Copper	**10.3**	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:49	7440-50-8	
Nickel	**33.2**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:49	7440-02-0	
Zinc	**204**	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:49	7440-66-6	
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	ND	mg/L	0.0050	1	08/01/12 10:34	08/02/12 09:53	57-12-5	
7196 Chromium, Hexavalent	Analytical Method: EPA 7196							
Chromium, Hexavalent	ND	mg/L	0.010	1		07/28/12 09:41	18540-29-9	

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ANALYTICAL RESULTS

Project: Kuhlman Diecasting
Pace Project No.: 60126042

Sample: BLDG-2-SW **Lab ID: 60126042004** Collected: 07/27/12 13:40 Received: 07/27/12 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:46	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:46	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:46	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:46	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:46	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:46	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	1.1	1	08/01/12 00:00	08/10/12 02:46	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	91	%	36-115	1	08/01/12 00:00	08/10/12 02:46	877-09-8	
Decachlorobiphenyl (S)	74	%	17-122	1	08/01/12 00:00	08/10/12 02:46	2051-24-3	CH
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	**12.7**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:51	7440-47-3	
Copper	**15.9**	ug/L	10.0	1	08/01/12 13:00	08/02/12 11:51	7440-50-8	
Nickel	**42.2**	ug/L	5.0	1	08/01/12 13:00	08/02/12 11:51	7440-02-0	
Zinc	**2480**	ug/L	50.0	1	08/01/12 13:00	08/02/12 11:51	7440-66-6	
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	**0.022**	mg/L	0.0050	1	08/01/12 10:34	08/02/12 09:55	57-12-5	
7196 Chromium, Hexavalent	Analytical Method: EPA 7196							
Chromium, Hexavalent	ND	mg/L	0.010	1		07/28/12 09:46	18540-29-9	

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ANALYTICAL RESULTS

Project: Kuhlman Diecasting
Pace Project No.: 60126042

Sample: BLDG-1-SED **Lab ID: 60126042005** Collected: 07/27/12 12:38 Received: 07/27/12 17:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	1180	1	07/31/12 00:00	08/07/12 01:19	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	2360	1	07/31/12 00:00	08/07/12 01:19	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1180	1	07/31/12 00:00	08/07/12 01:19	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1180	1	07/31/12 00:00	08/07/12 01:19	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1180	1	07/31/12 00:00	08/07/12 01:19	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1180	1	07/31/12 00:00	08/07/12 01:19	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	1180	1	07/31/12 00:00	08/07/12 01:19	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	101	%	34-132	1	07/31/12 00:00	08/07/12 01:19	877-09-8	
Decachlorobiphenyl (S)	85	%	36-131	1	07/31/12 00:00	08/07/12 01:19	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**520**	mg/kg	6.2	5	07/31/12 17:10	08/02/12 15:11	7440-47-3	
Copper	**530**	mg/kg	12.4	5	07/31/12 17:10	08/02/12 15:11	7440-50-8	
Nickel	**2560**	mg/kg	6.2	5	07/31/12 17:10	08/02/12 15:11	7440-02-0	
Zinc	**7060**	mg/kg	124	5	07/31/12 17:10	08/02/12 15:11	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**66.5**	%	0.50	1		08/08/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	6.0	1	07/31/12 13:42	08/01/12 12:14	18540-29-9	
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	**3.3**	mg/kg	0.49	1	08/01/12 10:35	08/02/12 10:03	57-12-5	

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ANALYTICAL RESULTS

Project: Kuhlman Diecasting
Pace Project No.: 60126042

Sample: BLDG-2-SED **Lab ID: 60126042006** Collected: 07/27/12 13:23 Received: 07/27/12 17:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	423	1	07/31/12 00:00	08/07/12 01:37	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	845	1	07/31/12 00:00	08/07/12 01:37	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	423	1	07/31/12 00:00	08/07/12 01:37	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	423	1	07/31/12 00:00	08/07/12 01:37	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	423	1	07/31/12 00:00	08/07/12 01:37	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	423	1	07/31/12 00:00	08/07/12 01:37	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	423	1	07/31/12 00:00	08/07/12 01:37	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	102	%	34-132	1	07/31/12 00:00	08/07/12 01:37	877-09-8	
Decachlorobiphenyl (S)	74	%	36-131	1	07/31/12 00:00	08/07/12 01:37	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**106**	mg/kg	3.0	5	07/31/12 17:10	08/02/12 15:13	7440-47-3	
Copper	**307**	mg/kg	5.9	5	07/31/12 17:10	08/02/12 15:13	7440-50-8	
Nickel	**233**	mg/kg	3.0	5	07/31/12 17:10	08/02/12 15:13	7440-02-0	
Zinc	**154000**	mg/kg	1190	100	07/31/12 17:10	08/06/12 12:13	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**38.2**	%	0.50	1		08/08/12 00:00		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A							
Chromium, Hexavalent	ND	mg/kg	3.2	1	07/31/12 13:42	08/01/12 12:14	18540-29-9	
9012 Cyanide, Total	Analytical Method: EPA 9012A Preparation Method: EPA 9012A							
Cyanide	ND	mg/kg	0.23	1	08/01/12 10:35	08/02/12 10:06	57-12-5	

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QUALITY CONTROL DATA

Project: Kuhlman Diecasting
Pace Project No.: 60126042

QC Batch: MPRP/18917 | Analysis Method: EPA 6010
QC Batch Method: EPA 3050 | Analysis Description: 6010 MET
Associated Lab Samples: 60126042005, 60126042006

METHOD BLANK: 1037482 | Matrix: Solid
Associated Lab Samples: 60126042005, 60126042006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	ND	0.50	08/02/12 14:46	
Copper	mg/kg	ND	1.0	08/02/12 14:46	
Nickel	mg/kg	ND	0.50	08/02/12 14:46	
Zinc	mg/kg	ND	10.0	08/02/12 14:46	

LABORATORY CONTROL SAMPLE: 1037483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	50	49.8	100	80-120	
Copper	mg/kg	50	47.7	95	80-120	
Nickel	mg/kg	50	49.0	98	80-120	
Zinc	mg/kg	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037484 1037485

Parameter	Units	60126107001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/kg	15.1	54.1	55.1	65.4	66.6	93	94	75-125	2	20	
Copper	mg/kg	12.0	54.1	55.1	60.4	62.0	89	91	75-125	3	20	
Nickel	mg/kg	16.3	54.1	55.1	63.7	64.8	88	88	75-125	2	20	
Zinc	mg/kg	40.2	54.1	55.1	87.4	89.8	87	90	75-125	3	20	

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QUALITY CONTROL DATA

Project: Kuhlman Diecasting
Pace Project No.: 60126042

QC Batch: MPRP/18924 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60126042001, 60126042002, 60126042003, 60126042004

METHOD BLANK: 1037888 Matrix: Water
Associated Lab Samples: 60126042001, 60126042002, 60126042003, 60126042004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	ND	5.0	08/02/12 10:59	
Copper	ug/L	ND	10.0	08/02/12 10:59	
Nickel	ug/L	ND	5.0	08/02/12 10:59	
Zinc	ug/L	ND	50.0	08/02/12 10:59	

LABORATORY CONTROL SAMPLE: 1037889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	1000	1020	102	80-120	
Copper	ug/L	1000	982	98	80-120	
Nickel	ug/L	1000	1010	101	80-120	
Zinc	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037890 1037891

Parameter	Units	60126151001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	0.0091 mg/L	1000	1000	1030	1020	102	101	75-125	0	20	
Copper	ug/L	0.037 mg/L	1000	1000	1020	1020	98	98	75-125	0	20	
Nickel	ug/L	0.0072 mg/L	1000	1000	1010	1010	100	100	75-125	0	20	
Zinc	ug/L	0.057 mg/L	1000	1000	1080	1080	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: Kuhlman Diecasting
Pace Project No.: 60126042

QC Batch: MPRP/18937
Analysis Method: EPA 6010
QC Batch Method: EPA 3010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60126042001, 60126042002

METHOD BLANK: 1038287
Matrix: Water
Associated Lab Samples: 60126042001, 60126042002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Dissolved	ug/L	ND	5.0	08/06/12 14:29	
Copper, Dissolved	ug/L	ND	10.0	08/06/12 14:29	
Nickel, Dissolved	ug/L	ND	5.0	08/06/12 14:29	
Zinc, Dissolved	ug/L	ND	50.0	08/06/12 14:29	

LABORATORY CONTROL SAMPLE: 1038288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	1000	1000	100	80-120	
Copper, Dissolved	ug/L	1000	962	96	80-120	
Nickel, Dissolved	ug/L	1000	1000	100	80-120	
Zinc, Dissolved	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1038289 1038290

Parameter	Units	60125938001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Dissolved	ug/L	ND	1000	1000	981	991	98	99	75-125	1	20	
Copper, Dissolved	ug/L	ND	1000	1000	956	967	95	97	75-125	1	20	
Nickel, Dissolved	ug/L	ND	1000	1000	971	976	97	97	75-125	1	20	
Zinc, Dissolved	ug/L	ND	1000	1000	978	984	98	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Kuhlman Diecasting
Pace Project No.: 60126042

QC Batch: OEXT/34240 | Analysis Method: EPA 8082
QC Batch Method: EPA 3546 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 60126042005, 60126042006

METHOD BLANK: 1037606 | Matrix: Solid
Associated Lab Samples: 60126042005, 60126042006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	32.7	08/06/12 23:34	
PCB-1221 (Aroclor 1221)	ug/kg	ND	65.3	08/06/12 23:34	
PCB-1232 (Aroclor 1232)	ug/kg	ND	32.7	08/06/12 23:34	
PCB-1242 (Aroclor 1242)	ug/kg	ND	32.7	08/06/12 23:34	
PCB-1248 (Aroclor 1248)	ug/kg	ND	32.7	08/06/12 23:34	
PCB-1254 (Aroclor 1254)	ug/kg	ND	32.7	08/06/12 23:34	
PCB-1260 (Aroclor 1260)	ug/kg	ND	32.7	08/06/12 23:34	
Decachlorobiphenyl (S)	%	90	36-131	08/06/12 23:34	
Tetrachloro-m-xylene (S)	%	97	34-132	08/06/12 23:34	

LABORATORY CONTROL SAMPLE: 1037607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	166	169	102	54-129	
PCB-1260 (Aroclor 1260)	ug/kg	166	172	104	62-129	
Decachlorobiphenyl (S)	%			91	36-131	
Tetrachloro-m-xylene (S)	%			101	34-132	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037608 1037609

Parameter	Units	60126114001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	1980	2240	1340	1620	68	72	41-144	19	35	
PCB-1260 (Aroclor 1260)	ug/kg	ND	1980	2240	2050	2250	104	100	28-156	10	31	
Decachlorobiphenyl (S)	%						78	79	36-131			
Tetrachloro-m-xylene (S)	%						96	97	34-132			

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QUALITY CONTROL DATA

Project: Kuhlman Diecasting
Pace Project No.: 60126042

QC Batch: OEXT/34247 | Analysis Method: EPA 8082
QC Batch Method: EPA 3510 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 60126042003, 60126042004

METHOD BLANK: 1037802 | Matrix: Water
Associated Lab Samples: 60126042003, 60126042004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.50	08/08/12 12:23	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.50	08/08/12 12:23	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.50	08/08/12 12:23	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.50	08/08/12 12:23	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.50	08/08/12 12:23	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.50	08/08/12 12:23	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.50	08/08/12 12:23	
Decachlorobiphenyl (S)	%	74	17-122	08/08/12 12:23	
Tetrachloro-m-xylene (S)	%	83	36-115	08/08/12 12:23	

LABORATORY CONTROL SAMPLE: 1037803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2.5	2.4	97	38-130	
PCB-1260 (Aroclor 1260)	ug/L	2.5	2.4	98	39-131	
Decachlorobiphenyl (S)	%			74	17-122	
Tetrachloro-m-xylene (S)	%			84	36-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1037804 1037805

Parameter	Units	60126153003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/L	ND	2.5	2.5	2.5	2.5	99	99	35-144	0	30	
PCB-1260 (Aroclor 1260)	ug/L	ND	2.5	2.5	2.3	2.3	92	91	37-134	2	35	
Decachlorobiphenyl (S)	%						62	59	17-122			CH
Tetrachloro-m-xylene (S)	%						81	78	36-115			

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QUALITY CONTROL DATA

Project: Kuhlman Diecasting
Pace Project No.: 60126042

QC Batch: PMST/7563
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60126042005, 60126042006

METHOD BLANK: 1041504
Matrix: Solid
Associated Lab Samples: 60126042005, 60126042006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/08/12 00:00	

SAMPLE DUPLICATE: 1041505

Parameter	Units	60126042005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	66.5	64.7	3	20	

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QUALITY CONTROL DATA

Project: Kuhlman Diecasting
Pace Project No.: 60126042

QC Batch: WET/9801 | Analysis Method: EPA 7196A
QC Batch Method: EPA 7196A | Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 60126042005, 60126042006

METHOD BLANK: 773995 | Matrix: Solid
Associated Lab Samples: 60126042005, 60126042006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	2.0	08/01/12 12:14	

LABORATORY CONTROL SAMPLE: 773996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	1070	876	82	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 773998 773999

Parameter	Units	60125766004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	1090	1040	594	498	54	47	75-125	18	20	M3

SAMPLE DUPLICATE: 773997

Parameter	Units	5066656003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: Kuhlman Diecasting
Pace Project No.: 60126042

QC Batch: WETA/21063 | Analysis Method: EPA 7196
QC Batch Method: EPA 7196 | Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 60126042001, 60126042003, 60126042004

METHOD BLANK: 1036456 | Matrix: Water
Associated Lab Samples: 60126042001, 60126042003, 60126042004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	ND	0.010	07/28/12 09:40	

LABORATORY CONTROL SAMPLE: 1036457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.1	0.10	105	90-110	

MATRIX SPIKE SAMPLE: 1036458

Parameter	Units	60126042001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	ND	.1	0.096	94	85-115	

SAMPLE DUPLICATE: 1036459

Parameter	Units	60126042003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/L	ND	.007J		20	

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QUALITY CONTROL DATA

Project: Kuhlman Diecasting
Pace Project No.: 60126042

QC Batch: WETA/21064 | Analysis Method: EPA 7196
QC Batch Method: EPA 7196 | Analysis Description: 7196 Chromium, Hexavalent Diss
Associated Lab Samples: 60126042001

METHOD BLANK: 1036463 | Matrix: Water
Associated Lab Samples: 60126042001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	ND	0.010	07/28/12 09:49	

LABORATORY CONTROL SAMPLE: 1036464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	.1	0.10	104	90-110	

MATRIX SPIKE SAMPLE: 1036465

Parameter	Units	60126042001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent,Dissolved	mg/L	ND	.1	0.097	92	85-115	

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QUALITY CONTROL DATA

Project: Kuhlman Diecasting
Pace Project No.: 60126042

QC Batch: WETA/21101 | Analysis Method: EPA 9012A
QC Batch Method: EPA 9012A | Analysis Description: 9012 Cyanide
Associated Lab Samples: 60126042005, 60126042006

METHOD BLANK: 1037967 | Matrix: Solid
Associated Lab Samples: 60126042005, 60126042006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/kg	ND	0.15	08/02/12 09:58	

LABORATORY CONTROL SAMPLE: 1037968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/kg	3	3.3	110	81-117	

MATRIX SPIKE SAMPLE: 1037969

Parameter	Units	60126114001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/kg	0.28	2.9	1.9	55	50-150	

SAMPLE DUPLICATE: 1037970

Parameter	Units	60126042005 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/kg	3.3	ND		20	

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QUALITY CONTROL DATA

Project: Kuhlman Diecasting
Pace Project No.: 60126042

QC Batch: WETA/21100 | Analysis Method: EPA 9012A
QC Batch Method: EPA 9012A | Analysis Description: EPA 9012 Cyanide
Associated Lab Samples: 60126042003, 60126042004

METHOD BLANK: 1037955 | Matrix: Solid
Associated Lab Samples: 60126042003, 60126042004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	08/02/12 09:50	

LABORATORY CONTROL SAMPLE: 1037956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	101	81-117	

MATRIX SPIKE SAMPLE: 1037957

Parameter	Units	60126042003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.11	111	50-150	

SAMPLE DUPLICATE: 1037958

Parameter	Units	60126042004 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	0.022	0.0068	105	20	D6

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QUALIFIERS

Project: Kuhlman Diecasting
Pace Project No.: 60126042

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis
PASI-K	Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Kuhlman Diecasting
Pace Project No.: 60126042

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60126042005	**BLDG-1-SED**	EPA 3546	OEXT/34240	EPA 8082	GCSV/12892
60126042006	**BLDG-2-SED**	EPA 3546	OEXT/34240	EPA 8082	GCSV/12892
60126042003	**BLDG-1-SW**	EPA 3510	OEXT/34247	EPA 8082	GCSV/12932
60126042004	**BLDG-2-SW**	EPA 3510	OEXT/34247	EPA 8082	GCSV/12932
60126042005	**BLDG-1-SED**	EPA 3050	MPRP/18917	EPA 6010	ICP/15733
60126042006	**BLDG-2-SED**	EPA 3050	MPRP/18917	EPA 6010	ICP/15733
60126042001	**GM-5**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60126042002	**GM-7**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60126042003	**BLDG-1-SW**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60126042004	**BLDG-2-SW**	EPA 3010	MPRP/18924	EPA 6010	ICP/15740
60126042001	**GM-5**	EPA 3010	MPRP/18937	EPA 6010	ICP/15744
60126042002	**GM-7**	EPA 3010	MPRP/18937	EPA 6010	ICP/15744
60126042005	**BLDG-1-SED**	ASTM D2974	PMST/7563		
60126042006	**BLDG-2-SED**	ASTM D2974	PMST/7563		
60126042005	**BLDG-1-SED**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60126042006	**BLDG-2-SED**	EPA 7196A	WET/9801	EPA 7196A	WET/9805
60126042003	**BLDG-1-SW**	EPA 9012A	WETA/21100	EPA 9012A	WET/36347
60126042004	**BLDG-2-SW**	EPA 9012A	WETA/21100	EPA 9012A	WET/36347
60126042001	**GM-5**	EPA 7196	WETA/21063		
60126042003	**BLDG-1-SW**	EPA 7196	WETA/21063		
60126042004	**BLDG-2-SW**	EPA 7196	WETA/21063		
60126042001	**GM-5**	EPA 7196	WETA/21064		
60126042005	**BLDG-1-SED**	EPA 9012A	WETA/21101	EPA 9012A	WETA/21102
60126042006	**BLDG-2-SED**	EPA 9012A	WETA/21101	EPA 9012A	WETA/21102

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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

1553730

Section A Required Client Information:

Company: Seagull Environmental
Address: 415 Oak St.
Kansas City, MO 64106
Email To: jpritchard@seagullenvirotech.com
Phone: 913-220-5587 Fax: 87
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jeff Pritchard
Copy To:
Purchase Order No.:
Project Name: Kuhlman Diecasting
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: MJW
Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: KS

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED 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): 6010 - Cr, Cu, Ni, Zn	Dissolved Cr, Cu, Ni, Zn	Hexavalent Chromium	Dissolved Hex Chrome	PCBs	Cyanide-total 9012	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GM-5	WT	G	7/27	0958	7/27	0958		4	2		2						X	X	X	X				~~2(BP3N)~~ 2(BP3N) 1(BP3N)[15] 1(BP3F)[15]
2	GM-7	WT	G	7/27	1110	7/27	1110		2			2						X	X						1(BP3N)[15] 1(BP3F)[15]
3	BLDG-1-SW	WT	G	7/27	1248	7/27	1248		5	3		1		1				X		X		X	X		2(PG4N) 1(BP3N) 1(BP3C)[12] 1(BP3N)[15]
4	BLDG-2-SW	WT	G	7/27	1340	7/27	1340		5	3		1		1				X		X		X	X		↓
5	BLDG-1-SED	SL	C	7/27	1238	7/27	1238		3	3								X		X		X	X		3(WEFN)
6	BLDG-2-SED	SL	L	7/27	1323	7/27	1323		3	3								X		X		X	X		↓
7																									
8																									2(DG9H)[TB]
9																									2(VG9U)[TB]
10																									
11																									
12																									

001 002 003 004 005 006 007 008

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	7/27	1200	E Brackett	7/27	1700	134	Y	N	Y
007-TB H2O → new										
008 TB-SOIL 4/30/12										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

*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.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

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Client Name: Seagull Env. Project # 60126042

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____ Pace Shipping Label Used? ☐ Yes ☒ No

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No

Optional
Proj. Due Date: 8/10
Proj. Name: Kuhlman Recording

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other _____

Thermometer Used: (T-191) / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 13.4
Temperature should be above freezing to 6°C

Date and Initials of person examining contents: JND 7/27/12 1715

				Comments:
Chain of Custody present:	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody filled out:	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody relinquished:	☒ Yes	☐ No	☐ N/A	3.
Sampler name & signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Samples arrived within holding time:	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes	☐ No	☐ N/A	6. Cr+6
Rush Turn Around Time requested:	☐ Yes	☒ No	☐ N/A	7.
Sufficient volume:	☒ Yes	☐ No	☐ N/A	8.
Correct containers used:	☒ Yes	☐ No	☐ N/A	9.
-Pace containers used:	☒ Yes	☐ No	☐ N/A	
Containers intact:	☒ Yes	☐ No	☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes	☐ No	☒ N/A	11.
Filtered volume received for dissolved tests	☐ Yes	☐ No	☒ N/A	12.
Sample labels match COC: -Includes date/time/ID/analyses Matrix: water/soil	☒ Yes	☐ No	☐ N/A	13.
All containers needing preservation have been checked.	☐ Yes	☐ No	☒ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes	☐ No		Initial when completed NA Lot # of added preservative _____
Trip Blank present: 061112-3 Pace Trip Blank lot # (if purchased): NA	☒ Yes	☐ No	☒ N/A	15.
Headspace in VOA vials (>6mm):	☐ Yes	☒ No	☒ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes	☐ No	☒ N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 7/30/12

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)

F-KS-C-003-Rev 05, 19February2010