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Pre-Construction Report
Remedial Action – Step Two

Former Copes-Vulcan Facility
601 West Summit Avenue
Charlotte, North Carolina 28203
NCDENR ID# NONCD 000 1097

Submitted to:

The North Carolina Department of Environment and Natural Resources
Division of Waste Management
Inactive Hazardous Sites Branch
Superfund Section
1646 Mail Service Center
Raleigh, NC 27699-1646

Submitted by:

Remediating Party:

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NORTH CAROLINA PROFESSIONAL SEAL 28510 ENGINEER MICHAEL J. LYDEN
6/24/2009

May 2009

REMEDIATING PARTY CERTIFICATION STATEMENT (.0306(b)(2)):

"I certify under penalty of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

JOHN A. HEER

(Name of Remediating Party Official)

* _____ * 6/22/09

(Signature of Remediating Party Official) Date

* ***NOTE: The RSM certifies all documents LAST. Failure to do so is a violation of 15A NCAC 13C .0306(b)(2) of the REC Rules and subject to possible enforcement action against the REC and/or RSM.***

Ohio (Enter State)

Cuyahoga **COUNTY**

I, Beverly Fisher, a Notary Public of said County and State, do hereby certify that John Heer did personally appear and sign before me this day, produced proper identification in the form of drivers license, was duly sworn or affirmed, and declared that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 22nd day of June, 2009.

Beverly Fisher

Notary Public (signature) (OFFICIAL SEAL)

My commission expires: _____

BEVERLY FISHER
Notary Public, State of Ohio
Recorded in Cuyahoga County
My Commission Expires 12.02.2009

NOTARY PUBLIC STATE OF OHIO

REGISTERED SITE MANAGER CERTIFICATION STATEMENT (.0306(b)(1)):

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Michael J. Lyden
(Name of Registered Site Manager)

* _____ * 6/24/09
(Signature of Registered Site Manager) Date

* ***NOTE: The RSM certifies all documents LAST. Failure to do so is a violation of 15A NCAC 13C .0306(b)(2) of the REC Rules and subject to possible enforcement action against the REC and/or RSM.***

OHIO (Enter State)

CUYAHOGA **COUNTY**

I, Patricia M Sternlieb a Notary Public of said County and State, do hereby certify that Michael J. Lyden did personally appear and sign before me this day, produced proper identification in the form of Drivers License, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 24 day of June, 2009.

Patricia M Sternlieb
Notary Public (signature)

(OFFICIAL SEAL)

PATRICIA M STERNLIEB - NOTARY PUBLIC
COMM. EXP. JULY 29, 2013
STATE OF OHIO

My commission expires: 7/29/13

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Pre-Construction Report
Remedial Action – Step Two

Former Copes-Vulcan Facility
601 West Summit Avenue
Charlotte, North Carolina 28203
NCDENR ID# NONCD 000 1097

1.0 INTRODUCTION

This Pre-Construction Report has been prepared in association with a voluntary remedial action (RA) being implemented at the Former Copes-Vulcan site, located at 601 West Summit Avenue, Charlotte, North Carolina (Figure 1). Electrolux Home Products, Inc. (Electrolux) is implementing this RA under the North Carolina Department of Environment and Natural Resources (NCDENR) Registered Environmental Consultant (REC) Program, pursuant to a July 24, 2003 Administrative Agreement between Electrolux and the NCDENR. The Kelly-Buck Company (Kelly-Buck) is the REC assigned to implement and oversee this RA.

Step One of the RA was completed in 2007, and involved the remediation of source-area soil and media in areas of concern (AOCs) #15, #4 and #6, which were identified during the Remedial Investigation (Kelly-Buck, 2005, 2006A, 2008A). A Remedial Action Plan (RAP) for Step Two of the RA was then prepared and submitted to the NCDENR in June of 2008 (Kelly-Buck, 2008B), and detailed plans for remediating remaining soil and ground-water impacts associated with the site In order to facilitate implementation of the Step Two RA, a Pre-Remedial Characterization Work Plan was prepared and submitted to the NCDENR in July of 2008 (Kelly-Buck, 2008C). This Step Two pre-construction work was implemented at the site during the latter portion of 2008, and is the focus of this report.

The main work elements associated with the Step Two Pre-Remedial Characterization are summarized as follows:

- Drilling and installation of four additional ground-water monitoring wells. These new wells will be combined with 17 existing wells to form the Step Two RA ground-water monitoring network.
- Soil sampling in four locations that will undergo in situ soil and ground-water treatment during the Step Two RA. This includes three areas slated for in situ chemical oxidation (ISCO) of chlorinated volatile organic compounds (CVOCs – i.e., AOCs #4, #13 and #21), and one area slated for in situ chemical reduction (ISCR) of hexavalent chromium (Cr(IV) – i.e., AOC #3). The main objectives of this soil sampling work were to: (a) confirm the limits of in situ treatment system (infiltration gallery and well point) construction; (b) classify soil to be removed during remediation system construction for waste disposal purposes; and (c) assess soil characteristics for final design of the treatment processes.

- Detailed grid soil sampling in portions of the site impacted by polychlorinated biphenyls (PCBs), in order to define specific removal limits for soil exceeding the 1 milligram per kilogram (mg/kg) remedial goal (RG), and to delineate the extent of sub-areas exhibiting "as-found" PCB concentrations at or above 50 mg/kg, thereby requiring management and disposal in accordance with EPA Toxic Substances Control Act (TSCA).
- Soil sampling in two additional AOCs, to further assess and delineate constituents detected in soil above RGs. This includes AOC #14, where polynuclear aromatic hydrocarbons (PAHs) had been detected above RGs; and AOC #16, where lead and mercury were detected above RGs.
- Completion of an additional "baseline" round of ground-water, surface-water and soil-vapor sampling and analysis for all pre-existing and newly installed ground-water monitoring wells, surface-water sampling locations and soil-vapor sampling points, which collectively form the Step Two RA monitoring network.

On-site work was completed by Kelly-Buck between August and December of 2008. Laboratory analysis of samples for organic and inorganic chemical constituents was completed by Pace Analytical Services (Pace). Analysis of soil samples for permanganate natural oxidant demand (PNOD) was completed by Carus Remediation Technologies (Carus). Surveying was completed by A. G. Zoutewelle Surveyors. Drilling and monitoring well installation was completed by Geologic Exploration, Inc.

2.0 DESCRIPTION OF THE WORK AND RESULTS

2.1 Ground-Water Monitoring Well Installation

Four additional monitoring wells were drilled and installed for inclusion in the Step Two RA monitoring program. Figure 2 shows existing and new monitoring well locations, and Appendix A contains the drilling and well completion logs. The new wells are described as follows:

MW-B21-10(D): This well is located adjacent to existing well MW-B21-10(I), approximately 35 feet (ft) northwest of AOC #21. Well MW-B21-10(D) was completed in the upper portion of competent, fractured bedrock, with a total depth of 90 ft. This well will help to assess the progress of in situ CVOC treatment in AOC #21.

MW-B13-28(I): This well is located approximately 160 ft west of AOC #13 and existing well cluster MW-BG-B4. Well MW-B13-28(I) was completed in unconsolidated deposits and highly fractured bedrock (transition zone) overlying competent bedrock, with a total depth of 75 ft. This well will help to assess the progress of in situ treatment in upgradient AOCs #13 and #3.

MW-B13-28(D): This well is paired with well #MW-B13-28(I), and was completed in competent, fractured bedrock, with a total depth of 200 ft. This well will help to assess the progress of in situ treatment in AOCs #13 and #3.

MW-B4-22(S): This well is located to the west of AOC #4, and was completed in the upper portion of saturated unconsolidated deposits, with a total depth of 15 ft. Well MW-B4-22(S) will help to assess in situ treatment of CVOCs in AOC #4.

2.2 Pre-Construction Soil Sampling and Results

Soil sampling work and results are summarized below, sub-divided by area. Figures 3, 4, 5 and 6-1 through 6-9 illustrate sampling locations and results. Tables 1 through 5 summarize the laboratory analytical data, and Appendix B contains the full laboratory analytical reports and chain-of-custody documentation.

In Situ CVOC Treatment Areas

AOC #4

In AOC #4, pre-remedial characterization work included soil sampling and analysis for PNOD, in order to verify the suitability of site conditions for permanganate oxidation. One soil boring was advanced, and a soil sample collected from a depth of 10 ft was submitted to Carus for analysis. Laboratory results indicated a PNOD value of 1.9 grams per kilogram (g/kg) at 48 hours. Values below 20 g/kg are generally considered favorable for ISCO, and values below 10 g/kg are preferred.

No soil sampling was completed in AOC #4 for preconstruction evaluation of CVOCs, as shallow CVOC-impacted soil was previously removed from this area during the Step One RA, and planned remediation during Step Two is limited to construction of deeper well-points for delivery of permanganate oxidant.

AOC #13 & AOC #21

Sampling grids were established over AOCs #13 and #21, as described in the Step Two Pre-Remedial Characterization Work Plan (see Figures 4 and 5). At each grid node, soil samples were collected at specific depth intervals and submitted for laboratory analysis of extractable VOCs following USEPA's Toxicity Characteristic Leaching Procedure (TCLP). In addition, one soil boring in each area was advanced to a depth of 15 ft and sampled for PNOD analysis.

Results of the laboratory analyses for TCLP VOCs are summarized in Table 1. As indicated, levels of extractable VOCs associated with the RCRA toxicity characteristic were generally well below RCRA regulatory limits, with one exception. Soil collected from sample node 21-6 (4-5') exceeded the RCRA TCLP limit for tetrachloroethene (PCE), showing a concentration of 3,140 micrograms per liter (ug/L), compared to a regulatory limit of 700 ug/L. A second soil sample from this grid node, 21-6 (1-2'), exhibited PCE at 289 ug/L, below the RCRA limit. Based on these results, soil excavated from the 20 ft by 20 ft grid cell encompassing node #21-6, below a depth of 3 ft, will require management and disposal as a RCRA Subtitle C hazardous waste.

Based on current design plans, soil excavation in this grid cell will extend to approximately 4-5 feet below grade; therefore a depth interval of 3-5 feet is anticipated.

Results of PNOD analyses for AOCs #13 and #21 indicate levels of 9.5 and 3.0 g/kg, respectively. Once again, these values are below the upper limits of 10 to 20 g/kg generally considered ideal or suitable, respectively, for permanganate oxidation.

Granular Media

Construction of the planned infiltration galleries will include placement of granular media to help distribute chemical oxidant. To evaluate Charlotte-area aggregate sources for ISCO suitability, a sample of crushed aggregate was obtained from a nearby quarry and submitted to Carus for PNOD analysis. The sample source was the Martin Marietta Aggregates Quarry, located at 4551 Beatties Ford Road in Charlotte (approximately 5 miles north of the site). Results showed a PNOD level of 0.3 g/kg, indicating a negligible oxidant demand and suitability for the project.

In Situ Treatment AOCs - Chromium Source Areas

AOC #3

In AOC #3, a sampling grid was established in the two sub-areas previously exhibiting elevated hexavalent and/or total chromium in soil (see Figure 5). The south sub-area involves a former chromium electroplating operation inside the former building. The north sub-area involves a portion of gravel drive just north of the former building and electroplating operation, where soil sampling had shown some elevated total chromium levels.

At each grid node, individual samples were collected at specific depth intervals, formed into composite groups and submitted for laboratory analysis of TCLP-extractable chromium. Composite samples of soil and concrete were also analyzed for other TCLP RCRA metals and hazardous waste characteristics.

Analytical results are summarized in Table 2, and indicate that none of the soil or concrete to be removed from AOC #3 exhibits extractable concentrations of chromium or other RCRA metals above regulatory limits, nor any of the other RCRA toxicity characteristics. Therefore, soil and concrete removed from these areas would be classified as non-hazardous for purposes of on-site management and off-site transportation and disposal.

PCB-Impacted Area

A 25 ft by 25 ft sampling grid was established over the previously delineated limits of PCB-impacted soil areas, as shown on Figure 4. Soil borings were advanced at each grid node, and individual soil samples were collected. Initially, one-half of each sample was composited with samples collected from similar depth intervals at up to four adjoining grid cells, and the

composites were analyzed for PCBs. Following receipt and review of composite sample analytical results, individual samples from selected composite groups and/or samples from deeper intervals at a given grid node were analyzed for PCBs. Sample analytical results are summarized in Table 3 and on Figures 6-1 through 6-9, and discussed below by sub-area.

PCB Sub-Area #1

PCB sub-area #1 represents PCB-impacted soil along the northern portion of the property, north of the former building (see Figures 6-1 and 6-2). Laboratory results indicate that soil in portions of this area, particularly in the south and east portions of the sub-area, exceed the 1 mg/kg (1,000 ug/kg or ppb) RG for PCBs. Where the RG is exceeded, the depth of impact ranges from 1 to 2 ft at some locations, to as deep as 5 ft elsewhere. Soil exceeding the 50 mg/kg TSCA threshold was identified in several grid nodes and composite groups, as illustrated on Figures 6-1 and 6-2.

PCB Sub-Area #2

PCB sub-area #2 is directly south of the eastern portion of sub-area #1, and extends beneath the northeastern portion of the raised floor slab associated with the former building (Figure 6-3). Earlier assessment in this area had indicated that the upper several feet of fill soil beneath the raised slab exhibited little or no PCB impacts, while soil beneath this fill zone, associated with a pre-building road base and railroad spur, exhibited PCBs. Laboratory results associated with the current grid sampling generally confirmed this trend, although some of the fill soil results do exceed the 1 mg/kg RG. Much of the underlying soil associated with the pre-building road base and rail spur exceeds the 1 mg/kg RG, involving a depth interval from approximately 3.5 ft to 5.5 ft. As with sub-area #1, portions of the soil exceed the 50 mg/kg TSCA threshold, mainly in the 3.5 to 4.5 ft depth interval.

PCB Sub-Area #3

PCB sub-area #3 is located directly west of sub-area #2 (see Figure 6-4). The east portion of this sub-area is overlain by the raised concrete floor slab associated with the former building, while the west portion involves a gravel road and vegetated areas to the west of the former building. Laboratory results indicate variable PCB concentrations in this area. Some grid nodes beneath the former building exceed the 1 mg/kg RG to depths of 6 to 9 ft, whereas shallow soil in the west portion of the sub-area generally falls below the RG. One sample location, D-20 (3-4'), exceeded the 50 mg/kg TSCA threshold.

PCB Sub-Area #4

PCB sub-area #4 is south of the east portion of sub-area #3, and encompasses the area beneath a roughly 250 ft (north-south) by 100 ft (east-west) raised concrete slab section of the former building, referred to as the 1973 addition (Figure 6-5). Laboratory results indicate that soil in the northern portion of this area typically exceeds the 1 mg/kg RG to a depth of about 4-5 ft, with a majority of exceedances in the 1-2 ft depth interval. PCB concentrations generally decreased

with depth, and there were few exceedances of the RG in the south portion of sub-area 4. No sample results in sub-area #4 exceeded the 50 mg/kg TSCA threshold.

PCB Sub-Area #5

PCB sub-area #5 is located to the west of sub-area #4, and south of sub-area #3 (see Figures 6-6 through 6-9). This area measures approximately 280 ft (north-south) by 280 ft (east-west), and includes an asphalt-covered area to the west of the former building, and grass-covered areas within the fence. PCBs above the 1 mg/kg RG were detected to depths of about 2-3 ft beneath much of the asphalt-covered area, typically more prevalent in the north and east portions of sub-area #5. Grass-covered areas to the south-southwest are essentially free of PCBs; however, the grass covered area in the west-central portion of sub-area #5 exhibits PCBs above the RG to depths of over 10 ft. Exceedances of the 50 mg/kg TSCA threshold were identified in shallow soil beneath asphalt in the northeast portion of sub-area #5, and in much of the soil beneath the grass-covered area in the west-central portion of sub-area #5.

AOC #14

Previous sampling of surficial soil in AOC #14 indicated exceedances of RGs for several semivolatile PAH compounds. During the current assessment, five soil samples were collected at points radiating outward from the initial sampling locations, to better define the limits of impacted soil requiring further action. Soil samples were collected from a depth of 0-1 ft and submitted for laboratory analysis of PAHs (see Figure 5).

Results indicate that, with one exception, soil samples collected in this area do not exhibit PAH concentrations above RGs. The exception to this involves boring #B14-05, located on the hillside along the eastern edge of the area, where exceedances of the RG for benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were observed (see Table 4).

AOC #16

In AOC #16, prior soil sampling during the RI had indicated limited detections of lead and mercury above RGs at locations B16-02 and B16-03. During the current assessment, five soil borings were completed in locations surrounding the original borings, and samples were collected from depth intervals corresponding to earlier detections (see Figure 5). Samples underwent laboratory analysis for total lead and mercury, and results indicated an absence of these metals above RGs (see Table 5).

2.3 Ground Water, Surface Water and Soil Vapor Monitoring

Ground-Water Sampling Procedures

Ground-water sampling was completed during the period of November 10 through 21, 2008, and involved all existing and newly constructed wells comprising the Step Two RA ground-water monitoring network. This resulted in sampling of a total of 21 monitoring wells. Well locations are shown on Figure 2.

Static water levels were first obtained from each monitoring well using an electronic water level indicator. Wells were then purged to remove stagnant water using one of four methods: (1) a Grundfos Redi-Flo II submersible pump fitted with new 1/2-inch inside diameter (ID) Teflon-lined polyethylene tubing; (2) a Proactive SS Monsoon submersible pump fitted with new 1/2-inch ID Teflon-lined polyethylene tubing; (3) a Geotech Geo-Sub submersible pump fitted with new 1/2-inch ID Teflon-lined polyethylene tubing; or (4) a 1.6-inch outside diameter (OD) disposable Teflon bailer with new, non-colored 3/16-inch polyester cord. Purging involved gently raising and lowering the bailer, or pumping at a low flow rate, in order to minimize agitation.

Purge water was collected in clean plastic buckets and transferred to 55-gallon drums for characterization and disposal (see Section 3).

Each well was purged until a minimum of three times the volume of water standing in the well had been removed (or until dry). If a well was purged or pumped dry, it was allowed to recover before sampling. Once three volumes had been purged, a minimum of three consecutive readings of purge water were obtained for temperature (degrees Celsius, or °C), pH (standard units, or S.U.), and specific conductivity (millisiemens per centimeter, or mS/cm) using a Horiba Model U-22 water quality meter with a flow-through cell. An adequate purge volume was achieved when the temperature, pH and specific conductivity readings were observed to have stabilized (i.e., readings generally within about 10 percent of one another). Sample turbidity (in nephelometric turbidity units, or NTUs), dissolved oxygen (milligrams per liter, or mg/L) and oxidation-reduction potential (millivolts, or mV) were also measured and recorded on the field sampling logs.

After purging was completed, laboratory-supplied containers were labeled and filled. If purging of the well was completed using a submersible pump or dedicated bailer, the respective method was also used for sample collection. Once sample containers were filled, they were sealed, placed in a laboratory-supplied cooler and maintained at a temperature of approximately 4°C pending receipt by the laboratory. Proper chain-of-custody procedures were followed for laboratory delivery.

During purging and sampling, the tubing, bailer and cord were kept clean and away from the ground or other surfaces. Once sampling was completed, the dedicated Teflon-lined

polyethylene tubing used in each well was placed in a clean plastic bag, sealed and labeled for possible future use. Bailers and cord were disposed of after each well sampling.

Ground-Water Sample Analytical Results

Static water level data (recent and historical) are included in Table 6, and laboratory analytical results for all ground-water samples are included in Table 7. Complete laboratory reports and chain-of custody forms are provided in Appendix B. Field and laboratory results are summarized as follows:

- Static water levels and corresponding water surface elevations are consistent with previous measurements obtained during the RI, indicating a continued east to west flow direction for ground water in the shallow, intermediate and deep water-bearing zones (see Table 6).
- Sampling of off-site monitoring wells MW-BG-B6D and MW-BG-B7D, which are south west and west of the site, respectively, along Irwin Creek, exhibited chloroform at 10.6 μg/L (MW-BG-B6D) and 0.35 μg/L (MW-BG-B7D). PCE was reported in the duplicate sample obtained from well MW-BG-B7D at an estimated concentration (below laboratory reporting limit) of 0.78 ug/L.
- Sampling results from the newly installed on-site wells downgradient of AOCs #4, #21 and #13 (MW-B4-22S, MW-B21-10D, MW-B13-28I and MW-B13-28D) show CVOCs at concentrations similar to other wells in the area (e.g., MW-B21-10I and well cluster MW-BG-B4).
- For previously installed wells, results associated with this ground-water monitoring event yielded similar data as that compiled during the Phase I and Phase II RI. Specifically, the primary CVOCs impacts involve PCE, TCE, cis-1,2-DCE and vinyl chloride, detectable in most on-site wells, and highest in shallow wells located within or near CVOC source areas AOC #4, AOC #13 and AOC #21. Also, elevated total and hexavalent chromium continues to be detected in shallow-interval monitoring well MW-B1-02S, located downgradient of AOC #3. Chromium concentrations are greatly reduced in both shallow- and deeper-interval monitoring wells located further downgradient to the west (e.g., MW-BG-B4 cluster, MW-B13-28-I, MW-B13-28-D).

Surface-Water Sampling Procedures

Surface-water sampling was conducted on November 17 and 18, 2008, in the two intermittent stream channels located on the property, and in off-site Irwin Creek. The surface-water sampling locations are shown in Figures 2 and 2B, and include on-site locations SW-02, SW-04 and SW-08, and off-site locations SW-11, SW-11B, SW-13, SW-15 and SW-16.

Surface-water samples were collected by directly filling each laboratory-supplied container, careful not to displace any preservative or disturb stream sediment. Once sample containers were filled, they were sealed, placed in a laboratory-supplied cooler and maintained at a

temperature of approximately 4°C pending receipt by the laboratory. Proper chain-of-custody procedures were followed for laboratory delivery.

Surface-Water Sampling Results

Laboratory results are listed in Table 8, and are summarized as follows:

- VOC results for the onsite surface-water samples were consistent with previous findings; that is, low levels of several CVOCs were detected, but did not exceed surface-water RGs. Likewise, several CVOCs were detected in surface water samples collected along Irwin Creek, but did not exceed RGs.
- Results showed detections of total chromium in onsite and offsite surface-water samples, but at concentrations below RGs. No detections of hexavalent chromium were reported in any of the surface-water samples.

Soil Vapor Sampling Procedures

Soil vapor sampling was conducted on December 2, 2008, and involved the three previously established soil-vapor monitoring points located in the south and southwest portions of the site (SV-01, SV-02 and SV-03, Figure 2). These sampling points involve dedicated "implants," which consist of an expendable implant anchor/drive point, a six-inch sampling implant (double woven stainless steel wire screen) installed at a depth of approximately 5.5 ft, and Teflon tubing extending to surface. A quartz sand pack surrounds the sampling implant at a depth of 5.5-4.5 ft and a bentonite seal extends from a depth of 4.5 feet to surface. A two-inch PVC pipe inside a protective outer cover serves as a surface casing to protect the tubing at each location. One port of a Kynar tee union was attached to the down-hole tubing, one port was attached to a Summa canister, and one port was attached to a luer stopcock. This apparatus permitted the entire tubing system to be purged with a sixty milliliter (mL) syringe. A purge volume of 150 mL was removed prior to sampling. The tubing was then attached at all points (stopcock, down-hole tubing, and Summa canister) and a sample volume of one liter was removed from the hole and contained in the Summa canister for laboratory analysis.

Soil Vapor Sampling Results

Laboratory results are listed in Table 9. Soil vapor sample results were compared to EPA's target concentrations for shallow soil gas, as was previously done during the Phase II RI. Results are summarized as follows:

- PCE and TCE were detected in soil vapor points SV-01, SV-02 and SV-03 above target concentrations, as was the case with previous soil vapor results. However, during the current sampling event, concentrations of PCE ranged between 1,540 and 3,840 ppb, compared to values between 30.5 and 668 ppb during the RI. Similarly, current results for TCE were between 172 and 270 ppb, while RI results for TCE were between <1.3 and 38.7 ppb. Target concentrations for PCE and TCE are 1.2 and 0.041 ppb, respectively.

- A number of other VOCs that were previously reported as present in soil vapor samples during the Phase II RI were not detected during the current sampling episode.

3.0 MANAGEMENT OF RESIDUES, DRILL CUTTINGS, PURGE WATER & DECONTAMINATION WATER

Investigation-derived residues generated during the project included drill cuttings; decontamination water associated with drilling and ground-water sampling; and purge water associated with ground-water sampling. These residues were collected and transferred to 55-gallon steel drums, which were sealed and stored in a secure on-site location.

In order to ensure proper management and disposal, the residues were characterized in accordance with the following guidelines: (1) *Management of Remediation Waste Under RCRA* (EPA, 1998); and (2) *"Contained-in" Policy for Soil Contaminated with Listed Hazardous Waste* (NCDENR, 2005). The focus of this characterization was to classify the residues as either non-hazardous or hazardous for disposal purposes.

On December 2 and 3, 2008, samples of the drummed residues were collected for laboratory analysis of total and TCLP-extractable concentrations of the applicable constituents of concern. Based on these results, the residues were classified as non-hazardous, and deemed suitable for disposal in a municipal solid waste landfill (soil) and industrial wastewater treatment facility (water). Disposal of these residues is pending.

4.0 SUMMARY

Preconstruction assessment was completed at the Copes-Vulcan site during the period between August and December of 2008, in accordance with the Step Two Pre-Remedial Characterization Work Plan submitted to the NCDENR in July of 2008. The work was designed to provide additional data and monitoring points to help facilitate Step Two of the planned remedial action. Following is a summary of the work:

- Four additional ground-water monitoring wells were installed, bringing to 21 the total number of wells comprising the Step Two RA ground-water monitoring network.
- Soil sampling was completed in the four CVOC and Cr(VI) source areas slated for in situ treatment, providing pre-removal waste disposal characterization and other necessary data for the planned remedial work. With the exception of one grid cell interval in AOC #21, soil to be removed during treatment system construction can be managed as non-hazardous solid waste.
- Detailed grid sampling was completed in PCB-impacted portions of the site. Results have served to identify the limits of soil in each of five sub-areas which exceed the 1 mg/kg RG, and in some cases, the 50 mg/kg TSCA threshold.

- Soil sampling was completed in two additional sub-areas to assess the extent of previously detected PAHs and metals exceeding RGs. Results indicate that impacts beyond the locations of initial detections are limited.
- An episode of ground-water, surface-water and soil-vapor sampling was completed to provide additional baseline data for comparison to Step Two RA monitoring results. Ground-water and surface water sampling results were generally consistent with earlier data, while soil-vapor results showed fewer VOCs, but at higher concentrations.

§§§

Respectfully Submitted,

The Kelly-Buck Company

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TABLES

Table 1. Soil Sample Analytical Results: TCLP VOCs

	Units	RCRA Regulatory Limit	D-12 (1-2')	D-14 (1-2')	D-15 (1-2')	D-16 (1-2')	D-17 (1-2')	D-18 (1-2')
Volatile Organic Compounds								
Benzene	ug/l	500	< 125	< 125	<5.0	< 50.0	**34**	<125
2-Butanone (MEK)	ug/l	200000	< 250	**91.4**	**5**	< 100	< 250	<250
Carbon Tetrachloride	ug/l	500	< 125	< 125	<5.0	< 50.0	< 125	<125
Chlorobenzene	ug/l	100000	< 125	< 125	<5.0	< 50.0	**52.4**	<125
Chloroform	ug/l	6000	< 125	< 125	<5.0	< 50.0	< 125	<125
1,4-Dichlorobenzene	ug/l	7500	< 125	< 125	<5.0	< 50.0	**99.4**	<125
1,2-Dichloroethane	ug/l	500	< 125	< 125	<5.0	< 50.0	< 125	<125
1,1-Dichloroethene	ug/l	700	< 125	< 125	<5.0	< 50.0	< 125	<125
Tetrachloroethene	ug/l	700	< 125	< 125	**5.4**	< 50.0	< 125	<125
Trichlorethene	ug/l	500	< 125	< 125	**1.8**	< 50.0	**65.5**	<125
Vinyl chloride	ug/l	200	< 125	< 125	**9.2**	< 50.0	< 125	<125

Notes:

1. Sample designations (i.e., D-12) per Figures 4 and 5.
2. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.
3. RCRA Regulatory Limit per 40 CFR Section 261.

BOLD values indicate constituent detections.

Table 1. Soil Sample Analytical Results: TCLP VOCs

	Units	RCRA Regulatory Limit	D-19 (1-2')	D-20 (1-2')	D-21 (1.5-2.5')	D-21 (5.5-6.5')	D-22 (1.5-2.5')	D-22 (5.5-6.5')
Volatile Organic Compounds								
Benzene	ug/l	500	<125	< 125	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	ug/l	200000	<250	**117**	< 10.0	< 10.0	**10.4**	< 10.0
Carbon Tetrachloride	ug/l	500	<125	< 125	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/l	100000	<125	< 125	<5.0	<5.0	<5.0	<5.0
Chloroform	ug/l	6000	<125	< 125	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	ug/l	7500	<125	< 125	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/l	500	<125	< 125	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/l	700	<125	< 125	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/l	700	<125	< 125	**6.0**	**2.7**	**53.0**	**3.8**
Trichlorethene	ug/l	500	<125	< 125	<5.0	<5.0	**3.3**	<5.0
Vinyl chloride	ug/l	200	<125	< 125	<5.0	<5.0	<5.0	<5.0

Notes:

1. Sample designations (i.e., D-12) per Figures 4 and 5.
2. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.
3. RCRA Regulatory Limit per 40 CFR Section 261.

BOLD values indicate constituent detections.

Table 1. Soil Sample Analytical Results: TCLP VOCs

	Units	RCRA Regulatory Limit	D-23 (1.5-2.5')	D-23 (5.5-6.5')	D-24 (1.5-2.5')	D-24 (5.5-6.5')	D-25 (1.5-2.5')	D-25 (5.5-6.5')
Volatile Organic Compounds								
Benzene	ug/l	500	<5.0	<5.0	<5.0	<5.0	<125	<5.0
2-Butanone (MEK)	ug/l	200000	**3.7**	**4.6**	**7.6**	**9.4**	**109**	**5.9**
Carbon Tetrachloride	ug/l	500	<5.0	<5.0	<5.0	<5.0	<125	<5.0
Chlorobenzene	ug/l	100000	<5.0	<5.0	<5.0	<5.0	<125	<5.0
Chloroform	ug/l	6000	<5.0	<5.0	<5.0	<5.0	<125	<5.0
1,4-Dichlorobenzene	ug/l	7500	<5.0	<5.0	<5.0	<5.0	<125	<5.0
1,2-Dichloroethane	ug/l	500	<5.0	<5.0	<5.0	<5.0	<125	<5.0
1,1-Dichloroethene	ug/l	700	<5.0	<5.0	<5.0	<5.0	<125	<5.0
Tetrachloroethene	ug/l	700	**10.6**	**15.9**	**3.7**	**230**	<125	**10.5**
Trichlorethene	ug/l	500	<5.0	<5.0	<5.0	<5.0	<125	<5.0
Vinyl chloride	ug/l	200	<5.0	<5.0	<5.0	<5.0	<125	<5.0

Notes:

1. Sample designations (i.e., D-12) per Figures 4 and 5.
2. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.
3. RCRA Regulatory Limit per 40 CFR Section 261.

BOLD values indicate constituent detections.

Table 1. Soil Sample Analytical Results: TCLP VOCs

	Units	RCRA Regulatory Limit	E-11 (1-2')	E-12 (1-2')	E-13 (1-2')	E-14 (1-2')	E-15 (1-2')	E-16 (1-2')
Volatile Organic Compounds								
Benzene	ug/l	500	<5.0	<5.0	**4.5**	< 125	**2**	< 50.0
2-Butanone (MEK)	ug/l	200000	< 10.0	< 10.0	**5.4**	**127**	**10.3**	< 100
Carbon Tetrachloride	ug/l	500	<5.0	<5.0	<5.0	< 125	<5.0	< 50.0
Chlorobenzene	ug/l	100000	<5.0	<5.0	<5.0	< 125	<5.0	< 50.0
Chloroform	ug/l	6000	<5.0	<5.0	<5.0	< 125	<5.0	< 50.0
1,4-Dichlorobenzene	ug/l	7500	<5.0	<5.0	<5.0	< 125	<5.0	< 50.0
1,2-Dichloroethane	ug/l	500	<5.0	<5.0	<5.0	< 125	<5.0	< 50.0
1,1-Dichloroethene	ug/l	700	<5.0	<5.0	<5.0	< 125	<5.0	< 50.0
Tetrachloroethene	ug/l	700	<5.0	**6.2**	**188**	**494**	**2**	< 50.0
Trichlorethene	ug/l	500	<5.0	**1.8**	**64.1**	**190**	**4.9**	< 50.0
Vinyl chloride	ug/l	200	<5.0	<5.0	<5.0	< 125	**89.1**	< 50.0

Notes:

1. Sample designations (i.e., D-12) per Figures 4 and 5.
2. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.
3. RCRA Regulatory Limit per 40 CFR Section 261.

BOLD values indicate constituent detections.

Table 1. Soil Sample Analytical Results: TCLP VOCs

	Units	RCRA Regulatory Limit	E-17 (1-2')	E-18 (1-2')	E-19 (1-2')	E-20 (1.5-2.5')	E-20 (5.5-6.5')	E-21 (1.5-2.5')
Volatile Organic Compounds								
Benzene	ug/l	500	< 125	<125	<125	<5.0	<5.0	<5.0
2-Butanone (MEK)	ug/l	200000	< 250	<250	<250	**8.3**	**3.8**	**5.2**
Carbon Tetrachloride	ug/l	500	< 125	<125	<125	<5.0	<5.0	<5.0
Chlorobenzene	ug/l	100000	< 125	<125	<125	<5.0	<5.0	<5.0
Chloroform	ug/l	6000	< 125	<125	<125	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	ug/l	7500	< 125	<125	<125	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/l	500	< 125	<125	<125	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/l	700	< 125	<125	<125	<5.0	<5.0	<5.0
Tetrachloroethene	ug/l	700	**58.4**	<125	**316**	**124**	<5.0	**13.8**
Trichlorethene	ug/l	500	< 125	<125	<125	**17.4**	<5.0	**2.5**
Vinyl chloride	ug/l	200	< 125	<125	<125	<5.0	<5.0	<5.0

Notes:

1. Sample designations (i.e., D-12) per Figures 4 and 5.
2. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.
3. RCRA Regulatory Limit per 40 CFR Section 261.

BOLD values indicate constituent detections.

Table 1. Soil Sample Analytical Results: TCLP VOCs

	Units	RCRA Regulatory Limit	E-21 (5.5-6.5')	E-22 (1.5-2.5')	E-22 (5.5-6.5')	E-23 (1.5-2.5')	E-23 (5.5-6.5')	E-24 (1.5-2.5')
Volatile Organic Compounds								
Benzene	ug/l	500	< 125	<5.0	< 125	<5.0	<5.0	<5.0
2-Butanone (MEK)	ug/l	200000	**77.4**	**3.3**	**131**	**3**	**6.1**	**6.2**
Carbon Tetrachloride	ug/l	500	< 125	<5.0	< 125	<5.0	<5.0	<5.0
Chlorobenzene	ug/l	100000	< 125	<5.0	< 125	<5.0	<5.0	<5.0
Chloroform	ug/l	6000	< 125	<5.0	< 125	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	ug/l	7500	< 125	<5.0	< 125	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/l	500	< 125	<5.0	< 125	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/l	700	< 125	<5.0	< 125	<5.0	<5.0	<5.0
Tetrachloroethene	ug/l	700	< 125	**17.6**	< 125	**4.3**	**87.4**	<5.0
Trichlorethene	ug/l	500	< 125	**5.5**	< 125	<5.0	**1**	<5.0
Vinyl chloride	ug/l	200	< 125	<5.0	< 125	<5.0	<5.0	<5.0

Notes:

1. Sample designations (i.e., D-12) per Figures 4 and 5.
2. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.
3. RCRA Regulatory Limit per 40 CFR Section 261.

BOLD values indicate constituent detections.

Table 1. Soil Sample Analytical Results: TCLP VOCs

	Units	RCRA Regulatory Limit	E-24 (5.5-6.5')	E-25 (1.5-2.5')	E-25 (5.5-6.5')	F10-13 (1.5-2.5')	F14-17 (1.5-2.5')	FG 18-19 (4-6')
Volatile Organic Compounds								
Benzene	ug/l	500	<5.0	<5.0	<5.0	<125	<125	<125
2-Butanone (MEK)	ug/l	200000	< 10.0	**11.2**	**4.8**	<250	**128**	<250
Carbon Tetrachloride	ug/l	500	<5.0	<5.0	<5.0	<125	<125	<125
Chlorobenzene	ug/l	100000	<5.0	<5.0	<5.0	<125	<125	<125
Chloroform	ug/l	6000	<5.0	<5.0	<5.0	<125	<125	<125
1,4-Dichlorobenzene	ug/l	7500	<5.0	<5.0	<5.0	<125	<125	<125
1,2-Dichloroethane	ug/l	500	<5.0	<5.0	<5.0	<125	<125	<125
1,1-Dichloroethene	ug/l	700	<5.0	<5.0	<5.0	<125	<125	<125
Tetrachloroethene	ug/l	700	**9.7**	<5.0	**5.5**	<125	**119**	<125
Trichlorethene	ug/l	500	<5.0	<5.0	<5.0	<125	**101**	<125
Vinyl chloride	ug/l	200	<5.0	<5.0	<5.0	<125	<125	<125

Notes:

1. Sample designations (i.e., D-12) per Figures 4 and 5.
2. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.
3. RCRA Regulatory Limit per 40 CFR Section 261.

BOLD values indicate constituent detections.

Table 1. Soil Sample Analytical Results: TCLP VOCs

	Units	RCRA Regulatory Limit	F20-23 (4-5')	21-5 (1-2')	21-6 (1-2')	21-6 (4-5')	21-7 (1-2')	21-7 (4-5')
Volatile Organic Compounds								
Benzene	ug/l	500	<5.0	<125	<5.0	<100	<5.0	<125
2-Butanone (MEK)	ug/l	200000	<10.0	**110**	**5.8**	<200	**5.8**	**148**
Carbon Tetrachloride	ug/l	500	<5.0	<125	<5.0	<100	<5.0	<125
Chlorobenzene	ug/l	100000	<5.0	<125	<5.0	<100	<5.0	<125
Chloroform	ug/l	6000	<5.0	<125	<5.0	<100	<5.0	<125
1,4-Dichlorobenzene	ug/l	7500	<5.0	<125	<5.0	<100	<5.0	<125
1,2-Dichloroethane	ug/l	500	<5.0	<125	<5.0	<100	<5.0	<125
1,1-Dichloroethene	ug/l	700	<5.0	<125	<5.0	<100	<5.0	<125
Tetrachloroethene	ug/l	700	**13.8**	**348**	**289**	**3140**	**4.8**	**59.2**
Trichlorethene	ug/l	500	**1.4**	<125	**1.2**	<100	<5.0	<125
Vinyl chloride	ug/l	200	<5.0	<125	<5.0	<100	<5.0	<125

Notes:

1. Sample designations (i.e., D-12) per Figures 4 and 5.
2. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.
3. RCRA Regulatory Limit per 40 CFR Section 261.

BOLD values indicate constituent detections.

Table 1. Soil Sample Analytical Results: TCLP VOCs

	Units	RCRA Regulatory Limit	21-12 (1-2')	21-13 (1-2')	21-13 (4-5')	21-14 (1-2')	21-14 (4-5')
Volatile Organic Compounds							
Benzene	ug/l	500	<5.0	<5.0	<5.0	<5.0	<125
2-Butanone (MEK)	ug/l	200000	<10.0	**4.1**	<10.0	<10.0	<250
Carbon Tetrachloride	ug/l	500	<5.0	<5.0	<5.0	<5.0	<125
Chlorobenzene	ug/l	100000	<5.0	<5.0	<5.0	<5.0	<125
Chloroform	ug/l	6000	<5.0	<5.0	<5.0	<5.0	<125
1,4-Dichlorobenzene	ug/l	7500	<5.0	<5.0	<5.0	<5.0	<125
1,2-Dichloroethane	ug/l	500	<5.0	<5.0	<5.0	<5.0	<125
1,1-Dichloroethene	ug/l	700	<5.0	<5.0	<5.0	<5.0	<125
Tetrachloroethene	ug/l	700	**35.2**	**363**	**335**	<5.0	<125
Trichlorethene	ug/l	500	**1.2**	**9.4**	**11.0**	<5.0	<125
Vinyl chloride	ug/l	200	<5.0	<5.0	<5.0	<5.0	<125

Notes:

1. Sample designations (i.e., D-12) per Figures 4 and 5.
2. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.
3. RCRA Regulatory Limit per 40 CFR Section 261.

BOLD values indicate constituent detections.

Table 2. Soil and Concrete Sample Analytical Results: TCLP Metals RCRA Characteristics

	Units	RCRA Regulatory Limit	G20, G23, M20, M23 Concrete	F 27-30 Concrete	AOC-3 1-9 Concrete	AOC-3 1-3 (1.5-2.5')	AOC-3 4-6 (1.5-2.5')	AOC-3 7-9 (1.5-2.5')
Metals, TCLP								
Arsenic	mg/l	5.0	<0.025	<0.025	<0.025	NA	<0.025	NA
Barium	mg/l	100.0	**0.52**	**0.36**	**0.16**	NA	**0.82**	NA
Cadmium	mg/l	1.0	<0.0050	<0.0050	<0.0050	NA	<0.0050	NA
Chromium	mg/l	5.0	<0.025	<0.025	**2.6**	**2.7**	**3.1**	**1.1**
Lead	mg/l	5.0	<0.025	<0.025	<0.025	NA	<0.025	NA
Mercury	mg/l	0.2	<0.20	<0.20	<0.20	NA	<0.20	NA
Selenium	mg/l	1.0	<0.050	<0.050	<0.050	NA	<0.050	NA
Silver	mg/l	5.0	**0.0036**	**0.0039**	**0.002**	NA	**0.0012**	NA
RCRA Characteristics								
pH	S.U.	<2, >12.5	NA	NA	**10.9**	NA	**8.2**	NA
Ignitability	mm/sec	0.8	NA	NA	<0.8	NA	<0.8	NA
Cyanide (Reactive)	mg/kg	250	NA	NA	<1.0	NA	<1.3	NA
Sulfide (Reactive)	mg/kg	250	NA	NA	<10	NA	<13	NA

Notes:

1. Sample designations per Figure 5.
2. Sample nodes that have been composited are noted as such (e.g., 1-9).
3. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.
4. RCRA Regulatory Limit per 40 CFR Section 261.

BOLD values indicate constituent detections.
NA - Parameter not analyzed

Table 2. Soil and Concrete Sample Analytical Results: TCLP Metals RCRA Characteristics

	Units	RCRA Regulatory Limit	AOC-3 1-3 (5-6')	AOC-3 4-6 (5-6')	AOC-3 7-9 (5-6')	AOC-3 3B-1 thru 3B-4 (0-3')	AOC-3 3B-5 thru 3B-8 (0-3')
Metals, TCLP							
Arsenic	mg/l	5.0	NA	NA	<0.025	NA	NA
Barium	mg/l	100.0	NA	NA	**0.66**	NA	NA
Cadmium	mg/l	1.0	NA	NA	<0.0050	NA	NA
Chromium	mg/l	5.0	**1.7**	**2**	**0.45**	**0.078**	**0.25**
Lead	mg/l	5.0	NA	NA	<0.025	NA	NA
Mercury	mg/l	0.2	NA	NA	NA	NA	NA
Selenium	mg/l	1.0	NA	NA	<0.050	NA	NA
Silver	mg/l	5.0	NA	NA	**0.00096**	NA	NA
RCRA Characteristics							
pH	S.U.	<2, >12.5	NA	NA	NA	NA	NA
Ignitability	mm/sec	0.8	NA	NA	NA	NA	NA
Cyanide (Reactive)	mg/kg	250	NA	NA	NA	NA	NA
Sulfide (Reactive)	mg/kg	250	NA	NA	NA	NA	NA

Notes:

1. Sample designations per Figure 5.
2. Sample nodes that have been composited are noted as such (e.g., 1-9).
3. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.
4. RCRA Regulatory Limit per 40 CFR Section 261.

BOLD values indicate constituent detections.
NA - Parameter not analyzed

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
21B-1 (4-6)	< 772	< 772	< 772	< 772	< 772	**5580**	< 772
21B-1 (8-10)	<38.1	<38.1	<38.1	<38.1	<38.1	**47.5**	<38.1
21B-2 (4-6)	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
21B-2 (8-10)	<37.6	<37.6	<37.6	<37.6	<37.6	<37.6	<37.6
AOC-3 1-3 (1.5-2.5)	<42.2	<42.2	<42.2	<42.2	<42.2	**108**	<42.2
AOC-3 4-6 (1.5-2.5)	<42.2	<42.2	<42.2	<42.2	<42.2	**90900**	<42.2
AOC-3 7-9 (1.5-2.5)	<50.4	<50.4	<50.4	<50.4	<50.4	**1370**	<50.4
AOC-3 1-3 (5-6)	<38.3	<38.3	<38.3	<38.3	<38.3	**129**	<38.3
AOC-3 4-6 (5-6)	<40.2	<40.2	<40.2	<40.2	<40.2	**23.3**	<40.2
AOC-3 7-9 (5-6)	<39.7	<39.7	<39.7	<39.7	<39.7	<39.7	<39.7
AOC 13 EAST CONCRETE	<34.3	<34.3	<34.3	<34.3	<34.3	**44.6**	<34.3
B 19-22 (0-1)	<41.6	<41.6	<41.6	<41.6	<41.6	**414**	<41.6
B 19-22 (1-2)	<41.4	<41.4	<41.4	<41.4	<41.4	**652**	<41.4
B 19-22 (2-3)	<39.4	<39.4	<39.4	<39.4	<39.4	**146**	<39.4
B 23-26 (0-1)	<39.0	<39.0	<39.0	<39.0	<39.0	**480**	<39.0
B 23-26 (1-2)	<38.2	<38.2	<38.2	<38.2	<38.2	<38.2	<38.2
B 23-26 (2-3)	<39.6	<39.6	<39.6	<39.6	<39.6	<39.6	<39.6
B 27-30 (0-1)	<37.5	<37.5	<37.5	<37.5	<37.5	**724**	<37.5
B 27-30 (1-2)	<40.4	<40.4	<40.4	<40.4	<40.4	**57.2**	<40.4
B 27-30 (2-3)	<41.2	<41.2	<41.2	<41.2	<41.2	**30.8**	<41.2
B 31-34 (0-1)	<36.5	<36.5	<36.5	<36.5	<36.5	**3710**	<36.5
B 31-34 (1-2)	<41.0	<41.0	<41.0	<41.0	<41.0	**1450**	<41.0
B 31-34 (2-3)	<42.6	<42.6	<42.6	<42.6	<42.6	<42.6	<42.6
B 35-38 (0-1)	<36.8	<36.8	<36.8	<36.8	<36.8	**7180**	<36.8
B 35-38 (1-2)	<38.3	<38.3	<38.3	<38.3	<38.3	**2360**	<38.3
B 35-38 (2-3)	<40.8	<40.8	<40.8	<40.8	<40.8	<40.8	<40.8
B 39 (0-1)	<37.3	<37.3	<37.3	<37.3	<37.3	**112**	<37.3
B 40 (0-1)	<40.6	<40.6	<40.6	<40.6	<40.6	**495**	<40.6
B 41 (0-1)	<36.9	<36.9	<36.9	<36.9	<36.9	**6230**	<36.9
B 39-41 (0-1)	<39.4	<39.4	<39.4	<39.4	<39.4	**2560**	<39.4

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
B 39 (1-2)	<42.2	<42.2	<42.2	<42.2	<42.2	**102**	<42.2
B 40 (1-2)	<1860	<1860	<1860	<1860	<1860	**7510**	<1860
B 41 (1-2)	<39.5	<39.5	<39.5	<39.5	<39.5	**272**	<39.5
B 39-41 (1-2)	<37.1	<37.1	<37.1	<37.1	<37.1	**8560**	<37.1
B 39 (2-3)	<43.5	<43.5	<43.5	<43.5	<43.5	<43.5	<43.5
B 40 (2-3)	<39.0	<39.0	<39.0	<39.0	<39.0	**1620**	<39.0
B 41 (2-3)	<38.6	<38.6	<38.6	<38.6	<38.6	<38.6	<38.6
B 39-41 (2-3)	<41.6	<41.6	<41.6	<41.6	<41.6	**2160**	<41.6
B 39 (3-4)	<41.2	<41.2	<41.2	<41.2	<41.2	**31**	<41.2
B 40 (3-4)	<45.5	<45.5	<45.5	<45.5	<45.5	**88.2**	<45.5
B 41 (3-4)	<38.2	<38.2	<38.2	<38.2	<38.2	**44.9**	<38.2
B 39 (4-5)	<42.1	<42.1	<42.1	<42.1	<42.1	**35.1**	<42.1
B 40 (4-5)	<46.7	<46.7	<46.7	<46.7	<46.7	**34.3**	<46.7
B 41 (4-5)	<39.9	<39.9	<39.9	<39.9	<39.9	**171**	<39.9
C 13 (0-1)	<42.0	<42.0	<42.0	<42.0	<42.0	**1890**	<42.0
C 14 (0-1)	<47.3	<47.3	<47.3	<47.3	<47.3	**772**	<47.3
C 13-14 (0-1)	<37.6	<37.6	<37.6	<37.6	<37.6	**2060**	<37.6
C 13 (1-2)	<37.7	<37.7	<37.7	<37.7	<37.7	**1010**	<37.7
C 14 (1-2)	<38.6	<38.6	<38.6	<38.6	<38.6	**4890**	<38.6
C 13-14 (1-2)	<38.8	<38.8	<38.8	<38.8	<38.8	**3670**	<38.8
C 13 (2-3)	<38.3	<38.3	<38.3	<38.3	<38.3	**2250**	<38.3
C 14 (2-3)	<40.1	<40.1	<40.1	<40.1	<40.1	**5830**	<40.1
C 13-14 (2-3)	<41.7	<41.7	<41.7	<41.7	<41.7	**2270**	<41.7
C 15-18 (0-1)	<33.7	<33.7	<33.7	<33.7	<33.7	**834**	<33.7
C 15 (1-2)	<38.5	<38.5	<38.5	<38.5	<38.5	**737**	<38.5
C 16 (1-2)	<37.3	<37.3	<37.3	<37.3	<37.3	**35000**	<37.3
C 17 (1-2)	<33.8	<33.8	<33.8	<33.8	<33.8	**19.8**	<33.8
C 18 (1-2)	<36.7	<36.7	<36.7	<36.7	<36.7	**1620**	<36.7
C 15-18 (1-2)	<38.0	<38.0	<38.0	<38.0	<38.0	**2950**	<38.0
C 15 (2-3)	<40.7	<40.7	<40.7	<40.7	<40.7	<40.7	<40.7

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
C 16 (2-3)	<38.5	<38.5	<38.5	<38.5	<38.5	**64900**	<38.5
C 17 (2-3)	<39.0	<39.0	<39.0	<39.0	<39.0	**7470**	<39.0
C 18 (2-3)	<39.1	<39.1	<39.1	<39.1	<39.1	**67700**	<39.1
C 15-18 (2-3)	<37.8	<37.8	<37.8	<37.8	<37.8	**10100**	<37.8
C 15 (3-4)	<40.9	<40.9	<40.9	<40.9	<40.9	**21.4**	<40.9
C 16 (3-4)	<37.5	<37.5	<37.5	<37.5	<37.5	**8580**	<37.5
C 17 (3-4)	<40.5	<40.5	<40.5	<40.5	<40.5	**147**	<40.5
C 18 (3-4)	<41.6	<41.6	<41.6	<41.6	<41.6	**33300**	<41.6
C 15 (4-5)	<43.5	<43.5	<43.5	<43.5	<43.5	**23**	<43.5
C 16 (4-5)	<39.6	<39.6	<39.6	<39.6	<39.6	**9870**	<39.6
C 17 (4-5)	<995	<995	<995	<995	<995	**3930**	<995
C 18 (4-5)	<2110	<2110	<2110	<2110	<2110	**7130**	<2110
C 19-22 (0-1)	<33.8	<33.8	<33.8	<33.8	<33.8	**1080**	<33.8
C 19-22 (1-2)	<38.5	<38.5	<38.5	<38.5	<38.5	**26300**	<38.5
C 19-22 (2-3)	<40.1	<40.1	<40.1	<40.1	<40.1	**868**	<40.1
C 23-26 (0-1)	<33.8	<33.8	<33.8	<33.8	<33.8	**1070**	<33.8
C 23-26 (1-2)	<34.9	<34.9	<34.9	<34.9	<34.9	**3360**	<34.9
C 23-26 (2-3)	<43.0	<43.0	<43.0	<43.0	<43.0	**3580**	<43.0
C 27-30 (0-1)	<35.2	<35.2	<35.2	<35.2	<35.2	**5070**	<35.2
C 27-30 (1-2)	<43.6	<43.6	<43.6	<43.6	<43.6	**4530**	<43.6
C 27 (2-3)	<39.9	<39.9	<39.9	<39.9	<39.9	**79.4**	<39.9
C 28 (2-3)	<41.4	<41.4	<41.4	<41.4	<41.4	**9090**	<41.4
C 29 (2-3)	<7080	<7080	<7080	<7080	<7080	**16900**	<7080
C 30 (2-3)	<3930	<3930	<3930	<3930	<3930	**26400**	<3930
C 27-30 (2-3)	<42.0	<42.0	<42.0	<42.0	<42.0	**24700**	<42.0
C 27-30 (3-4)	<10900	<10900	<10900	<10900	<10900	**61500**	<10900
C 27-30 (4-5)	<40.8	<40.8	<40.8	<40.8	<40.8	**4580**	<40.8
C 31-34 (0-1)	<37.7	<37.7	<37.7	<37.7	<37.7	**106000**	<37.7
C 31-34 (1-2)	<38.9	<38.9	<38.9	<38.9	<38.9	**17800**	<38.9
C 31 (2-3)	<46.6	<46.6	<46.6	<46.6	<46.6	**64500**	<46.6

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
C 32 (2-3)	<49.0	<49.0	<49.0	<49.0	<49.0	**384**	<49.0
C 33 (2-3)	<35.0	<35.0	<35.0	<35.0	<35.0	**450**	<35.0
C 34 (2-3)	<40.6	<40.6	<40.6	<40.6	<40.6	**20.4**	<40.6
C 31-34 (2-3)	<39.3	<39.3	<39.3	<39.3	<39.3	**13100**	<39.3
C 31-34 (3-4)	<44.6	<44.6	<44.6	<44.6	<44.6	**1910**	<44.6
C 31-34 (4-5)	<42.1	<42.1	<42.1	<42.1	<42.1	**121**	<42.1
C 35-38 (0-1)	<35.3	<35.3	<35.3	<35.3	<35.3	**2110**	<35.3
C 35-38 (1-2)	<43.4	<43.4	<43.4	<43.4	<43.4	**27300**	<43.4
C 35-38 (2-3)	<44.3	<44.3	<44.3	<44.3	<44.3	**266**	<44.3
C 39 (0-1)	<39.7	<39.7	<39.7	<39.7	<39.7	**178**	<39.7
C 40 (0-1)	<35.9	<35.9	<35.9	<35.9	<35.9	**172**	<35.9
C 41 (0-1)	<37.6	<37.6	<37.6	<37.6	<37.6	**432000**	<37.6
C 42 (0-1)	<43.4	<43.4	<43.4	<43.4	<43.4	**3110**	<43.4
C 39-42 (0-1)	<38.6	<38.6	<38.6	<38.6	<38.6	**2580**	<38.6
C 39 (1-2)	<882	<882	<882	<882	<882	**1110**	<882
C 40 (1-2)	<8910	<8910	<8910	<8910	<8910	**37200**	<8910
C 41 (1-2)	<44.0	<44.0	<44.0	<44.0	<44.0	**81.6**	<44.0
C 42 (1-2)	<42.2	<42.2	<42.2	<42.2	<42.2	**945**	<42.2
C 39-42 (1-2)	<41.2	<41.2	<41.2	<41.2	<41.2	**3450**	<41.2
C 39 (2-3)	<50.2	<50.2	<50.2	<50.2	<50.2	**24.6**	<50.2
C 40 (2-3)	<1800	<1800	<1800	<1800	<1800	**4610**	<1800
C 41 (2-3)	<43.8	<43.8	<43.8	<43.8	<43.8	<43.8	<43.8
C 42 (2-3)	<41.1	<41.1	<41.1	<41.1	<41.1	**4600**	<41.1
C 39-42 (2-3)	<44.5	<44.5	<44.5	<44.5	<44.5	**10600**	<44.5
C 39 (3-4)	<40.8	<40.8	<40.8	<40.8	<40.8	<40.8	<40.8
C 40 (3-4)	<46.0	<46.0	<46.0	<46.0	<46.0	**22**	<46.0
C 41 (3-4)	<42.5	<42.5	<42.5	<42.5	<42.5	<42.5	<42.5
C 42 (3-4)	<44.1	<44.1	<44.1	<44.1	<44.1	**591**	<44.1
C 39 (4-5)	<40.6	<40.6	<40.6	<40.6	<40.6	<40.6	<40.6
C 40 (4-5)	<42.8	<42.8	<42.8	<42.8	<42.8	**30.6**	<42.8

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
C 41 (4-5)	<43.1	<43.1	<43.1	<43.1	<43.1	<43.1	<43.1
C 42 (4-5)	<44.8	<44.8	<44.8	<44.8	<44.8	**144**	<44.8
D-12 (1-2)	<38.3	<38.3	<38.3	<38.3	<38.3	**357**	<38.3
DE-12 E-13 (3-4)	<41.2	<41.2	<41.2	<41.2	<41.2	**41.1**	<41.2
DE-12 E-13 (4-5)	<41.1	<41.1	<41.1	<41.1	<41.1	**34.2**	<41.1
D-14 (1-2)	<46.5	<46.5	<46.5	<46.5	<46.5	**5050**	<46.5
D-15 (1-2)	<42.5	<42.5	<42.5	<42.5	<42.5	**29.4**	<42.5
DE 14-15 (3-4)	<43.3	<43.3	<43.3	<43.3	<43.3	**3100**	<43.3
DE 14-15 (4-5)	<44.4	<44.4	<44.4	<44.4	<44.4	**45**	<44.4
D-16 (1-2)	< 35.2	< 35.2	< 35.2	< 35.2	< 35.2	**12700**	< 35.2
D-17 (1-2)	< 35.8	< 35.8	< 35.8	< 35.8	< 35.8	**27.9**	< 35.8
E-16 (1-2)	< 38.2	< 38.2	< 38.2	< 38.2	< 38.2	**363**	< 38.2
E-17 (1-2)	< 41.8	< 41.8	< 41.8	< 41.8	< 41.8	**412**	< 41.8
DE 16-17 (3-4)	< 38.9	< 38.9	< 38.9	< 38.9	< 38.9	**7050**	< 38.9
DE 16-17 (4-5)	< 38.4	< 38.4	< 38.4	< 38.4	< 38.4	**31800**	< 38.4
DE 16-17 (5-6)	<41.2	<41.2	<41.2	<41.2	<41.2	**41.6**	<41.2
DE 16-17 (6-7)	<44.8	<44.8	<44.8	<44.8	<44.8	**12500**	<44.8
DE 16-17 (7-8)	<44.2	<44.2	<44.2	<44.2	<44.2	**104**	<44.2
D-18 (1-2)	<43.6	<43.6	<43.6	<43.6	<43.6	**395**	<43.6
D-19 (1-2)	<42.0	<42.0	<42.0	<42.0	<42.0	**178**	<42.0
E-18 (1-2)	<42.0	<42.0	<42.0	<42.0	<42.0	**9230**	<42.0
E-19 (1-2)	<44.0	<44.0	<44.0	<44.0	<44.0	**21.7**	<44.0
DE 18-19 (3-4)	<41.7	<41.7	<41.7	<41.7	<41.7	**15200**	<41.7
DE 18-19 (4-5)	<42.2	<42.2	<42.2	<42.2	<42.2	**24200**	<42.2
DE 18-19 (5-6)	<43.2	<43.2	<43.2	<43.2	<43.2	**2880**	<43.2
D-20 (1-2)	<40.2	<40.2	<40.2	<40.2	<40.2	**6530**	<40.2
D-20 (3-4)	<41.0	<41.0	<41.0	<41.0	<41.0	**191000**	<41.0
D-20 (4-5)	<43.3	<43.3	<43.3	<43.3	<43.3	**141**	<43.3
D-21 (1.5-2.5)	<40.1	<40.1	<40.1	<40.1	<40.1	**440**	<40.1
D-21 (5.5-6.5)	<38.8	<38.8	<38.8	<38.8	<38.8	<38.8	<38.8

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
D-22 (1.5-2.5)	<43.2	<43.2	<43.2	<43.2	<43.2	**6320**	<43.2
D-22 (5.5-6.5)	<40.7	<40.7	<40.7	<40.7	<40.7	**2830**	<40.7
D-23 (1.5-2.5)	<44.1	<44.1	<44.1	<44.1	<44.1	<44.1	<44.1
D-23 (5.5-6.5)	<39.1	<39.1	<39.1	<39.1	<39.1	**10500**	<39.1
D21-23 (7.5-8.5)	<43.3	<43.3	<43.3	<43.3	<43.3	**566**	<43.3
D21-23 (8.5-9.5)	<41.8	<41.8	<41.8	<41.8	<41.8	**142**	<41.8
D-24 (1.5-2.5)	<42.1	<42.1	<42.1	<42.1	<42.1	**399**	<42.1
D-24 (5.5-6.5)	<39.6	<39.6	<39.6	<39.6	<39.6	**290**	<39.6
D-25 (1.5 - 2.5)	<42.3	<42.3	<42.3	<42.3	<42.3	**43000**	<42.3
D-25 (5.5-6.5)	<38.2	<38.2	<38.2	<38.2	<38.2	**547**	<38.2
DE 24-25 (7.5-8.5)	<41.1	<41.1	<41.1	<41.1	<41.1	**1650**	<41.1
DE 24-25 (8.5-9.5)	<42.4	<42.4	<42.4	<42.4	<42.4	**3180**	<42.4
D 26-29 (1.5-2.5)	<42.3	<42.3	<42.3	<42.3	<42.3	**24400**	<42.3
D 26-29 (3.5-4.5)	<42.5	<42.5	<42.5	<42.5	<42.5	**127000**	<42.5
D 26-29 (4.5-5.5)	<41.7	<41.7	<41.7	<41.7	<41.7	**43300**	<41.7
D 26-29 (5.5-6.5)	<44.4	<44.4	<44.4	<44.4	<44.4	**314**	<44.4
D 30-33 (1.5-2.5)	<43.9	<43.9	<43.9	<43.9	<43.9	**278**	<43.9
D 30-33 (3.5-4.5)	<39.5	<39.5	<39.5	<39.5	<39.5	**68500**	<39.5
D 30-33 (4.5-5.5)	<42.0	<42.0	<42.0	<42.0	<42.0	**740**	<42.0
D 30-33 (5.5-6.5)	<39.7	<39.7	<39.7	<39.7	<39.7	<39.7	<39.7
D 34-36 (1.5-2.5)	<44.5	<44.5	<44.5	<44.5	<44.5	**2910**	<44.5
D 34-36 (3.5-4.5)	<40.1	<40.1	<40.1	<40.1	<40.1	**111000**	<40.1
D 34-36 (4.5-5.5)	<41.5	<41.5	<41.5	<41.5	<41.5	**41.2**	<41.5
D 34-36 (5.5-6.5)	<41.3	<41.3	<41.3	<41.3	<41.3	<41.3	<41.3
D 37-39 (1.5-2.5)	<43.8	<43.8	<43.8	<43.8	<43.8	<43.8	<43.8
D 37-39 (3.5-4.5)	<42.6	<42.6	<42.6	<42.6	<42.6	**75000**	<42.6
D 37-39 (4.5-5.5)	<43.9	<43.9	<43.9	<43.9	<43.9	**8640**	<43.9
D 37-39 (5.5-6.5)	<46.2	<46.2	<46.2	<46.2	<46.2	**140**	<46.2
D 40 (0-1)	<20700	<20700	<20700	<20700	<20700	**90200**	<20700
D 42 (0-1)	<41.4	<41.4	<41.4	<41.4	<41.4	**504**	<41.4

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
D 40 D 42 (0-1)	<38.3	<38.3	<38.3	<38.3	<38.3	**73100**	<38.3
D 40 (1-2)	<7480	<7480	<7480	<7480	<7480	**33900**	<7480
D 42 (1-2)	<42.7	<42.7	<42.7	<42.7	<42.7	**58.3**	<42.7
D 40 D 42 (1-2)	<41.6	<41.6	<41.6	<41.6	<41.6	**4010**	<41.6
D 40 (2-3)	<37.3	<37.3	<37.3	<37.3	<37.3	**19400**	<37.3
D 42 (2-3)	<44.5	<44.5	<44.5	<44.5	<44.5	**44.5**	<44.5
D 40 D 42 (2-3)	<41.3	<41.3	<41.3	<41.3	<41.3	**7350**	<41.3
D 40 (3-4)	<3740	<3740	<3740	<3740	<3740	**11900**	<3740
D 42 (3-4)	<42.8	<42.8	<42.8	<42.8	<42.8	<42.8	<42.8
D 40 (4-5)	<38.7	<38.7	<38.7	<38.7	<38.7	**402**	<38.7
D 42 (4-5)	<36.9	<36.9	<36.9	<36.9	<36.9	<36.9	<36.9
E-11 (1-2)	<41.2	<41.2	<41.2	<41.2	<41.2	**208**	<41.2
E-12 (1-2)	<38.8	<38.8	<38.8	<38.8	<38.8	**224**	<38.8
E-11 (3-4)	<41.8	<41.8	<41.8	<41.8	<41.8	**46.9**	<41.8
E-11 (4-5)	<37.3	<37.3	<37.3	<37.3	<37.3	**145**	<37.3
E-13 (1-2)	<41.7	<41.7	<41.7	<41.7	<41.7	**2120**	<41.7
E-14 (1-2)	<39.6	<39.6	<39.6	<39.6	<39.6	**594**	<39.6
E-15 (1-2)	<38.9	<38.9	<38.9	<38.9	<38.9	**31**	<38.9
E-20 (1.5-2.5)	<43.7	<43.7	<43.7	<43.7	<43.7	**14800**	<43.7
E-20 (5.5-6.5)	<43.0	<43.0	<43.0	<43.0	<43.0	**1830**	<43.0
E-20 (7.5-8.5)	<46.9	<46.9	<46.9	<46.9	<46.9	<46.9	<46.9
E-21 (1.5-2.5)	<42.3	<42.3	<42.3	<42.3	<42.3	**11300**	<42.3
E-21 (5.5-6.5)	<36.5	<36.5	<36.5	<36.5	<36.5	**4910**	<36.5
E-22 (1.5-2.5)	<42.3	<42.3	<42.3	<42.3	<42.3	**6270**	<42.3
E-22 (5.5-6.5)	<36.6	<36.6	<36.6	<36.6	<36.6	**11000**	<36.6
E-23 (1.5-2.5)	<45.3	<45.3	<45.3	<45.3	<45.3	**25.7**	<45.3
E-23 (5.5-6.5)	<43.2	<43.2	<43.2	<43.2	<43.2	**23300**	<43.2
E21-23 (7.5-8.5)	<43.7	<43.7	<43.7	<43.7	<43.7	**3400**	<43.7
E21-23 (8.5-9.5)	<39.4	<39.4	<39.4	<39.4	<39.4	**526**	<39.4
E-24 (1.5-2.5)	<42.1	<42.1	<42.1	<42.1	<42.1	**560**	<42.1

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
E-24 (5.5-6.5)	<38.4	<38.4	<38.4	<38.4	<38.4	**20800**	<38.4
E-25 (1.5-2.5)	<42.0	<42.0	<42.0	<42.0	<42.0	**117**	<42.0
E-25 (5.5-6.5)	<38.6	<38.6	<38.6	<38.6	<38.6	**2910**	<38.6
E 26-29 (1.5-2.5)	<41.1	<41.1	<41.1	<41.1	<41.1	**20700**	<41.1
E 26-29 (3.5-4.5)	<43.2	<43.2	<43.2	<43.2	<43.2	**144000**	<43.2
E 26-29 (4.5-5.5)	<44.9	<44.9	<44.9	<44.9	<44.9	**50500**	<44.9
E 26-29 (5.5-6.5)	<45.8	<45.8	<45.8	<45.8	<45.8	**3120**	<45.8
E 30-33 (1.5-2.5)	<42.8	<42.8	<42.8	<42.8	<42.8	**141**	<42.8
E 30-33 (3.5-4.5)	<44.6	<44.6	<44.6	<44.6	<44.6	**39000**	<44.6
E 30-33 (4.5-5.5)	<45.7	<45.7	<45.7	<45.7	<45.7	**82200**	<45.7
E 30-33 (5.5-6.5)	<46.5	<46.5	<46.5	<46.5	<46.5	**13000**	<46.5
E 30-33 (6.5-7.5)	<42.2	<42.2	<42.2	<42.2	<42.2	**31.5**	<42.2
E 30-33 (7.5-8.5)	<46.0	<46.0	<46.0	<46.0	<46.0	**28.2**	<46.0
E 34 -36 (1.5-2.5)	<44.5	<44.5	<44.5	<44.5	<44.5	**110**	<44.5
E 34 -36 (3.5-4.5)	<43.6	<43.6	<43.6	<43.6	<43.6	**13700**	<43.6
E 34 -36 (4.5-5.5)	<42.0	<42.0	<42.0	<42.0	<42.0	**35100**	<42.0
E 34 -36 (5.5-6.5)	<44.1	<44.1	<44.1	<44.1	<44.1	**837**	<44.1
E 37-39 (1.5-2.5)	<44.5	<44.5	<44.5	<44.5	<44.5	**41**	<44.5
E 37-39 (3.5-4.5)	<44.9	<44.9	<44.9	<44.9	<44.9	**24.9**	<44.9
E 37-39 (4.5-5.5)	<42.6	<42.6	<42.6	<42.6	<42.6	**36.5**	<42.6
E 37-39 (5.5-6.5)	<43.0	<43.0	<43.0	<43.0	<43.0	<43.0	<43.0
F 10-13 (0-0.5)	<36.6	<36.6	<36.6	<36.6	<36.6	**249**	<36.6
F 10-13 (0.5-1.5)	<38.6	<38.6	<38.6	<38.6	<38.6	**1770**	<38.6
F 10-13 (1.5-2.5)	<40.0	<40.0	<40.0	<40.0	<40.0	**577**	<40.0
F 10-13 (2.5-3.5)	<39.9	<39.9	<39.9	<39.9	<39.9	**954**	<39.9
F-14 (0.5-1.5)	<39.1	<39.1	<39.1	<39.1	<39.1	**13100**	<39.1
F-15 (0.5-1.5)	<40.8	<40.8	<40.8	<40.8	<40.8	**21300**	<40.8
F-16 (0.5-1.5)	<38.3	<38.3	<38.3	<38.3	<38.3	**42900**	<38.3
F-17 (0.5-1.5)	<36.4	<36.4	<36.4	<36.4	<36.4	<36.4	<36.4
F 14-17 (0-0.5)	<34.3	<34.3	<34.3	<34.3	<34.3	<34.3	<34.3

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
F 14-17 (0.5-1.5)	<40.8	<40.8	<40.8	<40.8	<40.8	**57700**	<40.8
F 14-17 (1.5-2.5)	<40.1	<40.1	<40.1	<40.1	<40.1	**4530**	<40.1
F 14-17 (2.5-3.5)	<43.5	<43.5	<43.5	<43.5	<43.5	**1930**	<43.5
F-18 (0-2)	<4080	<4080	<4080	<4080	<4080	**65500**	<4080
F-18 (2-4)	<42.9	<42.9	<42.9	<42.9	<42.9	**282**	<42.9
F-19 (0-2)	<19900	<19900	<19900	<19900	<19900	**56200**	<19900
F-19 (2-4)	<42.3	<42.3	<42.3	<42.3	<42.3	**205**	<42.3
FG-9 (0-2)	<36.9	<36.9	<36.9	<36.9	<36.9	**69.6**	<36.9
FG-9 (2-4)	<38.4	<38.4	<38.4	<38.4	<38.4	**48.3**	<38.4
FG-9 (4-6)	<39.1	<39.1	<39.1	<39.1	<39.1	**275**	<39.1
FG-9 (6-8)	<39.7	<39.7	<39.7	<39.7	<39.7	**336**	<39.7
FG 18-19 (0-2)	<40.5	<40.5	<40.5	<40.5	<40.5	**88600**	<40.5
FG 18-19 (2-4)	<42.2	<42.2	<42.2	<42.2	<42.2	**9610**	<42.2
FG 18-19 (4-6)	<43.3	<43.3	<43.3	<43.3	<43.3	**29.7**	<43.3
FG 18-19 (6-8)	<39.5	<39.5	<39.5	<39.5	<39.5	<39.5	<39.5
F20-23 (1-2)	<41.5	<41.5	<41.5	<41.5	<41.5	**9570**	<41.5
F20-23 (3-4)	<41.9	<41.9	<41.9	<41.9	<41.9	**27300**	<41.9
F20-23 (4-5)	<42.7	<42.7	<42.7	<42.7	<42.7	**9510**	<42.7
F20-23 (5-6)	<42.1	<42.1	<42.1	<42.1	<42.1	**572**	<42.1
F27-30 (0-0.5)	<34.2	<34.2	<34.2	<34.2	<34.2	**2880**	<34.2
F27-30 (1.5-2.5)	<46.5	<46.5	<46.5	<46.5	<46.5	**5530**	<46.5
F27-30 (3.5-4.5)	<45.1	<45.1	<45.1	<45.1	<45.1	**4760**	<45.1
F27-30 (4.5-5.5)	<45.9	<45.9	<45.9	<45.9	<45.9	**501**	<45.9
F27-30 (5.5-6.5)	<43.5	<43.5	<43.5	<43.5	<43.5	**3500**	<43.5
F27-30 (6.5-7.5)	<41.8	<41.8	<41.8	<41.8	<41.8	<41.8	<41.8
F27-30 (7.5-8.5)	<41.0	<41.0	<41.0	<41.0	<41.0	<41.0	<41.0
G10, 12, 13 (0-0.5)	<34.9	<34.9	<34.9	<34.9	<34.9	**4460**	<34.9
G10-13 (0.5-1.5)	<39.5	<39.5	<39.5	<39.5	<39.5	**4110**	<39.5
G10-13 (1.5-2.5)	<37.4	<37.4	<37.4	<37.4	<37.4	**104**	<37.4
G10-13 (2.5-3.5)	<41.4	<41.4	<41.4	<41.4	<41.4	**7520**	<41.4

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
G-14 (0.5-1.5)	<38.4	<38.4	<38.4	<38.4	<38.4	**2710**	<38.4
G-15 (0.5-1.5)	<36.7	<36.7	<36.7	<36.7	<36.7	**13400**	<36.7
G-16 (0.5-1.5)	<39.7	<39.7	<39.7	<39.7	<39.7	**20600**	<39.7
G-17 (0.5-1.5)	<37.1	<37.1	<37.1	<37.1	<37.1	**174000**	<37.1
G14-17 (0-0.5)	<35.4	<35.4	<35.4	<35.4	<35.4	**11100**	<35.4
G14-17 (0.5-1.5)	<38.1	<38.1	<38.1	<38.1	<38.1	**135000**	<38.1
G14-17 (1.5-2.5)	<43.0	<43.0	<43.0	<43.0	<43.0	**34000**	<43.0
G14-17 (2.5-3.5)	<41.2	<41.2	<41.2	<41.2	<41.2	**524**	<41.2
G-18 (0-2)	<7960	<7960	<7960	<7960	<7960	**44200**	<7960
G-18 (2-4)	<19800	<19800	<19800	<19800	<19800	**87200**	<19800
G-19 (0-2)	<4090	<4090	<4090	<4090	<4090	**22300**	<4090
G-19 (2-4)	<38.4	<38.4	<38.4	<38.4	<38.4	**66.1**	<38.4
GM 20-23 (0-0.5)	<33.6	<33.6	<33.6	<33.6	<33.6	**29**	<33.6
G 20-23 (1-2)	<41.3	<41.3	<41.3	<41.3	<41.3	**10600**	<41.3
G 20-23 (3-4)	<39.5	<39.5	<39.5	<39.5	<39.5	**4540**	<39.5
G 20-23 (4-5)	<43.3	<43.3	<43.3	<43.3	<43.3	**268**	<43.3
G 20-23 (5-6)	<41.1	<41.1	<41.1	<41.1	<41.1	**106**	<41.1
H-10 (0.5-1.5)	<48.1	<48.1	<48.1	<48.1	<48.1	**39.6**	<48.1
H-11 (0.5-1.5)	<8100	<8100	<8100	<8100	<8100	**44000**	<8100
H-12 (0.5-1.5)	<8040	<8040	<8040	<8040	<8040	**47800**	<8040
H-13 (0.5-1.5)	<4030	<4030	<4030	<4030	<4030	**26500**	<4030
H10-13 (0-0.5)	<35.4	<35.4	<35.4	<35.4	<35.4	**914**	<35.4
H10-13 (0.5-1.5)	<40.8	<40.8	<40.8	<40.8	<40.8	**78100**	<40.8
H10-13 (1.5-2.5)	<38.5	<38.5	<38.5	<38.5	<38.5	**2920**	<38.5
H10-13 (2.5-3.5)	<39.8	<39.8	<39.8	<39.8	<39.8	**125**	<39.8
H-14 (0.5-1.5)	<34.5	<34.5	<34.5	<34.5	<34.5	<34.5	<34.5
H-15 (0.5-1.5)	<78800	<78800	<78800	<78800	<78800	**223000**	<78800
H-16 (0.5-1.5)	<71700	<71700	<71700	<71700	<71700	**156000**	<71700
H-17 (0.5-1.5)	<2240	<2240	<2240	<2240	<2240	**14200**	<2240
H14-17 (0-0.5)	<34.5	<34.5	<34.5	<34.5	<34.5	**6440**	<34.5

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
H14-17 (0.5-1.5)	<40.5	<40.5	<40.5	<40.5	<40.5	**296000**	<40.5
H14-17 (1.5-2.5)	<41.5	<41.5	<41.5	<41.5	<41.5	**13500**	<41.5
H14-17 (2.5-3.5)	<42.6	<42.6	<42.6	<42.6	<42.6	**4690**	<42.6
H 18-19 (0-2)	<45.9	<45.9	<45.9	<45.9	<45.9	**837**	<45.9
H 18-19 (2-4)	<44.5	<44.5	<44.5	<44.5	<44.5	**88.9**	<44.5
H 18-19 (4-6)	<43.2	<43.2	<43.2	<43.2	<43.2	**34.4**	<43.2
H 18-19 (6-8)	<44.0	<44.0	<44.0	<44.0	<44.0	**98.4**	<44.0
H 20-23 (1-2)	<41.7	<41.7	<41.7	<41.7	<41.7	**48600**	<41.7
H 20-23 (3-4)	<38.5	<38.5	<38.5	<38.5	<38.5	**12800**	<38.5
H 20-23 (4-5)	<40.7	<40.7	<40.7	<40.7	<40.7	**1590**	<40.7
H 20-23 (5-6)	<40.6	<40.6	<40.6	<40.6	<40.6	**1550**	<40.6
I-8 (20-21)	<39.5	<39.5	<39.5	<39.5	<39.5	<39.5	<39.5
I-10 (0.5-1.5)	<38.0	<38.0	<38.0	<38.0	<38.0	<38.0	<38.0
I-11 (0.5-1.5)	<1160	<1160	<1160	<1160	<1160	**5470**	<1160
I-12 (0.5-1.5)	<76000	<76000	<76000	<76000	<76000	**736000**	<76000
I-13 (0.5-1.5)	<3980	<3980	<3980	<3980	<3980	**65900**	<3980
I 10-13 (0-0.5)	<37.3	<37.3	<37.3	<37.3	<37.3	**38500**	<37.3
I 10-13 (0.5-1.5)	<39.5	<39.5	<39.5	<39.5	<39.5	**52100**	<39.5
I 10-13 (1.5-2.5)	<39.0	<39.0	<39.0	<39.0	<39.0	**290**	<39.0
I 10-13 (2.5-3.5)	<44.3	<44.3	<44.3	<44.3	<44.3	**166**	<44.3
I-13 (12-13)	<41.0	<41.0	<41.0	<41.0	<41.0	<41.0	<41.0
I 14-17 (0-0.5)	<36.9	<36.9	<36.9	<36.9	<36.9	**43200**	<36.9
I 14-17 (0.5-1.5)	<38.5	<38.5	<38.5	<38.5	<38.5	**7910**	<38.5
I 14-17 (1.5-2.5)	<39.2	<39.2	<39.2	<39.2	<39.2	**337**	<39.2
I 14-17 (2.5-3.5)	<40.2	<40.2	<40.2	<40.2	<40.2	**1020**	<40.2
I 18-19 (0-2)	<42.0	<42.0	<42.0	<42.0	<42.0	**84.2**	<42.0
I 18-19 (2-4)	<42.3	<42.3	<42.3	<42.3	<42.3	**114**	<42.3
I 18-19 (4-6)	<43.1	<43.1	<43.1	<43.1	<43.1	**23.1**	<43.1
I 18-19 (6-8)	<42.6	<42.6	<42.6	<42.6	<42.6	<42.6	<42.6
I 20-23 (1-2)	<41.5	<41.5	<41.5	<41.5	<41.5	**14400**	<41.5

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
I 20-23 (3-4)	<39.3	<39.3	<39.3	<39.3	<39.3	**198**	<39.3
I 20-23 (4-5)	<42.0	<42.0	<42.0	<42.0	<42.0	**92.7**	<42.0
I 20-23 (5-6)	<42.6	<42.6	<42.6	<42.6	<42.6	<42.6	<42.6
JK 18-19 (0-2)	<39.0	<39.0	<39.0	<39.0	<39.0	**5180**	<39.0
J-18 (0-2)	<2060	<2060	<2060	<2060	<2060	**6510**	<2060
J-19 (0-2)	<36.3	<36.3	<36.3	<36.3	<36.3	**35.6**	<36.3
K-18 (0-2)	<1710	<1710	<1710	<1710	<1710	**13200**	<1710
K-19 (0-2)	<724	<724	<724	<724	<724	**3650**	<724
JK 18-19 (2-4)	<41.7	<41.7	<41.7	<41.7	<41.7	**131**	<41.7
JK 18-19 (4-6)	<42.5	<42.5	<42.5	<42.5	<42.5	<42.5	<42.5
JK 18-19 (6-8)	<42.8	<42.8	<42.8	<42.8	<42.8	**30.7**	<42.8
J 10-13 (0-0.5)	<38.3	<38.3	<38.3	<38.3	<38.3	**3510**	<38.3
J 10-13 (0.5-1.5)	<39.3	<39.3	<39.3	<39.3	<39.3	**3460**	<39.3
J 10-13 (1.5-2.5)	<39.9	<39.9	<39.9	<39.9	<39.9	**384**	<39.9
J 10-13 (2.5-3.5)	<38.8	<38.8	<38.8	<38.8	<38.8	**130**	<38.8
J 14-17 (0-0.5)	<39.1	<39.1	<39.1	<39.1	<39.1	**31100**	<39.1
J 14-17 (0.5-1.5)	<35.1	<35.1	<35.1	<35.1	<35.1	**33100**	<35.1
J 14-17 (1.5-2.5)	<42.8	<42.8	<42.8	<42.8	<42.8	**3420**	<42.8
J 14-17 (2.5-3.5)	<39.4	<39.4	<39.4	<39.4	<39.4	**9370**	<39.4
J 20-23 (1-2)	<42.4	<42.4	<42.4	<42.4	<42.4	**2680**	<42.4
J 20-23 (3-4)	<40.8	<40.8	<40.8	<40.8	<40.8	**418**	<40.8
J 20-23 (4-5)	<40.7	<40.7	<40.7	<40.7	<40.7	**28**	<40.7
J 20-23 (5-6)	<42.4	<42.4	<42.4	<42.4	<42.4	<42.4	<42.4
K 10-13 (0-0.5)	<40.5	<40.5	<40.5	<40.5	<40.5	**822**	<40.5
K 10-13 (0.5-1.5)	<41.0	<41.0	<41.0	<41.0	<41.0	**759**	<41.0
K 10-13 (1.5-2.5)	<42.4	<42.4	<42.4	<42.4	<42.4	**89.9**	<42.4
K 10-13 (2.5-3.5)	<40.6	<40.6	<40.6	<40.6	<40.6	**73.3**	<40.6
K 14-17 (0-0.5)	<37.6	<37.6	<37.6	<37.6	<37.6	**632**	<37.6
K 14-17 (0.5-1.5)	<38.8	<38.8	<38.8	<38.8	<38.8	**16800**	<38.8
K 14-17 (1.5-2.5)	<38.9	<38.9	<38.9	<38.9	<38.9	**14700**	<38.9

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
K 14-17 (2.5-3.5)	<39.1	<39.1	<39.1	<39.1	<39.1	**1680**	<39.1
HIJ-7 (0-2)	<36.1	<36.1	<36.1	<36.1	<36.1	**769**	<36.1
HIJ-7 (2-4)	<38.3	<38.3	<38.3	<38.3	<38.3	**158**	<38.3
HIJ-7 (4-6)	<75900	<75900	<75900	<75900	<75900	**97500**	<75900
HIJ-7 (6-7)	<36.3	<36.3	<36.3	<36.3	<36.3	**16000**	<36.3
HIJ-8 (0-2)	<35.6	<35.6	<35.6	<35.6	<35.6	**106000**	<35.6
HIJ-8 (2-4)	<39.3	<39.3	<39.3	<39.3	<39.3	**608000**	<39.3
HIJ-8 (4-6)	<42.0	<42.0	<42.0	<42.0	<42.0	**142000**	<42.0
HIJ-8 (6-8)	<40.2	<40.2	<40.2	<40.2	<40.2	**175000**	<40.2
HIJK-9 (0-0.5)	<34.3	<34.3	<34.3	<34.3	<34.3	**21**	<34.3
HIJK-9 (0.5-1.5)	<38.1	<38.1	<38.1	<38.1	<38.1	**161**	<38.1
HIJK-9 (1.5-2.5)	<37.7	<37.7	<37.7	<37.7	<37.7	**57100**	<37.7
HIJK-9 (2.5-3.5)	<40.6	<40.6	<40.6	<40.6	<40.6	**96400**	<40.6
H-7 (4-6)	<3570	<3570	<3570	<3570	<3570	**27300**	<3570
H-7 (8-10)	<1980	<1980	<1980	<1980	<1980	**11200**	<1980
H-8 (0-2)	<177	<177	<177	<177	<177	**667**	<177
H-8 (2-4)	<19300	<19300	<19300	<19300	<19300	**295000**	<19300
H-8 (4-6)	<19000	<19000	<19000	<19000	<19000	**375000**	<19000
H-8 (6-8)	<20100	<20100	<20100	<20100	<20100	**180000**	<20100
H-8 (8-10)	<4230	<4230	<4230	<4230	<4230	**42400**	<4230
H-9 (1.5-2.5)	<37.2	<37.2	<37.2	<37.2	<37.2	**24.7**	<37.2
I-7 (4-6)	<3820	<3820	<3820	<3820	<3820	**12200**	<3820
I-7 (8-10)	<187	<187	<187	<187	<187	**854**	<187
I-8 (0-2)	<198	<198	<198	<198	<198	**1090**	<198
I-8 (2-4)	<187	<187	<187	<187	<187	**257**	<187
I-8 (4-6)	<20300	<20300	<20300	<20300	<20300	**205000**	<20300
I-8 (6-8)	<20500	<20500	<20500	<20500	<20500	**182000**	<20500
I-8 (8-10)	<3470	<3470	<3470	<3470	<3470	**11600**	<3470
I-9 (1.5-2.5)	<38.2	<38.2	<38.2	<38.2	<38.2	**128000**	<38.2
J-7 (4-6)	<4470	<4470	<4470	<4470	<4470	**16500**	<4470

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
J-7 (8-10)	<37.7	<37.7	<37.7	<37.7	<37.7	**301**	<37.7
J-8 (0-2)	<1920	<1920	<1920	<1920	<1920	**9790**	<1920
J-8 (2-4)	<19700	<19700	<19700	<19700	<19700	**229000**	<19700
J-8 (4-6)	<19800	<19800	<19800	<19800	<19800	**275000**	<19800
J-8 (6-8)	<3580	<3580	<3580	<3580	<3580	**15900**	<3580
J-8 (8-10)	<40.8	<40.8	<40.8	<40.8	<40.8	**263**	<40.8
J-9 (1.5-2.5)	<38.4	<38.4	<38.4	<38.4	<38.4	**27100**	<38.4
K-9 (1.5-2.5)	<39.2	<39.2	<39.2	<39.2	<39.2	**151000**	<39.2
H-9 (2.5-3.5)	<38.6	<38.6	<38.6	<38.6	<38.6	**48900**	<38.6
I-9 (2.5-3.5)	<37.2	<37.2	<37.2	<37.2	<37.2	**179000**	<37.2
J-9 (2.5-3.5)	<39.2	<39.2	<39.2	<39.2	<39.2	**256000**	<39.2
K-9 (2.5-3.5)	<40.9	<40.9	<40.9	<40.9	<40.9	**183000**	<40.9
H-9 (3.5-4.5)	<38.6	<38.6	<38.6	<38.6	<38.6	**21.8**	<38.6
I-9 (3.5-4.5)	<38.7	<38.7	<38.7	<38.7	<38.7	**46.9**	<38.7
J-9 (3.5-4.5)	<38.3	<38.3	<38.3	<38.3	<38.3	**266**	<38.3
K-9 (3.5-4.5)	<37.4	<37.4	<37.4	<37.4	<37.4	**213**	<37.4
K 20-23 (1-2)	<37.0	<37.0	<37.0	<37.0	<37.0	**268**	<37.0
K 20-23 (3-4)	<41.0	<41.0	<41.0	<41.0	<41.0	<41.0	<41.0
K 20-23 (4-5)	<43.4	<43.4	<43.4	<43.4	<43.4	<43.4	<43.4
K 20-23 (5-6)	<42.0	<42.0	<42.0	<42.0	<42.0	<42.0	<42.0
L10-13 (0-0.5)	<34.6	<34.6	<34.6	<34.6	<34.6	**1460**	<34.6
L10-13 (0.5-1.5)	<37.2	<37.2	<37.2	<37.2	<37.2	**605**	<37.2
L10-13 (1.5-2.5)	<36.6	<36.6	<36.6	<36.6	<36.6	**3990**	<36.6
L10-13 (2.5-3.5)	<39.6	<39.6	<39.6	<39.6	<39.6	**103**	<39.6
L14-17 (0-0.5)	<37.7	<37.7	<37.7	<37.7	<37.7	**9920**	<37.7
L14-17 (0.5-1.5)	<39.6	<39.6	<39.6	<39.6	<39.6	**2900**	<39.6
L14-17 (1.5-2.5)	<38.0	<38.0	<38.0	<38.0	<38.0	**8540**	<38.0
L14-17 (2.5-3.5)	<36.0	<36.0	<36.0	<36.0	<36.0	**2240**	<36.0
L 20-23 (1-2)	<36.5	<36.5	<36.5	<36.5	<36.5	**82.2**	<36.5
L 20-23 (3-4)	<38.7	<38.7	<38.7	<38.7	<38.7	**44.3**	<38.7

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
L 20-23 (4-5)	<40.9	<40.9	<40.9	<40.9	<40.9	<40.9	<40.9
L 20-23 (5-6)	<41.1	<41.1	<41.1	<41.1	<41.1	<41.1	<41.1
K8 L8 M9 (0-2)	<40.4	<40.4	<40.4	<40.4	<40.4	**25**	<40.4
K8 L8 M9 (2-4)	<38.6	<38.6	<38.6	<38.6	<38.6	**79.8**	<38.6
K8 L8 M9 (4-6)	<42.1	<42.1	<42.1	<42.1	<42.1	**59100**	<42.1
K8 L8 M9 (6-8)	<41.9	<41.9	<41.9	<41.9	<41.9	**64300**	<41.9
K-8 (4-6)	<41.1	<41.1	<41.1	<41.1	<41.1	**993**	<41.1
L-8 (4-6)	<37.4	<37.4	<37.4	<37.4	<37.4	**25100**	<37.4
M-9 (4-6)	<42.0	<42.0	<42.0	<42.0	<42.0	**74500**	<42.0
K-8 (6-8)	<41.5	<41.5	<41.5	<41.5	<41.5	**139000**	<41.5
L-8 (6-8)	<39.2	<39.2	<39.2	<39.2	<39.2	**62600**	<39.2
M-9 (6-8)	<42.4	<42.4	<42.4	<42.4	<42.4	**963**	<42.4
K-8 (8-10)	<44.7	<44.7	<44.7	<44.7	<44.7	**12500**	<44.7
L-8 (8-10)	<42.9	<42.9	<42.9	<42.9	<42.9	**6440**	<42.9
M-9 (8-10)	<41.2	<41.2	<41.2	<41.2	<41.2	**341**	<41.2
M10-13 (0-0.5)	<37.8	<37.8	<37.8	<37.8	<37.8	**129**	<37.8
M10-13 (0.5-1.5)	<39.2	<39.2	<39.2	<39.2	<39.2	**929**	<39.2
M10-13 (1.5-2.5)	<39.9	<39.9	<39.9	<39.9	<39.9	**2060**	<39.9
M10-13 (2.5-3.5)	<43.9	<43.9	<43.9	<43.9	<43.9	**152**	<43.9
M14-17 (0-0.5)	<37.5	<37.5	<37.5	<37.5	<37.5	**8220**	<37.5
M14-17 (0.5-1.5)	<39.0	<39.0	<39.0	<39.0	<39.0	**20100**	<39.0
M14-17 (1.5-2.5)	<40.5	<40.5	<40.5	<40.5	<40.5	**14100**	<40.5
M14-17 (2.5-3.5)	<37.9	<37.9	<37.9	<37.9	<37.9	**3630**	<37.9
M 20 (1-2)	<42.3	<42.3	<42.3	<42.3	<42.3	**204**	<42.3
M 21 (1-2)	<41.8	<41.8	<41.8	<41.8	<41.8	**361**	<41.8
M 22 (1-2)	<45.1	<45.1	<45.1	<45.1	<45.1	**294**	<45.1
M 23 (1-2)	<46.6	<46.6	<46.6	<46.6	<46.6	**3020**	<46.6
M 20-23 (1-2)	<43.2	<43.2	<43.2	<43.2	<43.2	**1520**	<43.2
M 20-23 (3-4)	<39.9	<39.9	<39.9	<39.9	<39.9	**37.2**	<39.9
M 20-23 (4-5)	<44.5	<44.5	<44.5	<44.5	<44.5	<44.5	<44.5

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
M 20-23 (5-6)	<43.6	<43.6	<43.6	<43.6	<43.6	<43.6	<43.6
N10-13 (0-0.5)	<36.1	<36.1	<36.1	<36.1	<36.1	**485**	<36.1
N10-13 (0.5-1.5)	<38.3	<38.3	<38.3	<38.3	<38.3	**365**	<38.3
N10-13 (1.5-2.5)	<38.9	<38.9	<38.9	<38.9	<38.9	**550**	<38.9
N10-13 (2.5-3.5)	<38.4	<38.4	<38.4	<38.4	<38.4	**1680**	<38.4
N-14 (1.5-2.5)	<2110	<2110	<2110	<2110	<2110	**13300**	<2110
N-15 (1.5-2.5)	<37400	<37400	<37400	<37400	<37400	**340000**	<37400
N-16 (1.5-2.5)	<37.7	<37.7	<37.7	<37.7	<37.7	**267**	<37.7
N-17 (1.5-2.5)	<40.1	<40.1	<40.1	<40.1	<40.1	**2780**	<40.1
N14-17 (0-0.5)	<36.0	<36.0	<36.0	<36.0	<36.0	**3340**	<36.0
N14-17 (0.5-1.5)	<40.6	<40.6	<40.6	<40.6	<40.6	**5080**	<40.6
N14-17 (1.5-2.5)	<40.0	<40.0	<40.0	<40.0	<40.0	**53300**	<40.0
N14-17 (2.5-3.5)	<40.9	<40.9	<40.9	<40.9	<40.9	**2130**	<40.9
N 20 (1-2)	<42.9	<42.9	<42.9	<42.9	<42.9	**24.1**	<42.9
N 21 (1-2)	<40.4	<40.4	<40.4	<40.4	<40.4	**288**	<40.4
N 22 (1-2)	<38.5	<38.5	<38.5	<38.5	<38.5	**311**	<38.5
N 23 (1-2)	<41.3	<41.3	<41.3	<41.3	<41.3	**147**	<41.3
N 20-23 (1-2)	<40.2	<40.2	<40.2	<40.2	<40.2	**1280**	<40.2
N 20-23 (3-4)	<33.5	<33.5	<33.5	<33.5	<33.5	**396**	<33.5
N 20-23 (4-5)	<41.3	<41.3	<41.3	<41.3	<41.3	<41.3	<41.3
N 20-23 (5-6)	<42.0	<42.0	<42.0	<42.0	<42.0	<42.0	<42.0
LMNO-18 (0-0.5)	<36.1	<36.1	<36.1	<36.1	<36.1	**628**	<36.1
LMNO-18 (0.5-1.5)	<40.0	<40.0	<40.0	<40.0	<40.0	**9450**	<40.0
LMNO-18 (1.5-2.5)	<41.5	<41.5	<41.5	<41.5	<41.5	**8880**	<41.5
LMNO-18 (2.5-3.5)	<41.6	<41.6	<41.6	<41.6	<41.6	**35.1**	<41.6
LNO-19 (0-2)	<40.1	<40.1	<40.1	<40.1	<40.1	**2560**	<40.1
L-18 (0-0.5)	<173	<173	<173	<173	<173	**544**	<173
L-19 (0-2)	<185	<185	<185	<185	<185	**1670**	<185
N-19 (0-2)	<786	<786	<786	<786	<786	**4820**	<786
O-19 (0-2)	<211	<211	<211	<211	<211	**504**	<211

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
LNO-19 (2-4)	<42.4	<42.4	<42.4	<42.4	<42.4	**139**	<42.4
LNO-19 (4-6)	<33.0	<33.0	<33.0	<33.0	<33.0	<33.0	<33.0
LO-19 (6-8)	<42.4	<42.4	<42.4	<42.4	<42.4	<42.4	<42.4
O 11-13 (0-0.5)	<39.2	<39.2	<39.2	<39.2	<39.2	**289**	<39.2
O 11-13 (0.5-1.5)	<41.9	<41.9	<41.9	<41.9	<41.9	**130**	<41.9
O 11-13 (1.5-2.5)	<38.4	<38.4	<38.4	<38.4	<38.4	**350**	<38.4
O 11-13 (2.5-3.5)	<41.4	<41.4	<41.4	<41.4	<41.4	**247**	<41.4
O-14 (0.5-1.5)	<35.1	<35.1	<35.1	<35.1	<35.1	**69.1**	<35.1
O-15 (0.5-1.5)	<39.4	<39.4	<39.4	<39.4	<39.4	**1070**	<39.4
O-16 (0.5-1.5)	<39.1	<39.1	<39.1	<39.1	<39.1	**4100**	<39.1
O-17 (0.5-1.5)	<46.9	<46.9	<46.9	<46.9	<46.9	**2560**	<46.9
O-14 (1.5-2.5)	<811	<811	<811	<811	<811	**5280**	<811
O-15 (1.5-2.5)	<8670	<8670	<8670	<8670	<8670	**39400**	<8670
O-16 (1.5-2.5)	<45.4	<45.4	<45.4	<45.4	<45.4	**169**	<45.4
O-17 (1.5-2.5)	<831	<831	<831	<831	<831	**4580**	<831
O 14-17 (0-0.5)	<39.3	<39.3	<39.3	<39.3	<39.3	**219**	<39.3
O 14-17 (0.5-1.5)	<39.0	<39.0	<39.0	<39.0	<39.0	**1070**	<39.0
O 14-17 (1.5-2.5)	<41.9	<41.9	<41.9	<41.9	<41.9	**61300**	<41.9
O 14-17 (2.5-3.5)	<40.0	<40.0	<40.0	<40.0	<40.0	**1990**	<40.0
O 20-23 (1-2)	<41.7	<41.7	<41.7	<41.7	<41.7	**630**	<41.7
O 20-23 (3-4)	<42.9	<42.9	<42.9	<42.9	<42.9	**26.3**	<42.9
O 20-23 (4-5)	<40.9	<40.9	<40.9	<40.9	<40.9	**26.4**	<40.9
O 20-23 (5-6)	<40.1	<40.1	<40.1	<40.1	<40.1	<40.1	<40.1
O10 P11 Q13 (0-2)	<41.8	<41.8	<41.8	<41.8	<41.8	**68.7**	<41.8
O10 P11 Q13 (2-4)	<40.7	<40.7	<40.7	<40.7	<40.7	<40.7	<40.7
O10 P11 Q13 (4-6)	<41.0	<41.0	<41.0	<41.0	<41.0	<41.0	<41.0
O10 P11 Q13 (6-8)	<39.0	<39.0	<39.0	<39.0	<39.0	<39.0	<39.0
P 13-16 (0-0.5)	<36.0	<36.0	<36.0	<36.0	<36.0	**31900**	<36.0
P 13-16 (0.5-1.5)	<40.0	<40.0	<40.0	<40.0	<40.0	**511**	<40.0
P 13-16 (1.5-2.5)	<40.3	<40.3	<40.3	<40.3	<40.3	**6460**	<40.3

Table 3. Soil Sample Analytical Results: PCBs

Sample #	PCB-1016 (µg/kg)	PCB-1221 (µg/kg)	PCB-1232 (µg/kg)	PCB-1242 (µg/kg)	PCB-1248 (µg/kg)	PCB-1254 (µg/kg)	PCB-1260 (µg/kg)
P 13-16 (2.5-3.5)	<38.7	<38.7	<38.7	<38.7	<38.7	**3340**	<38.7
P18-19 Q20 (0-0.5)	<42.8	<42.8	<42.8	<42.8	<42.8	**2490**	<42.8
P18-19 Q20 (0.5-1.5)	<38.8	<38.8	<38.8	<38.8	<38.8	**419**	<38.8
P18-19 Q20 (1.5-2.5)	<39.9	<39.9	<39.9	<39.9	<39.9	**542**	<39.9
P18-19 Q20 (2.5-3.5)	<38.4	<38.4	<38.4	<38.4	<38.4	<38.4	<38.4
Q16-18 P17 (0-0.5)	<34.0	<34.0	<34.0	<34.0	<34.0	**382**	<34.0
Q16-18 P17 (0.5-1.5)	<40.1	<40.1	<40.1	<40.1	<40.1	**3520**	<40.1
Q16-18 P17 (1.5-2.5)	<40.3	<40.3	<40.3	<40.3	<40.3	**928**	<40.3
Q16-18 P17 (2.5-3.5)	<40.4	<40.4	<40.4	<40.4	<40.4	**139**	<40.4
R16 R19 (0-2)	<40.3	<40.3	<40.3	<40.3	<40.3	**57.1**	<40.3
R16 R19 (2-4)	<38.8	<38.8	<38.8	<38.8	<38.8	**297**	<38.8
R16 R19 (4-6)	<42.6	<42.6	<42.6	<42.6	<42.6	<42.6	<42.6
R16 R19 (6-8)	<43.3	<43.3	<43.3	<43.3	<43.3	**43.5**	<43.3

Notes:

1. Sample designations per Figure 5.
2. Sample nodes that have been composited are noted as such (e.g., 1-9)
3. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.

BOLD values indicate constituent detections.

Table 4. Soil Sample Analytical Results: PAHs

	Units	Health-Based Soil RG (1)	B14-02 (0-1')	B14-03 (0-1')	B14-04 (0-1')	B14-05 (0-1')	B14-06 (0-1')
Polynuclear Aromatic Hydrocarbons							
Acenaphthene	ug/kg	740,000	<330	<330	<330	**92.8**	<330
Acenaphthylene	ug/kg	460,000	<330	<330	<330	<330	<330
Anthracene	ug/kg	4,400,000	<330	<330	<330	**155**	**104**
Benzo(a)anthracene	ug/kg	620	<330	<330	<330	**648**	**161**
Benzo(a)pyrene	ug/kg	62	<330	<330	<330	**658**	<330
Benzo(b)fluoranthene	ug/kg	620	<330	<330	<330	**649**	**145**
Benzo(g,h,i)perylene	ug/kg	460,000	<330	<330	<330	**253**	<330
Benzo(k)fluoranthene	ug/kg	6,200	<330	<330	<330	**589**	**244**
Chrysene	ug/kg	62,000	<330	<330	<330	**683**	**170**
Dibenz(a,h)anthracene	ug/kg	62	<330	<330	<330	<330	<330
Fluoranthene	ug/kg	460,000	<330	<330	<330	**1230**	**219**
Fluorene	ug/kg	540,000	<330	<330	<330	<330	<330
Indeno(1,2,3-cd)pyrene	ug/kg	620	<330	<330	<330	**263**	<330
1-Methylnaphthalene	ug/kg	NA	<330	<330	<330	<330	<330
2-Methylnaphthalene	ug/kg	11,200	<330	<330	<330	<330	<330
Naphthalene	ug/kg	11,200	<330	<330	<330	<330	<330
Phenanthrene	ug/kg	460,000	<330	<330	<330	**640**	**149**
Pyrene	ug/kg	460,000	<330	**59.2**	<330	**1490**	**290**

(1) Values are as reported in the Remedial Action Plan - Step Two, Kelly-Buck, June, 2008.

Notes:

1. Sample designations per Figure 5.
2. Sample nodes that have been composited are noted as such (e.g., 1-9)
3. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.

BOLD values indicate constituent detections.

Table 5. Soil Sample Analytical Results: Metals

	Units	Health-Based Soil RG (1)	AOC-16 R-20 (10-12')	AOC-16 R-20 (15-17')	AOC-16 R-21 (10-12')	AOC-16 R-21 (15-17')	AOC-16 S-21 (10-12')	AOC-16 S-21 (15-17')
Total Metals								
Lead	mg/kg	400	**21**	**100**	**25.8**	**53.9**	**21.9**	**142**
Mercury	mg/kg	4.6	**0.048**	**0.43**	**0.12**	**0.12**	**0.12**	**0.16**

(1) Values are as reported in the Remedial Action Plan - Step Two, Kelly-Buck, June, 2008.

Notes:

1. Sample designations per Figure 5.
2. Sample nodes that have been composited are noted as such (e.g., 1-9)
3. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.

BOLD values indicate constituent detections.

Table 5. Soil Sample Analytical Results: Metals

	Units	Health-Based Soil RG (1)	AOC-16 S-22 (10-12')	AOC-16 S-22 (15-17')	AOC-16 T-22 (10-12')	AOC-16 T-22 (15-17')
Total Metals						
Lead	mg/kg	400	**197**	**8.7**	**9**	**7.1**
Mercury	mg/kg	4.6	**0.14**	**0.034**	**0.031**	**0.054**

(1) Values are as reported in the Remedial Action Plan - Step Two, Kelly-Buck, June, 2008.

Notes:

1. Sample designations per Figure 5.
2. Sample nodes that have been composited are noted as such (e.g., 1-9)
3. Sample depth (i.e., 1-2') represents depth of sample in feet below ground surface.

BOLD values indicate constituent detections.

Table 6. Ground-Water Level Measurements

Well ID	Top of Casing (TOC) Elevation (ft, AMSL)	11/10-21/08 Depth to Water (ft below TOC)	11/10-21/08 Water Surface Elevation (ft, AMSL)
MW-BG-B1(S)	703.58	NA(2)	-
MW-BG-B1(I)	703.60	NA(2)	-
MW-BG-B1(D)	703.40	NA(2)	-
MW-BG-B2(I)	687.99	NA(2)	-
MW-BG-B2(D)	688.06	NA(2)	-
MW-BG-B3(S)	689.34	22.85	666.49
MW-BG-B3(I)	689.69	23.71	665.98
MW-BG-B3(D)	689.18	23.09	666.09
MW-BG-B4(S)	688.30	27.65	660.65
MW-BG-B4(I)	687.92	30.35	657.57
MW-BG-B4(D)	688.35	30.58	657.77
MW-BG-B5(S)	647.99	11.91	636.08
MW-BG-B5(I)	648.23	12.31	635.92
MW-BG-B5(D)	646.87	11.05	635.82
MW-BG-B5(XD)	646.09	12.86	633.23
MW-BG-B6(D)	633.25	22.36	610.89
MW-BG-B7(D)	645.27	22.15	623.12
MW-1 (Cooper)	689.12	NA(2)	-
MW-B1-02(S)	690.52	24.23	666.29
MW-B2-04(S)	686.79	NA(2)	-
MW-B3-02(S)	690.41	NA(2)	-
MW-B4-02(S)	690.86	7.26	683.60
MW-B4-02(I)	689.80	5.25	684.55
MW-B4-02(D)	689.94	8.33	681.61
MW-B4-06(S)	690.90	NA(2)	-
MW-B4-12(S)	693.38	NA(2)	-
MW-B4-22(S)	-	8.02	NA(3)
MW-B6-02(S)	690.24	NA(2)	-
MW-B12-01(S)	690.85	NA(2)	-
MW-B13-01(S)	690.85	NA(2)	-
MW-B13-28(I)	-	23.23	NA(3)
MW-B13-28(D)	-	133.55	NA(3)
MW-B15-01(S)	690.52	NA(2)	-
MW-B16-02(S)	685.84	NA(2)	-
MW-B21-10(I)	666.19	25.36	640.83
MW-B21-10(D)	-	25.38	NA(3)

Notes:

NA - No measurement acquired

(2) - well not part of baseline monitoring program

(3) - survey information not yet available

Table 7. Ground Water Sample Analytical Results

	Units	Ground-Water RG[1]	MW-B1-02 (S)	MW-BG-B3 (S)	MW-BG-B3 (I)	MW-BG-B3 (D)	MW-BG-B4 (S)	MW-BG-B4 (I)	MW-BG-B4 (D)	MW-BG-B4 (D) DUP	MW-BG-B5 (S)
Metals											
Chromium	ug/l	50	**1730**	**11.3**	**5.2**	**16.9**	**6.2**	**25.3**	**41.5**	**40.4**	**27.2**
Hexavelent Chromium	ug/l	22	**0.92**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Volatile Organic Compounds											
Acetone	ug/l	700	<25.0	<25.0	<25.0	<250	<25.0	<25.0	<25.0	<25.0	<25.0
Benzene	ug/l	1	<1.0	<1.0	<1.0	<10.0	**3.2**	**0.61**	<1.0	<1.0	<1.0
Bromobenzene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/l	NA	<1.0	<5.0	<5.0	<50.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	ug/l	170	<3.0	<5.0	<5.0	<50.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/l	NA	<1.0	<1.0	<1.0	<10.0	**1.3**	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/l	0.19	**0.33**	<1.0	<1.0	<10.0	<1.0	**0.81**	**0.53**	**0.57**	<1.0
Chloromethane	ug/l	2.6	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	ug/l	0.025	<3.0	<3.0	<3.0	<30.0	<3.0	<3.0	<3.0	<3.0	<3.0
Dibromochloromethane	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane (EDB)	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/l	NA	<5.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/l	600	<1.0	<1.0	<1.0	<10.0	**5.3**	**0.58**	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/l	75	<1.0	<1.0	<1.0	<10.0	**0.57**	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/l	700	**0.46**	**5.8**	**6.8**	<10.0	<1.0	**1.0**	**0.82**	**0.96**	<1.0
1,2-Dichloroethane	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	ug/l	7	**0.77**	<1.0	<1.0	<10.0	**24.2**	**8.3**	**3.4**	**3.8**	<1.0
cis-1,2-Dichloroethene	ug/l	70	**113**	**57.3**	**88.0**	**117**	**51800**	**3760**	**292**	**307**	**5.3**
trans-1,2-Dichloroethene	ug/l	70	**1.7**	**14.8**	**21.8**	**8.9**	**459**	**43.1**	**4.3**	**4.6**	<1.0
1,2-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/l	NA	<5.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 7. Ground Water Sample Analytical Results

	Units	Ground-Water RG[1]	MW-B1-02 (S)	MW-BG-B3 (S)	MW-BG-B3 (I)	MW-BG-B3 (D)	MW-BG-B4 (S)	MW-BG-B4 (I)	MW-BG-B4 (D)	MW-BG-B4 (D) DUP	MW-BG-B5 (S)
trans-1,3-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl ether	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/l	29	<1.0	<1.0	<1.0	<10.0	**1.7**	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	ug/l	NA	**1.3**	<5.0	<5.0	<50.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	ug/l	14	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	ug/l	5	<1.0	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)	ug/l	NA	<1.0	<5.0	<5.0	<50.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl ether	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	ug/l	21	<1.0	<1.0	<1.0	<10.0	**0.86**	<1.0	<1.0	<1.0	<1.0
Styrene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	ug/l	0.43	<2.0	<1.0	<1.0	<10.0	**0.60**	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/l	0.055	<1.0	<1.0	<1.0	<10.0	**0.46**	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	ug/l	0.7	**75.1**	<1.0	**14.4**	**304**	**45100**	**4050**	**241**	**251**	**17.3**
Toluene	ug/l	1,000	<1.0	<1.0	<1.0	<10.0	**13.2**	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/l	200	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/l	0.2	<1.0	<1.0	<1.0	<10.0	<1.0	**0.89**	<1.0	<1.0	<1.0
Trichloroethene	ug/l	2.8	**17.3**	**0.53**	**9.9**	**84.6**	**12600**	**866**	**32.6**	**35.8**	**3.7**
Trichlorofluoromethane	ug/l	2,100	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<10.0	**0.57**	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	ug/l	NA	<2.0	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/l	0.015	**1.8**	**12.7**	**16.4**	<10.0	**1310**	**124**	<1.0	<1.0	<1.0
m&p-Xylene	ug/l	NA	<2.0	<2.0	<2.0	<20.0	**7.5**	<2.0	**1.2**	**1.2**	<2.0
o-Xylene	ug/l	NA	<1.0	<1.0	<1.0	<10.0	**7.1**	0.67	**0.68**	**0.71**	<1.0

(1) Values are as reported in the Phase II Remedial Investigation, Kelly-Buck, July, 2006, and Remedial Action Plan - Step Two, Kelly-Buck, June, 2008.

Notes:

1. Sample designations per Figures 2 and 2B.

BOLD values indicate constituent detections.

NA - Parameter not analyzed

(S) Shallow, (I) Intermediate, (D) Deep

Table 7. Ground Water Sample Analytical Results

	Units	Ground-Water RG[1]	MW-BG-B5 (I)	MW-BG-B5 (D)	MW-BG-B5 (XD)	MW-BG-B6 (D)	MW-BG-B7 (D)	MW-BG-B7 (D) DUP	MW-B4-02 (S)	MW-B4-02 (I)	MW-B4-02 (I) DUP
Metals											
Chromium	ug/l	50	**33.6**	**1.2**	<5.0	**1.5**	**5.2**	**5.0**	**7.0**	**5.7**	**5.0**
Hexavelent Chromium	ug/l	22	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Volatile Organic Compounds											
Acetone	ug/l	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Benzene	ug/l	1	<1.0	<1.0	0.25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/l	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	ug/l	170	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/l	0.19	**0.46**	**0.53**	**0.44**	**10.6**	**0.35**	**0.35**	<1.0	**0.14**	<1.0
Chloromethane	ug/l	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	ug/l	0.025	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Dibromochloromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane (EDB)	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/l	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/l	75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/l	700	**1.2**	**1.2**	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	ug/l	7	**2.9**	**3.7**	4	<1.0	<1.0	<1.0	<1.0	**0.87**	**0.95**
cis-1,2-Dichloroethene	ug/l	70	**422**	**517**	**573**	<1.0	<1.0	<1.0	**10.3**	<1.0	**0.44**
trans-1,2-Dichloroethene	ug/l	70	**6.7**	**8.1**	5.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 7. Ground Water Sample Analytical Results

	Units	Ground-Water RG[1]	MW-BG-B5 (I)	MW-BG-B5 (D)	MW-BG-B5 (XD)	MW-BG-B6 (D)	MW-BG-B7 (D)	MW-BG-B7 (D) DUP	MW-B4-02 (S)	MW-B4-02 (I)	MW-B4-02 (I) DUP
trans-1,3-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl ether	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/l	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	ug/l	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	ug/l	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	ug/l	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)	ug/l	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl ether	ug/l	NA	<1.0	<1.0	0.25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	ug/l	21	<1.0	<1.0	0.46	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	ug/l	0.43	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/l	0.055	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	ug/l	0.7	**704**	**940**	**852**	<1.0	<1.0	**0.78**	**1370**	**4.0**	**3.9**
Toluene	ug/l	1,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/l	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/l	0.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	ug/l	2.8	**117**	**144**	**118**	<1.0	<1.0	<1.0	**2.9**	<1.0	<1.0
Trichlorofluoromethane	ug/l	2,100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	ug/l	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/l	0.015	**2.0**	**2.2**	12.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	ug/l	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

(1) Values are as reported in the Phase II Remedial Investigation, Kelly-Buck, July, 2006, and Remedial Action Plan - Step Two, Kelly-Buck, June, 2008.

Notes:

1. Sample designations per Figures 2 and 2B.

BOLD values indicate constituent detections.

NA - Parameter not analyzed

(S) Shallow, (I) Intermediate, (D) Deep

Table 7. Ground Water Sample Analytical Results

	Units	Ground-Water RG[1]	MW-B4-02 (D)	MW-B4-02 (D) DUP	MW-B4-22 (S)	MW-B13-28 (D)	MW-B13-28 (I)	MW-B21-10 (I)	MW-B21-10 (D)	MW-B21-10 (D) DUP	TRIP BLANK
Metals											
Chromium	ug/l	50	**2.2**	**2.0**	**87.5**	**13.6**	**16.2**	**4.5**	**15.2**	**15.9**	NA
Hexavelent Chromium	ug/l	22	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NA
Volatile Organic Compounds											
Acetone	ug/l	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Benzene	ug/l	1	<1.0	<1.0	<1.0	<1.0	<1.0	**0.46**	<1.0	<1.0	<1.0
Bromobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/l	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	ug/l	170	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/l	0.19	<1.0	<1.0	<1.0	**0.58**	**0.38**	**0.18**	**0.59**	**0.63**	<1.0
Chloromethane	ug/l	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	ug/l	0.025	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Dibromochloromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane (EDB)	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/l	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/l	75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	ug/l	NA	**0.81**	**0.94**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/l	700	**0.38**	**0.33**	**<1.0**	**0.79**	**0.55**	**8.9**	**1.3**	**1.3**	<1.0
1,2-Dichloroethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	ug/l	7	**14.8**	**16.0**	<1.0	**3.9**	**2.7**	**7.3**	**5**	**5.2**	<1.0
cis-1,2-Dichloroethene	ug/l	70	**8.5**	**8.8**	**4.3**	**352**	**701**	**1720**	**1120**	**1080**	<1.0
trans-1,2-Dichloroethene	ug/l	70	<1.0	<1.0	<1.0	7.4	11.0	**39.7**	3.8	3.9	<1.0
1,2-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 7. Ground Water Sample Analytical Results

	Units	Ground-Water RG[1]	MW-B4-02 (D)	MW-B4-02 (D) DUP	MW-B4-22 (S)	MW-B13-28 (D)	MW-B13-28 (I)	MW-B21-10 (I)	MW-B21-10 (D)	MW-B21-10 (D) DUP	TRIP BLANK
trans-1,3-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl ether	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/l	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	ug/l	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	ug/l	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	ug/l	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)	ug/l	NA	**0.95**	**0.75**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl ether	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	ug/l	21	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	ug/l	0.43	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/l	0.055	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	ug/l	0.7	**35.6**	**39.1**	**23.5**	**675**	**1030**	**185**	**1690**	**1680**	<1.0
Toluene	ug/l	1,000	**0.59**	**0.52**	0.48	<1.0	<1.0	**0.67**	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/l	200	**1.1**	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/l	0.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	ug/l	2.8	**5.9**	**6.2**	**4.4**	**81.1**	**149**	**53.5**	**57.9**	**60.8**	<1.0
Trichlorofluoromethane	ug/l	2,100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	ug/l	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/l	0.015	<1.0	<1.0	<1.0	<1.0	**16.2**	**293**	**16.8**	**17.9**	<1.0
m&p-Xylene	ug/l	NA	**0.83**	**0.69**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/l	NA	**0.39**	**0.32**	<1.0	<1.0	<1.0	**0.26**	<1.0	<1.0	<1.0

(1) Values are as reported in the Phase II Remedial Investigation, Kelly-Buck, July, 2006, and Remedial Action Plan - Step Two, Kelly-Buck, June, 2008.

Notes:

1. Sample designations per Figures 2 and 2B.

BOLD values indicate constituent detections.

NA - Parameter not analyzed

(S) Shallow, (I) Intermediate, (D) Deep

Table 7. Ground Water Sample Analytical Results

	Units	Ground-Water RG[1]	TRIP BLANK	TRIP BLANK	BAILER BLANK	PUMP BLANK	PUMP BLANK	GF PUMP BLANK
Metals								
Chromium	ug/l	50	NA	NA	**<5.0**	<5.0	**0.57**	**2.4**
Hexavelent Chromium	ug/l	22	NA	NA	<0.050	<0.050	<0.050	<0.050
Volatile Organic Compounds								
Acetone	ug/l	700	<25.0	<25.0	**8**	<25.0	<25.0	<25.0
Benzene	ug/l	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/l	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	ug/l	170	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/l	0.19	<1.0	<1.0	**2.8**	<1.0	**2.9**	<1.0
Chloromethane	ug/l	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	ug/l	0.025	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Dibromochloromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane (EDB)	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/l	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/l	75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/l	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	ug/l	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	ug/l	70	<1.0	<1.0	<1.0	<1.0	<1.0	**0.73**
trans-1,2-Dichloroethene	ug/l	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 7. Ground Water Sample Analytical Results

	Units	Ground-Water RG[1]	TRIP BLANK	TRIP BLANK	BAILER BLANK	PUMP BLANK	PUMP BLANK	GF PUMP BLANK
trans-1,3-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl ether	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/l	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	ug/l	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	ug/l	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	ug/l	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)	ug/l	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl ether	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	ug/l	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	ug/l	0.43	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/l	0.055	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	ug/l	0.7	<1.0	<1.0	<1.0	<1.0	**4.3**	<1.0
Toluene	ug/l	1,000	<1.0	<1.0	**0.48**	<1.0	<1.0	**0.52**
1,2,3-Trichlorobenzene	ug/l	NA	**0.38**	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/l	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/l	0.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	ug/l	2.8	<1.0	**0.71**	<1.0	<1.0	**0.51**	<1.0
Trichlorofluoromethane	ug/l	2,100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	ug/l	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/l	0.015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	ug/l	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

(1) Values are as reported in the Phase II Remedial Investigation, Kelly-Buck, July, 2006, and Remedial Action Plan - Step Two, Kelly-Buck, June, 2008.

Notes:

1. Sample designations per Figures 2 and 2B.

BOLD values indicate constituent detections.

NA - Parameter not analyzed

(S) Shallow, (I) Intermediate, (D) Deep

Table 8. Surface Water Sample Analytical Results

	Units	RG [1]	SW-02	SW-04	SW-08	SW-11	SW-11B	SW-13	SW-13 DUP	SW-15	SW-16	TRIP BLANK	TRIP BLANK
Metals													
Chromium	ug/l	48.85	**4.2**	**0.95**	**0.60**	**1.1**	<5.0	**0.90**	**0.93**	**0.78**	**0.50**	NA	NA
Hexavelent Chromium	ug/l	11	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NA	NA
Volatile Organic Compounds													
Acetone	ug/l	2,000	<25.0	<25.0	<25.0	**7.0**	**10.2**	**9.5**	**8.7**	**9.6**	<25.0	<25.0	<25.0
Benzene	ug/l	71	**1.1**	**0.34**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/l	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	ug/l	26,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/l	470	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/l	27,500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	ug/l	140	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	ug/l	1,000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Dibromochloromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane (EDB)	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/l	19,500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	ug/l	6,900	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	ug/l	13,000	**1.1**	**15.5**	**8.2**	**2.8**	**0.76**	**2.1**	**1.9**	**1.7**	**0.94**	<1.0	<1.0
trans-1,2-Dichloroethene	ug/l	11,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl ether	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 8. Surface Water Sample Analytical Results

	Units	RG [1]	SW-02	SW-04	SW-08	SW-11	SW-11B	SW-13	SW-13 DUP	SW-15	SW-16	TRIP BLANK	TRIP BLANK
Ethylbenzene	ug/l	520	**0.55**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	ug/l	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	ug/l	320	<1.0	<1.0	**0.40**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	ug/l	1,600	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)	ug/l	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl ether	ug/l	NA	**1.6**	**0.50**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	ug/l	78	**11.8**	**0.93**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.35**
Styrene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	ug/l	10.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/l	10.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	ug/l	8.85	<1.0	**5.4**	**0.53**	**2.2**	**5.3**	**1.7**	**1.6**	**1.5**	**0.98**	<1.0	<1.0
Toluene	ug/l	11	**2.7**	**0.85**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.43**
1,2,4-Trichlorobenzene	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/l	2,460	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/l	42	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	ug/l	92.4	<1.0	**1.7**	<1.0	**0.69**	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	ug/l	179,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/l	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	ug/l	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/l	525	<1.0	**0.64**	**0.88**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	ug/l	NA	**1.8**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/l	NA	**0.83**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

(1) Values are as reported in the Phase II Remedial Investigation, Kelly-Buck, July, 2006.

Notes:

1. Sample designations per Figures 2 and 2B.

BOLD values indicate constituent detections.

NA - Parameter not analyzed

(S) Shallow, (I) Intermediate, (D) Deep

Table 9. Soil Vapor Sample Analytical Results

	Units	SV-01	SV-02	SV-03	Target Soil Vapor Concentration[1] (ppbv)
Volatile Organic Compounds					
Acetone	ppbv	<59.1	<59.1	<59.1	NA
Benzene	ppbv	<55.9	<55.9	<55.9	NA
Bromodichloromethane	ppbv	<54.8	<54.8	<54.8	NA
Bromoform	ppbv	<55.9	<55.9	<55.9	NA
Bromomethane	ppbv	<54.8	<54.8	<54.8	NA
1,3-Butadiene	ppbv	<55.9	<55.9	<55.9	NA
2-Butanone (MEK)	ppbv	<59.1	<59.1	<59.1	NA
Carbon disulfide	ppbv	<53.8	<53.8	<53.8	NA
Carbon tetrachloride	ppbv	<54.8	<54.8	<54.8	NA
Chlorobenzene	ppbv	<55.9	<55.9	<55.9	NA
Chloroethane	ppbv	<54.8	<54.8	<54.8	NA
Chloroform	ppbv	<54.8	<54.8	<54.8	NA
Chloromethane	ppbv	<53.8	<53.8	<53.8	NA
Cyclohexane	ppbv	<55.9	<55.9	<55.9	NA
Dibromochloromethane	ppbv	<57.0	<57.0	<57.0	NA
1,2-Dibromoethane (EDB)	ppbv	<55.9	<55.9	<55.9	NA
1,2-Dichlorobenzene	ppbv	<54.8	<54.8	<54.8	NA
1,3-Dichlorobenzene	ppbv	<54.8	<54.8	<54.8	NA
1,4-Dichlorobenzene	ppbv	<54.8	<54.8	<54.8	NA
Dichlorodifluoromethane	ppbv	<54.8	<54.8	<54.8	NA
1,1-Dichloroethane	ppbv	<55.9	<55.9	<55.9	**1,200**
1,2-Dichloroethane	ppbv	<55.9	<55.9	<55.9	NA
1,1-Dichloroethene	ppbv	<55.9	<55.9	<55.9	NA

Table 9. Soil Vapor Sample Analytical Results

	Units	SV-01	SV-02	SV-03	Target Soil Vapor Concentration[1] (ppbv)
cis-1,2-Dichloroethene	ppbv	<55.9	<55.9	<55.9	**88**
trans-1,2-Dichloroethene	ppbv	<108	<108	<108	**1,100**
1,2-Dichloropropane	ppbv	<55.9	<55.9	<55.9	NA
cis-1,3-Dichloropropene	ppbv	<54.8	<54.8	<54.8	NA
trans-1,3-Dichloropropene	ppbv	<55.9	<55.9	<55.9	NA
Dichlorotetrafluoroethane	ppbv	<61.3	<61.3	<61.3	NA
Ethyl acetate	ppbv	<54.8	<54.8	<54.8	NA
Ethylbenzene	ppbv	<55.9	<55.9	<55.9	NA
4-Ethyltoluene	ppbv	<57.0	<57.0	<57.0	NA
n-Heptane	ppbv	<55.9	<55.9	<55.9	NA
Hexachloro-1,3-butadiene	ppbv	<53.8	<53.8	<53.8	NA
n-Hexane	ppbv	<57.0	<57.0	<57.0	NA
2-Hexanone	ppbv	<59.1	<59.1	<59.1	NA
Methylene Chloride	ppbv	<55.9	<55.9	<55.9	NA
4-Methyl-2-pentanone (MIBK)	ppbv	<59.1	<59.1	<59.1	NA
Methyl-tert-butyl ether	ppbv	<108	<108	<108	NA
Propylene	ppbv	<215	<215	<215	NA
Styrene	ppbv	<59.1	<59.1	<59.1	NA
1,1,2,2-Tetrachloroethane	ppbv	<55.9	<55.9	<55.9	NA
Tetrachloroethene	ppbv	**1540**	**3840**	**2820**	**1.2**
Tetrahydrofuran	ppbv	<55.9	<55.9	<55.9	NA
Toluene	ppbv	<55.9	<55.9	<55.9	NA
1,2,4-Trichlorobenzene	ppbv	<55.9	<55.9	<55.9	NA
1,1,1-Trichloroethane	ppbv	<55.9	<55.9	<55.9	**4,000**

Table 9. Soil Vapor Sample Analytical Results

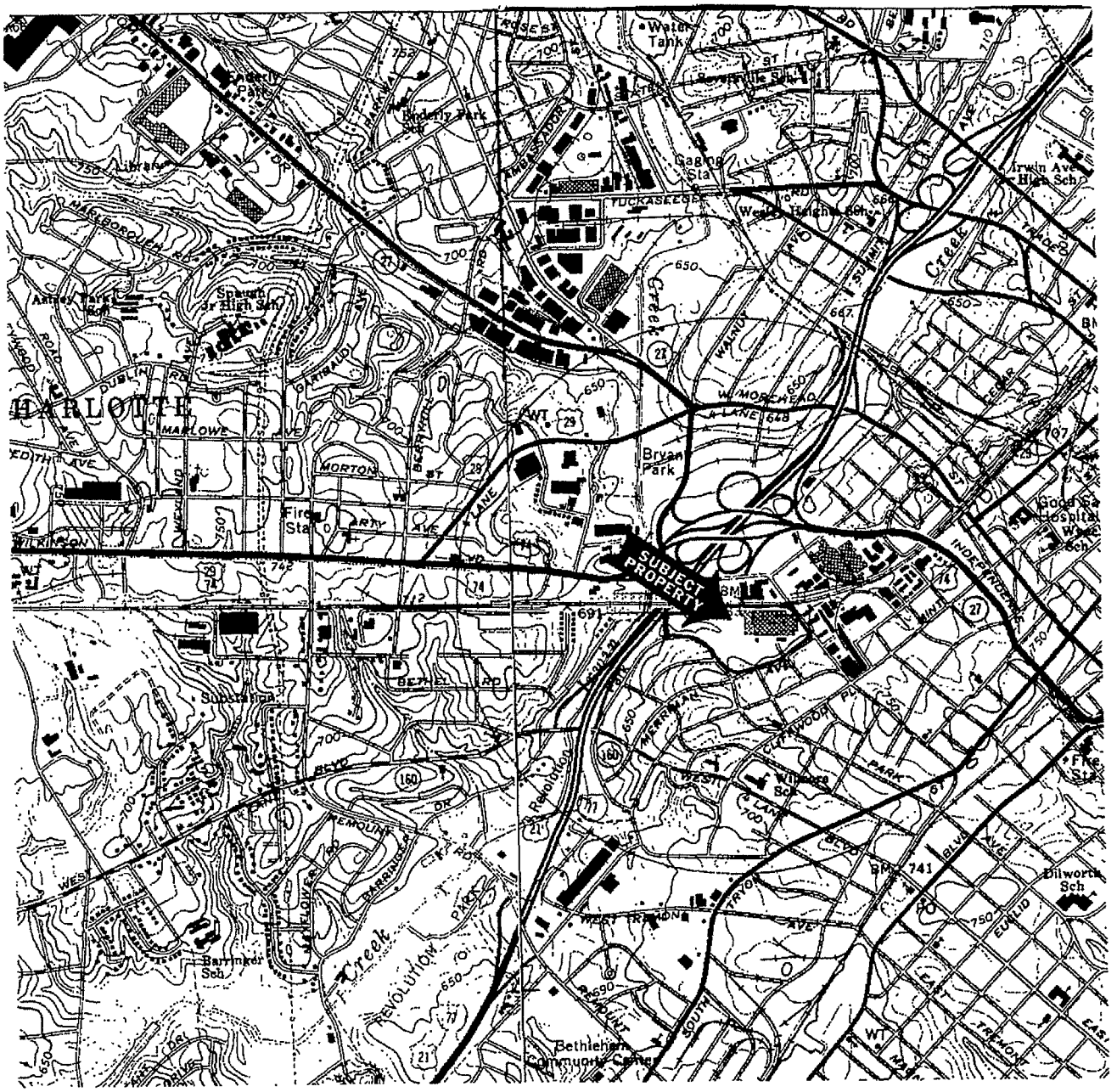
	Units	SV-01	SV-02	SV-03	Target Soil Vapor Concentration[1] (ppbv)
1,1,2-Trichloroethane	ppbv	<55.9	<55.9	<55.9	NA
Trichloroethene	ppbv	**270**	**172**	**172**	**0.041**
Trichlorofluoromethane	ppbv	<53.8	<53.8	<53.8	NA
1,1,2-Trichlorotrifluoroethane	ppbv	<55.9	**598**	**69.3**	NA
1,2,4-Trimethylbenzene	ppbv	<54.8	<54.8	<54.8	NA
1,3,5-Trimethylbenzene	ppbv	<55.9	<55.9	<55.9	NA
Vinyl acetate	ppbv	<59.1	<59.1	<59.1	NA
Vinyl chloride	ppbv	<54.8	<54.8	<54.8	**1.1**
m&p-Xylene	ppbv	<108	<108	<108	NA
o-Xylene	ppbv	<55.9	<55.9	<55.9	NA

(1) USEPA target concentrations for shallow soil gas provided only for contaminants found in site ground water.

Notes:
1. Sample designations per Figure 2.

BOLD values indicate constituent detections.
NA - Parameter not analyzed

FIGURES



APPROXIMATE NORTH

APPROXIMATE SCALE 1 INCH = 2,000 FEET

Map Source: U.S. GEOLOGICAL SURVEY

FIGURE 1. SITE LOCATION MAP

SUBJECT PROPERTY
CHARLOTTE, NORTH CAROLINA

Project No. 2001.01.07.10

The Kelly-Buck Company
2130 Superior Avenue #3-A
Cleveland, Ohio 44114
(216) 861-1716

KELLY-BUCK

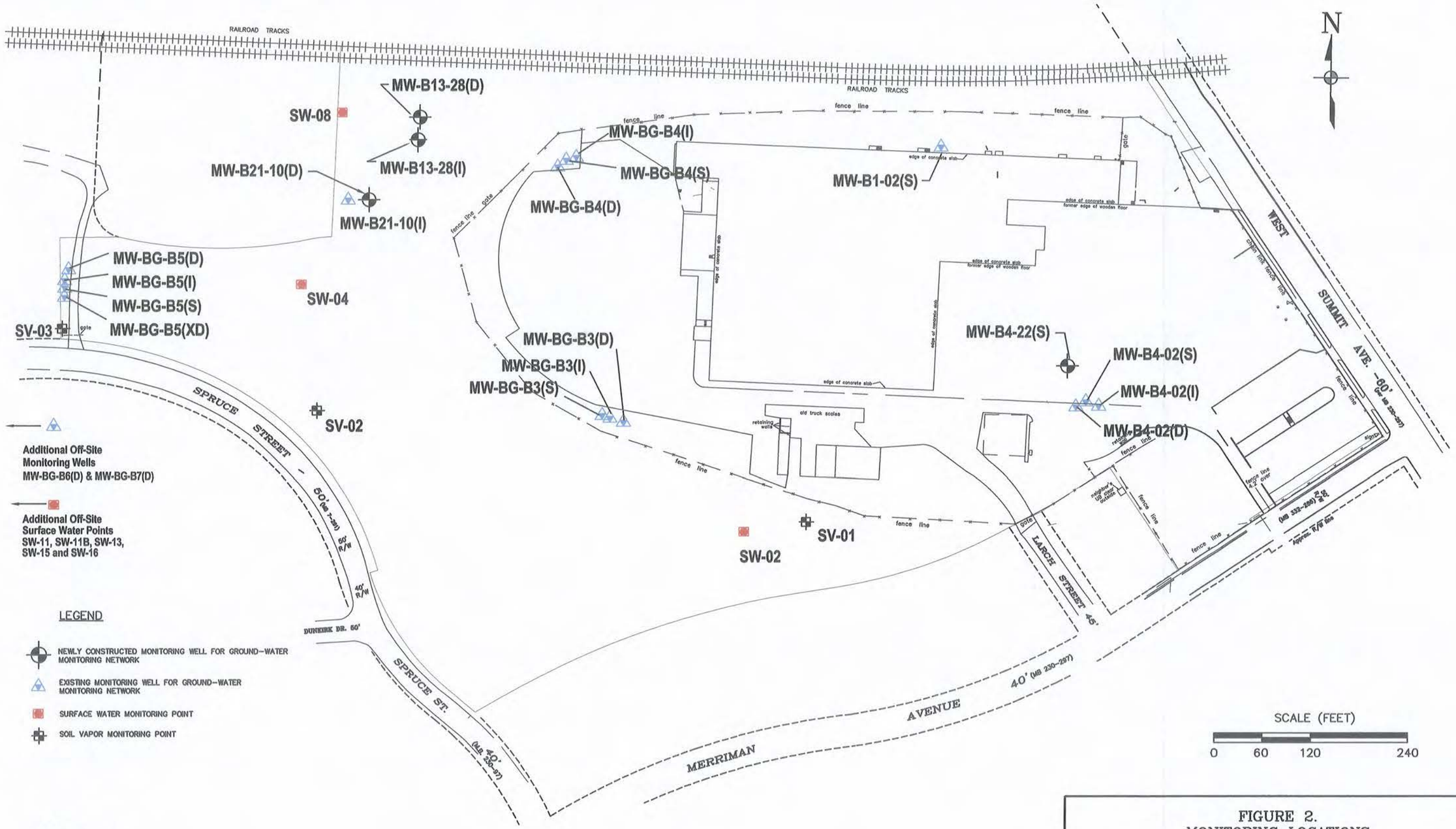


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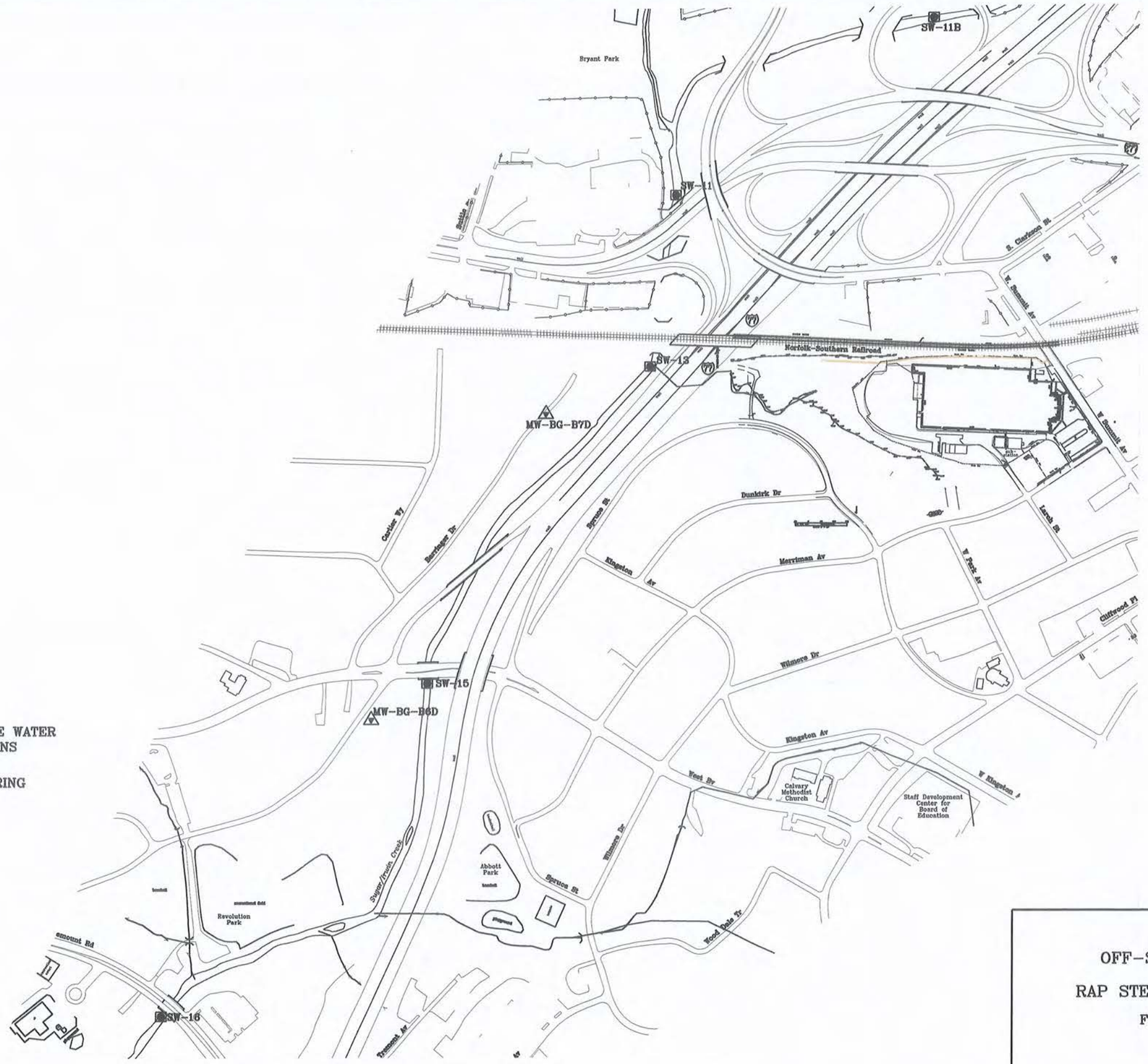
FIGURE 2.
MONITORING LOCATIONS

RAP STEP TWO – PRECHARACTERIZATION

FORMER COPES-VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC



N

LEGEND

OFF-SITE SURFACE WATER SAMPLING LOCATIONS

OFF-SITE MONITORING WELL LOCATIONS

SCALE: 1" = 500'

0 250 500 1000

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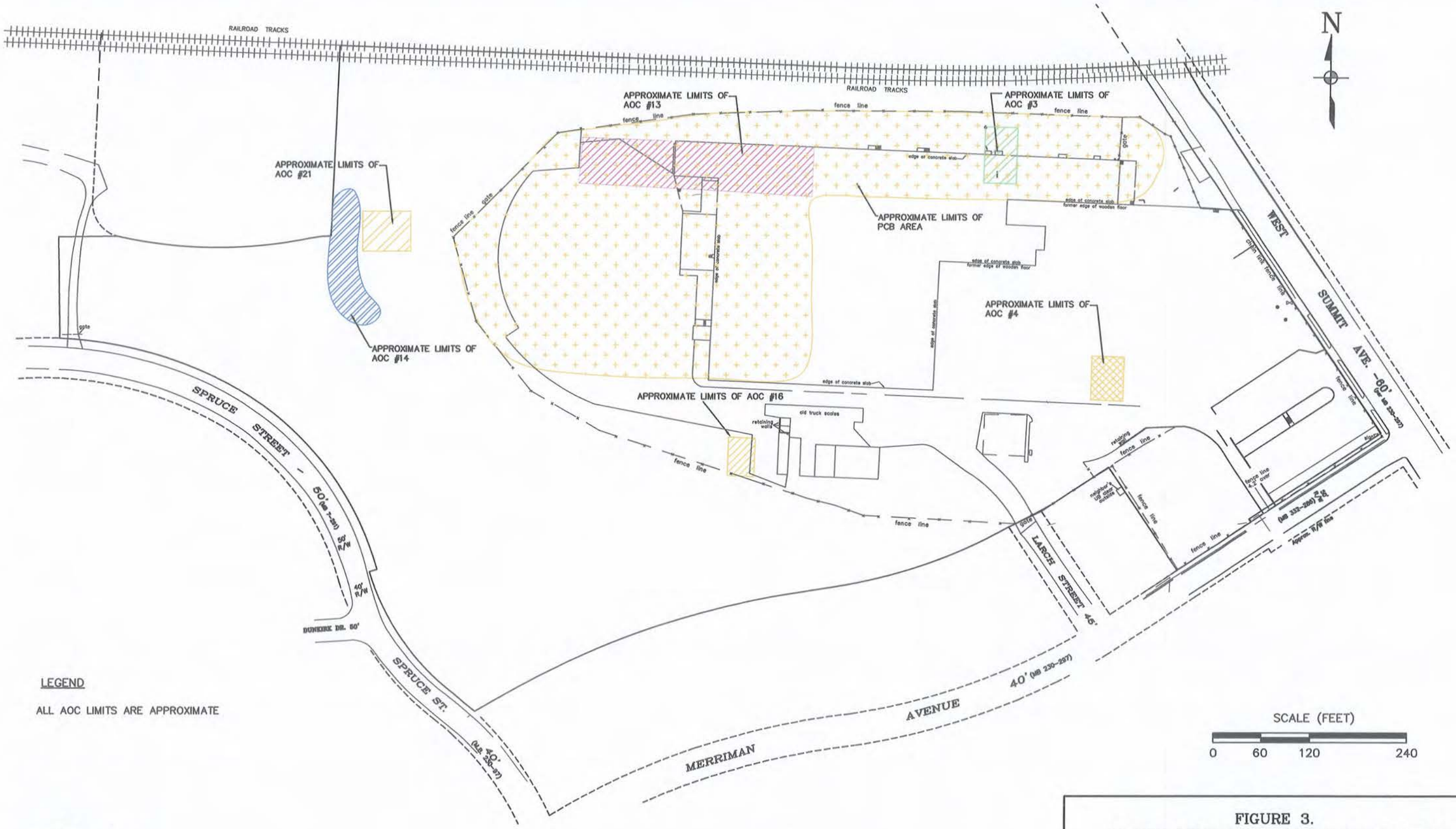
FIGURE 2B.
OFF-SITE MONITORING LOCATIONS

RAP STEP TWO - PRECHARACTERIZATION

FORMER COPES-VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC



LEGEND

ALL AOC LIMITS ARE APPROXIMATE

SCALE (FEET)

0 60 120 240

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FIGURE 3.
IN SITU REMEDIATION AREAS OF CONCERN

RAP STEP TWO – PRECHARACTERIZATION

FORMER COPES–VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC

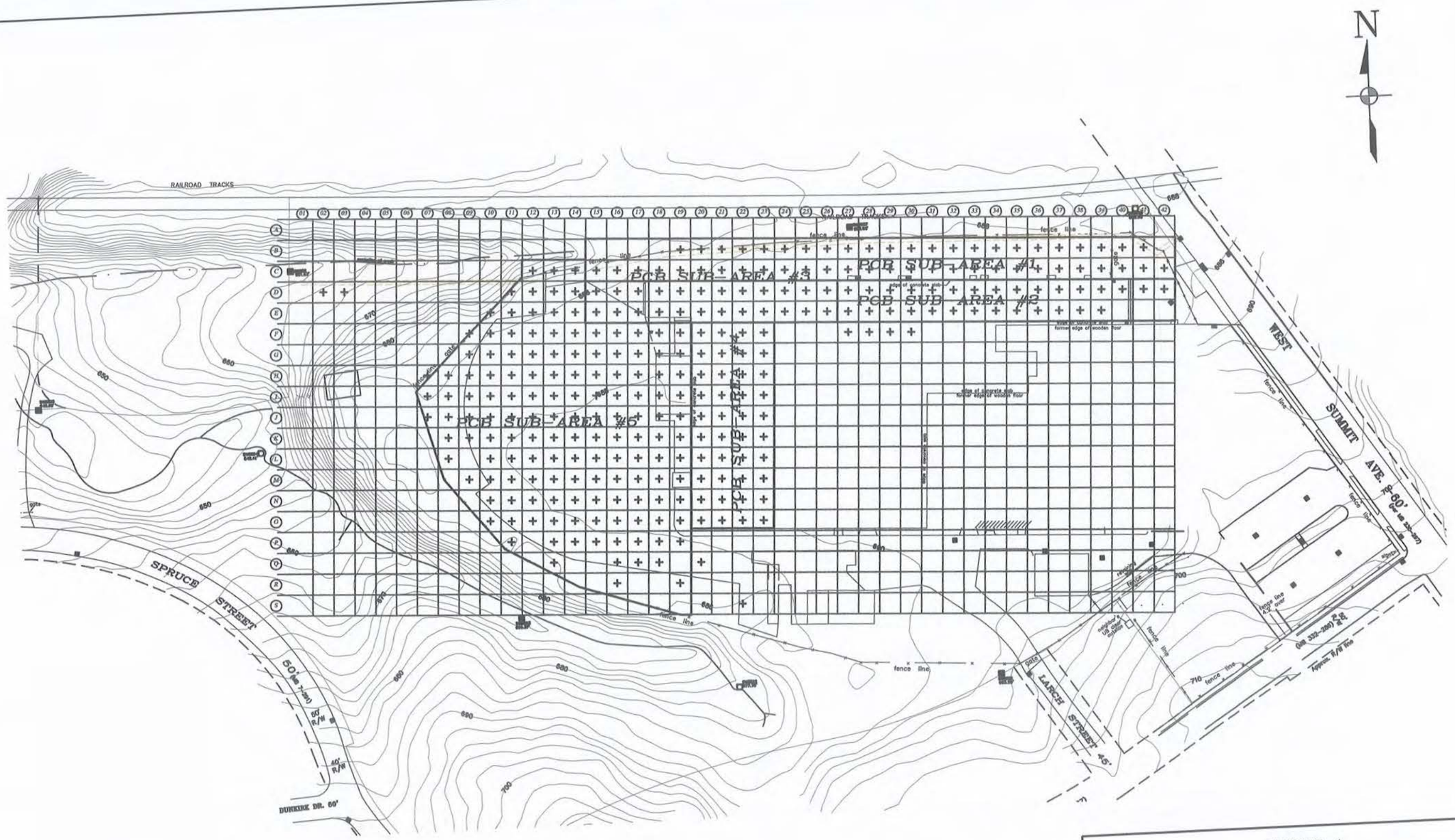

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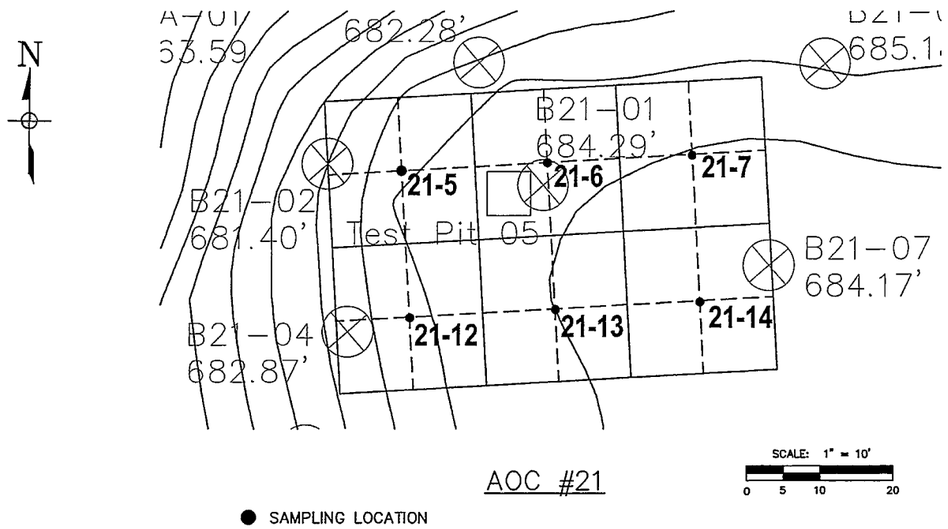
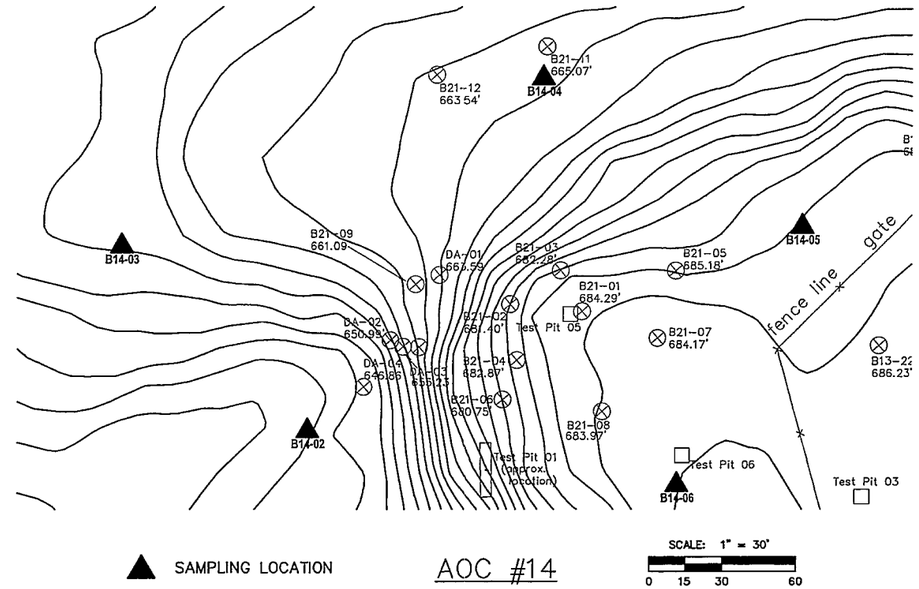
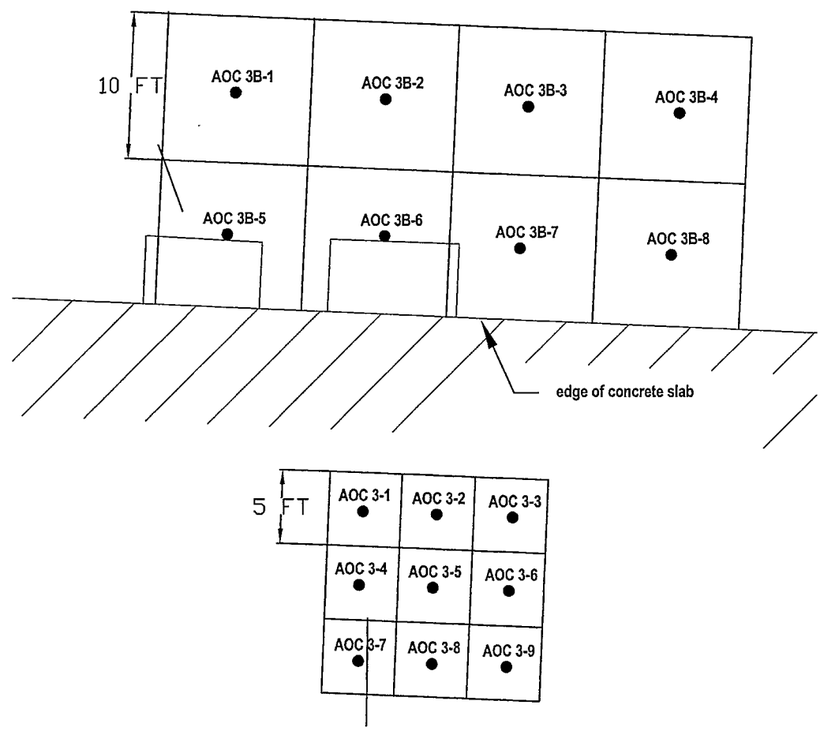
FIGURE 4.
SAMPLING GRID

RAP STEP TWO – PRECHARACTERIZATION

FORMER COPES-VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC







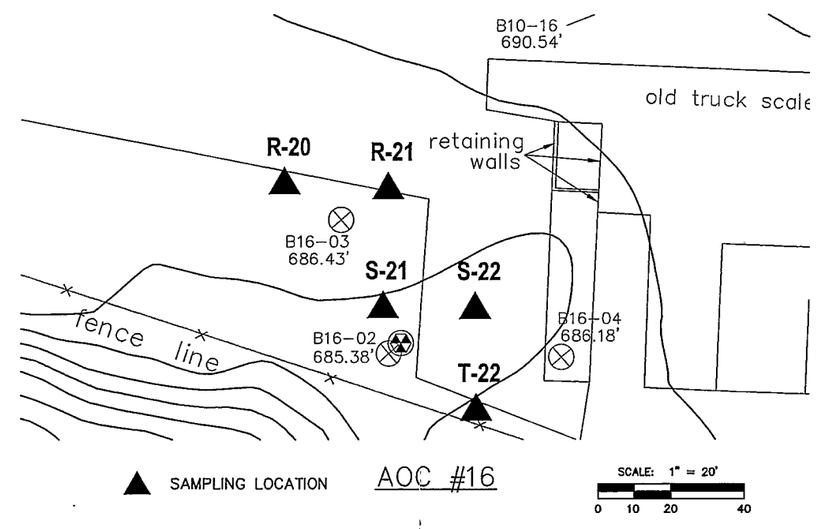


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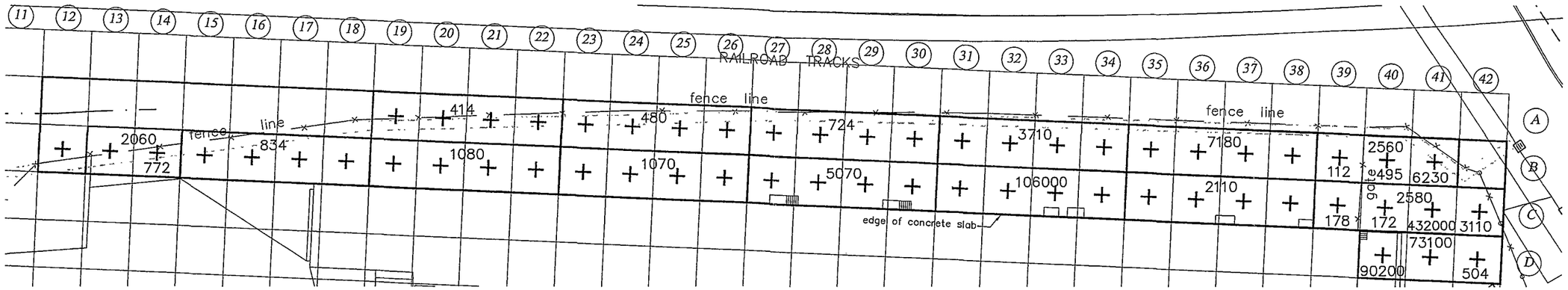
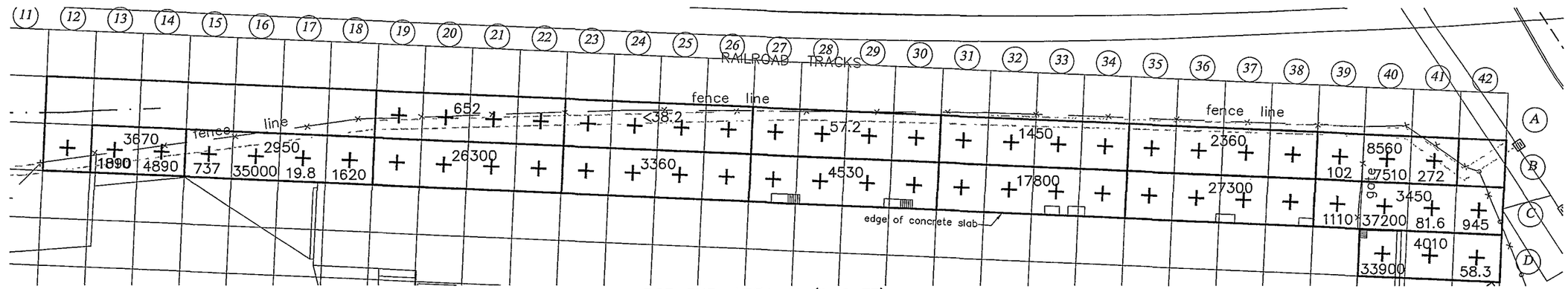
FIGURE 5.
SAMPLING LOCATIONS FOR PRECHARACTERIZATION OF WASTE

RAP STEP TWO – PRECHARACTERIZATION

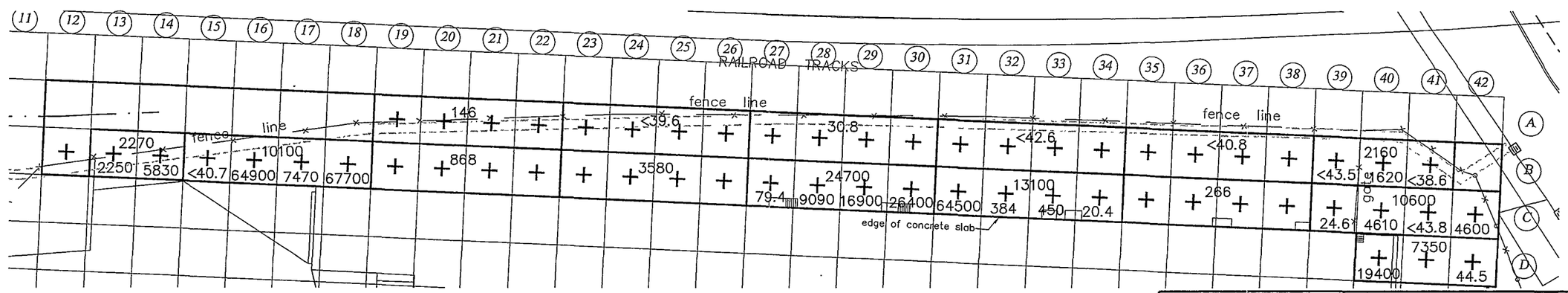
FORMER COPES–VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC



PCB SUB-AREA #1 (0-1 FT)



PCB SUB-AREA #1 (1-2 FT)



PCB SUB-AREA #1 (2-3 FT)

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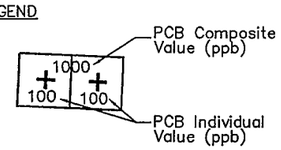


SCALE: 1" = 60'

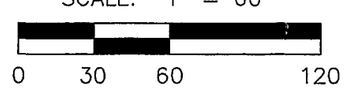
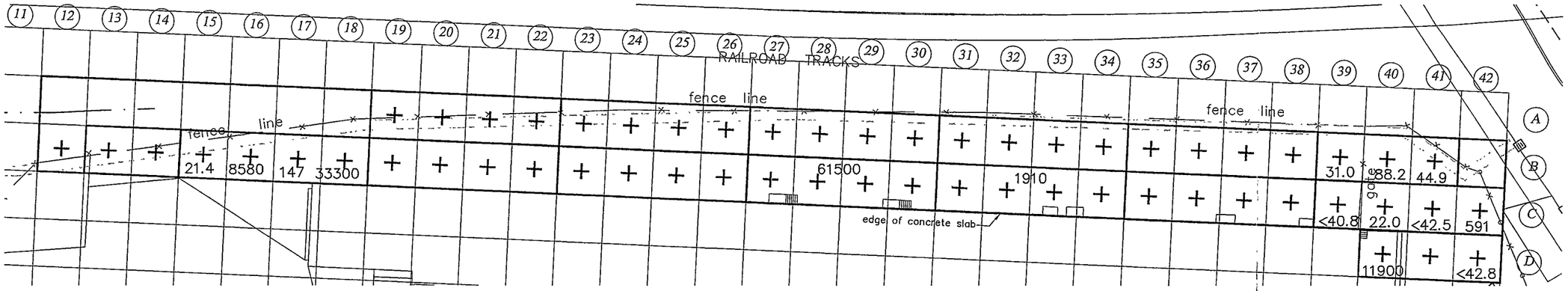


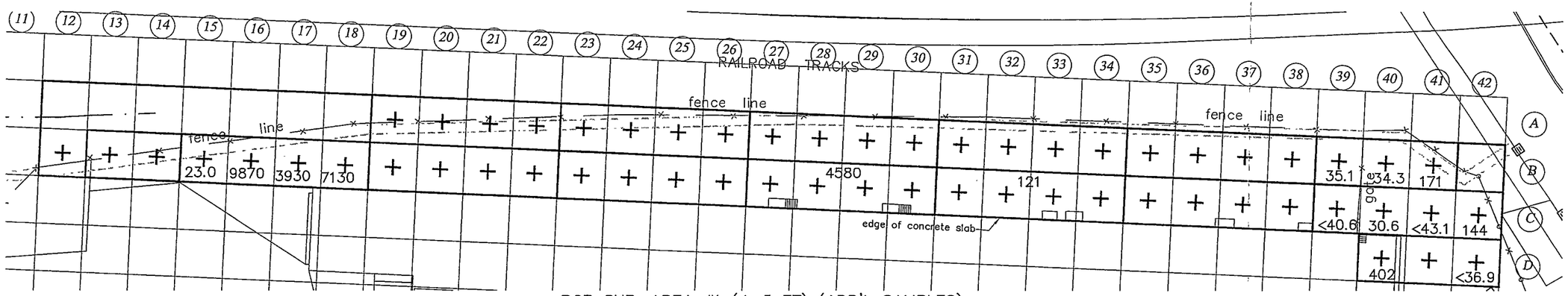
FIGURE 6-1
PCB SAMPLING RESULTS

RAP STEP TWO – PRECHARACTERIZATION

FORMER COPES-VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC



PCB SUB-AREA #1 (3-4 FT) (ADD'L SAMPLES)



PCB SUB-AREA #1 (4-5 FT) (ADD'L SAMPLES)

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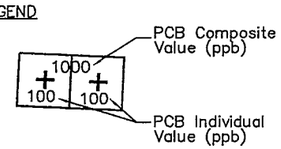


SCALE: 1" = 60'

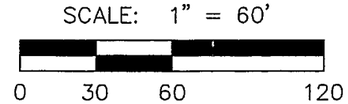
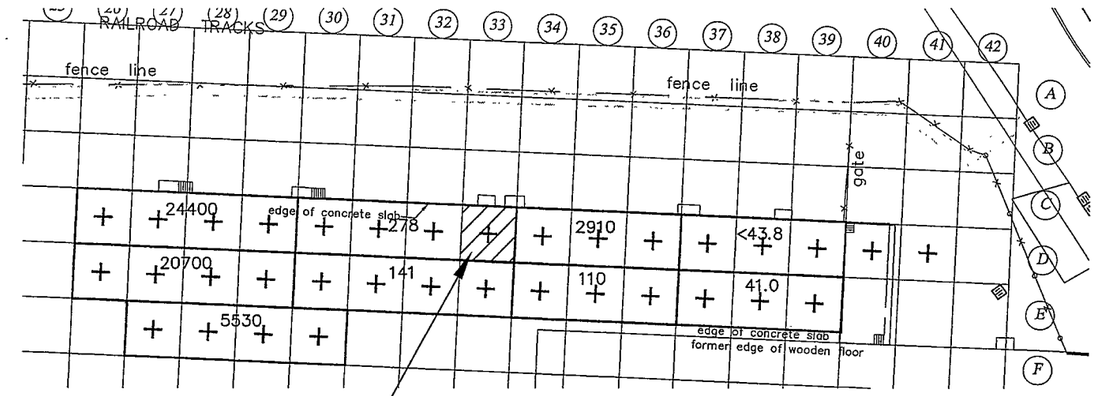


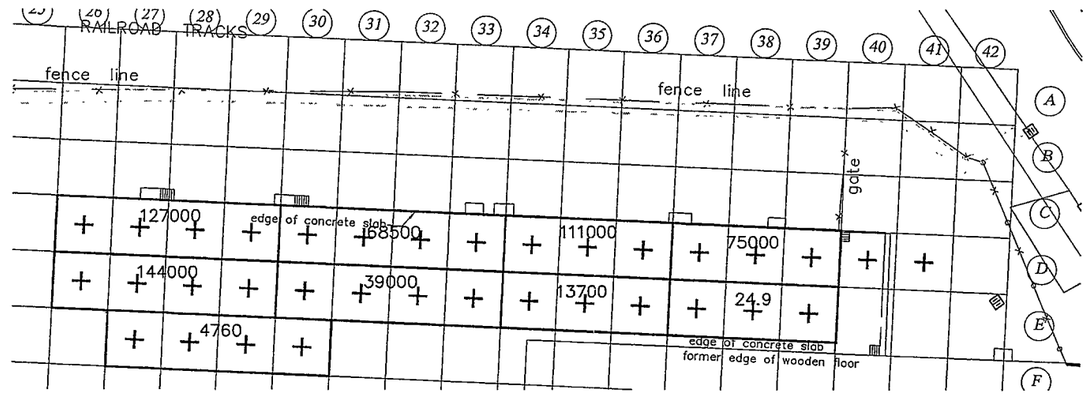
FIGURE 6-2
PCB SAMPLING RESULTS

RAP STEP TWO – PRECHARACTERIZATION

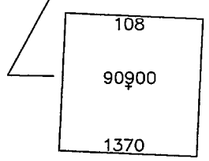
FORMER COPES-VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC



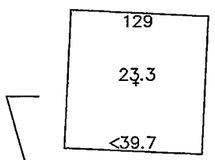
PCB SUB-AREA #2 (1.5-2.5 FT)



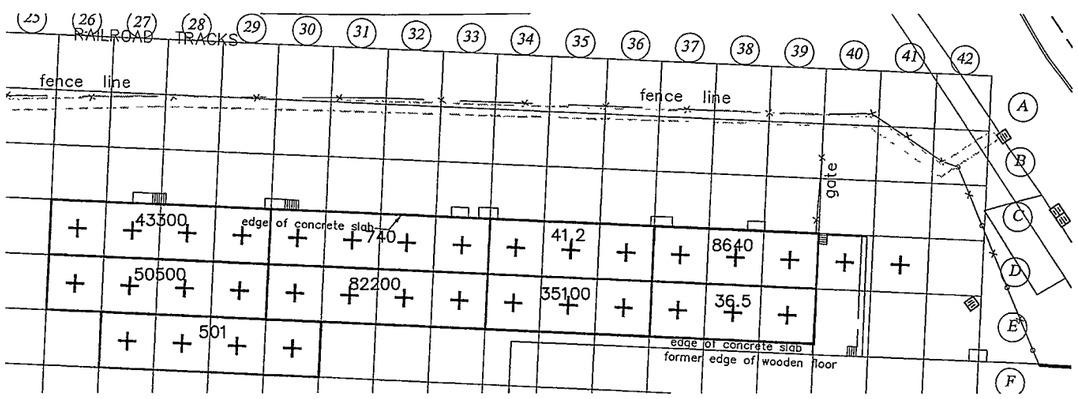
PCB SUB-AREA #2 (3.5-4.5 FT)



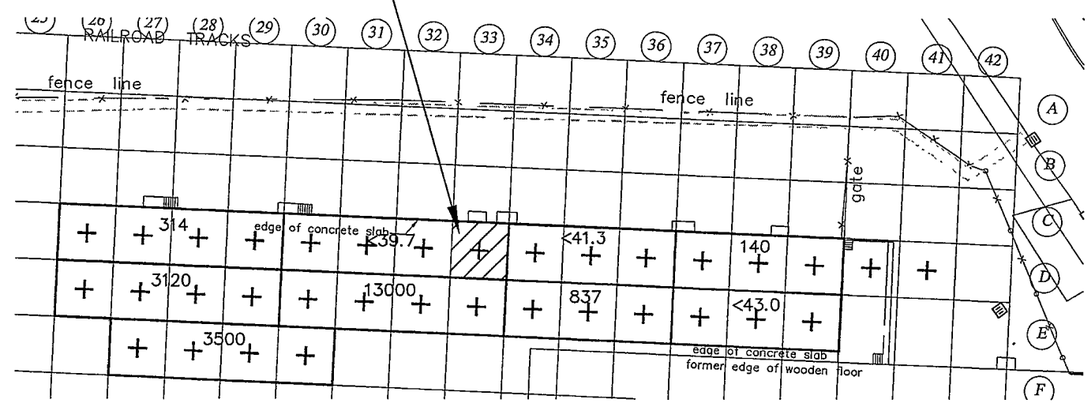
AOC-3 (CELL D33; 1.5-2.5 FT)



AOC-3 (CELL D33; 5-6 FT)



PCB SUB-AREA #2 (4.5-5.5 FT)



PCB SUB-AREA #2 (5.5-6.5 FT)

E30-E33 COMPOSITE:
(6.5-7.5): 31.5
(7.5-8.5): 28.2

F27-F30 COMPOSITE:
(6.5-7.5): <41.8
(7.5-8.5): <41.0

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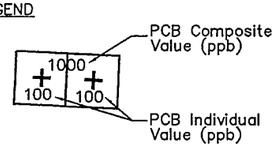


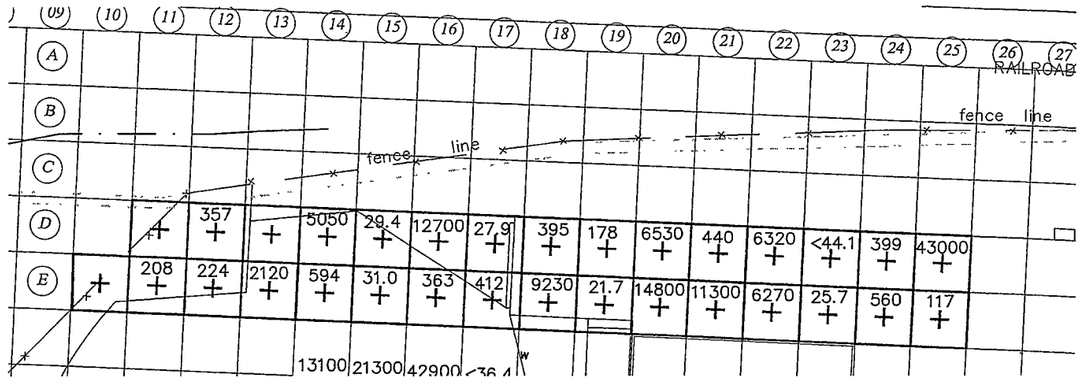
SCALE: 1" = 60'

0 30 60 120

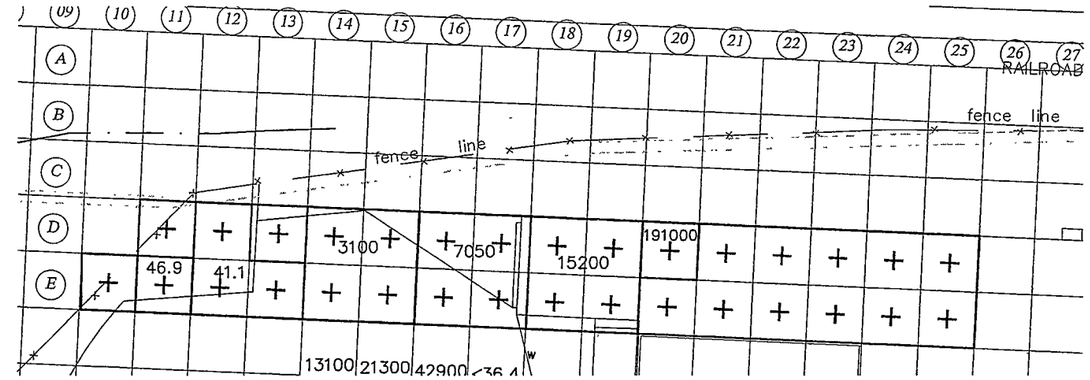
FIGURE 6-3
PCB SAMPLING RESULTS

RAP STEP TWO - PRECHARACTERIZATION

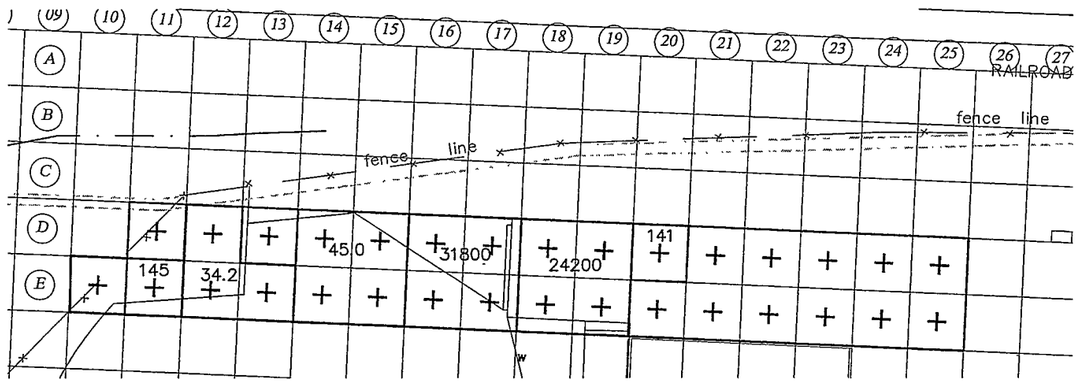
FORMER COPES-VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC



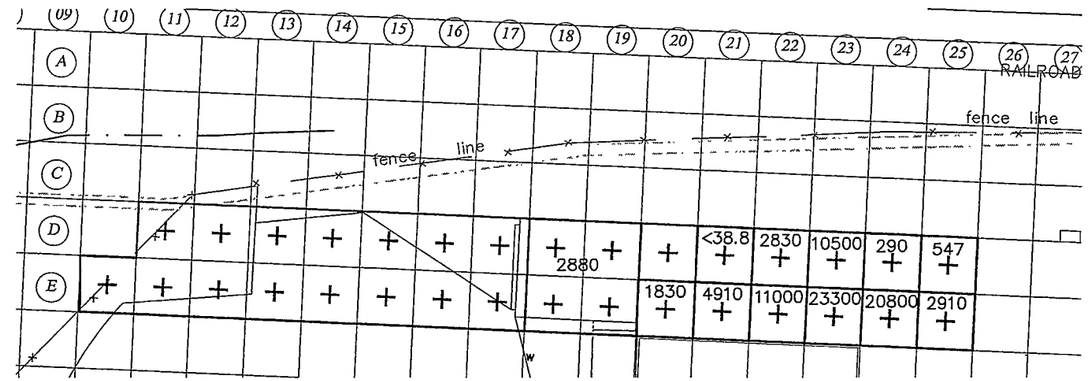
PCB SUB-AREA #3 (1-2 FT) AND (1.5-2.5 FT)



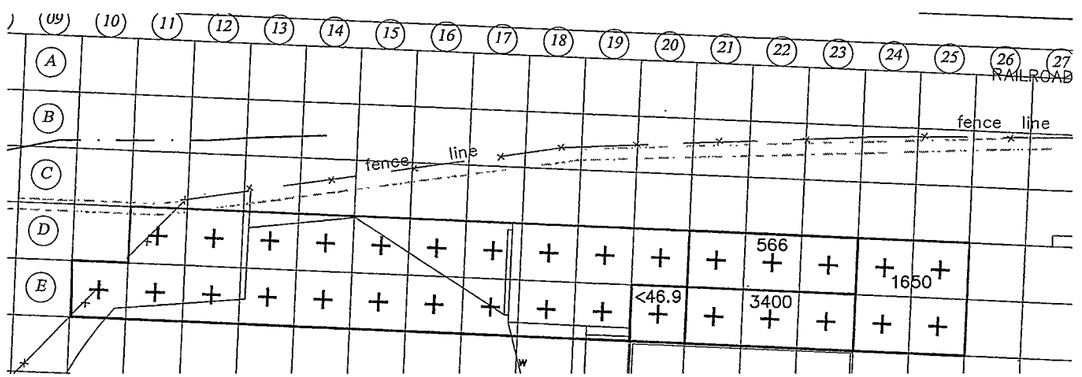
PCB SUB-AREA #3 (3-4 FT)



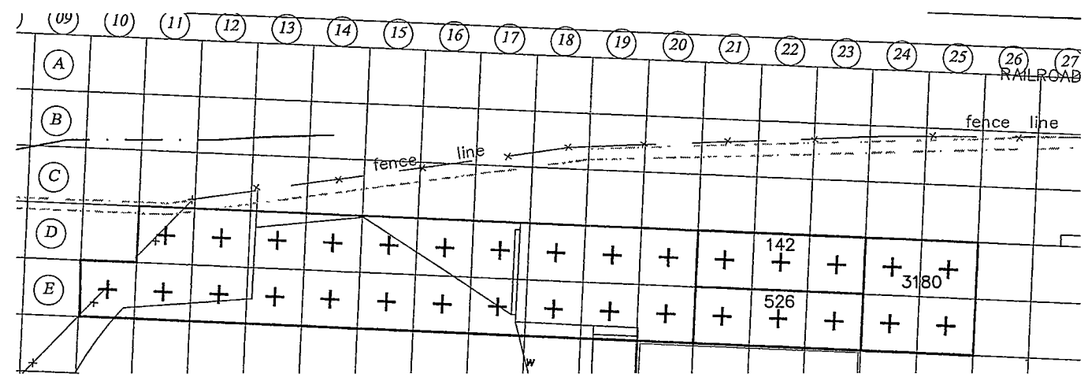
PCB SUB-AREA #3 (4-5 FT)



PCB SUB-AREA #3 (5-6 FT) AND (5.5-6.5 FT)



PCB SUB-AREA #3 (7.5-8.5 FT)



PCB SUB-AREA #3 (8.5-9.5 FT)

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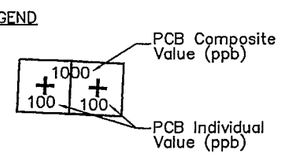
LEGEND



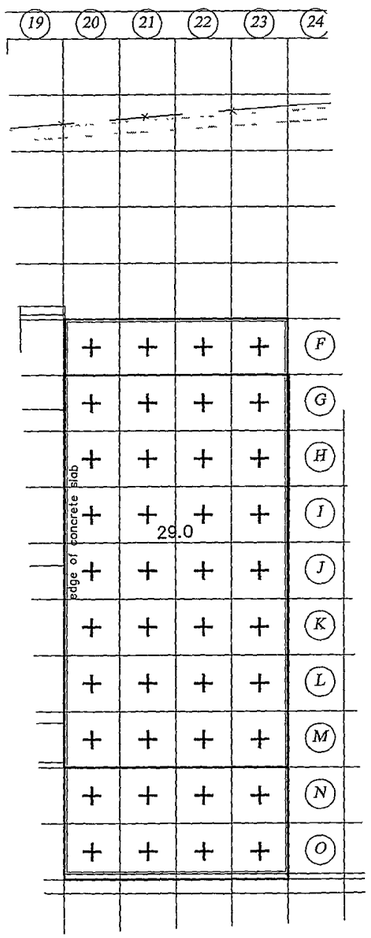
SCALE: 1" = 60'

0 30 60 120

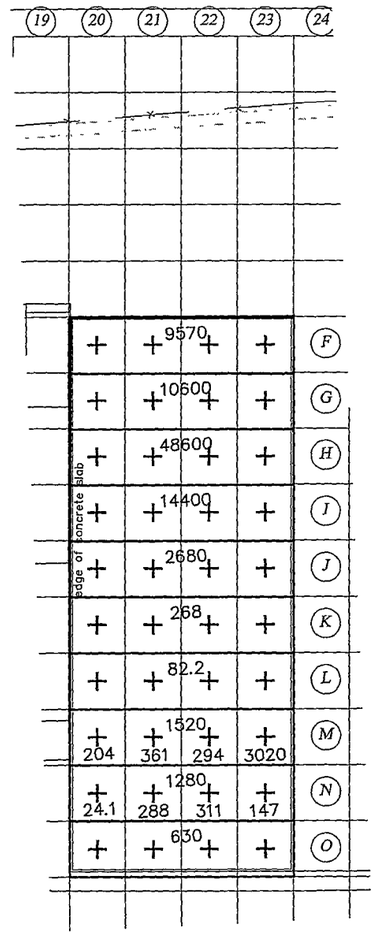
FIGURE 6-4
PCB SAMPLING RESULTS

RAP STEP TWO - PRECHARACTERIZATION

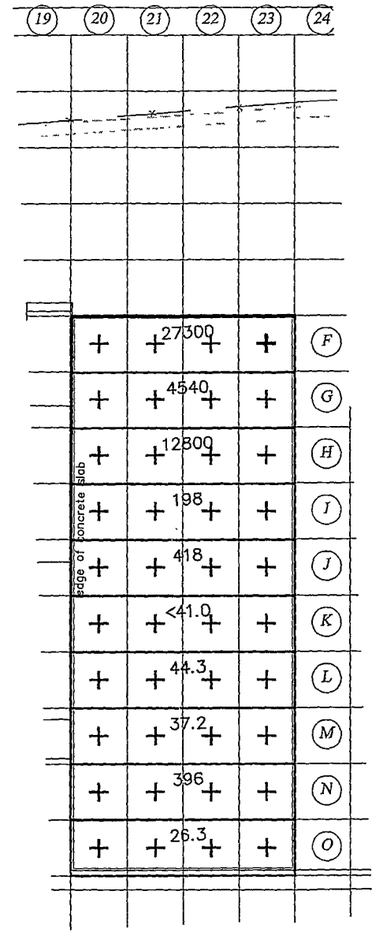
FORMER COPES-VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC



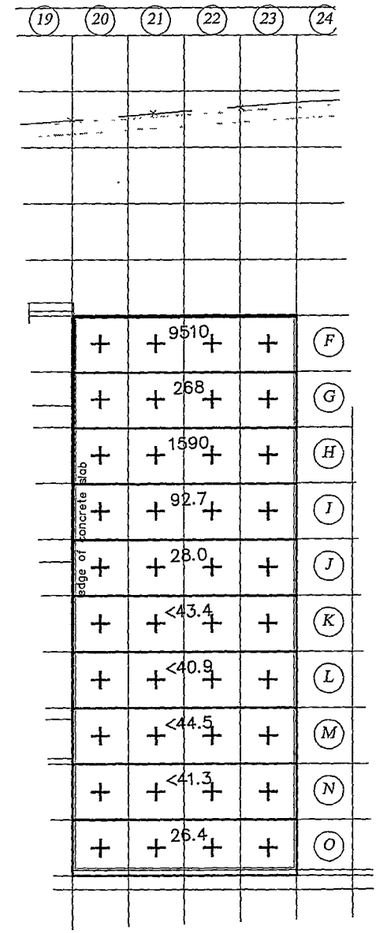
PCB SUB-AREA #4 (0-0.5 FT)



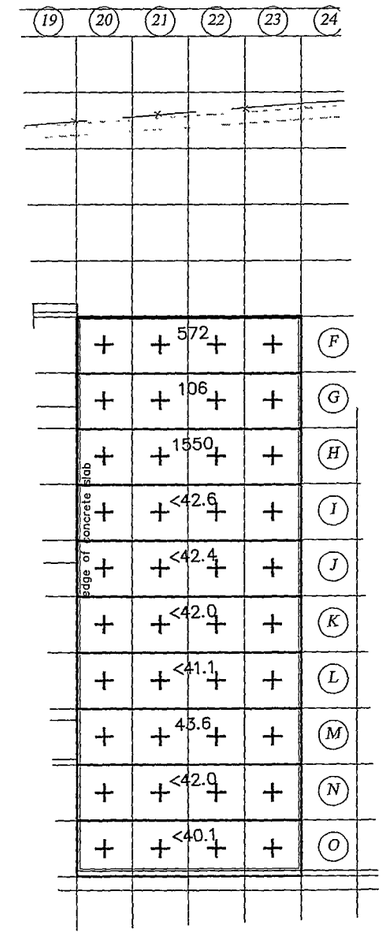
PCB SUB-AREA #4 (1-2 FT)



PCB SUB-AREA #4 (3-4 FT)

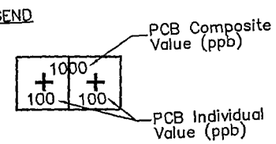


PCB SUB-AREA #4 (4-5 FT)



PCB SUB-AREA #4 (5-6 FT)

LEGEND



SCALE: 1" = 60'

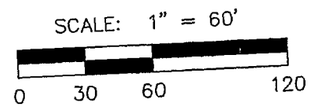


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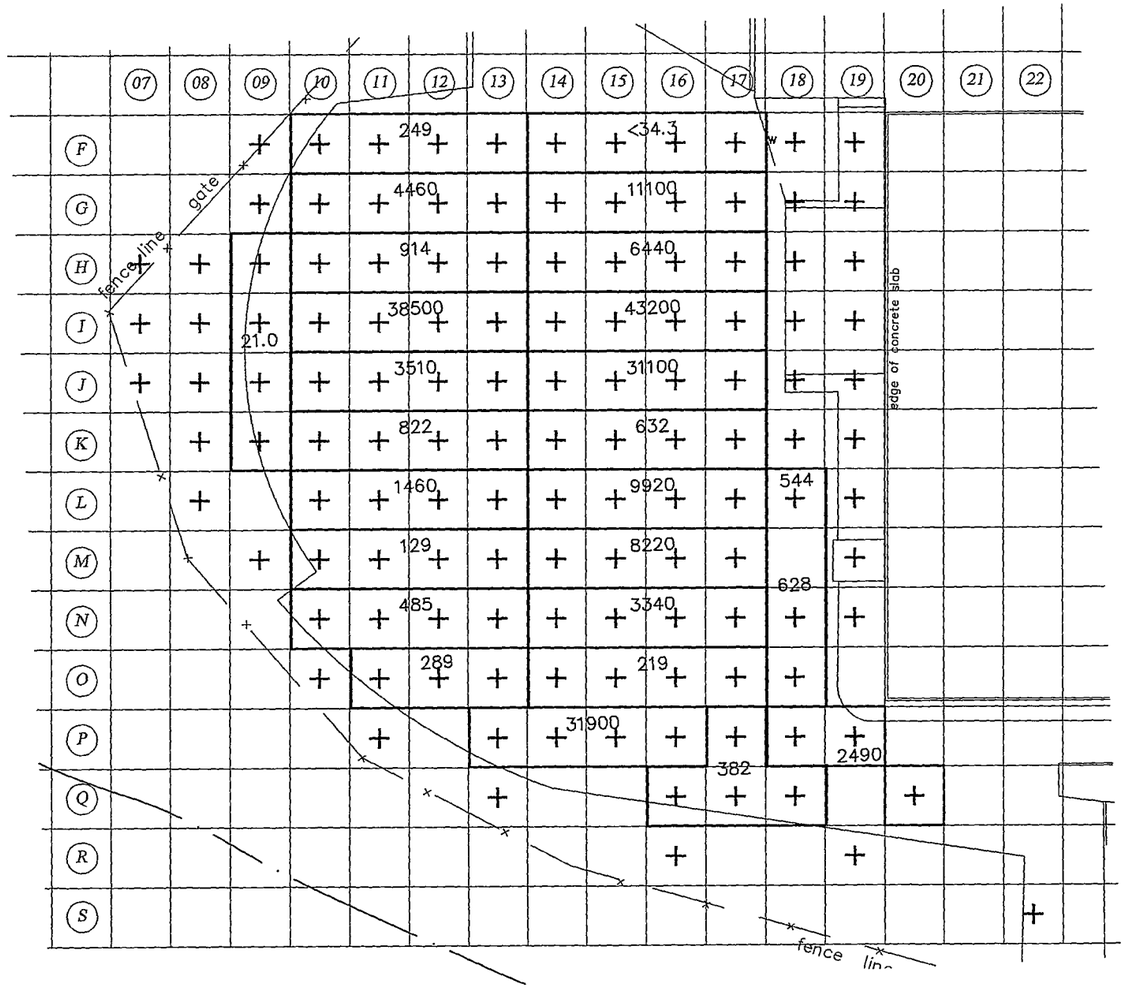
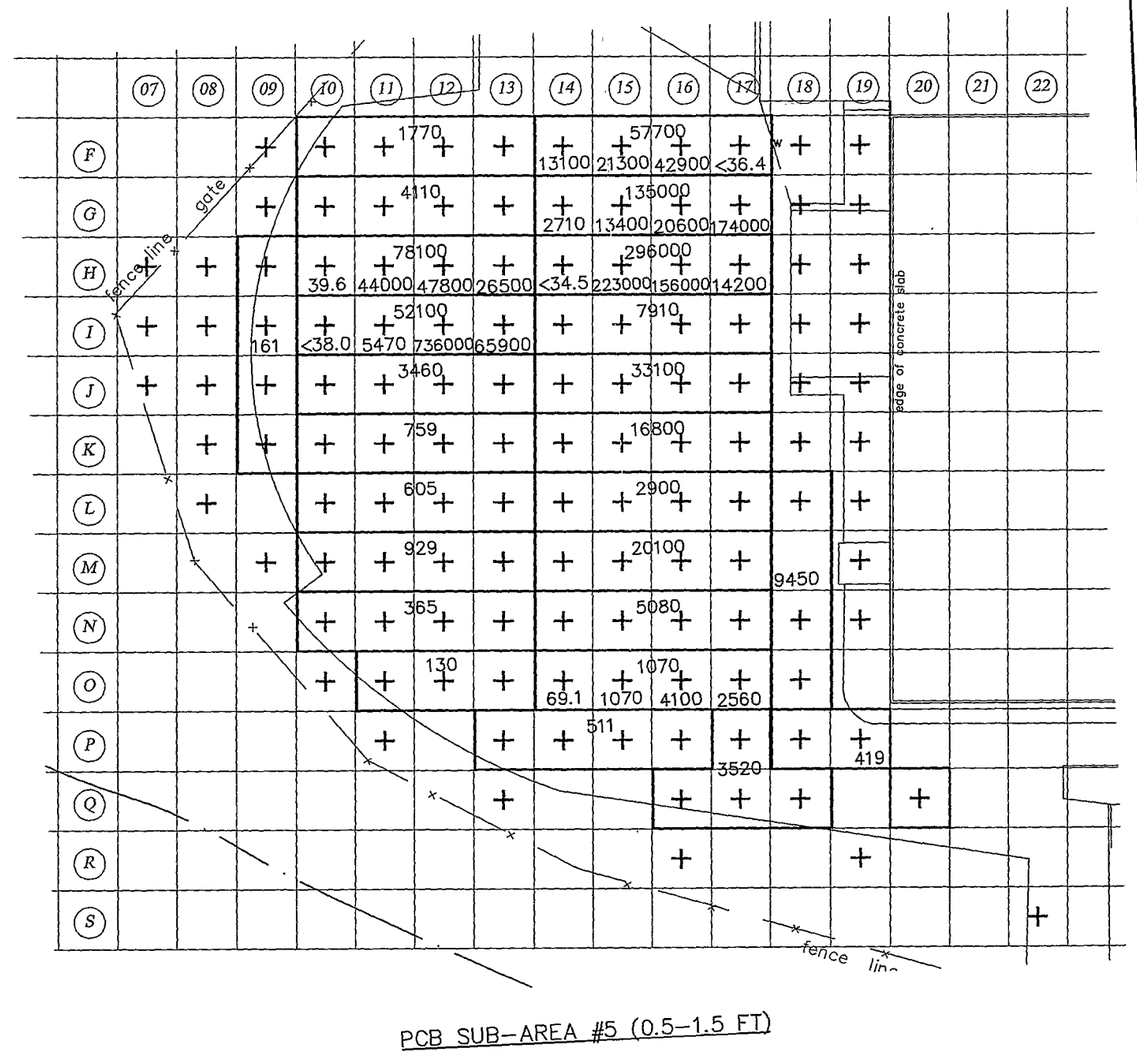
FIGURE 6-5
PCB SAMPLING RESULTS

RAP STEP TWO – PRECHARACTERIZATION

FORMER COPES-VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC



PCB SUB-AREA #5 (0-0.5 FT)



PCB SUB-AREA #5 (0.5-1.5 FT)

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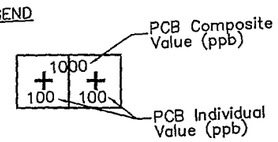


SCALE: 1" = 60'

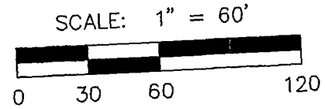
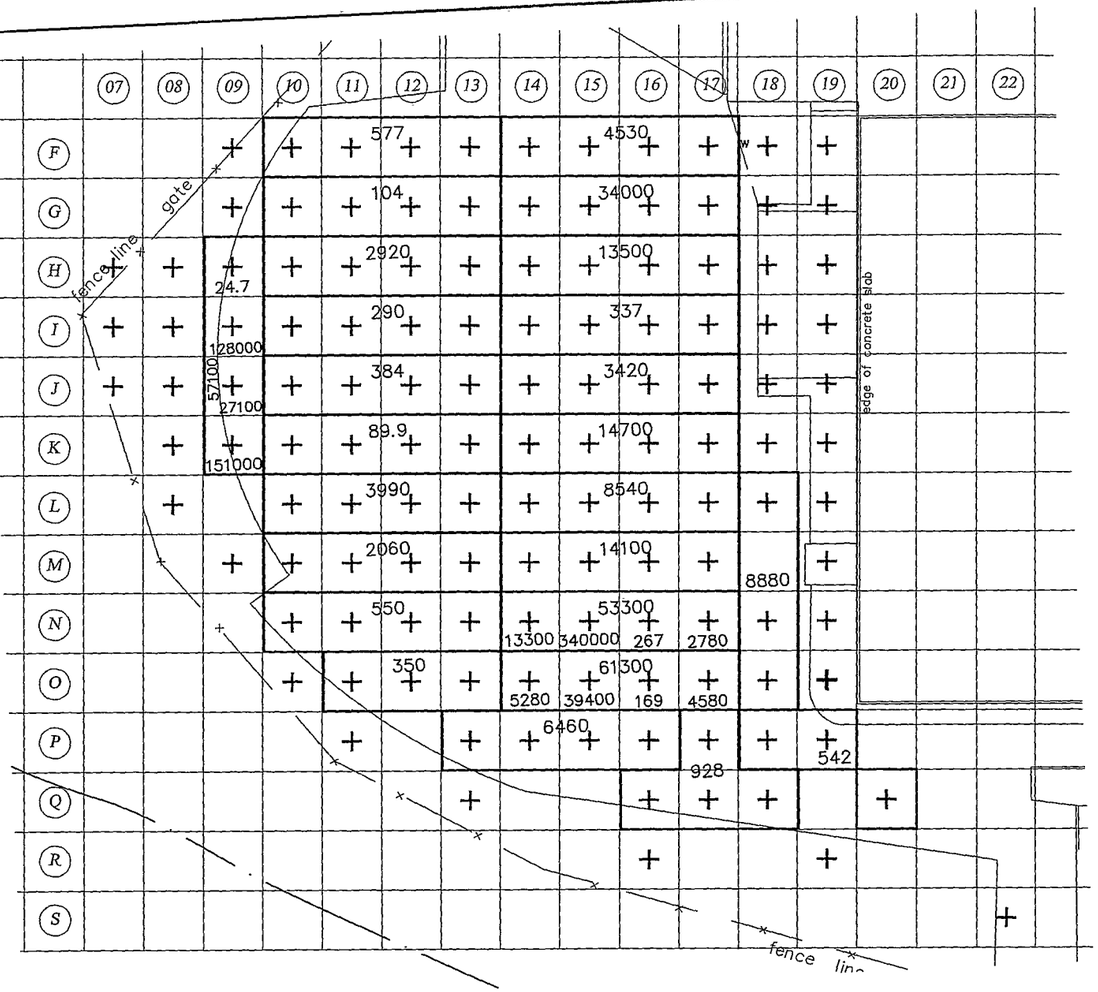


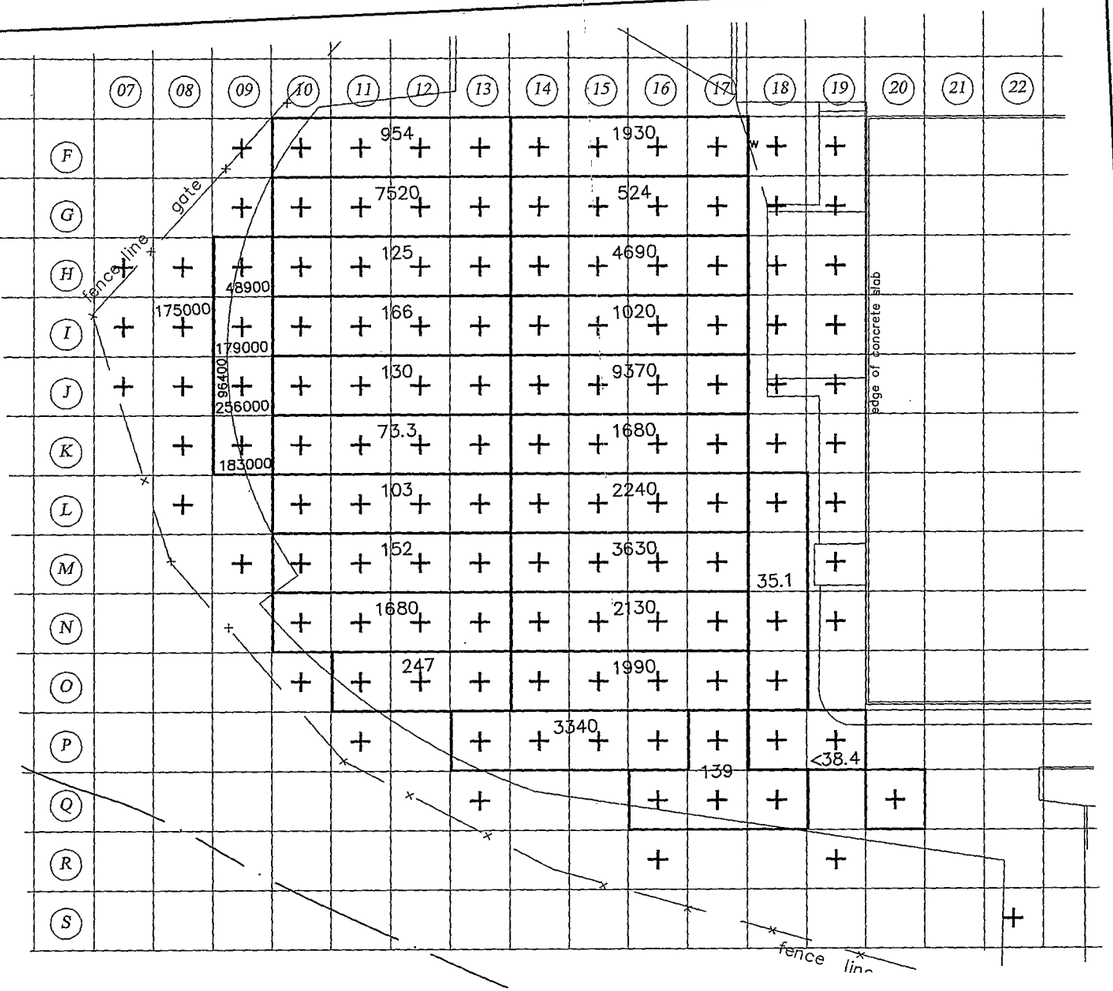
FIGURE 6-6
PCB SAMPLING RESULTS

RAP STEP TWO - PRECHARACTERIZATION

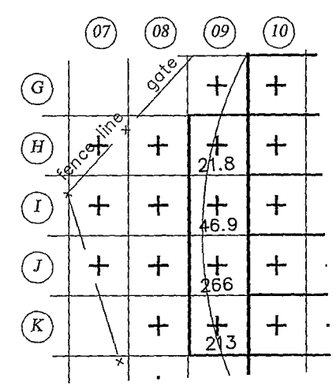
FORMER COPES-VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC



PCB SUB-AREA #5 (1.5-2.5 FT)

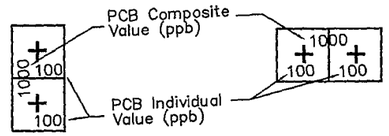


PCB SUB-AREA #5 (2.5-3.5 FT)

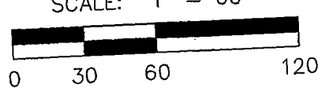


PCB SUB-AREA #5 (3.5-4.5 FT)

LEGEND



SCALE: 1" = 60'

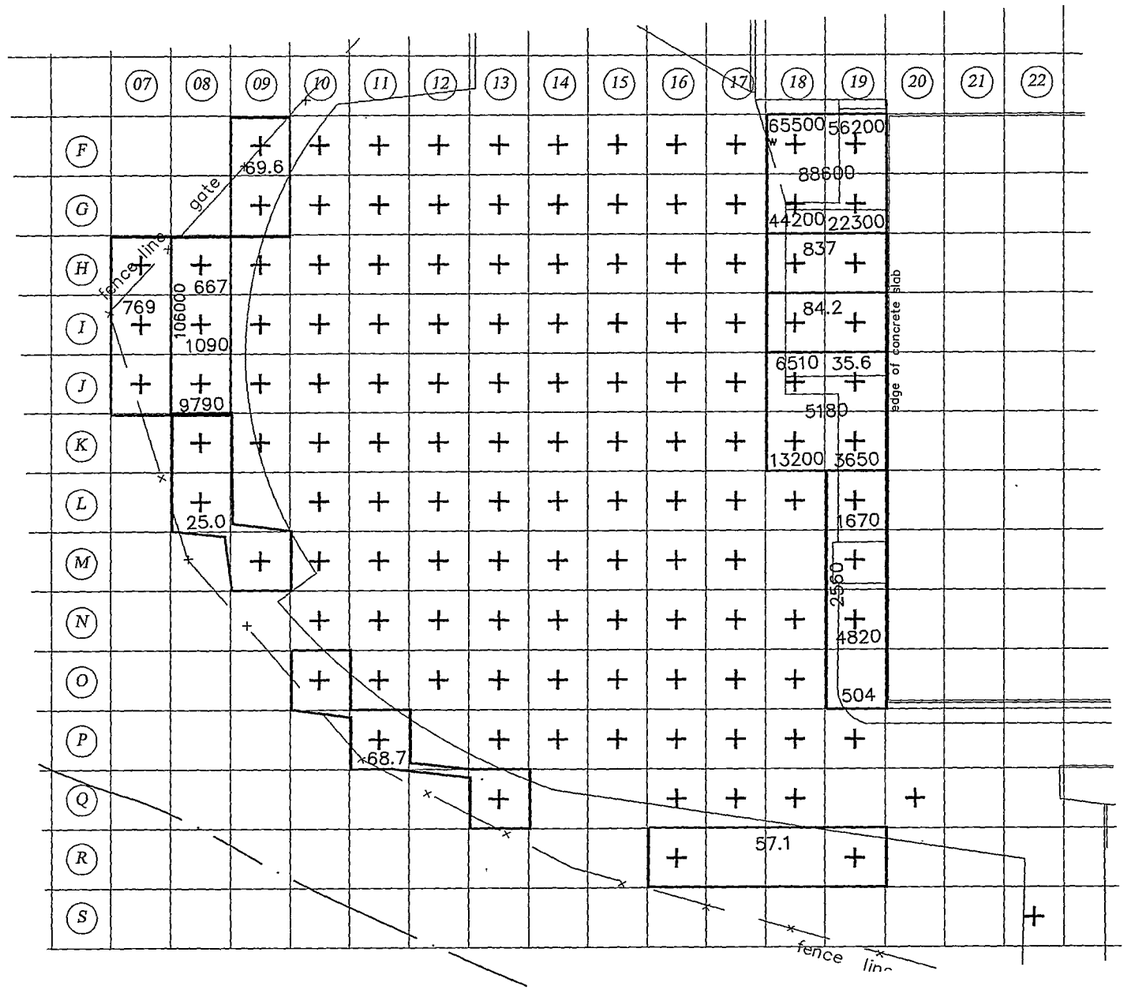


KELLY-BUCK
COMPANY
Civil & Environmental Engineers
2130 Superior Ave., Suite 3-A
Cleveland, OH 44114
(216) 861-1716

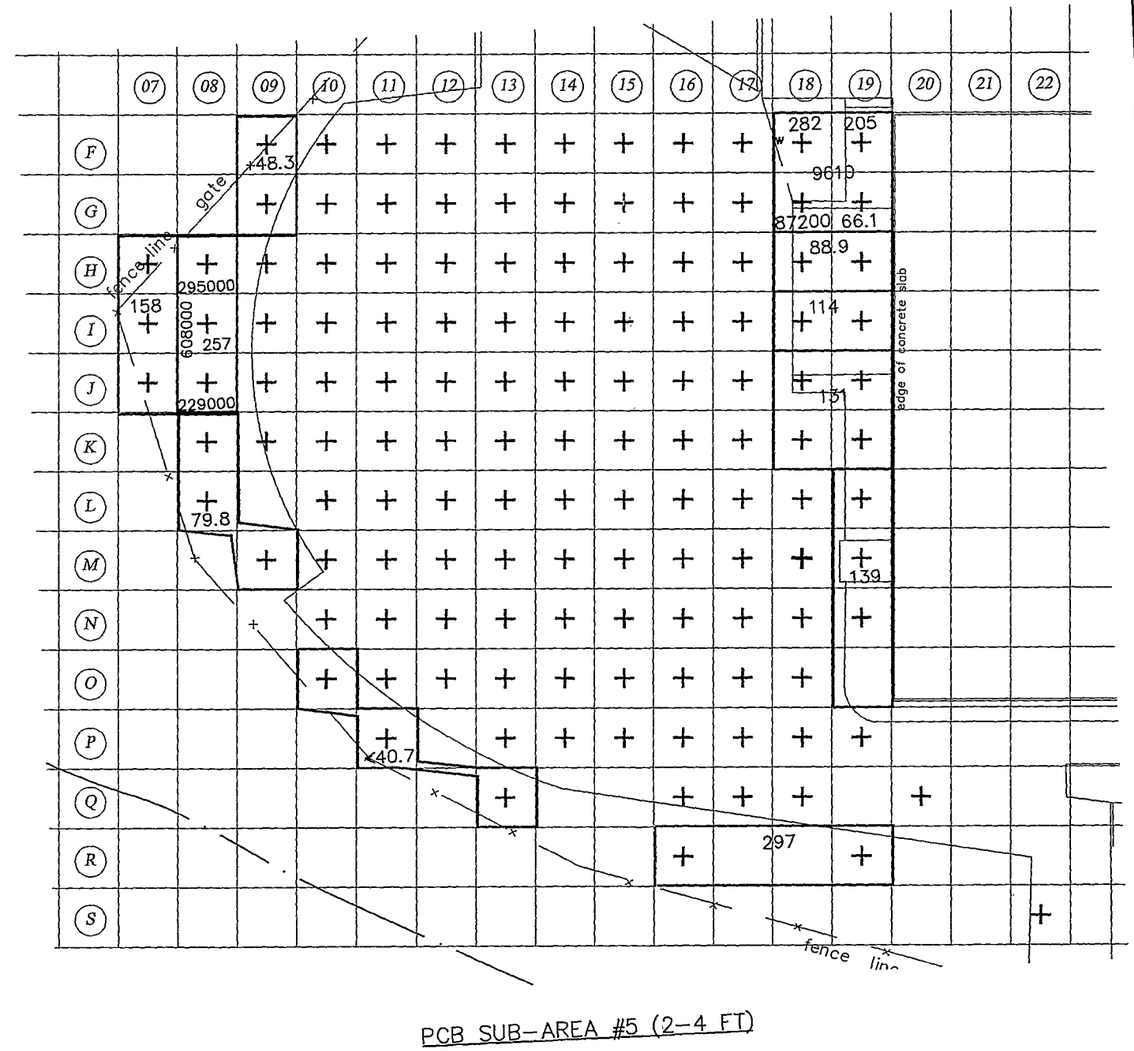
FIGURE 6-7
PCB SAMPLING RESULTS

RAP STEP TWO - PRECHARACTERIZATION

FORMER COPES-VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC

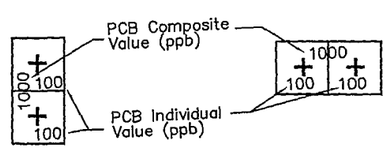


PCB SUB-AREA #5 (0-2 FT)



PCB SUB-AREA #5 (2-4 FT)

LEGEND



SCALE: 1" = 60'

0 30 60 120

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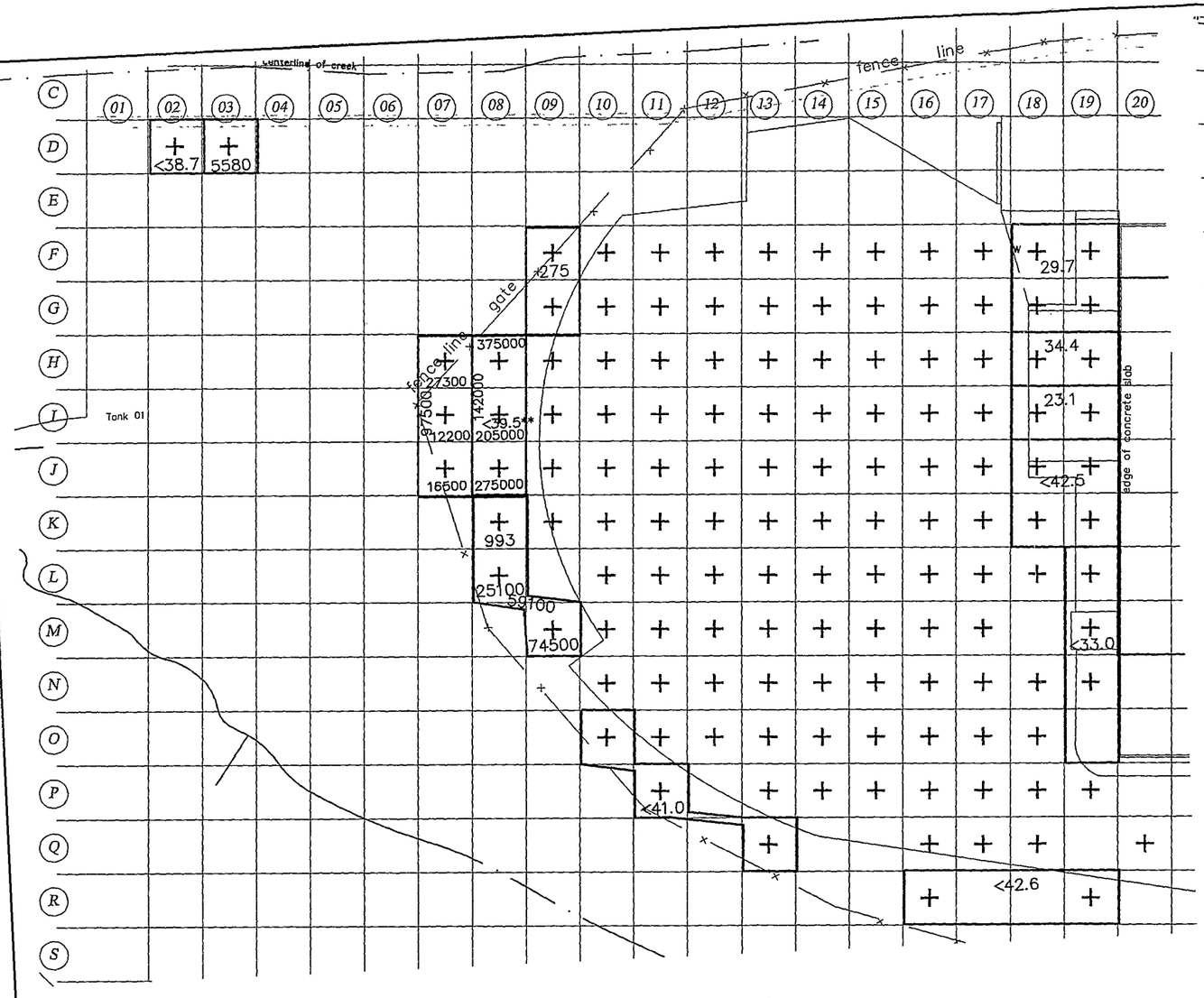
Cleveland, OH 44114
(216) 861-1716

FIGURE 6-8
PCB SAMPLING RESULTS

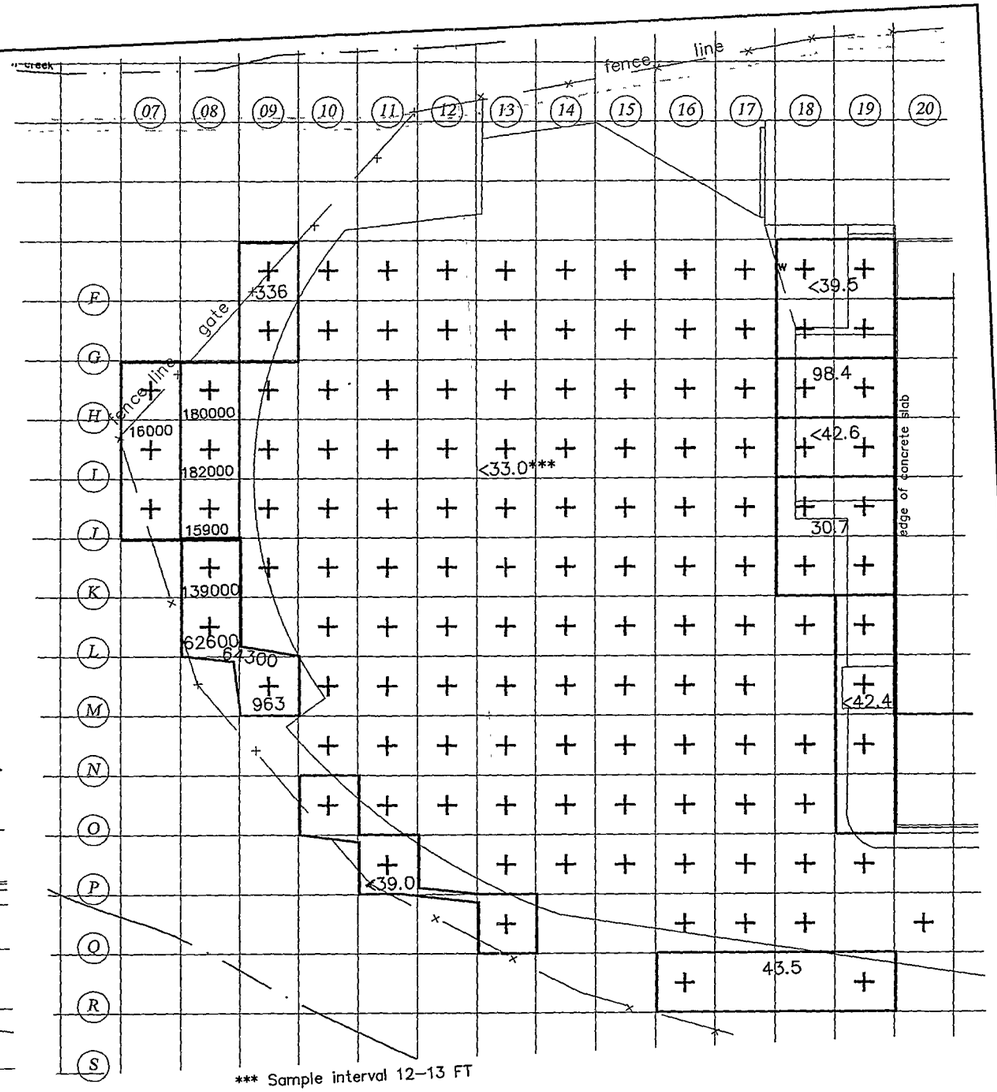
RAP STEP TWO – PRECHARACTERIZATION

FORMER COPES-VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC



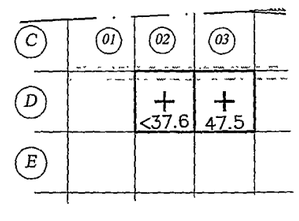
** Sample interval 20–21 FT

PCB SUB-AREA #5 (4–6 FT)

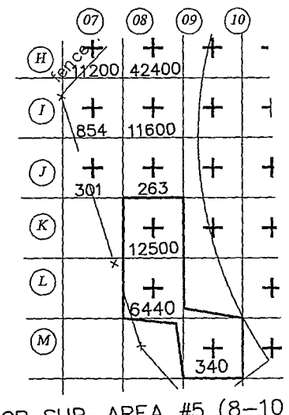


*** Sample interval 12–13 FT

PCB SUB-AREA #5 (6–8 FT)



PCB SUB-AREA #5 (8–10 FT)

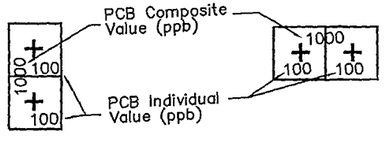


PCB SUB-AREA #5 (8–10 FT)

SCALE: 1" = 60'

0 30 60 120

LEGEND



KELLY-BUCK COMPANY
Civil & Environmental Engineers
2130 Superior Ave., Suite 3-A
Cleveland, OH 44114
(216) 861-1716

FIGURE 6–9
PCB SAMPLING RESULTS

RAP STEP TWO – PRECHARACTERIZATION

FORMER COPES–VULCAN FACILITY
601 WEST SUMMIT AVENUE
CHARLOTTE, NC

APPENDIX A

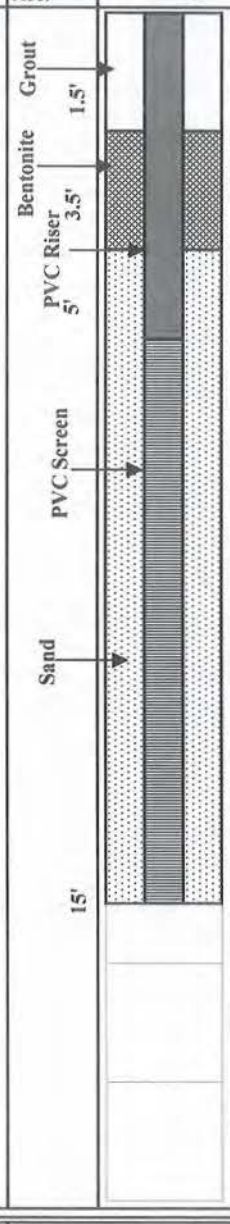
MONITORING WELL COMPLETION LOGS

KELLY–BUCK

SOIL BORING LOG

Project Name:	Project No:	Location:	Boring/Well No:
Copes-Vulcan, Pre-Remedial Characterization	2001.01.07.14	601 W. Summit Ave. Charlotte, NC	MW-B4-22(S)

Depth in Feet	Lithologic Description	Graphic Log	Unified Soil Class	Blow Count	Headspace PID (ppm)	Soil Sample No.	Type	Depth	Rec.	Monitoring Well Diagram
	Silty clay from 0 to 15 feet, low moisture content.		CL							
5										
	Silty clay from 10 to 15 feet, saturated soil cuttings.									
10										
	Set well to 15 feet. Set 2-inch pvc screen from 5 to 15 feet. Set 2-inch pvc riser from 0 to 5 feet. Silica sand filter pack from 3.5 to 15 feet. Bentonite pellet seal from 1.5 to 3.5 feet. Grout with cement to grade. Flush mount well. Depth to water from top of casing (11/20/08) 8.02 feet.									
15	Total Depth to water from top of casing (11/20/08) 14.88 feet. Productive well with moderate to high turbidity (228.0 to 1000 ntu), but settles quickly.									
20										



EXPLANATION

- WATER TABLE (24 hr.)
- Water Table (Time of Boring)
- PID — Photoionization Detection
- NO. — Identifies Sample by Number
- TYPE — Sample Collection Method
- SPLIT–BARREL
- AUGER
- ROCK CORE
- THIN–WALLED TUBE
- CONTINUOUS SAMPLER
- NO RECOVERY
- DEPTH — Depth Top and Bottom of Sample
- REC. — Actual Length of Recovered Sample in Feet

Graphic Log Legend

- Clay
- Silty Sand
- Sand
- Gravel
- Silty Clay
- Clayey Silt
- Sand & Gravel
- Sandy Clay
- Clayey Sand
- Fill & Debris
- Asphalt
- Bedrock

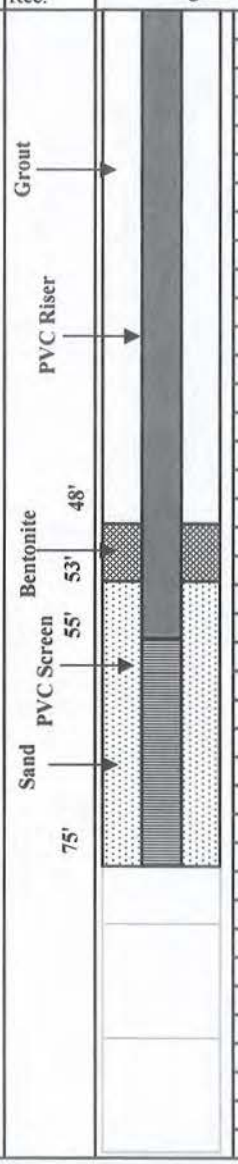
Date Drilled: 11/20/08	**Page:** 1 of 1
Drilling Method: Hollow Stem Auger	
Drilled By: Geologic Explorations	
Logged By: A. Street	
Grade & Ref Elev. (ft MSL): - -	
Location or Grid Coord: M-37	

KELLY–BUCK

SOIL BORING LOG

Project Name:	Project No:	Location:	Boring/Well No:
Copes-Vulcan, Pre-Remedial Characterization	2001.01.07.14	601 W. Summit Ave. Charlotte, NC	MW-B13-28(I)

Depth in Feet	Lithologic Description	Graphic Log	Unified Soil Class	Blow Count	Headspace PID (ppm)	Soil Sample No.	Type	Depth	Rec.	Monitoring Well Diagram
	Tan saprolite (clayey silt) from 0 to 67 feet, low moisture content.		ML							
25										
50										
	Bedrock encountered at 67 feet.									
	Water encountered at 70 feet.									
	Set well to 75 feet.									
75	Set 2-inch PVC screen from 55 to 75 feet.									
	Set 2-inch PVC riser from 0 to 55 feet.									
	Silica sand filter pack from 53 to 75 feet.									
	Bentonite pellet seal from 48 to 53 feet.									
	Grout with cement to grade.									
	Protective above grade casing installed. Dep									
100										



EXPLANATION

- WATER TABLE (24 hr.)
- Water Table (Time of Boring)
- PID — Photoionization Detection
- NO. — Identifies Sample by Number
- TYPE — Sample Collection Method
- SPLIT–BARREL
- AUGER
- ROCK CORE
- THIN–WALLED TUBE
- CONTINUOUS SAMPLER
- NO RECOVERY
- DEPTH — Depth Top and Bottom of Sample
- REC. — Actual Length of Recovered Sample in Feet

Graphic Log Legend

- Clay
- Silty Sand
- Sand
- Gravel
- Silty Clay
- Clayey Silt
- Sand & Gravel
- Sandy Clay
- Clayey Sand
- Fill & Debris
- Asphalt
- Bedrock

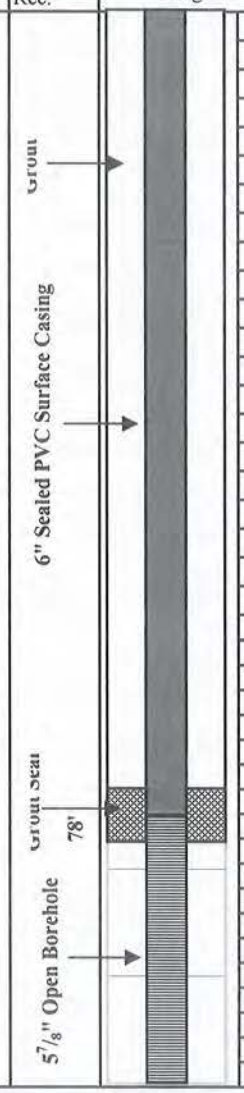
Date Drilled: 11/19/2008	Page: 1 of 1
Drilling Method: Rotary Air	
Drilled By: Geologic Explorations	
Logged By: A. Street	
Grade & Ref Elev. (ft MSL): - -	
Location or Grid Coord: C-4	

KELLY–BUCK

SOIL BORING LOG

Project Name:	Project No:	Location:	Boring/Well No:
Copes-Vulcan, Pre-Remedial Characterization	2001.01.07.14	601 W. Summit Ave. Charlotte, NC	MW-B13-28 (D)

Depth in Feet	Lithologic Description	Graphic Log	Unified Soil Class	Blow Count	Headspace PID (ppm)	Soil Sample No.	Type	Depth	Rec.	Monitoring Well Diagram
	Drilled with Augers to 15 feet until refusal. Air rig continued to drill to 5 feet below weathered-bedrock / competent-bedrock interface. Tan saprolite (clayey silt) from 0-66 feet, low moisture content.									
25										
50										
	Water encountered at 66 feet. Saturated tan saprolite (clayey silt) 66-70+/- feet. Weathered-bedrock / competent-bedrock interface at 70-73 feet.									
75	Set 6-inch pvc surface casing set at 78 feet. Bottom of surface casing sealed with grout and allowed to cure for 24 hours.									
100										



EXPLANATION

- WATER TABLE (24 hr.)
- Water Table (Time of Boring)
- PID — Photoionization Detection
- NO. — Identifies Sample by Number
- TYPE — Sample Collection Method
- SPLIT-BARREL
- AUGER
- ROCK CORE
- THIN-WALLED TUBE
- CONTINUOUS SAMPLER
- NO RECOVERY
- DEPTH — Depth Top and Bottom of Sample
- REC. — Actual Length of Recovered Sample in Feet

Graphic Log Legend

- Clay
- Silty Sand
- Sand
- Gravel
- Silty Clay
- Clayey Silt
- Sand & Gravel
- Sandy Clay
- Clayey Sand
- Fill & Debris
- Asphalt
- Bedrock

Date Drilled: 11/20/2008	**Page:** 1 of 2
Drilling Method:	Hollow stem auger / rotary air
Drilled By:	Geologic Explorations
Logged By:	A. Street
Grade & Ref Elev. (ft MSL):	- -
Location or Grid Coord:	C-4

KELLY–BUCK

SOIL BORING LOG

Project Name:	Project No:	Location:	Boring/Well No:
Copes-Vulcan, Pre-Remedial Characterization 2001.01.07.14		601 W. Summit Ave. Charlotte, NC	MW-B13-28 (D)

Depth in Feet	Lithologic Description	Graphic Log	Unified Soil Class	Blow Count	Headspace PID (ppm)	Soil Sample No.	Type	Depth	Rec.	Monitoring Well Diagram
125									5 7/8" Open Borehole	
150										
175	Rotary air drill bit advanced through inside of surface casing to 200 feet. No measureable volumes of water encountered. Open borehole from 78-200 feet. Sealed 6" surface casing 0-78 feet. Grout with cement to grade. six-inch pvc surface casing extends above grade. Depth to water from top of surface casing 133.55 feet. Total depth from top of surface casing approximately 200ft. Productivity estimated to be poor.									
200									200'	

EXPLANATION

- WATER TABLE (24 hr.)
- Water Table (Time of Boring)
- PID — Photoionization Detection
- NO. — Identifies Sample by Number
- TYPE — Sample Collection Method
  - SPLIT-BARREL
  - AUGER
  - ROCK CORE
  - THIN-WALLED TUBE
  - CONTINUOUS SAMPLER
  - NO RECOVERY
- DEPTH — Depth Top and Bottom of Sample
- REC. — Actual Length of Recovered Sample in Feet

Graphic Log Legend

Clay	Sand & Gravel
Silty Sand	Sandy Clay
Sand	Clayey Sand
Gravel	Fill & Debris
Silty Clay	Asphalt
Clayey Silt	Bedrock

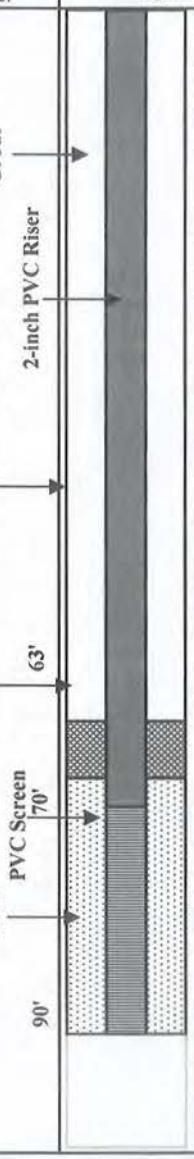
Date Drilled: 11/20/2008	**Page:** 2 of 2
Drilling Method: Hollow stem auger / rotary air	
Drilled By: Geologic Explorations	
Logged By: A. Street	
Grade & Ref Elev. (ft MSL): - -	
Location or Grid Coord: C-4	

KELLY–BUCK

SOIL BORING LOG

Project Name:	Project No:	Location:	Boring/Well No:
Copes-Vulcan, Pre-Remedial Characterization	2001.01.07.14	601 W. Summit Ave. Charlotte, NC	MW-B21-10(D)

Depth in Feet	Lithologic Description	Graphic Log	Unified Soil Class	Blow Count	Headspace PID (ppm)	Soil Sample No.	Type	Depth	Rec.	Monitoring Well Diagram
	Clay with high organic matter content.		OH							
	Red clay / saproloite.									
	Tan saprolite (clayey silt) to ~60 feet.		ML							
25										
	Water encountered ~40-45 feet. Drill until refusal with augers ~45 feet.									
50										
	Resume drilling with rotary air rig 3-5 feet into competent bedrock. Saturated tan saprolite (clayey silt) ~58-59 feet. Water encountered 45-60 feet. Weathered-bedrock / competent-bedrock interface at 59-60 feet. Six-inch pvc surface casing set at 63 feet. Bottom of surface casing sealed with grout and allowed to cure for 24 hours. Rotary air drill bit advanced through inside of surface casing to 90 feet. Water-bearing fracture encountered at ~70 feet, ~0.25gpm. Soft zone with possible water bearing fractures~78-88 feet. Set 2-inch pvc screen from 70 to 90 feet. Set 2-inch pvc riser from 0 to 70 feet. Silica sand filter pack from 90 to 69 feet. Bentonite pellet seal from 66 to 69 feet. Grout with cement to grade. Protective above grade casing installed. Depth to water from top of casing (11/20/08) 25.38 feet. Total well depth from top of casing (11/20/08) 92.65 feet.									
75										
100	Produces well, with low turbidity (0.1-0.3 ntu)									



EXPLANATION

- WATER TABLE (24 hr.)
- Water Table (Time of Boring)
- PID — Photoionization Detection
- NO. — Identifies Sample by Number
- TYPE — Sample Collection Method
  - SPLIT-BARREL
  - AUGER
  - ROCK CORE
  - THIN-WALLED TUBE
  - CONTINUOUS SAMPLER
  - NO RECOVERY
- DEPTH — Depth Top and Bottom of Sample
- REC. — Actual Length of Recovered Sample in Feet

Graphic Log Legend

Clay	Sand & Gravel
Silty Sand	Sandy Clay
Sand	Clayey Sand
Gravel	Fill & Debris
Silty Clay	Asphalt
Clayey Silt	Bedrock

Date Drilled: 11/18/2008	**Page:** 1 of 1
Drilling Method: Hollow stem auger / Rotary air	
Drilled By: Geologic Explorations	
Logged By: A. Street	
Grade & Ref Elev. (ft MSL): - -	
Location or Grid Coord: G-1	

APPENDIX B

LABORATORY ANALYTICAL REPORTS

Carus Remediation Technologies
Remediation Report

25 September 2008

Customer: Kelly-Buck
2130 Superior Ave. Suite 3A
Cleveland, OH 44135-0920

Cc: M. Dingens
P. Dugan
K. Frasco
J. Tarka

Attention: Mike Lyden
P.O. # 200.01.07

From: B. Vlastnik

TECH # 10890

Subject: RemOx® S ISCO Reagent Permanganate Natural Oxidant Demand

Summary
The overall average RemOx® S ISCO Reagent permanganate natural oxidant demand (PNOD) for the two soil samples at 48 hours was determined to be 6.3 g/kg. The average demands ranged from 3.0 g/kg for 21-7 (14-15') to 9.5 g/kg for E-13 (14-15'). These values are calculated on a weight as potassium permanganate ($KMnO_4$) per dry weight of soil. Based on these soil demands, in-situ chemical oxidation with permanganate is recommended for this site.

Background
Two soil samples were received from Kelly-Buck from the Copes-Vulcan Rec. Project located in Charlotte, North Carolina on September 16, 2008. The soil sample designations were E-13 (14-15') and 21-7 (14-15'). The samples were analyzed for permanganate natural oxidant demand following ASTM D7262-07 Test Method A. The measurement of the permanganate natural oxidant demand is used to estimate the concentration of permanganate that will be consumed by the natural reducing agents during a given time period of 48 hours.

Experimental
The samples were analyzed for permanganate natural oxidant demand following ASTM D7262-07 Test Method A. A brief summary is as follows:

To determine the PNOD, the soil was baked at 105°C for 24 hours then allowed to cool to room temperature. The soil was then blended and passed through a U.S. 10 sieve (2 mm). For each sample, reactors were loaded with 50 grams soil and 100 mL of 20.0 g/L $KMnO_4$ for an initial dose of 40.0 g/kg $KMnO_4$ on a dry soil weight basis at a 1:2 soil to aqueous reagent ratio. Each soil dose was performed in triplicate. The reaction vessels were inverted once to mix the reagents. Residual permanganate (MnO_4^-) was determined at 48 hours. The demands were calculated on a dry weight basis.

Results
The permanganate demand is the amount of permanganate consumed in a given amount of time. It should be noted that in a soil or groundwater sample, the oxidation of any compound by permanganate is dependent on the initial dose of permanganate and the reaction time available.

As the permanganate dose is increased, the reaction rate and oxidant consumption may also increase. Some compounds that are not typically oxidized by permanganate under low doses can become reactive with permanganate at higher concentrations.

The 48-hour PNOD results can be seen in Table 1 (on a dry soil basis).

Table 1: 48-Hour PNOD *

Soil Sample Identification	Average and Standard Deviation (g/kg)	Replicate 1 (g/kg)	Replicate 2 (g/kg)	Replicate 3 (g/kg)
E-13 (14-15') 09/12/08 14:30	9.5 ± 0.2	9.6	9.5	9.3
21-7 (14-15') 09/12/08 16:30	3.0 ± 0.1	3.0	3.1	3.0
Overall Average	6.3			

*Demands were calculated on a weight $KMnO_4$/dry soil weight basis from an initial dose of 40.0 g/kg $KMnO_4$ initial dose at a 1:2 soil to aqueous solution ratio.

Conclusions

For this application the amount of permanganate needed will be dependent on the reaction time allowed. On average, the soil samples had a low demand with a 48-hour permanganate demand value of 6.3 g/kg. The average demands ranged from 3.0 g/kg for 21-7 (14-15') to 9.5 g/kg for E-13 (14-15'). Generally, remediation sites with a soil demand of less than 20.0 g/kg at 48 hours are favorable for in-situ chemical oxidation with permanganate (see Table 2 for additional information). A pilot study or good characterization is generally recommended to confirm laboratory results and determine the parameters for a full-scale trial.

Table 2: Correlation of Permanganate Natural Oxidant Demand Results*

PNOD (g/kg)	**Rank**	Comment
<10	Low	ISCO with MnO_4^- is recommended. Soil contribution to MnO_4^- demand is low.
10-20	Moderate	ISCO with MnO_4^- is recommended. Soil contribution to MnO_4^- demand is moderate. Economics should be considered.
>20	High	ISCO with MnO_4^- is technically feasible. Other technologies may provide lower cost alternatives.

*Dry Weight Basis

RemOx® ISCO Reagent is a registered trademark of Carus Corporation

CARUS®

CHAIN OF CUSTODY RECORD

*ITEMS LISTED IN RED MUST BE COMPLETED BY CLIENT

CLIENT: Kelly - Beck	PROJECT NAME: Copes-Vulcan	SITE LOCATION: Charlotte, NC	P.O. NUMBER: 2001.01.07
ADDRESS: 2130 Superior Ave Suite 3A	PHONE NUMBER: 216-861-1716	FAX NUMBER:	DATE SHIPPED: 9/15/08
CITY STATE ZIP: Cleveland, OH 44135-0920	SAMPLER (PLEASE PRINT): Andrew Street		REMOX® ISCO REAGENT: ☐ SOLID ☐ LIQUID ☐ EITHER
PROJECT MANAGER: Mike Lydon	SAMPLER'S SIGNATURE: Andrew Street		

ANALYSIS REQUESTED: PNOD Soil Demand ASTM D7262-07 — PSOD #1

(FOR LAB USE ONLY) TECH # 10890 LOGGED BY: B.V

SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE SOIL	SAMPLE TYPE GW	SOIL TYPE	# OF CONT	PNOD Soil Demand ASTM D7262-07 (PSOD #1)	REMARKS
E-13 (14-15')	9/12/08	14:30	✓			2	X	Please call if you
21-7 (14-15')	9/12/08	16:30	✓			2	X	have questions.
								443-534-5831

TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH IS SUBJECT TO CARUS CORPORATION APPROVAL): NORMAL RUSH X

SEND RESULTS TO: mike.lydon@mindspring.com

ADDITIONAL COMMENTS:

RELINQUISHED BY: (SIGNATURE)	DATE	RECEIVED BY: (SIGNATURE)	DATE
Andrew Street to: Fed Ex	9/15/08	Beth Vlach	9/16/08
	TIME 15:30		TIME 10:00 AM
RELINQUISHED BY: (SIGNATURE)	DATE	RECEIVED AT LAB BY: (SIGNATURE)	DATE
	TIME		TIME

COMMENTS: (FOR LAB USE ONLY)

SAMPLE(S) RECEIVED ON ICE Y OR N
BOTTLES RECEIVED IN GOOD CONDITION Y OR N
BOTTLES FILLED WITH ADEQUATE VOLUME Y OR N
SAMPLES RECEIVED WITHIN HOLD TIME(S) Y OR N

Ship samples to: Carus Corporation, 1500 8th Street, Bldg 45 – Customer Service Lab, LaSalle, IL 61301

CARUS®

Carus Remediation Technologies
Remediation Report

7 November 2008

Customer: Kelly-Buck
2130 Superior Ave. Suite 3A
Cleveland, OH 44135-0920

Cc: M. Dingens
P. Dugan
K. Frasco
J. Tarka

Attention: Mike Lyden
Andrew Street

From: B. Vlastnik

TECH # 10919

Subject: RemOx® S ISCO Reagent Permanganate Natural Oxidant Demand

Summary
The average RemOx® S ISCO Reagent permanganate natural oxidant demands (PNOD) at 48 hours were determined to be 1.9 g/kg for the soil sample AOC #4 (10-12') and 0.3 g/kg for the gravel sample. These values are calculated on a weight as potassium permanganate ($KMnO_4$) per dry weight of soil. Based on these soil demands, in-situ chemical oxidation with permanganate is recommended for this site.

Background
Two soil samples were received from Kelly-Buck from the Copes-Vulcan Rec. Project located in Charlotte, North Carolina on October 29, 2008. The sample designations were AOC #4 (10-12') and Gravel. The samples were analyzed for permanganate natural oxidant demand following ASTM D7262-07 Test Method A. The measurement of the permanganate natural oxidant demand is used to estimate the concentration of permanganate that will be consumed by the natural reducing agents during a given time period of 48 hours.

Experimental
The soil sample AOC#4 (10-12') was analyzed for permanganate natural oxidant demand following ASTM D7262-07 Test Method A. The sieving step was omitted for the gravel sample. A brief summary is as follows:

To determine the PNOD, the samples were baked at 105°C for 24 hours then allowed to cool to room temperature. The soil sample AOC#4 (10-12') was then blended and passed through a U.S. 10 sieve (2 mm). The gravel sample was not crushed or sieved due to sample type. For each sample, reactors were loaded with 50 grams soil and 100 mL of 20.0 g/L $KMnO_4$ for an initial dose of 40.0 g/kg $KMnO_4$ on a dry soil weight basis at a 1:2 soil to aqueous reagent ratio. Each soil dose was performed in triplicate. The reaction vessels were inverted once to mix the reagents. Residual permanganate (MnO_4^-) was determined at 48 hours. The demands were calculated on a dry weight basis.

Results

The permanganate demand is the amount of permanganate consumed in a given amount of time. It should be noted that in a soil or groundwater sample, the oxidation of any compound by permanganate is dependent on the initial dose of permanganate and the reaction time available. As the permanganate dose is increased, the reaction rate and oxidant consumption may also increase. Some compounds that are not typically oxidized by permanganate under low doses can become reactive with permanganate at higher concentrations.

The 48-hour PNOD results can be seen in Table 1 (on a dry soil basis).

Table 1: 48-Hour PNOD *

Soil Sample Identification	Average and Standard Deviation (g/kg)	Replicate 1 (g/kg)	Replicate 2 (g/kg)	Replicate 3 (g/kg)
AOC #4 (10 -12') 10/24/08	1.9 ± 0.2	1.7	2.0	2.0
Gravel 10/24/08	0.3 ± 0.1	0.2	0.3	0.3
Overall Average	1.1			

*Demands were calculated on a weight $KMnO_4$/dry soil weight basis from an initial dose of 40.0 g/kg $KMnO_4$ initial dose at a 1:2 soil to aqueous solution ratio.

Conclusions

For this application the amount of permanganate needed will be dependent on the reaction time allowed. On average, these samples had a low demand with a 48-hour permanganate demand value of 1.1 g/kg. The average demands ranged from 0.3 g/kg for Gravel to 1.9 g/kg for AOC #4 (10-12') Generally, remediation sites with a soil demand of less than 20.0 g/kg at 48 hours are favorable for in-situ chemical oxidation with permanganate (see Table 2 for additional information). A pilot study or good characterization is generally recommended to confirm laboratory results and determine the parameters for a full-scale trial.

Table 2: Correlation of Permanganate Natural Oxidant Demand Results*

PNOD (g/kg)	**Rank**	Comment
<10	Low	ISCO with MnO_4^- is recommended. Soil contribution to MnO_4^- demand is low.
10-20	Moderate	ISCO with MnO_4^- is recommended. Soil contribution to MnO_4^- demand is moderate. Economics should be considered.
>20	High	ISCO with MnO_4^- is technically feasible. Other technologies may provide lower cost alternatives.

*Dry Weight Basis

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CARUS®

CHAIN OF CUSTODY RECORD

*ITEMS LISTED IN RED MUST BE COMPLETED BY CLIENT

CLIENT* Kelly Beck	PROJECT NAME Copes-Vulcan REC	SITE LOCATION Charlotte, NC	P.O. NUMBER
ADDRESS 2130 Superior Ave Suite 3A	PHONE NUMBER 443-534-5831	FAX NUMBER 216-861-1715	DATE SHIPPED 10/27/08
CITY STATE ZIP Cleveland, OH 44114	SAMPLER (PLEASE PRINT) Andrew Street		REMOX® ISCO REAGENT ☐ SOLID ☐ LIQUID ☐ EITHER
PROJECT MANAGER Beth Vlastnik	SAMPLER'S SIGNATURE [signature]		

ANALYSIS REQUESTED: PNOD Soil Demand ASTM D7262-07

(FOR LAB USE ONLY) TECH # 10919 LOGGED BY: Beth Vlastnik

SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE SOIL	SAMPLE TYPE GW	SOIL TYPE	# OF CONT	PNOD Soil Demand ASTM D7262-07	REMARKS
AOC #4 (10-12)	10/24/08		X			2	X	
	~~10/24/08~~							
Gravel	10/24/08		X		granite gravel	4	X	

TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH IS SUBJECT TO CARUS CORPORATION APPROVAL): NORMAL RUSH

ADDITIONAL COMMENTS:

SEND RESULTS TO: mike.lyden@mindspring.com + andrew.street@mindspring.com

RELINQUISHED BY: (SIGNATURE)	DATE	RECEIVED BY: (SIGNATURE)	DATE	COMMENTS: (FOR LAB USE ONLY)
[signature] to ~~FedEx~~ UPS	10/27/08 TIME 14:00	[signature]	10/29/08 TIME 9:40AM	Received at stockroom 9:09 AM (Notification)
RELINQUISHED BY: (SIGNATURE)	DATE TIME	RECEIVED AT LAB BY: (SIGNATURE)	DATE TIME	SAMPLE(S) RECEIVED ON ICE Y OR N; BOTTLES RECEIVED IN GOOD CONDITION Y OR N; BOTTLES FILLED WITH ADEQUATE VOLUME Y OR N; SAMPLES RECEIVED WITHIN HOLD TIME(S) Y OR N

Ship samples to: Carus Corporation, 1500 8th Street, Bldg 45 – Customer Service Lab, LaSalle, IL 61301

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 13, 2008

Mr. Mike Lyden
Kelly Buck Company
2130 Superior Ave
Suite 3A
Cleveland, OH 44114

RE: Project: COPES VULCAN REC
Pace Project No.: 9226690

Dear Mr. Lyden:
Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Bonnie McKee

Bonnie McKee

bonnie.mckee@pacelabs.com
Project Manager

Enclosures

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nelac

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CERTIFICATIONS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Charlotte Certification IDs

Connecticut Certification Number: PH-0104
Pennsylvania Certification Number: 68-00784
West Virginia Certification Number: 357
Virginia Certification Number: 00213
Tennessee Certification Number: 04010
South Carolina Drinking Water Cert. Number: 990060003
South Carolina Certification Number: 990060001
North Carolina Field Services Certification Number: 5342
North Carolina Wastewater Certification Number: 12
North Carolina Drinking Water Certification Number: 37706
Louisiana/LELAP Certification Number: 04034
Kentucky UST Certification Number: 84
New Jersey Certification Number: NC012
Florida/NELAP Certification Number: E87627

Asheville Certification IDs

Connecticut Certification Number: PH-0106
Massachusetts Certification Number: M-NC030
West Virginia Certification Number: 356
Virginia Certification Number: 00072
Tennessee Certification Number: 2980
South Carolina Bioassay Certification Number: 99030002
South Carolina Certification Number: 99030001
Pennsylvania Certification Number: 68-03578
North Carolina Bioassay Certification Number: 9
North Carolina Wastewater Certification Number: 40
North Carolina Drinking Water Certification Number: 37712
New Jersey Certification Number: NC011
Louisiana/LELAP Certification Number: 03095
Florida/NELAP Certification Number: E87648

Eden Certification IDs

Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633
North Carolina Drinking Water Certification Number: 37738

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SAMPLE SUMMARY

Project: COPES VULCAN REC
Pace Project No.: 9226690

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9226690001	D-21 (1.5-2.5)	Solid	08/27/08 00:00	08/28/08 16:00
9226690002	D-21 (5.5-6.5)	Solid	08/27/08 00:00	08/28/08 16:00
9226690003	D-22 (1.5-2.5)	Solid	08/27/08 00:00	08/28/08 16:00
9226690004	D-22 (5.5-6.5)	Solid	08/27/08 00:00	08/28/08 16:00
9226690005	D-23 (1.5-2.5)	Solid	08/27/08 00:00	08/28/08 16:00
9226690006	D-23 (5.5-6.5)	Solid	08/27/08 00:00	08/28/08 16:00
9226690007	E-23 (1.5-2.5)	Solid	08/27/08 00:00	08/28/08 16:00
9226690008	E-23 (5.5-6.5)	Solid	08/27/08 00:00	08/28/08 16:00
9226690009	E-22 (1.5-2.5)	Solid	08/27/08 00:00	08/28/08 16:00
9226690010	E-22 (5.5-6.5)	Solid	08/27/08 00:00	08/28/08 16:00
9226690011	E-21 (1.5-2.5)	Solid	08/28/08 00:00	08/28/08 16:00
9226690012	E-21 (5.5-6.5)	Solid	08/28/08 00:00	08/28/08 16:00
9226690013	D-21-23 (7.5-8.5) COMP 1	Solid	08/27/08 00:00	08/28/08 16:00
9226690015	D-21-23 (8.5-9.5) COMP 1	Solid	08/27/08 00:00	08/28/08 16:00
9226690017	E-21-23 (7.5-8.5) COMP 1	Solid	08/27/08 00:00	08/28/08 16:00
9226690019	E-21-23 (8.5-9.5) COMP 1	Solid	08/27/08 00:00	08/28/08 16:00
9226690030	E-23 (9.5-10.5)	Solid	08/27/08 00:00	08/28/08 16:00
9226690039	AOC 13 EAST CONCRETE	Solid	08/27/08 00:00	08/28/08 16:00

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SAMPLE ANALYTE COUNT

Project: COPES VULCAN REC
Pace Project No.: 9226690

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9226690001	D-21 (1.5-2.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226690002	D-21 (5.5-6.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226690003	D-22 (1.5-2.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226690004	D-22 (5.5-6.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226690005	D-23 (1.5-2.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226690006	D-23 (5.5-6.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226690007	E-23 (1.5-2.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226690008	E-23 (5.5-6.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226690009	E-22 (1.5-2.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226690010	E-22 (5.5-6.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226690011	E-21 (1.5-2.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	7
		EPA 8260	DLK	15
9226690012	E-21 (5.5-6.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226690013	D-21-23 (7.5-8.5) COMP 1	ASTM D2974-87	TNM	1

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SAMPLE ANALYTE COUNT

Project: COPES VULCAN REC
Pace Project No.: 9226690

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8082	JEM	8
9226690015	D-21-23 (8.5-9.5) COMP 1	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226690017	E-21-23 (7.5-8.5) COMP 1	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226690019	E-21-23 (8.5-9.5) COMP 1	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226690039	AOC 13 EAST CONCRETE	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: D-21 (1.5-2.5) **Lab ID: 9226690001** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.1	9.7	1	09/02/08 00:00	09/03/08 14:41	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.1	18.2	1	09/02/08 00:00	09/03/08 14:41	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.1	18.2	1	09/02/08 00:00	09/03/08 14:41	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.1	18.2	1	09/02/08 00:00	09/03/08 14:41	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.1	18.2	1	09/02/08 00:00	09/03/08 14:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**440**	ug/kg	40.1	18.2	1	09/02/08 00:00	09/03/08 14:41	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.1	6.1	1	09/02/08 00:00	09/03/08 14:41	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	09/02/08 00:00	09/03/08 14:41	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 01:49	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	2.8	1		09/21/08 01:49	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 01:49	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 01:49	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 01:49	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 01:49	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 01:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 01:49	75-35-4	
Tetrachloroethene	**6.0**	ug/L	5.0	1.9	1		09/21/08 01:49	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.0	1		09/21/08 01:49	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/21/08 01:49	75-01-4	
1,2-Dichloroethane-d4 (S)	108	%	79-120		1		09/21/08 01:49	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		09/21/08 01:49	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109		1		09/21/08 01:49	460-00-4	
Dibromofluoromethane (S)	101	%	85-115		1		09/21/08 01:49	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.8**	%	0.10	0.10	1		09/02/08 14:57		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: D-21 (5.5-6.5) **Lab ID: 9226690002** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.8	9.4	1	09/02/08 00:00	09/03/08 14:55	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.8	17.6	1	09/02/08 00:00	09/03/08 14:55	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.8	17.6	1	09/02/08 00:00	09/03/08 14:55	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.8	17.6	1	09/02/08 00:00	09/03/08 14:55	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.8	17.6	1	09/02/08 00:00	09/03/08 14:55	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	38.8	17.6	1	09/02/08 00:00	09/03/08 14:55	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.8	5.9	1	09/02/08 00:00	09/03/08 14:55	11096-82-5	
Decachlorobiphenyl (S)	60	%	50-150		1	09/02/08 00:00	09/03/08 14:55	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 02:06	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	2.8	1		09/21/08 02:06	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 02:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 02:06	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 02:06	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 02:06	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 02:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 02:06	75-35-4	
Tetrachloroethene	**2.7J**	ug/L	5.0	1.9	1		09/21/08 02:06	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.0	1		09/21/08 02:06	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/21/08 02:06	75-01-4	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		09/21/08 02:06	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		09/21/08 02:06	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-109		1		09/21/08 02:06	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		1		09/21/08 02:06	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.9**	%	0.10	0.10	1		09/02/08 14:58		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: D-22 (1.5-2.5) **Lab ID: 9226690003** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.2	10.5	1	09/02/08 00:00	09/03/08 15:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.2	19.6	1	09/02/08 00:00	09/03/08 15:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.2	19.6	1	09/02/08 00:00	09/03/08 15:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.2	19.6	1	09/02/08 00:00	09/03/08 15:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.2	19.6	1	09/02/08 00:00	09/03/08 15:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**6320**	ug/kg	2160	982	50	09/02/08 00:00	09/04/08 11:16	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.2	6.5	1	09/02/08 00:00	09/03/08 15:09	11096-82-5	
Decachlorobiphenyl (S)	58	%	50-150		1	09/02/08 00:00	09/03/08 15:09	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 03:15	71-43-2	
2-Butanone (MEK)	**10.4**	ug/L	10.0	2.8	1		09/21/08 03:15	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 03:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 03:15	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 03:15	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 03:15	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 03:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 03:15	75-35-4	
Tetrachloroethene	**53.0**	ug/L	5.0	1.9	1		09/21/08 03:15	127-18-4	
Trichloroethene	**3.3J**	ug/L	5.0	1.0	1		09/21/08 03:15	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/21/08 03:15	75-01-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		09/21/08 03:15	17060-07-0	
Toluene-d8 (S)	91	%	70-120		1		09/21/08 03:15	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-109		1		09/21/08 03:15	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		09/21/08 03:15	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.6**	%	0.10	0.10	1		09/02/08 18:02		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: D-22 (5.5-6.5) **Lab ID: 9226690004** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.7	9.9	1	09/02/08 00:00	09/03/08 15:22	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.7	18.5	1	09/02/08 00:00	09/03/08 15:22	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.7	18.5	1	09/02/08 00:00	09/03/08 15:22	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.7	18.5	1	09/02/08 00:00	09/03/08 15:22	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.7	18.5	1	09/02/08 00:00	09/03/08 15:22	12672-29-6	
PCB-1254 (Aroclor 1254)	**2830**	ug/kg	813	370	20	09/02/08 00:00	09/04/08 11:30	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.7	6.2	1	09/02/08 00:00	09/03/08 15:22	11096-82-5	
Decachlorobiphenyl (S)	57	%	50-150		1	09/02/08 00:00	09/03/08 15:22	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 04:41	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	2.8	1		09/21/08 04:41	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 04:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 04:41	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 04:41	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 04:41	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 04:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 04:41	75-35-4	
Tetrachloroethene	**3.8J**	ug/L	5.0	1.9	1		09/21/08 04:41	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.0	1		09/21/08 04:41	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/21/08 04:41	75-01-4	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		09/21/08 04:41	17060-07-0	
Toluene-d8 (S)	93	%	70-120		1		09/21/08 04:41	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-109		1		09/21/08 04:41	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		09/21/08 04:41	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.8**	%	0.10	0.10	1		09/02/08 18:03		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: D-23 (1.5-2.5) **Lab ID: 9226690005** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	44.1	10.7	1	09/02/08 00:00	09/03/08 15:36	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	44.1	20.1	1	09/02/08 00:00	09/03/08 15:36	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	44.1	20.1	1	09/02/08 00:00	09/03/08 15:36	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	44.1	20.1	1	09/02/08 00:00	09/03/08 15:36	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	44.1	20.1	1	09/02/08 00:00	09/03/08 15:36	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	44.1	20.1	1	09/02/08 00:00	09/03/08 15:36	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	44.1	6.7	1	09/02/08 00:00	09/03/08 15:36	11096-82-5	
Decachlorobiphenyl (S)	70	%	50-150		1	09/02/08 00:00	09/03/08 15:36	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 04:58	71-43-2	
2-Butanone (MEK)	**3.7J**	ug/L	10.0	2.8	1		09/21/08 04:58	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 04:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 04:58	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 04:58	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 04:58	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 04:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 04:58	75-35-4	
Tetrachloroethene	**10.6**	ug/L	5.0	1.9	1		09/21/08 04:58	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.0	1		09/21/08 04:58	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/21/08 04:58	75-01-4	
1,2-Dichloroethane-d4 (S)	91	%	79-120		1		09/21/08 04:58	17060-07-0	
Toluene-d8 (S)	94	%	70-120		1		09/21/08 04:58	2037-26-5	
4-Bromofluorobenzene (S)	108	%	87-109		1		09/21/08 04:58	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		09/21/08 04:58	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.2**	%	0.10	0.10	1		09/02/08 18:04		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: D-23 (5.5-6.5) **Lab ID: 9226690006** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.1	9.5	1	09/02/08 00:00	09/03/08 15:49	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.1	17.8	1	09/02/08 00:00	09/03/08 15:49	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.1	17.8	1	09/02/08 00:00	09/03/08 15:49	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.1	17.8	1	09/02/08 00:00	09/03/08 15:49	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.1	17.8	1	09/02/08 00:00	09/03/08 15:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**10500**	ug/kg	1950	888	50	09/02/08 00:00	09/04/08 11:43	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.1	5.9	1	09/02/08 00:00	09/03/08 15:49	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	09/02/08 00:00	09/03/08 15:49	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 04:07	71-43-2	
2-Butanone (MEK)	**4.6J**	ug/L	10.0	2.8	1		09/21/08 04:07	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 04:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 04:07	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 04:07	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 04:07	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 04:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 04:07	75-35-4	
Tetrachloroethene	**15.9**	ug/L	5.0	1.9	1		09/21/08 04:07	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.0	1		09/21/08 04:07	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/21/08 04:07	75-01-4	
1,2-Dichloroethane-d4 (S)	93	%	79-120		1		09/21/08 04:07	17060-07-0	
Toluene-d8 (S)	95	%	70-120		1		09/21/08 04:07	2037-26-5	
4-Bromofluorobenzene (S)	106	%	87-109		1		09/21/08 04:07	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		09/21/08 04:07	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.6**	%	0.10	0.10	1		09/02/08 18:04		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: E-23 (1.5-2.5) **Lab ID: 9226690007** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	45.3	11.0	1	09/02/08 00:00	09/03/08 16:03	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	45.3	20.6	1	09/02/08 00:00	09/03/08 16:03	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	45.3	20.6	1	09/02/08 00:00	09/03/08 16:03	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	45.3	20.6	1	09/02/08 00:00	09/03/08 16:03	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	45.3	20.6	1	09/02/08 00:00	09/03/08 16:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**25.7J**	ug/kg	45.3	20.6	1	09/02/08 00:00	09/03/08 16:03	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	45.3	6.9	1	09/02/08 00:00	09/03/08 16:03	11096-82-5	
Decachlorobiphenyl (S)	78	%	50-150		1	09/02/08 00:00	09/03/08 16:03	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 02:58	71-43-2	
2-Butanone (MEK)	**3.0J**	ug/L	10.0	2.8	1		09/21/08 02:58	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 02:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 02:58	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 02:58	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 02:58	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 02:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 02:58	75-35-4	
Tetrachloroethene	**4.3J**	ug/L	5.0	1.9	1		09/21/08 02:58	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.0	1		09/21/08 02:58	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/21/08 02:58	75-01-4	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		09/21/08 02:58	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		09/21/08 02:58	2037-26-5	
4-Bromofluorobenzene (S)	92	%	87-109		1		09/21/08 02:58	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		1		09/21/08 02:58	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**27.1**	%	0.10	0.10	1		09/02/08 18:04		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: E-23 (5.5-6.5) **Lab ID: 9226690008** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.2	10.5	1	09/02/08 00:00	09/03/08 16:17	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.2	19.6	1	09/02/08 00:00	09/03/08 16:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.2	19.6	1	09/02/08 00:00	09/03/08 16:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.2	19.6	1	09/02/08 00:00	09/03/08 16:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.2	19.6	1	09/02/08 00:00	09/03/08 16:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**23300**	ug/kg	4320	1960	100	09/02/08 00:00	09/04/08 11:57	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.2	6.5	1	09/02/08 00:00	09/03/08 16:17	11096-82-5	
Decachlorobiphenyl (S)	58	%	50-150		1	09/02/08 00:00	09/03/08 16:17	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 03:50	71-43-2	
2-Butanone (MEK)	**6.1J**	ug/L	10.0	2.8	1		09/21/08 03:50	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 03:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 03:50	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 03:50	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 03:50	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 03:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 03:50	75-35-4	
Tetrachloroethene	**87.4**	ug/L	5.0	1.9	1		09/21/08 03:50	127-18-4	
Trichloroethene	**1.0J**	ug/L	5.0	1.0	1		09/21/08 03:50	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/21/08 03:50	75-01-4	
1,2-Dichloroethane-d4 (S)	113	%	79-120		1		09/21/08 03:50	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		09/21/08 03:50	2037-26-5	
4-Bromofluorobenzene (S)	87	%	87-109		1		09/21/08 03:50	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		09/21/08 03:50	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.6**	%	0.10	0.10	1		09/02/08 18:05		

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: E-22 (1.5-2.5) **Lab ID: 9226690009** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.3	10.3	1	09/02/08 00:00	09/03/08 16:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.3	19.2	1	09/02/08 00:00	09/03/08 16:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.3	19.2	1	09/02/08 00:00	09/03/08 16:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.3	19.2	1	09/02/08 00:00	09/03/08 16:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.3	19.2	1	09/02/08 00:00	09/03/08 16:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**6270**	ug/kg	2120	962	50	09/02/08 00:00	09/04/08 12:24	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.3	6.4	1	09/02/08 00:00	09/03/08 16:30	11096-82-5	
Decachlorobiphenyl (S)	57	%	50-150		1	09/02/08 00:00	09/03/08 16:30	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 04:24	71-43-2	
2-Butanone (MEK)	**3.3J**	ug/L	10.0	2.8	1		09/21/08 04:24	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 04:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 04:24	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 04:24	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 04:24	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 04:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 04:24	75-35-4	
Tetrachloroethene	**17.6**	ug/L	5.0	1.9	1		09/21/08 04:24	127-18-4	
Trichloroethene	**5.5**	ug/L	5.0	1.0	1		09/21/08 04:24	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/21/08 04:24	75-01-4	
1,2-Dichloroethane-d4 (S)	95	%	79-120		1		09/21/08 04:24	17060-07-0	
Toluene-d8 (S)	94	%	70-120		1		09/21/08 04:24	2037-26-5	
4-Bromofluorobenzene (S)	109	%	87-109		1		09/21/08 04:24	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		09/21/08 04:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.0**	%	0.10	0.10	1		09/02/08 18:05		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: E-22 (5.5-6.5) **Lab ID: 9226690010** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.6	8.9	1	09/02/08 00:00	09/03/08 16:44	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.6	16.6	1	09/02/08 00:00	09/03/08 16:44	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.6	16.6	1	09/02/08 00:00	09/03/08 16:44	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.6	16.6	1	09/02/08 00:00	09/03/08 16:44	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.6	16.6	1	09/02/08 00:00	09/03/08 16:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**11000**	ug/kg	1830	832	50	09/02/08 00:00	09/04/08 12:38	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	36.6	5.5	1	09/02/08 00:00	09/03/08 16:44	11096-82-5	
Decachlorobiphenyl (S)	119	%	50-150		1	09/02/08 00:00	09/03/08 16:44	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	125	30.0	25		09/21/08 07:33	71-43-2	
2-Butanone (MEK)	**131J**	ug/L	250	70.0	25		09/21/08 07:33	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		09/21/08 07:33	56-23-5	
Chlorobenzene	ND	ug/L	125	25.0	25		09/21/08 07:33	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		09/21/08 07:33	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	125	30.0	25		09/21/08 07:33	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		09/21/08 07:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		09/21/08 07:33	75-35-4	
Tetrachloroethene	ND	ug/L	125	47.5	25		09/21/08 07:33	127-18-4	
Trichloroethene	ND	ug/L	125	25.0	25		09/21/08 07:33	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		09/21/08 07:33	75-01-4	
1,2-Dichloroethane-d4 (S)	112	%	79-120		25		09/21/08 07:33	17060-07-0	
Toluene-d8 (S)	94	%	70-120		25		09/21/08 07:33	2037-26-5	
4-Bromofluorobenzene (S)	113	%	87-109		25		09/21/08 07:33	460-00-4	S6
Dibromofluoromethane (S)	104	%	85-115		25		09/21/08 07:33	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.8**	%	0.10	0.10	1		09/02/08 18:05		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: E-21 (1.5-2.5) **Lab ID: 9226690011** Collected: 08/28/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.3	10.2	1	09/02/08 00:00	09/03/08 16:57	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.3	19.2	1	09/02/08 00:00	09/03/08 16:57	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.3	19.2	1	09/02/08 00:00	09/03/08 16:57	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.3	19.2	1	09/02/08 00:00	09/03/08 16:57	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.3	19.2	1	09/02/08 00:00	09/03/08 16:57	12672-29-6	
PCB-1254 (Aroclor 1254)	**11300**	ug/kg	2110	960	50	09/02/08 00:00	09/04/08 13:05	11097-69-1	
Decachlorobiphenyl (S)	78	%	50-150		1	09/02/08 00:00	09/03/08 16:57	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 05:16	71-43-2	
2-Butanone (MEK)	**5.2J**	ug/L	10.0	2.8	1		09/21/08 05:16	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 05:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 05:16	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 05:16	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 05:16	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 05:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 05:16	75-35-4	
Tetrachloroethene	**13.8**	ug/L	5.0	1.9	1		09/21/08 05:16	127-18-4	
Trichloroethene	**2.5J**	ug/L	5.0	1.0	1		09/21/08 05:16	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/21/08 05:16	75-01-4	
1,2-Dichloroethane-d4 (S)	109	%	79-120		1		09/21/08 05:16	17060-07-0	
Toluene-d8 (S)	97	%	70-120		1		09/21/08 05:16	2037-26-5	
4-Bromofluorobenzene (S)	87	%	87-109		1		09/21/08 05:16	460-00-4	
Dibromofluoromethane (S)	102	%	85-115		1		09/21/08 05:16	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.9**	%	0.10	0.10	1		09/02/08 18:06		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: E-21 (5.5-6.5) **Lab ID: 9226690012** Collected: 08/28/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.5	8.8	1	09/02/08 00:00	09/03/08 17:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.5	16.6	1	09/02/08 00:00	09/03/08 17:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.5	16.6	1	09/02/08 00:00	09/03/08 17:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.5	16.6	1	09/02/08 00:00	09/03/08 17:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.5	16.6	1	09/02/08 00:00	09/03/08 17:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**4910**	ug/kg	1820	829	50	09/02/08 00:00	09/04/08 13:32	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	36.5	5.5	1	09/02/08 00:00	09/03/08 17:11	11096-82-5	
Decachlorobiphenyl (S)	57	%	50-150		1	09/02/08 00:00	09/03/08 17:11	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	125	30.0	25		09/21/08 07:50	71-43-2	
2-Butanone (MEK)	**77.4J**	ug/L	250	70.0	25		09/21/08 07:50	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		09/21/08 07:50	56-23-5	
Chlorobenzene	ND	ug/L	125	25.0	25		09/21/08 07:50	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		09/21/08 07:50	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	125	30.0	25		09/21/08 07:50	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		09/21/08 07:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		09/21/08 07:50	75-35-4	
Tetrachloroethene	ND	ug/L	125	47.5	25		09/21/08 07:50	127-18-4	
Trichloroethene	ND	ug/L	125	25.0	25		09/21/08 07:50	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		09/21/08 07:50	75-01-4	
1,2-Dichloroethane-d4 (S)	83	%	79-120		25		09/21/08 07:50	17060-07-0	
Toluene-d8 (S)	95	%	70-120		25		09/21/08 07:50	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-109		25		09/21/08 07:50	460-00-4	
Dibromofluoromethane (S)	92	%	85-115		25		09/21/08 07:50	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.6**	%	0.10	0.10	1		09/02/08 18:06		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: D-21-23 (7.5-8.5) COMP 1 **Lab ID: 9226690013** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.3	10.5	1	09/02/08 00:00	09/03/08 17:24	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.3	19.7	1	09/02/08 00:00	09/03/08 17:24	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.3	19.7	1	09/02/08 00:00	09/03/08 17:24	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.3	19.7	1	09/02/08 00:00	09/03/08 17:24	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.3	19.7	1	09/02/08 00:00	09/03/08 17:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**566**	ug/kg	43.3	19.7	1	09/02/08 00:00	09/03/08 17:24	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.3	6.6	1	09/02/08 00:00	09/03/08 17:24	11096-82-5	
Decachlorobiphenyl (S)	54	%	50-150		1	09/02/08 00:00	09/03/08 17:24	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.8**	%	0.10	0.10	1		09/02/08 18:07		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: D-21-23 (8.5-9.5) COMP 1 **Lab ID: 9226690015** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.8	10.1	1	09/05/08 00:00	09/08/08 14:56	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.8	19.0	1	09/05/08 00:00	09/08/08 14:56	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.8	19.0	1	09/05/08 00:00	09/08/08 14:56	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.8	19.0	1	09/05/08 00:00	09/08/08 14:56	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.8	19.0	1	09/05/08 00:00	09/08/08 14:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**142**	ug/kg	41.8	19.0	1	09/05/08 00:00	09/08/08 14:56	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.8	6.3	1	09/05/08 00:00	09/08/08 14:56	11096-82-5	
Decachlorobiphenyl (S)	57	%	50-150		1	09/05/08 00:00	09/08/08 14:56	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.1**	%	0.10	0.10	1		09/02/08 18:07		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: E-21-23 (7.5-8.5) COMP 1 **Lab ID: 9226690017** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.7	10.6	1	09/05/08 00:00	09/08/08 15:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.7	19.8	1	09/05/08 00:00	09/08/08 15:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.7	19.8	1	09/05/08 00:00	09/08/08 15:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.7	19.8	1	09/05/08 00:00	09/08/08 15:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.7	19.8	1	09/05/08 00:00	09/08/08 15:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**3400**	ug/kg	873	397	20	09/05/08 00:00	09/09/08 11:32	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.7	6.6	1	09/05/08 00:00	09/08/08 15:09	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	09/05/08 00:00	09/08/08 15:09	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**24.4**	%	0.10	0.10	1		09/02/08 18:07		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: E-21-23 (8.5-9.5) COMP 1 **Lab ID: 9226690019** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.4	9.6	1	09/05/08 00:00	09/08/08 15:23	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.4	17.9	1	09/05/08 00:00	09/08/08 15:23	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.4	17.9	1	09/05/08 00:00	09/08/08 15:23	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.4	17.9	1	09/05/08 00:00	09/08/08 15:23	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.4	17.9	1	09/05/08 00:00	09/08/08 15:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**526**	ug/kg	39.4	17.9	1	09/05/08 00:00	09/08/08 15:23	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.4	6.0	1	09/05/08 00:00	09/08/08 15:23	11096-82-5	
Decachlorobiphenyl (S)	63	%	50-150		1	09/05/08 00:00	09/08/08 15:23	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.3**	%	0.10	0.10	1		09/02/08 18:08		

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226690

Sample: AOC 13 EAST CONCRETE **Lab ID: 9226690039** Collected: 08/27/08 00:00 Received: 08/28/08 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.3	8.3	1	09/05/08 00:00	09/08/08 15:36	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.3	15.6	1	09/05/08 00:00	09/08/08 15:36	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.3	15.6	1	09/05/08 00:00	09/08/08 15:36	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.3	15.6	1	09/05/08 00:00	09/08/08 15:36	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.3	15.6	1	09/05/08 00:00	09/08/08 15:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**44.6**	ug/kg	34.3	15.6	1	09/05/08 00:00	09/08/08 15:36	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	34.3	5.2	1	09/05/08 00:00	09/08/08 15:36	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	09/05/08 00:00	09/08/08 15:36	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.8**	%	0.10	0.10	1		09/02/08 18:15		

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226690

QC Batch: PMST/1885
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9226690001, 9226690002

SAMPLE DUPLICATE: 161544

Parameter	Units	9225884001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	46.2	46.6	.7	25	

SAMPLE DUPLICATE: 161549

Parameter	Units	9226690002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.9	13.6	9	25	

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226690

QC Batch: PMST/1887 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9226690003, 9226690004, 9226690005, 9226690006, 9226690007, 9226690008, 9226690009, 9226690010, 9226690011, 9226690012, 9226690013, 9226690015, 9226690017, 9226690019

SAMPLE DUPLICATE: 161700

Parameter	Units	9226690003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.6	22.9	3	25	

SAMPLE DUPLICATE: 161701

Parameter	Units	9226690022 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%		26.7			

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226690

QC Batch: PMST/1888
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9226690039

SAMPLE DUPLICATE: 161702

Parameter	Units	9226690023 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%		16.1			

SAMPLE DUPLICATE: 161703

Parameter	Units	9226690039 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.8	5.5	37	25	R1

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226690

QC Batch: OEXT/4274 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9226690001, 9226690002, 9226690003, 9226690004, 9226690005, 9226690006, 9226690007, 9226690008, 9226690009, 9226690010, 9226690011, 9226690012, 9226690013

METHOD BLANK: 161872 Matrix: Solid
Associated Lab Samples: 9226690001, 9226690002, 9226690003, 9226690004, 9226690005, 9226690006, 9226690007, 9226690008, 9226690009, 9226690010, 9226690011, 9226690012, 9226690013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	09/03/08 11:42	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	09/03/08 11:42	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	09/03/08 11:42	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	09/03/08 11:42	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	09/03/08 11:42	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	09/03/08 11:42	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	09/03/08 11:42	
Decachlorobiphenyl (S)	%	87	50-150	09/03/08 11:42	

LABORATORY CONTROL SAMPLE: 161873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	166	100	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	128	77	50-150	
Decachlorobiphenyl (S)	%			85	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 161874 161875

Parameter	Units	9226440002 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	188	188	124	120	66	64	50-150	3	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	188	188	94.8	94.0	51	50	50-150	.8	30	
Decachlorobiphenyl (S)	%						56	52	50-150			

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226690

QC Batch: OEXT/4307 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9226690015, 9226690017, 9226690019, 9226690039

METHOD BLANK: 163694 Matrix: Solid
Associated Lab Samples: 9226690015, 9226690017, 9226690019, 9226690039

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	09/08/08 14:28	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	09/08/08 14:28	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	09/08/08 14:28	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	09/08/08 14:28	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	09/08/08 14:28	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	09/08/08 14:28	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	09/08/08 14:28	
Decachlorobiphenyl (S)	%	81	50-150	09/08/08 14:28	

LABORATORY CONTROL SAMPLE: 163695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	135	81	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	91.3	55	50-150	
Decachlorobiphenyl (S)	%			92	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 163696 163697

Parameter	Units	9226765098 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	196	196	139	138	71	70	50-150	.8	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	196	196	1430	1430	729	731	50-150	.4	30	1g
Decachlorobiphenyl (S)	%						59	59	50-150			

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226690

QC Batch: MSV/4675 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 9226690001, 9226690002, 9226690003, 9226690004, 9226690005, 9226690006, 9226690007, 9226690008, 9226690009, 9226690010, 9226690011, 9226690012

METHOD BLANK: 170885 Matrix: Water
Associated Lab Samples: 9226690001, 9226690002, 9226690003, 9226690004, 9226690005, 9226690006, 9226690007, 9226690008, 9226690009, 9226690010, 9226690011, 9226690012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	09/21/08 01:15	
1,2-Dichloroethane	ug/L	ND	5.0	09/21/08 01:15	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/21/08 01:15	
2-Butanone (MEK)	ug/L	ND	10.0	09/21/08 01:15	
Benzene	ug/L	ND	5.0	09/21/08 01:15	
Carbon tetrachloride	ug/L	ND	5.0	09/21/08 01:15	
Chlorobenzene	ug/L	ND	5.0	09/21/08 01:15	
Chloroform	ug/L	ND	5.0	09/21/08 01:15	
Tetrachloroethene	ug/L	ND	5.0	09/21/08 01:15	
Trichloroethene	ug/L	ND	5.0	09/21/08 01:15	
Vinyl chloride	ug/L	ND	5.0	09/21/08 01:15	
1,2-Dichloroethane-d4 (S)	%	111	79-120	09/21/08 01:15	
4-Bromofluorobenzene (S)	%	93	87-109	09/21/08 01:15	
Dibromofluoromethane (S)	%	102	85-115	09/21/08 01:15	
Toluene-d8 (S)	%	102	70-120	09/21/08 01:15	

LABORATORY CONTROL SAMPLE: 170886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	41.2	82	78-146	
1,2-Dichloroethane	ug/L	50	37.4	75	72-126	
1,4-Dichlorobenzene	ug/L	50	39.4	79	79-125	
2-Butanone (MEK)	ug/L	100	84.4	84	50-134	
Benzene	ug/L	50	48.2	96	78-128	
Carbon tetrachloride	ug/L	50	44.9	90	81-137	
Chlorobenzene	ug/L	50	43.8	88	82-126	
Chloroform	ug/L	50	44.1	88	77-129	
Tetrachloroethene	ug/L	50	44.1	88	78-128	
Trichloroethene	ug/L	50	42.9	86	79-127	
Vinyl chloride	ug/L	50	54.6	109	67-143	
1,2-Dichloroethane-d4 (S)	%			91	79-120	
4-Bromofluorobenzene (S)	%			107	87-109	
Dibromofluoromethane (S)	%			101	85-115	
Toluene-d8 (S)	%			97	70-120	

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226690

MATRIX SPIKE SAMPLE: 170888

Parameter	Units	9227815003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	50	38.2	76	60-150	
Benzene	ug/L	ND	50	38.0	76	74-136	
Chlorobenzene	ug/L	ND	50	32.7	65	79-135	M0
Trichloroethene	ug/L	1.8J	50	40.5	77	73-131	
1,2-Dichloroethane-d4 (S)	%				84	79-120	
4-Bromofluorobenzene (S)	%				92	87-109	
Dibromofluoromethane (S)	%				93	85-115	
Toluene-d8 (S)	%				98	70-120	

SAMPLE DUPLICATE: 170887

Parameter	Units	9226690003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	10.4	15.9	42	30	H3,R3
Benzene	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	53.0	46.0	14	30	
Trichloroethene	ug/L	3.3J	3.2J		30	
Vinyl chloride	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	112	10		
4-Bromofluorobenzene (S)	%	99	85	15		S2
Dibromofluoromethane (S)	%	105	103	2		
Toluene-d8 (S)	%	91	96	5		

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QUALIFIERS

Project: COPES VULCAN REC
Pace Project No.: 9226690

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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ANALYTE QUALIFIERS

1g	The PCB spike recovery was outside acceptance limits for the MS and/or MSD due to high Aroclor concentration. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
H3	Sample was received outside EPA method holding time.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
R3	RPD value was outside control limits due to uncertainty of values at or near the PRL.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S6	Surrogate recovery outside control limits. Data accepted based on valid recovery of applicable surrogates (no analytes associated with this surrogate)

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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 4

1165685

Section A Required Client Information:

Company: KELLY-BUCK
Address: CLEVELAND OH
Email To: MIKE LYDEN
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.: Copes Vulcan REC
Project Name:
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #: 1563-3

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test: PCBs; TCLP RCRA VOCs

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	PCBs	TCLP RCRA VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-21 (1.5'-2.5')	SL	G	8/27/08					2									X	X		92226690001
2	D-21 (5.5'-6.5')																	X	X		002
3	D-22 (1.5'-2.5')																	X	X		003
4	D-22 (5.5'-6.5')																	X	X		004
5	D-23 (1.5'-2.5')																	X	X		005
6	D-23 (5.5'-6.5')																	X	X		006
7	E-23 (1.5'-2.5')																	X	X		007
8	E-23 (5.5'-6.5')																	X	X		008
9	E-22 (1.5'-2.5')																	X	X		009
10	E-22 (5.5'-6.5')																	X	X		010
11	E-21 (1.5'-2.5')			8/28/08														X	X		011
12	E-21 (5.5'-6.5')			" "														X	X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[illegible]	8/28/08	1445	George Moody Pace	8-28-08	14:55				
	George Moody	8-28-08	16:00	[illegible]	8/28/08	16:00	4.5	yes	no	yes

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 Seals on Cooler (Y/N) | Samples Intact (Y/N)

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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.

1165688

Section A Required Client Information:

Company: KELLY-BECK
Address: CLEVELAND, OH
Email To: MIKE LYDEN
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test: PCBs

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved, H_2SO_4, HNO_3, HCl, NaOH, $Na_2S_2O_3$, Methanol, Other	Analysis Test (Y/N) PCBs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-21 (7.5'-8.5')			8/27/08							☒		013/014
2	D-22 (7.5'-8.5')												
3	D-23 (7.5'-8.5')												
4	D-21 (8.5-9.5')			8/27/08							☒		015/016
5	D-22 (8.5-9.5')												
6	D-23 (8.5-9.5')												
7	E-23 (7.5'-8.5')			8/27/08							☒		017/018
8	E-22 (7.5'-8.5')			"									
9	E-21 (7.5'-8.5')			8/28/08									
10	E-23 (8.5'-9.5')			8/27/08							☒		019/020
11	E-22 (8.5'-9.5')			"									
12	E-21 (8.5'-9.5')			8/28/08									

COMPOSITE HALF OF EACH → INDIVIDUAL
HOLD HALF OF EACH FOR POSSIBLE FOLLOW UP PCB ANALYSIS
COMPOSITE HALF OF EACH → INDIVIDUAL FOLLOW UP PCB ANALYSIS
HOLD HALF OF EACH FOR POSSIBLE INDIVIDUAL
COMPOSITE HALF OF EACH → INDIVIDUAL
HOLD HALF OF EACH FOR POSS. FOLLOW UP
COMPOSITE HALF → INDIV.
HOLD HALF OF EACH FOR INDIV. FOLLOW UP

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Seals on Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	8/28/08	1445	George Moody Pace	8-28-08	14:55				
	George Moody	8-28-08	16:00	[signature]	8/28/08	16:00	4.5	yes	no	yes

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M Lyden
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/28/08

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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.

1165687

Section A Required Client Information:

Company: KELLY-BUCK
Address: CLEVELAND, OH
Email To: MIKE LYDEN
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Coffs Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N: HOLD FOR PCBS, PCB ANAL, PENDING RESULTS OF OTHER SAMPLES

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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-21 (9.5'-10.5')			8/27/08					1									X		020
2	" (10.5'-11.5')								1									X		021
3	" (11.5'-12.5')								1									X		022
4	D-22 (9.5'-10.5')								1									X		023
5	(10.5'-11.5')								1									X		024
6	(11.5'-12.5')								1									X		025
7	D-23 (9.5'-10.5')								1									X		026
8	(10.5'-11.5')								1									X		027
9	(11.5'-12.5')								1									X		028
10																				029
11																				
12																				

92216690

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	8/28/08	1445	[signature] Pace	8-28-08	14:35				
	[signature]	8-28-08	16:00	[signature]	8/28/08	16:00	4.5	yes	no	yes

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M Lyden
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/28/08

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

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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: 4 of 4

1165686

Section A Required Client Information:

Company: KELLY-BICKCO CLEVELAND OH
Address:
Email To: Mike Lyden
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Capes Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N: HOLD FOR POSSIBLE PCB ANALYSIS PENDING RESULTS OF OTHER SAMPLES; PCBS

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	HOLD FOR POSSIBLE PCB ANALYSIS PENDING RESULTS OF OTHER SAMPLES	PCBS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	E-23 (9.5' - 10.5')			8/27/08					1										X			030
2	" (10.5 - 11.5)			↓					1										X			031
3	" (11.5 - 12.5)								1										X			032
4	E-22 (9.5 - 10.5)								1										X			033
5	" (10.5 - 11.5)								1										X			034
6	" (11.5 - 12.5)								1										X			035
7	E-21 (9.5 - 10.5)			8/28/08					1										X			036
8	" (10.5 - 11.5)			"					1										X			037
9	" (11.5 - 12.5)			"					1										X			038
10																						
11	AOC 13 EAST CONCRETE (COMPOSITE)			8/27/08					1											X		039
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	8/28/08	1445	George Moody-Pace	8-28-08	14:55
	George Moody	8-28-08	16:00	[signature]	8/28/08	16:00

SAMPLE CONDITIONS	Temp in °C	Received on Ice (Y/N)	Custody Cooler (Y/N)	Samples Intact (Y/N)
	9.5	yes	no	yes

SAMPLER NAME AND SIGNATURE: [signature]
PRINT Name of SAMPLER: Mike Lyden
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 8/28/08

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

Client Name: Kelly Buck Project # 92246690

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Optional: Proj. Due Date: N/A Proj. Name: N/A

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used T060 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 4.5 Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: GC 8/28/08

Temp should be above freezing to 6°C

		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 Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	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.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
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)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): N/A		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: BKM Date: 8-29-08

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)

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 29, 2008

Mr. Mike Lyden
Kelly Buck Company
2130 Superior Ave
Suite 3A
Cleveland, OH 44114

RE: Project: COPES VULCAN REC
Pace Project No.: 9226765

Dear Mr. Lyden:
Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Renee Spencer

Renee Spencer for
Bonnie McKee
bonnie.mckee@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Charlotte Certification IDs

Connecticut Certification Number: PH-0104
Pennsylvania Certification Number: 68-00784
West Virginia Certification Number: 357
Virginia Certification Number: 00213
Tennessee Certification Number: 04010
South Carolina Drinking Water Cert. Number: 990060003
South Carolina Certification Number: 990060001
North Carolina Field Services Certification Number: 5342
North Carolina Wastewater Certification Number: 12
North Carolina Drinking Water Certification Number: 37706
Louisiana/LELAP Certification Number: 04034
Kentucky UST Certification Number: 84
New Jersey Certification Number: NC012
Florida/NELAP Certification Number: E87627

Asheville Certification IDs

Connecticut Certification Number: PH-0106
Massachusetts Certification Number: M-NC030
West Virginia Certification Number: 356
Virginia Certification Number: 00072
Tennessee Certification Number: 2980
South Carolina Bioassay Certification Number: 99030002
South Carolina Certification Number: 99030001
Pennsylvania Certification Number: 68-03578
North Carolina Bioassay Certification Number: 9
North Carolina Wastewater Certification Number: 40
North Carolina Drinking Water Certification Number: 37712
New Jersey Certification Number: NC011
Louisiana/LELAP Certification Number: 03095
Florida/NELAP Certification Number: E87648

Eden Certification IDs

Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633
North Carolina Drinking Water Certification Number: 37738

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Huntersville, NC 28078
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SAMPLE SUMMARY

Project: COPES VULCAN REC
Pace Project No.: 9226765

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9226765001	DE 16-17 (3-4)	Solid	08/28/08 00:00	08/29/08 14:00
9226765002	DE 16-17 (4-5)	Solid	08/28/08 00:00	08/29/08 14:00
9226765014	D-17 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765015	E-17 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765016	D-16 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765017	E-16 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765027	C-13 (0-1)	Solid	08/28/08 00:00	08/29/08 14:00
9226765028	C-14 (0-1)	Solid	08/28/08 00:00	08/29/08 14:00
9226765029	C-13 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765030	C-14 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765031	C-13 (2-3)	Solid	08/28/08 00:00	08/29/08 14:00
9226765032	C-14 (2-3)	Solid	08/28/08 00:00	08/29/08 14:00
9226765041	C-15 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765042	C-16 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765043	C-17 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765044	C-18 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765045	C-15 (2-3)	Solid	08/28/08 00:00	08/29/08 14:00
9226765046	C-16 (2-3)	Solid	08/28/08 00:00	08/29/08 14:00
9226765047	C-17 (2-3)	Solid	08/28/08 00:00	08/29/08 14:00
9226765048	C-18 (2-3)	Solid	08/28/08 00:00	08/29/08 14:00
9226765097	C 13-14 (0-1)	Solid	08/28/08 00:00	08/29/08 14:00
9226765098	C 13-14 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765099	C 13-14 (2-3)	Solid	08/28/08 00:00	08/29/08 14:00
9226765100	C 15-18 (0-1)	Solid	08/28/08 00:00	08/29/08 14:00
9226765101	C 15-18 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765102	C 15-18 (2-3)	Solid	08/28/08 00:00	08/29/08 14:00
9226765103	C 19-22 (0-1)	Solid	08/28/08 00:00	08/29/08 14:00
9226765104	C 19-22 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765105	C 19-22 (2-3)	Solid	08/28/08 00:00	08/29/08 14:00
9226765106	C 23-26 (0-1)	Solid	08/28/08 00:00	08/29/08 14:00
9226765107	C 23-26 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765108	C 23-26 (2-3)	Solid	08/28/08 00:00	08/29/08 14:00
9226765109	B 23-26 (0-1)	Solid	08/28/08 00:00	08/29/08 14:00
9226765110	B 23-26 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00
9226765111	B 23-26 (2-3)	Solid	08/28/08 00:00	08/29/08 14:00
9226765112	B 19-22 (0-1)	Solid	08/28/08 00:00	08/29/08 14:00
9226765113	B 19-22 (1-2)	Solid	08/28/08 00:00	08/29/08 14:00

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: COPES VULCAN REC
Pace Project No.: 9226765

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9226765114	**B 19-22 (2-3)**	Solid	08/28/08 00:00	08/29/08 14:00
9226765115	**C-15 (3-4)**	Solid	08/28/08 00:00	08/29/08 14:00
9226765116	**C-16 (3-4)**	Solid	08/28/08 00:00	08/29/08 14:00
9226765117	**C-17 (3-4)**	Solid	08/28/08 00:00	08/29/08 14:00
9226765118	**C-18 (3-4)**	Solid	08/28/08 00:00	08/29/08 14:00
9226765127	**C-15 (4-5)**	Solid	08/28/08 00:00	08/29/08 14:00
9226765128	**C-16 (4-5)**	Solid	08/28/08 00:00	08/29/08 14:00
9226765129	**C-17 (4-5)**	Solid	08/28/08 00:00	08/29/08 14:00
9226765130	**C-18 (4-5)**	Solid	08/28/08 00:00	08/29/08 14:00

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SAMPLE ANALYTE COUNT

Project: COPES VULCAN REC
Pace Project No.: 9226765

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9226765001	DE 16-17 (3-4)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765002	DE 16-17 (4-5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765014	D-17 (1-2)	ASTM D2974-87	JEA	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226765015	E-17 (1-2)	ASTM D2974-87	JEA	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9226765016	D-16 (1-2)	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
		EPA 8260	DJM	15
9226765017	E-16 (1-2)	ASTM D2974-87	JEA	1
		EPA 8082	JEM	8
		EPA 8260	DJM	15
9226765027	C-13 (0-1)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765028	C-14 (0-1)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765029	C-13 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765030	C-14 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765031	C-13 (2-3)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765032	C-14 (2-3)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765041	C-15 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765042	C-16 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765043	C-17 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765044	C-18 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765045	C-15 (2-3)	ASTM D2974-87	TNM	1

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SAMPLE ANALYTE COUNT

Project: COPES VULCAN REC
Pace Project No.: 9226765

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8082	JEM	8
9226765046	C-16 (2-3)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765047	C-17 (2-3)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765048	C-18 (2-3)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765097	C 13-14 (0-1)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765098	C 13-14 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765099	C 13-14 (2-3)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765100	C 15-18 (0-1)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765101	C 15-18 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765102	C 15-18 (2-3)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765103	C 19-22 (0-1)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765104	C 19-22 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765105	C 19-22 (2-3)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765106	C 23-26 (0-1)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765107	C 23-26 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765108	C 23-26 (2-3)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765109	B 23-26 (0-1)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765110	B 23-26 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765111	B 23-26 (2-3)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8

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SAMPLE ANALYTE COUNT

Project: COPES VULCAN REC
Pace Project No.: 9226765

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9226765112	B 19-22 (0-1)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765113	B 19-22 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765114	B 19-22 (2-3)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765115	C-15 (3-4)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765116	C-16 (3-4)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765117	C-17 (3-4)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765118	C-18 (3-4)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765127	C-15 (4-5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765128	C-16 (4-5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765129	C-17 (4-5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9226765130	C-18 (4-5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: DE 16-17 (3-4) **Lab ID: 9226765001** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.9	9.4	1	09/05/08 00:00	09/08/08 15:50	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.9	17.7	1	09/05/08 00:00	09/08/08 15:50	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.9	17.7	1	09/05/08 00:00	09/08/08 15:50	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.9	17.7	1	09/05/08 00:00	09/08/08 15:50	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.9	17.7	1	09/05/08 00:00	09/08/08 15:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**7050**	ug/kg	1940	884	50	09/05/08 00:00	09/09/08 11:46	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.9	5.9	1	09/05/08 00:00	09/08/08 15:50	11096-82-5	
Decachlorobiphenyl (S)	66	%	50-150		1	09/05/08 00:00	09/08/08 15:50	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.1**	%	0.10	0.10	1		09/02/08 18:23		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: DE 16-17 (4-5) **Lab ID: 9226765002** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.4	9.3	1	09/05/08 00:00	09/08/08 16:04	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.4	17.5	1	09/05/08 00:00	09/08/08 16:04	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.4	17.5	1	09/05/08 00:00	09/08/08 16:04	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.4	17.5	1	09/05/08 00:00	09/08/08 16:04	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.4	17.5	1	09/05/08 00:00	09/08/08 16:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**31800**	ug/kg	7680	3490	200	09/05/08 00:00	09/09/08 11:59	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.4	5.8	1	09/05/08 00:00	09/08/08 16:04	11096-82-5	
Decachlorobiphenyl (S)	109	%	50-150		1	09/05/08 00:00	09/08/08 16:04	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.1**	%	0.10	0.10	1		09/02/08 18:24		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: D-17 (1-2) **Lab ID: 9226765014** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.8	8.7	1	09/05/08 00:00	09/08/08 16:17	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.8	16.3	1	09/05/08 00:00	09/08/08 16:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.8	16.3	1	09/05/08 00:00	09/08/08 16:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.8	16.3	1	09/05/08 00:00	09/08/08 16:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.8	16.3	1	09/05/08 00:00	09/08/08 16:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**27.9J**	ug/kg	35.8	16.3	1	09/05/08 00:00	09/08/08 16:17	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	35.8	5.4	1	09/05/08 00:00	09/08/08 16:17	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	09/05/08 00:00	09/08/08 16:17	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	**34.0J**	ug/L	125	30.0	25		09/11/08 20:26	71-43-2	
2-Butanone (MEK)	ND	ug/L	250	70.0	25		09/11/08 20:26	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		09/11/08 20:26	56-23-5	
Chlorobenzene	**52.4J**	ug/L	125	25.0	25		09/11/08 20:26	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		09/11/08 20:26	67-66-3	
1,4-Dichlorobenzene	**99.4J**	ug/L	125	30.0	25		09/11/08 20:26	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		09/11/08 20:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		09/11/08 20:26	75-35-4	
Tetrachloroethene	ND	ug/L	125	47.5	25		09/11/08 20:26	127-18-4	
Trichloroethene	**65.5J**	ug/L	125	25.0	25		09/11/08 20:26	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		09/11/08 20:26	75-01-4	
1,2-Dichloroethane-d4 (S)	117	%	79-120		25		09/11/08 20:26	17060-07-0	
Toluene-d8 (S)	101	%	70-120		25		09/11/08 20:26	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-109		25		09/11/08 20:26	460-00-4	
Dibromofluoromethane (S)	118	%	85-115		25		09/11/08 20:26	1868-53-7	S3
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.8**	%	0.10	0.10	1		09/03/08 09:06		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: E-17 (1-2) **Lab ID: 9226765015** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.8	10.1	1	09/05/08 00:00	09/08/08 16:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.8	19.0	1	09/05/08 00:00	09/08/08 16:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.8	19.0	1	09/05/08 00:00	09/08/08 16:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.8	19.0	1	09/05/08 00:00	09/08/08 16:31	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.8	19.0	1	09/05/08 00:00	09/08/08 16:31	12672-29-6	
PCB-1254 (Aroclor 1254)	**412**	ug/kg	41.8	19.0	1	09/05/08 00:00	09/08/08 16:31	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.8	6.3	1	09/05/08 00:00	09/08/08 16:31	11096-82-5	
Decachlorobiphenyl (S)	63	%	50-150		1	09/05/08 00:00	09/08/08 16:31	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	125	30.0	25		09/11/08 20:45	71-43-2	
2-Butanone (MEK)	ND	ug/L	250	70.0	25		09/11/08 20:45	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		09/11/08 20:45	56-23-5	
Chlorobenzene	ND	ug/L	125	25.0	25		09/11/08 20:45	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		09/11/08 20:45	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	125	30.0	25		09/11/08 20:45	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		09/11/08 20:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		09/11/08 20:45	75-35-4	
Tetrachloroethene	**58.4J**	ug/L	125	47.5	25		09/11/08 20:45	127-18-4	
Trichloroethene	ND	ug/L	125	25.0	25		09/11/08 20:45	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		09/11/08 20:45	75-01-4	
1,2-Dichloroethane-d4 (S)	127	%	79-120		25		09/11/08 20:45	17060-07-0	
Toluene-d8 (S)	106	%	70-120		25		09/11/08 20:45	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-109		25		09/11/08 20:45	460-00-4	
Dibromofluoromethane (S)	116	%	85-115		25		09/11/08 20:45	1868-53-7	S3
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.0**	%	0.10	0.10	1		09/03/08 09:06		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: D-16 (1-2) **Lab ID: 9226765016** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.2	8.5	1	09/05/08 00:00	09/08/08 16:44	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.2	16.0	1	09/05/08 00:00	09/08/08 16:44	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.2	16.0	1	09/05/08 00:00	09/08/08 16:44	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.2	16.0	1	09/05/08 00:00	09/08/08 16:44	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.2	16.0	1	09/05/08 00:00	09/08/08 16:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**12700**	ug/kg	1760	800	50	09/05/08 00:00	09/09/08 12:13	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	35.2	5.3	1	09/05/08 00:00	09/08/08 16:44	11096-82-5	
Decachlorobiphenyl (S)	69	%	50-150		1	09/05/08 00:00	09/08/08 16:44	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	50.0	12.0	10		09/14/08 10:06	71-43-2	
2-Butanone (MEK)	ND	ug/L	100	28.0	10		09/14/08 10:06	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	27.0	10		09/14/08 10:06	56-23-5	
Chlorobenzene	ND	ug/L	50.0	10.0	10		09/14/08 10:06	108-90-7	
Chloroform	ND	ug/L	50.0	20.0	10		09/14/08 10:06	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	50.0	12.0	10		09/14/08 10:06	106-46-7	
1,2-Dichloroethane	ND	ug/L	50.0	13.0	10		09/14/08 10:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	34.0	10		09/14/08 10:06	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	19.0	10		09/14/08 10:06	127-18-4	
Trichloroethene	ND	ug/L	50.0	10.0	10		09/14/08 10:06	79-01-6	
Vinyl chloride	ND	ug/L	50.0	19.0	10		09/14/08 10:06	75-01-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		10		09/14/08 10:06	17060-07-0	
Toluene-d8 (S)	102	%	70-120		10		09/14/08 10:06	2037-26-5	
4-Bromofluorobenzene (S)	97	%	87-109		10		09/14/08 10:06	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		10		09/14/08 10:06	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.2**	%	0.10	0.10	1		09/05/08 09:03		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: E-16 (1-2) **Lab ID: 9226765017** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.2	9.3	1	09/05/08 00:00	09/08/08 16:58	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.2	17.4	1	09/05/08 00:00	09/08/08 16:58	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.2	17.4	1	09/05/08 00:00	09/08/08 16:58	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.2	17.4	1	09/05/08 00:00	09/08/08 16:58	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.2	17.4	1	09/05/08 00:00	09/08/08 16:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**363**	ug/kg	38.2	17.4	1	09/05/08 00:00	09/08/08 16:58	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.2	5.8	1	09/05/08 00:00	09/08/08 16:58	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	09/05/08 00:00	09/08/08 16:58	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	50.0	12.0	10		09/14/08 09:40	71-43-2	
2-Butanone (MEK)	ND	ug/L	100	28.0	10		09/14/08 09:40	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	27.0	10		09/14/08 09:40	56-23-5	
Chlorobenzene	ND	ug/L	50.0	10.0	10		09/14/08 09:40	108-90-7	
Chloroform	ND	ug/L	50.0	20.0	10		09/14/08 09:40	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	50.0	12.0	10		09/14/08 09:40	106-46-7	
1,2-Dichloroethane	ND	ug/L	50.0	13.0	10		09/14/08 09:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	34.0	10		09/14/08 09:40	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	19.0	10		09/14/08 09:40	127-18-4	
Trichloroethene	ND	ug/L	50.0	10.0	10		09/14/08 09:40	79-01-6	
Vinyl chloride	ND	ug/L	50.0	19.0	10		09/14/08 09:40	75-01-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		10		09/14/08 09:40	17060-07-0	
Toluene-d8 (S)	102	%	70-120		10		09/14/08 09:40	2037-26-5	
4-Bromofluorobenzene (S)	96	%	87-109		10		09/14/08 09:40	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		10		09/14/08 09:40	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.7**	%	0.10	0.10	1		09/03/08 09:06		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-13 (0-1) **Lab ID: 9226765027** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.0	10.2	1	10/19/08 00:00	10/21/08 21:26	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.0	19.1	1	10/19/08 00:00	10/21/08 21:26	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.0	19.1	1	10/19/08 00:00	10/21/08 21:26	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.0	19.1	1	10/19/08 00:00	10/21/08 21:26	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.0	19.1	1	10/19/08 00:00	10/21/08 21:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**1890**	ug/kg	420	191	10	10/19/08 00:00	10/22/08 15:58	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.0	6.4	1	10/19/08 00:00	10/21/08 21:26	11096-82-5	
Decachlorobiphenyl (S)	58	%	50-150		1	10/19/08 00:00	10/21/08 21:26	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.4**	%	0.10	0.10	1		10/17/08 08:49		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-14 (0-1) **Lab ID: 9226765028** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	47.3	11.5	1	10/19/08 00:00	10/21/08 21:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	47.3	21.5	1	10/19/08 00:00	10/21/08 21:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	47.3	21.5	1	10/19/08 00:00	10/21/08 21:40	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	47.3	21.5	1	10/19/08 00:00	10/21/08 21:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	47.3	21.5	1	10/19/08 00:00	10/21/08 21:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**772**	ug/kg	237	108	5	10/19/08 00:00	10/22/08 16:12	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	47.3	7.2	1	10/19/08 00:00	10/21/08 21:40	11096-82-5	
Decachlorobiphenyl (S)	68	%	50-150		1	10/19/08 00:00	10/21/08 21:40	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.3**	%	0.10	0.10	1		10/17/08 08:50		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-13 (1-2) **Lab ID: 9226765029** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.7	9.1	1	10/19/08 00:00	10/21/08 21:54	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.7	17.1	1	10/19/08 00:00	10/21/08 21:54	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.7	17.1	1	10/19/08 00:00	10/21/08 21:54	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.7	17.1	1	10/19/08 00:00	10/21/08 21:54	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.7	17.1	1	10/19/08 00:00	10/21/08 21:54	12672-29-6	
PCB-1254 (Aroclor 1254)	**1010**	ug/kg	377	171	10	10/19/08 00:00	10/22/08 16:26	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.7	5.7	1	10/19/08 00:00	10/21/08 21:54	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	10/19/08 00:00	10/21/08 21:54	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.5**	%	0.10	0.10	1		10/17/08 08:50		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-14 (1-2) **Lab ID: 9226765030** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.6	9.4	1	10/19/08 00:00	10/21/08 22:08	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.6	17.6	1	10/19/08 00:00	10/21/08 22:08	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.6	17.6	1	10/19/08 00:00	10/21/08 22:08	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.6	17.6	1	10/19/08 00:00	10/21/08 22:08	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.6	17.6	1	10/19/08 00:00	10/21/08 22:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**4890**	ug/kg	966	439	25	10/19/08 00:00	10/22/08 16:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.6	5.9	1	10/19/08 00:00	10/21/08 22:08	11096-82-5	
Decachlorobiphenyl (S)	66	%	50-150		1	10/19/08 00:00	10/21/08 22:08	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.6**	%	0.10	0.10	1		10/17/08 08:50		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-13 (2-3) **Lab ID: 9226765031** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.3	9.3	1	10/19/08 00:00	10/21/08 22:22	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.3	17.4	1	10/19/08 00:00	10/21/08 22:22	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.3	17.4	1	10/19/08 00:00	10/21/08 22:22	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.3	17.4	1	10/19/08 00:00	10/21/08 22:22	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.3	17.4	1	10/19/08 00:00	10/21/08 22:22	12672-29-6	
PCB-1254 (Aroclor 1254)	**2250**	ug/kg	765	348	20	10/19/08 00:00	10/22/08 16:55	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.3	5.8	1	10/19/08 00:00	10/21/08 22:22	11096-82-5	
Decachlorobiphenyl (S)	71	%	50-150		1	10/19/08 00:00	10/21/08 22:22	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.8**	%	0.10	0.10	1		10/17/08 08:51		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-14 (2-3) **Lab ID: 9226765032** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.1	9.7	1	10/19/08 00:00	10/21/08 22:36	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.1	18.2	1	10/19/08 00:00	10/21/08 22:36	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.1	18.2	1	10/19/08 00:00	10/21/08 22:36	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.1	18.2	1	10/19/08 00:00	10/21/08 22:36	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.1	18.2	1	10/19/08 00:00	10/21/08 22:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**5830**	ug/kg	1000	456	25	10/19/08 00:00	10/22/08 17:09	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.1	6.1	1	10/19/08 00:00	10/21/08 22:36	11096-82-5	
Decachlorobiphenyl (S)	59	%	50-150		1	10/19/08 00:00	10/21/08 22:36	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.7**	%	0.10	0.10	1		10/17/08 08:51		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-15 (1-2) **Lab ID: 9226765041** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.5	9.3	1	10/19/08 00:00	10/21/08 22:50	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.5	17.5	1	10/19/08 00:00	10/21/08 22:50	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.5	17.5	1	10/19/08 00:00	10/21/08 22:50	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.5	17.5	1	10/19/08 00:00	10/21/08 22:50	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.5	17.5	1	10/19/08 00:00	10/21/08 22:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**737**	ug/kg	192	87.4	5	10/19/08 00:00	10/22/08 17:23	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.5	5.8	1	10/19/08 00:00	10/21/08 22:50	11096-82-5	
Decachlorobiphenyl (S)	81	%	50-150		1	10/19/08 00:00	10/21/08 22:50	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.2**	%	0.10	0.10	1		10/17/08 08:52		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-16 (1-2) **Lab ID: 9226765042** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.3	9.1	1	10/19/08 00:00	10/21/08 23:04	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.3	17.0	1	10/19/08 00:00	10/21/08 23:04	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.3	17.0	1	10/19/08 00:00	10/21/08 23:04	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.3	17.0	1	10/19/08 00:00	10/21/08 23:04	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.3	17.0	1	10/19/08 00:00	10/21/08 23:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**35000**	ug/kg	3730	1700	100	10/19/08 00:00	10/22/08 17:37	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.3	5.7	1	10/19/08 00:00	10/21/08 23:04	11096-82-5	
Decachlorobiphenyl (S)	78	%	50-150		1	10/19/08 00:00	10/21/08 23:04	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.6**	%	0.10	0.10	1		10/17/08 08:52		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-17 (1-2) **Lab ID: 9226765043** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	33.8	8.2	1	10/19/08 00:00	10/21/08 23:18	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.8	15.4	1	10/19/08 00:00	10/21/08 23:18	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.8	15.4	1	10/19/08 00:00	10/21/08 23:18	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.8	15.4	1	10/19/08 00:00	10/21/08 23:18	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.8	15.4	1	10/19/08 00:00	10/21/08 23:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**19.8J**	ug/kg	33.8	15.4	1	10/19/08 00:00	10/21/08 23:18	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	33.8	5.1	1	10/19/08 00:00	10/21/08 23:18	11096-82-5	
Decachlorobiphenyl (S)	65	%	50-150		1	10/19/08 00:00	10/21/08 23:18	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**2.5**	%	0.10	0.10	1		10/17/08 08:52		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-18 (1-2) **Lab ID: 9226765044** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.7	8.9	1	10/19/08 00:00	10/21/08 23:32	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.7	16.7	1	10/19/08 00:00	10/21/08 23:32	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.7	16.7	1	10/19/08 00:00	10/21/08 23:32	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.7	16.7	1	10/19/08 00:00	10/21/08 23:32	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.7	16.7	1	10/19/08 00:00	10/21/08 23:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**1620**	ug/kg	367	167	10	10/19/08 00:00	10/22/08 17:51	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	36.7	5.6	1	10/19/08 00:00	10/21/08 23:32	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	10/19/08 00:00	10/21/08 23:32	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.1**	%	0.10	0.10	1		10/17/08 08:52		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-15 (2-3) **Lab ID: 9226765045** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.7	9.9	1	10/19/08 00:00	10/21/08 23:46	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.7	18.5	1	10/19/08 00:00	10/21/08 23:46	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.7	18.5	1	10/19/08 00:00	10/21/08 23:46	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.7	18.5	1	10/19/08 00:00	10/21/08 23:46	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.7	18.5	1	10/19/08 00:00	10/21/08 23:46	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	40.7	18.5	1	10/19/08 00:00	10/21/08 23:46	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.7	6.2	1	10/19/08 00:00	10/21/08 23:46	11096-82-5	
Decachlorobiphenyl (S)	52	%	50-150		1	10/19/08 00:00	10/21/08 23:46	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.8**	%	0.10	0.10	1		10/17/08 08:52		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-16 (2-3) **Lab ID: 9226765046** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.5	9.3	1	10/19/08 00:00	10/22/08 00:00	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.5	17.5	1	10/19/08 00:00	10/22/08 00:00	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.5	17.5	1	10/19/08 00:00	10/22/08 00:00	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.5	17.5	1	10/19/08 00:00	10/22/08 00:00	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.5	17.5	1	10/19/08 00:00	10/22/08 00:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**64900**	ug/kg	3850	1750	100	10/19/08 00:00	10/22/08 18:05	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.5	5.8	1	10/19/08 00:00	10/22/08 00:00	11096-82-5	
Decachlorobiphenyl (S)	82	%	50-150		1	10/19/08 00:00	10/22/08 00:00	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.2**	%	0.10	0.10	1		10/17/08 08:53		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-17 (2-3) **Lab ID: 9226765047** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.0	9.5	1	10/19/08 00:00	10/22/08 00:14	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.0	17.7	1	10/19/08 00:00	10/22/08 00:14	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.0	17.7	1	10/19/08 00:00	10/22/08 00:14	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.0	17.7	1	10/19/08 00:00	10/22/08 00:14	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.0	17.7	1	10/19/08 00:00	10/22/08 00:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**7470**	ug/kg	1950	886	50	10/19/08 00:00	10/22/08 18:19	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.0	5.9	1	10/19/08 00:00	10/22/08 00:14	11096-82-5	
Decachlorobiphenyl (S)	86	%	50-150		1	10/19/08 00:00	10/22/08 00:14	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.4**	%	0.10	0.10	1		10/17/08 08:53		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-18 (2-3) **Lab ID: 9226765048** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.1	9.5	1	10/19/08 00:00	10/22/08 00:28	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.1	17.8	1	10/19/08 00:00	10/22/08 00:28	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.1	17.8	1	10/19/08 00:00	10/22/08 00:28	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.1	17.8	1	10/19/08 00:00	10/22/08 00:28	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.1	17.8	1	10/19/08 00:00	10/22/08 00:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**67700**	ug/kg	3910	1780	100	10/19/08 00:00	10/22/08 18:33	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.1	5.9	1	10/19/08 00:00	10/22/08 00:28	11096-82-5	
Decachlorobiphenyl (S)	77	%	50-150		1	10/19/08 00:00	10/22/08 00:28	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.7**	%	0.10	0.10	1		10/17/08 08:53		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C 13-14 (0-1) **Lab ID: 9226765097** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.6	9.1	1	09/05/08 00:00	09/08/08 17:12	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.6	17.1	1	09/05/08 00:00	09/08/08 17:12	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.6	17.1	1	09/05/08 00:00	09/08/08 17:12	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.6	17.1	1	09/05/08 00:00	09/08/08 17:12	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.6	17.1	1	09/05/08 00:00	09/08/08 17:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**2060**	ug/kg	376	171	10	09/05/08 00:00	09/09/08 12:26	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.6	5.7	1	09/05/08 00:00	09/08/08 17:12	11096-82-5	
Decachlorobiphenyl (S)	58	%	50-150		1	09/05/08 00:00	09/08/08 17:12	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.2**	%	0.10	0.10	1		10/13/08 12:56		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C 13-14 (1-2) **Lab ID: 9226765098** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.8	9.4	1	09/05/08 00:00	09/08/08 17:25	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.8	17.6	1	09/05/08 00:00	09/08/08 17:25	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.8	17.6	1	09/05/08 00:00	09/08/08 17:25	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.8	17.6	1	09/05/08 00:00	09/08/08 17:25	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.8	17.6	1	09/05/08 00:00	09/08/08 17:25	12672-29-6	
PCB-1254 (Aroclor 1254)	**3670**	ug/kg	777	353	20	09/05/08 00:00	09/09/08 12:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.8	5.9	1	09/05/08 00:00	09/08/08 17:25	11096-82-5	
Decachlorobiphenyl (S)	87	%	50-150		1	09/05/08 00:00	09/08/08 17:25	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.0**	%	0.10	0.10	1		10/13/08 12:57		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C 13-14 (2-3) **Lab ID: 9226765099** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.7	10.1	1	09/05/08 00:00	09/08/08 18:06	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.7	18.9	1	09/05/08 00:00	09/08/08 18:06	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.7	18.9	1	09/05/08 00:00	09/08/08 18:06	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.7	18.9	1	09/05/08 00:00	09/08/08 18:06	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.7	18.9	1	09/05/08 00:00	09/08/08 18:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**2270**	ug/kg	834	379	20	09/05/08 00:00	09/09/08 12:54	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.7	6.3	1	09/05/08 00:00	09/08/08 18:06	11096-82-5	
Decachlorobiphenyl (S)	61	%	50-150		1	09/05/08 00:00	09/08/08 18:06	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.8**	%	0.10	0.10	1		10/13/08 12:57		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C 15-18 (0-1) **Lab ID: 9226765100** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	33.7	8.2	1	09/05/08 00:00	09/08/08 18:19	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.7	15.3	1	09/05/08 00:00	09/08/08 18:19	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.7	15.3	1	09/05/08 00:00	09/08/08 18:19	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.7	15.3	1	09/05/08 00:00	09/08/08 18:19	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.7	15.3	1	09/05/08 00:00	09/08/08 18:19	12672-29-6	
PCB-1254 (Aroclor 1254)	**834**	ug/kg	169	76.7	5	09/05/08 00:00	09/09/08 13:07	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	33.7	5.1	1	09/05/08 00:00	09/08/08 18:19	11096-82-5	
Decachlorobiphenyl (S)	58	%	50-150		1	09/05/08 00:00	09/08/08 18:19	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**2.2**	%	0.10	0.10	1		10/13/08 12:57		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C 15-18 (1-2) **Lab ID: 9226765101** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.0	9.2	1	09/05/08 00:00	09/08/08 18:33	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.0	17.3	1	09/05/08 00:00	09/08/08 18:33	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.0	17.3	1	09/05/08 00:00	09/08/08 18:33	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.0	17.3	1	09/05/08 00:00	09/08/08 18:33	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.0	17.3	1	09/05/08 00:00	09/08/08 18:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**2950**	ug/kg	760	345	20	09/05/08 00:00	09/09/08 13:21	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.0	5.8	1	09/05/08 00:00	09/08/08 18:33	11096-82-5	
Decachlorobiphenyl (S)	57	%	50-150		1	09/05/08 00:00	09/08/08 18:33	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.1**	%	0.10	0.10	1		10/13/08 12:57		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C 15-18 (2-3) **Lab ID: 9226765102** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.8	9.2	1	09/05/08 00:00	09/08/08 18:46	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.8	17.2	1	09/05/08 00:00	09/08/08 18:46	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.8	17.2	1	09/05/08 00:00	09/08/08 18:46	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.8	17.2	1	09/05/08 00:00	09/08/08 18:46	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.8	17.2	1	09/05/08 00:00	09/08/08 18:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**10100**	ug/kg	1890	860	50	09/05/08 00:00	09/09/08 13:34	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.8	5.7	1	09/05/08 00:00	09/08/08 18:46	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	09/05/08 00:00	09/08/08 18:46	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.8**	%	0.10	0.10	1		10/13/08 12:58		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C 19-22 (0-1) **Lab ID: 9226765103** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	33.8	8.2	1	09/05/08 00:00	09/08/08 19:00	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.8	15.4	1	09/05/08 00:00	09/08/08 19:00	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.8	15.4	1	09/05/08 00:00	09/08/08 19:00	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.8	15.4	1	09/05/08 00:00	09/08/08 19:00	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.8	15.4	1	09/05/08 00:00	09/08/08 19:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**1080**	ug/kg	169	76.9	5	09/05/08 00:00	09/09/08 13:48	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	33.8	5.1	1	09/05/08 00:00	09/08/08 19:00	11096-82-5	
Decachlorobiphenyl (S)	58	%	50-150		1	09/05/08 00:00	09/08/08 19:00	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**2.5**	%	0.10	0.10	1		10/13/08 12:58		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C 19-22 (1-2) **Lab ID: 9226765104** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.5	9.3	1	09/05/08 00:00	09/08/08 19:14	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.5	17.5	1	09/05/08 00:00	09/08/08 19:14	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.5	17.5	1	09/05/08 00:00	09/08/08 19:14	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.5	17.5	1	09/05/08 00:00	09/08/08 19:14	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.5	17.5	1	09/05/08 00:00	09/08/08 19:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**26300**	ug/kg	1920	875	50	09/05/08 00:00	09/09/08 14:02	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.5	5.8	1	09/05/08 00:00	09/08/08 19:14	11096-82-5	
Decachlorobiphenyl (S)	56	%	50-150		1	09/05/08 00:00	09/08/08 19:14	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.3**	%	0.10	0.10	1		10/13/08 12:58		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C 19-22 (2-3) **Lab ID: 9226765105** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.1	9.7	1	09/05/08 00:00	09/08/08 19:27	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.1	18.2	1	09/05/08 00:00	09/08/08 19:27	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.1	18.2	1	09/05/08 00:00	09/08/08 19:27	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.1	18.2	1	09/05/08 00:00	09/08/08 19:27	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.1	18.2	1	09/05/08 00:00	09/08/08 19:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**868**	ug/kg	201	91.2	5	09/05/08 00:00	09/09/08 14:15	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.1	6.1	1	09/05/08 00:00	09/08/08 19:27	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	09/05/08 00:00	09/08/08 19:27	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.7**	%	0.10	0.10	1		10/13/08 12:58		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C 23-26 (0-1) **Lab ID: 9226765106** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	33.8	8.2	1	09/05/08 00:00	09/08/08 19:41	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.8	15.4	1	09/05/08 00:00	09/08/08 19:41	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.8	15.4	1	09/05/08 00:00	09/08/08 19:41	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.8	15.4	1	09/05/08 00:00	09/08/08 19:41	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.8	15.4	1	09/05/08 00:00	09/08/08 19:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**1070**	ug/kg	169	76.9	5	09/05/08 00:00	09/09/08 14:29	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	33.8	5.1	1	09/05/08 00:00	09/08/08 19:41	11096-82-5	
Decachlorobiphenyl (S)	103	%	50-150		1	09/05/08 00:00	09/08/08 19:41	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**2.4**	%	0.10	0.10	1		10/13/08 12:59		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C 23-26 (1-2) **Lab ID: 9226765107** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.9	8.5	1	09/09/08 00:00	09/10/08 12:36	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.9	15.9	1	09/09/08 00:00	09/10/08 12:36	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.9	15.9	1	09/09/08 00:00	09/10/08 12:36	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.9	15.9	1	09/09/08 00:00	09/10/08 12:36	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.9	15.9	1	09/09/08 00:00	09/10/08 12:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**3360**	ug/kg	698	317	20	09/09/08 00:00	09/11/08 13:47	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	34.9	5.3	1	09/09/08 00:00	09/10/08 12:36	11096-82-5	
Decachlorobiphenyl (S)	63	%	50-150		1	09/09/08 00:00	09/10/08 12:36	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.5**	%	0.10	0.10	1		10/13/08 12:59		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C 23-26 (2-3) **Lab ID: 9226765108** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.0	10.4	1	09/09/08 00:00	09/10/08 13:17	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.0	19.5	1	09/09/08 00:00	09/10/08 13:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.0	19.5	1	09/09/08 00:00	09/10/08 13:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.0	19.5	1	09/09/08 00:00	09/10/08 13:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.0	19.5	1	09/09/08 00:00	09/10/08 13:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**3580**	ug/kg	859	390	20	09/09/08 00:00	09/11/08 14:01	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.0	6.5	1	09/09/08 00:00	09/10/08 13:17	11096-82-5	
Decachlorobiphenyl (S)	126	%	50-150		1	09/09/08 00:00	09/10/08 13:17	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.2**	%	0.10	0.10	1		10/13/08 12:59		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: B 23-26 (0-1) **Lab ID: 9226765109** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.0	9.5	1	09/09/08 00:00	09/10/08 13:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.0	17.7	1	09/09/08 00:00	09/10/08 13:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.0	17.7	1	09/09/08 00:00	09/10/08 13:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.0	17.7	1	09/09/08 00:00	09/10/08 13:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.0	17.7	1	09/09/08 00:00	09/10/08 13:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**480**	ug/kg	78.1	35.5	2	09/09/08 00:00	09/11/08 14:15	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.0	5.9	1	09/09/08 00:00	09/10/08 13:30	11096-82-5	
Decachlorobiphenyl (S)	54	%	50-150		1	09/09/08 00:00	09/10/08 13:30	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.5**	%	0.10	0.10	1		10/13/08 13:00		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: B 23-26 (1-2) **Lab ID: 9226765110** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.2	9.3	1	09/09/08 00:00	09/10/08 13:44	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.2	17.4	1	09/09/08 00:00	09/10/08 13:44	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.2	17.4	1	09/09/08 00:00	09/10/08 13:44	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.2	17.4	1	09/09/08 00:00	09/10/08 13:44	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.2	17.4	1	09/09/08 00:00	09/10/08 13:44	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	38.2	17.4	1	09/09/08 00:00	09/10/08 13:44	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.2	5.8	1	09/09/08 00:00	09/10/08 13:44	11096-82-5	
Decachlorobiphenyl (S)	57	%	50-150		1	09/09/08 00:00	09/10/08 13:44	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.6**	%	0.10	0.10	1		10/13/08 13:00		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: B 23-26 (2-3) **Lab ID: 9226765111** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.6	9.6	1	09/09/08 00:00	09/10/08 13:57	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.6	18.0	1	09/09/08 00:00	09/10/08 13:57	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.6	18.0	1	09/09/08 00:00	09/10/08 13:57	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.6	18.0	1	09/09/08 00:00	09/10/08 13:57	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.6	18.0	1	09/09/08 00:00	09/10/08 13:57	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	39.6	18.0	1	09/09/08 00:00	09/10/08 13:57	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.6	6.0	1	09/09/08 00:00	09/10/08 13:57	11096-82-5	
Decachlorobiphenyl (S)	56	%	50-150		1	09/09/08 00:00	09/10/08 13:57	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.6**	%	0.10	0.10	1		10/13/08 13:00		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: B 19-22 (0-1) **Lab ID: 9226765112** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.6	10.1	1	09/09/08 00:00	09/10/08 14:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.6	18.9	1	09/09/08 00:00	09/10/08 14:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.6	18.9	1	09/09/08 00:00	09/10/08 14:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.6	18.9	1	09/09/08 00:00	09/10/08 14:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.6	18.9	1	09/09/08 00:00	09/10/08 14:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**414**	ug/kg	83.1	37.8	2	09/09/08 00:00	09/11/08 14:28	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.6	6.3	1	09/09/08 00:00	09/10/08 14:11	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	09/09/08 00:00	09/10/08 14:11	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.6**	%	0.10	0.10	1		10/13/08 13:01		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: B 19-22 (1-2) **Lab ID: 9226765113** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.4	10.0	1	09/09/08 00:00	09/10/08 14:25	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.4	18.8	1	09/09/08 00:00	09/10/08 14:25	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.4	18.8	1	09/09/08 00:00	09/10/08 14:25	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.4	18.8	1	09/09/08 00:00	09/10/08 14:25	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.4	18.8	1	09/09/08 00:00	09/10/08 14:25	12672-29-6	
PCB-1254 (Aroclor 1254)	**652**	ug/kg	207	94.1	5	09/09/08 00:00	09/11/08 15:22	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.4	6.3	1	09/09/08 00:00	09/10/08 14:25	11096-82-5	
Decachlorobiphenyl (S)	69	%	50-150		1	09/09/08 00:00	09/10/08 14:25	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.3**	%	0.10	0.10	1		10/13/08 13:01		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: B 19-22 (2-3) **Lab ID: 9226765114** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.4	9.6	1	09/09/08 00:00	09/10/08 14:38	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.4	17.9	1	09/09/08 00:00	09/10/08 14:38	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.4	17.9	1	09/09/08 00:00	09/10/08 14:38	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.4	17.9	1	09/09/08 00:00	09/10/08 14:38	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.4	17.9	1	09/09/08 00:00	09/10/08 14:38	12672-29-6	
PCB-1254 (Aroclor 1254)	**146**	ug/kg	39.4	17.9	1	09/09/08 00:00	09/10/08 14:38	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.4	6.0	1	09/09/08 00:00	09/10/08 14:38	11096-82-5	
Decachlorobiphenyl (S)	63	%	50-150		1	09/09/08 00:00	09/10/08 14:38	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.3**	%	0.10	0.10	1		10/13/08 13:01		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-15 (3-4) **Lab ID: 9226765115** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.9	9.9	1	10/19/08 00:00	10/22/08 00:42	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.9	18.6	1	10/19/08 00:00	10/22/08 00:42	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.9	18.6	1	10/19/08 00:00	10/22/08 00:42	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.9	18.6	1	10/19/08 00:00	10/22/08 00:42	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.9	18.6	1	10/19/08 00:00	10/22/08 00:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**21.4J**	ug/kg	40.9	18.6	1	10/19/08 00:00	10/22/08 00:42	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.9	6.2	1	10/19/08 00:00	10/22/08 00:42	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	10/19/08 00:00	10/22/08 00:42	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.4**	%	0.10	0.10	1		10/17/08 08:53		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-16 (3-4) **Lab ID: 9226765116** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.5	9.1	1	10/19/08 00:00	10/22/08 00:56	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.5	17.0	1	10/19/08 00:00	10/22/08 00:56	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.5	17.0	1	10/19/08 00:00	10/22/08 00:56	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.5	17.0	1	10/19/08 00:00	10/22/08 00:56	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.5	17.0	1	10/19/08 00:00	10/22/08 00:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**8580**	ug/kg	1870	851	50	10/19/08 00:00	10/22/08 18:47	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.5	5.7	1	10/19/08 00:00	10/22/08 00:56	11096-82-5	
Decachlorobiphenyl (S)	64	%	50-150		1	10/19/08 00:00	10/22/08 00:56	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.9**	%	0.10	0.10	1		10/17/08 08:54		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-17 (3-4) **Lab ID: 9226765117** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.5	9.8	1	10/19/08 00:00	10/22/08 01:10	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.5	18.4	1	10/19/08 00:00	10/22/08 01:10	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.5	18.4	1	10/19/08 00:00	10/22/08 01:10	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.5	18.4	1	10/19/08 00:00	10/22/08 01:10	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.5	18.4	1	10/19/08 00:00	10/22/08 01:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**147**	ug/kg	40.5	18.4	1	10/19/08 00:00	10/22/08 01:10	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.5	6.1	1	10/19/08 00:00	10/22/08 01:10	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	10/19/08 00:00	10/22/08 01:10	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.5**	%	0.10	0.10	1		10/17/08 08:54		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-18 (3-4) **Lab ID: 9226765118** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.6	10.1	1	10/19/08 00:00	10/22/08 01:24	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.6	18.9	1	10/19/08 00:00	10/22/08 01:24	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.6	18.9	1	10/19/08 00:00	10/22/08 01:24	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.6	18.9	1	10/19/08 00:00	10/22/08 01:24	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.6	18.9	1	10/19/08 00:00	10/22/08 01:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**33300**	ug/kg	4160	1890	100	10/19/08 00:00	10/22/08 19:01	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.6	6.3	1	10/19/08 00:00	10/22/08 01:24	11096-82-5	
Decachlorobiphenyl (S)	78	%	50-150		1	10/19/08 00:00	10/22/08 01:24	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.7**	%	0.10	0.10	1		10/17/08 08:54		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-15 (4-5) **Lab ID: 9226765127** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.5	10.5	1	10/19/08 00:00	10/22/08 01:38	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.5	19.8	1	10/19/08 00:00	10/22/08 01:38	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.5	19.8	1	10/19/08 00:00	10/22/08 01:38	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.5	19.8	1	10/19/08 00:00	10/22/08 01:38	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.5	19.8	1	10/19/08 00:00	10/22/08 01:38	12672-29-6	
PCB-1254 (Aroclor 1254)	**23.0J**	ug/kg	43.5	19.8	1	10/19/08 00:00	10/22/08 01:38	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.5	6.6	1	10/19/08 00:00	10/22/08 01:38	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	10/19/08 00:00	10/22/08 01:38	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**24.1**	%	0.10	0.10	1		10/17/08 08:54		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-16 (4-5) **Lab ID: 9226765128** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.6	9.6	1	10/19/08 00:00	10/22/08 01:52	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.6	18.0	1	10/19/08 00:00	10/22/08 01:52	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.6	18.0	1	10/19/08 00:00	10/22/08 01:52	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.6	18.0	1	10/19/08 00:00	10/22/08 01:52	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.6	18.0	1	10/19/08 00:00	10/22/08 01:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**9870**	ug/kg	1980	901	50	10/19/08 00:00	10/22/08 19:15	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.6	6.0	1	10/19/08 00:00	10/22/08 01:52	11096-82-5	
Decachlorobiphenyl (S)	90	%	50-150		1	10/19/08 00:00	10/22/08 01:52	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.8**	%	0.10	0.10	1		10/17/08 08:55		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-17 (4-5) **Lab ID: 9226765129** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	995	241	25	10/23/08 00:00	10/28/08 18:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	995	452	25	10/23/08 00:00	10/28/08 18:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	995	452	25	10/23/08 00:00	10/28/08 18:40	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	995	452	25	10/23/08 00:00	10/28/08 18:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	995	452	25	10/23/08 00:00	10/28/08 18:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**3930**	ug/kg	995	452	25	10/23/08 00:00	10/28/08 18:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	995	151	25	10/23/08 00:00	10/28/08 18:40	11096-82-5	
Decachlorobiphenyl (S)	0	%	50-150		25	10/23/08 00:00	10/28/08 18:40	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.1**	%	0.10	0.10	1		10/17/08 14:55		

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ANALYTICAL RESULTS

Project: COPES VULCAN REC
Pace Project No.: 9226765

Sample: C-18 (4-5) **Lab ID: 9226765130** Collected: 08/28/08 00:00 Received: 08/29/08 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	2110	511	50	10/23/08 00:00	10/28/08 18:54	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	2110	957	50	10/23/08 00:00	10/28/08 18:54	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	2110	957	50	10/23/08 00:00	10/28/08 18:54	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	2110	957	50	10/23/08 00:00	10/28/08 18:54	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	2110	957	50	10/23/08 00:00	10/28/08 18:54	12672-29-6	
PCB-1254 (Aroclor 1254)	**7130**	ug/kg	2110	957	50	10/23/08 00:00	10/28/08 18:54	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	2110	319	50	10/23/08 00:00	10/28/08 18:54	11096-82-5	
Decachlorobiphenyl (S)	0	%	50-150		50	10/23/08 00:00	10/28/08 18:54	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.7**	%	0.10	0.10	1		10/17/08 14:55		

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226765

QC Batch: PMST/1889
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9226765001, 9226765002

SAMPLE DUPLICATE: 161705

Parameter	Units	9226765006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%		20.4			

SAMPLE DUPLICATE: 161710

Parameter	Units	9226764001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.8	21.5	10	25	

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226765

QC Batch: PMST/1890 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9226765014, 9226765015, 9226765017

SAMPLE DUPLICATE: 161935

Parameter	Units	9226868001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.4	3.3	34	25	R1

SAMPLE DUPLICATE: 161936

Parameter	Units	9226829003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.7	23.0	1	25	

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226765

QC Batch: PMST/1897
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9226765016

SAMPLE DUPLICATE: 163283

Parameter	Units	9227061004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.8	14.2	3	25	

SAMPLE DUPLICATE: 163285

Parameter	Units	9227104001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.9	26.8	12	25	

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226765

QC Batch: OEXT/4307 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9226765001, 9226765002, 9226765014, 9226765015, 9226765016, 9226765017, 9226765097, 9226765098, 9226765099, 9226765100, 9226765101, 9226765102, 9226765103, 9226765104

METHOD BLANK: 163694 Matrix: Solid
Associated Lab Samples: 9226765001, 9226765002, 9226765014, 9226765015, 9226765016, 9226765017, 9226765097, 9226765098, 9226765099, 9226765100, 9226765101, 9226765102, 9226765103, 9226765104, 9226765105, 9226765106

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	09/08/08 14:28	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	09/08/08 14:28	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	09/08/08 14:28	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	09/08/08 14:28	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	09/08/08 14:28	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	09/08/08 14:28	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	09/08/08 14:28	
Decachlorobiphenyl (S)	%	81	50-150	09/08/08 14:28	

LABORATORY CONTROL SAMPLE: 163695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	135	81	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	91.3	55	50-150	
Decachlorobiphenyl (S)	%			92	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 163696 163697

Parameter	Units	9226765098 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	196	196	139	138	71	70	50-150	.8	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	196	196	1430	1430	729	731	50-150	.4	30	1g
Decachlorobiphenyl (S)	%						59	59	50-150			

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226765

QC Batch: OEXT/4337 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9226765107, 9226765108, 9226765109, 9226765110, 9226765111, 9226765112, 9226765113, 9226765114

METHOD BLANK: 164816 Matrix: Solid
Associated Lab Samples: 9226765107, 9226765108, 9226765109, 9226765110, 9226765111, 9226765112, 9226765113, 9226765114

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	09/10/08 12:09	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	09/10/08 12:09	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	09/10/08 12:09	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	09/10/08 12:09	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	09/10/08 12:09	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	09/10/08 12:09	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	09/10/08 12:09	
Decachlorobiphenyl (S)	%	90	50-150	09/10/08 12:09	

LABORATORY CONTROL SAMPLE: 164817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	147	88	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	131	78	50-150	
Decachlorobiphenyl (S)	%			89	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 164818 164819

Parameter	Units	9226765107 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	177	177	167	170	95	97	50-150	2	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	177	177	542	500	307	284	50-150	8	30	1g
Decachlorobiphenyl (S)	%						118	118	50-150			

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226765

QC Batch: MSV/4587 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 9226765014, 9226765015

METHOD BLANK: 166428 | Matrix: Water
Associated Lab Samples: 9226765014, 9226765015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	09/11/08 13:20	
1,2-Dichloroethane	ug/L	ND	5.0	09/11/08 13:20	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/11/08 13:20	
2-Butanone (MEK)	ug/L	ND	10.0	09/11/08 13:20	
Benzene	ug/L	ND	5.0	09/11/08 13:20	
Carbon tetrachloride	ug/L	ND	5.0	09/11/08 13:20	
Chlorobenzene	ug/L	ND	5.0	09/11/08 13:20	
Chloroform	ug/L	ND	5.0	09/11/08 13:20	
Tetrachloroethene	ug/L	ND	5.0	09/11/08 13:20	
Trichloroethene	ug/L	ND	5.0	09/11/08 13:20	
Vinyl chloride	ug/L	ND	5.0	09/11/08 13:20	
1,2-Dichloroethane-d4 (S)	%	92	79-120	09/11/08 13:20	
4-Bromofluorobenzene (S)	%	93	87-109	09/11/08 13:20	
Dibromofluoromethane (S)	%	102	85-115	09/11/08 13:20	
Toluene-d8 (S)	%	103	70-120	09/11/08 13:20	

LABORATORY CONTROL SAMPLE: 166429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	52.2	104	78-146	
1,2-Dichloroethane	ug/L	50	47.9	96	72-126	
1,4-Dichlorobenzene	ug/L	50	48.2	96	79-125	
2-Butanone (MEK)	ug/L	100	87.1	87	50-134	
Benzene	ug/L	50	47.9	96	78-128	
Carbon tetrachloride	ug/L	50	49.2	98	81-137	
Chlorobenzene	ug/L	50	48.8	98	82-126	
Chloroform	ug/L	50	49.7	99	77-129	
Tetrachloroethene	ug/L	50	47.3	95	78-128	
Trichloroethene	ug/L	50	48.5	97	79-127	
Vinyl chloride	ug/L	50	48.5	97	67-143	
1,2-Dichloroethane-d4 (S)	%			103	79-120	
4-Bromofluorobenzene (S)	%			97	87-109	
Dibromofluoromethane (S)	%			94	85-115	
Toluene-d8 (S)	%			100	70-120	

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226765

QC Batch: MSV/4596 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 9226765016, 9226765017

METHOD BLANK: 167206 | Matrix: Water
Associated Lab Samples: 9226765016, 9226765017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	09/14/08 01:38	
1,2-Dichloroethane	ug/L	ND	5.0	09/14/08 01:38	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/14/08 01:38	
2-Butanone (MEK)	ug/L	ND	10.0	09/14/08 01:38	
Benzene	ug/L	ND	5.0	09/14/08 01:38	
Carbon tetrachloride	ug/L	ND	5.0	09/14/08 01:38	
Chlorobenzene	ug/L	ND	5.0	09/14/08 01:38	
Chloroform	ug/L	ND	5.0	09/14/08 01:38	
Tetrachloroethene	ug/L	ND	5.0	09/14/08 01:38	
Trichloroethene	ug/L	ND	5.0	09/14/08 01:38	
Vinyl chloride	ug/L	ND	5.0	09/14/08 01:38	
1,2-Dichloroethane-d4 (S)	%	100	79-120	09/14/08 01:38	
4-Bromofluorobenzene (S)	%	97	87-109	09/14/08 01:38	
Dibromofluoromethane (S)	%	100	85-115	09/14/08 01:38	
Toluene-d8 (S)	%	100	70-120	09/14/08 01:38	

LABORATORY CONTROL SAMPLE: 167207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	46.0	92	78-146	
1,2-Dichloroethane	ug/L	50	51.6	103	72-126	
1,4-Dichlorobenzene	ug/L	50	51.3	103	79-125	
2-Butanone (MEK)	ug/L	100	108	108	50-134	
Benzene	ug/L	50	49.8	100	78-128	
Carbon tetrachloride	ug/L	50	44.7	89	81-137	
Chlorobenzene	ug/L	50	51.5	103	82-126	
Chloroform	ug/L	50	51.8	104	77-129	
Tetrachloroethene	ug/L	50	47.4	95	78-128	
Trichloroethene	ug/L	50	51.0	102	79-127	
Vinyl chloride	ug/L	50	42.2	84	67-143	
1,2-Dichloroethane-d4 (S)	%			101	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			103	85-115	
Toluene-d8 (S)	%			101	70-120	

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226765

QC Batch: PMST/1999 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9226765097, 9226765098, 9226765099, 9226765100, 9226765101, 9226765102, 9226765103, 9226765104, 9226765105, 9226765106, 9226765107, 9226765108, 9226765109, 9226765110, 9226765111, 9226765112, 9226765113, 9226765114

SAMPLE DUPLICATE: 181478

Parameter	Units	9226765097 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.2	12.2	.1	25	

SAMPLE DUPLICATE: 181479

Parameter	Units	9227559012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.3	22.4	4	25	

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226765

QC Batch: PMST/2017 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9226765027, 9226765028, 9226765029, 9226765030, 9226765031, 9226765032, 9226765041, 9226765042, 9226765043, 9226765044, 9226765045, 9226765046, 9226765047, 9226765048, 9226765115, 9226765116, 9226765117, 9226765118, 9226765127, 9226765128

SAMPLE DUPLICATE: 183782

Parameter	Units	9226765027 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.4	21.4	.1	25	

SAMPLE DUPLICATE: 183783

Parameter	Units	9226765128 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.8	16.7	.3	25	

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226765

QC Batch: PMST/2018
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9226765129, 9226765130

SAMPLE DUPLICATE: 183784

Parameter	Units	9226765129 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.1	17.2	.6	25	

SAMPLE DUPLICATE: 183785

Parameter	Units	9227814060 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.7	22.1	3	25	

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226765

QC Batch: OEXT/4753 — Analysis Method: EPA 8082
QC Batch Method: EPA 3546 — Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9226765027, 9226765028, 9226765029, 9226765030, 9226765031, 9226765032, 9226765041, 9226765042, 9226765043, 9226765044, 9226765045, 9226765046, 9226765047, 9226765048

METHOD BLANK: 184854 — Matrix: Solid
Associated Lab Samples: 9226765027, 9226765028, 9226765029, 9226765030, 9226765031, 9226765032, 9226765041, 9226765042, 9226765043, 9226765044, 9226765045, 9226765046, 9226765047, 9226765048, 9226765115, 9226765116, 9226765117, 9226765118, 9226765127, 9226765128

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	10/21/08 20:58	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	10/21/08 20:58	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	10/21/08 20:58	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	10/21/08 20:58	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	10/21/08 20:58	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	10/21/08 20:58	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	10/21/08 20:58	
Decachlorobiphenyl (S)	%	72	50-150	10/21/08 20:58	

LABORATORY CONTROL SAMPLE: 184855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	135	81	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	115	69	50-150	
Decachlorobiphenyl (S)	%			70	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 184856 184857

Parameter	Units	9226765128 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	201	304	306	152	153	50-150	.6	30	1g
PCB-1260 (Aroclor 1260)	ug/kg	ND	201	201	3140	3140	1570	1570	50-150	.1	30	1g
Decachlorobiphenyl (S)	%						70	70	50-150			

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QUALITY CONTROL DATA

Project: COPES VULCAN REC
Pace Project No.: 9226765

QC Batch: OEXT/4790 — Analysis Method: EPA 8082
QC Batch Method: EPA 3546 — Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9226765129, 9226765130

METHOD BLANK: 186647 — Matrix: Solid
Associated Lab Samples: 9226765129, 9226765130

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	10/28/08 12:34	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	10/28/08 12:34	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	10/28/08 12:34	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	10/28/08 12:34	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	10/28/08 12:34	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	10/28/08 12:34	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	10/28/08 12:34	
Decachlorobiphenyl (S)	%	75	50-150	10/28/08 12:34	

LABORATORY CONTROL SAMPLE: 186648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	126	75	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	126	76	50-150	
Decachlorobiphenyl (S)	%			85	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 186649 186650

Parameter	Units	9230294002 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	188	188	642	598	342	318	50-150	7	30	1g
PCB-1260 (Aroclor 1260)	ug/kg	ND	188	188	198	180	105	96	50-150	9	30	
Decachlorobiphenyl (S)	%						101	84	50-150			

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QUALIFIERS

Project: COPES VULCAN REC
Pace Project No.: 9226765

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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ANALYTE QUALIFIERS

1g	The PCB spike recovery was outside acceptance limits for the MS and/or MSD due to high Aroclor concentration. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
R1	RPD value was outside control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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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: of 1178146

Section A Required Client Information:
Company: KELLY BUCK
Address: CLEVELAND OH
Email To: MIKE LYDEN
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: COPES VULCAN REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #: 1563-3

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC
Site Location STATE: NC

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)	PCBS	HOLD FOR POSSIBLE ANALYSIS	TCLP VOCS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-17 (3-4')			8/28/08																			003
2	E-17 (3-4')																		☒				004
3	D-16 (3-4')																			☒			005
4	E-16 (3-4')																						006
5	D-17 (4-5') *			8/28/08																			007
6	E-17 (4-5') *																		☒				008
7	D-16 (4-5') *																			☒			009
8	E-16 (4-5') *																						010
9	D-17 (5-6')			8/28/08																X			011
10	D-17 (6-7')																			X			012
11	D-17 (7-8')																			X			013
12	D-17 (1-2')																		X		X		014

Composite half of each → ☒ (items 1–4)
Hold half of each for possible individual analysis → ☒ (items 1–4)
Composite half of each → ☒ (items 5–8)
Hold half of each for possible individual analysis → ☒ (items 5–8)

9226765

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Returned to Client.	[signature]	8/29	1400	[signature]	8/29	1400	5.8	Y	N	Y
	Bonnie McKee Pace	10/10/08	10:55	[signature]	10/10/08	10:55				

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)

*Impo[illegible]te: 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 [illegible]voices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of

1178145

Section A Required Client Information:

Company: KELLY BUCK
Address: Cleveland OH
Email To: Mike Lyden
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Cores Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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	HOLD FOR POSSIBLE ANALYSIS	RUN PCBS	RUN TCLP VOCS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92216765
1	E-17 (5-6')																	X					018
2	E-17 (6-7')																	X					019
3	E-17 (7-8')																	X					020
4	D-16 (5-6')																	X					021
5	D-16 (6-7')																	X					022
6	D-16 (7-8')																	X					023
7	E-16 (5-6')																	X					024
8	E-16 (6-7')																	X					025
9	E-16 (7-8')																	X					026
10	E-17 (1-2')																		X		X		015
11	D-16 (1-2')																		X		X		016
12	E-16 (1-2')																		X		X		017

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)
	[signature]	8/29	1400	[signature]	8/29	1400	5.8	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 3 of

1178144

Section A Required Client Information:
Company: KELLY-BUCK
Address:
Email To: MIKE LYDEN
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: COPES-VULCAN REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonne McKee
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test (Y/N) — 3 RUN PCBs on COMPOSITED HALF; HOLD INDIVIDUAL SAMPLE HALF EACH FOR POSSIBLE INDIVIDUAL ANALYSIS

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)	3 RUN PCBs on COMPOSITED HALF	HOLD INDIVIDUAL SAMPLE HALF EACH FOR POSSIBLE INDIVIDUAL ANALYSIS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92267165
1	C-13 (0-1')			8/28/08		COMPOSITE HALF OF EACH												☒		X		027
2	C-14 (0-1')			" "		HOLD HALF INDIV.														X		028
3	C-13 (1-2')			8/28/08		COMPOSITE HALF OF EACH												☒		X		029
4	C-14 (1-2')			" "		& HOLD HALF INDIVIDUALLY														X		030
5	C-13 (2-3')			8/28/08		COMPOSITE HALF OF EACH												☒		X		031
6	C-14 (2-3')			" "		& HOLD HALF INDIVIDUALLY														X		032
7	C-13 (3-4')			8/28/08																X		033
8	C-14 (3-4')																			X		035
9	C-13 (~~3-4'~~) 4-5'					JUST HOLD THESE														X		034
10	C-14 (~~3-4'~~) 4-5'					INDIVIDUALLY														X		036
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)
	[signature]	8/29	1400	J Moore	8/29	1400	5.8	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

ORIGINAL

*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 [illegible] 2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 of

1178140

Section A Required Client Information:

Company: KELLY - BLUCK
Address:
Email To: MIKE LYDEN
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: CCPS VULCAN REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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	PCBS	HOLD FOR POSSIBLE ANALYSIS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	C-15 (0-1')			8/29/10		COMPOSITE			1/2 OF EACH									☒	X			037
2	C-16 (0-1')																		X			038
3	C-17 (0-1')					HOLD HALF OF EACH													X			039
4	C-18 (0-1')					SAMPLE INDIVIDUALLY													X			040
5	C-15 (1-2')					COMPOSITE			1/2 OF EACH									☒	X			041
6	C-16 (1-2')																		X			042
7	C-17 (1-2')					HOLD HALF OF EACH													X			043
8	C-18 (1-2')					INDIVIDUALLY													X			044 045
9	C-15 (2-3')					COMPOSITE			1/2 OF EACH									☒	X			045
10	C-16 (2-3')																		X			046
11	C-17 (2-3')					HOLD HALF OF EACH													X			047
12	C-18 (2-3')					INDIVIDUALLY													X			048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	8/29	1400	J Moore	8/29	1400	5.8	Y	N	Y

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)

*Imp[illegible]ote: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month f[illegible] voices not paid within 30 days.

F-ALL-Q-020rev.07, [illegible]-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 5 of

1178141

Section A Required Client Information:

Company: KELLY-BUCK
Address: CLEVELAND OH
Email To: MIKE-LYDEN
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: COPES-VULCAN REC
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference: BONNIE-MCKEE
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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)	PCBS	HOLD FOR POSSIBLE ANALYSIS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	C-19 (0-1')			8/28/08		COMPOSITE 1/2 OF EACH												☒	X			049
2	C-20 (0-1')																		X			050
3	C-21 (0-1')					HOLD 1/2 INDIVIDUALLY													X			051
4	C-22 (0-1')																		X			052
5	C-19 (1-2') *					COMPOSITE 1/2 OF EACH												☒	X			053
6	C-20 (1-2') *																		X			054
7	C-21 (1-2') *					HOLD 1/2 INDIVIDUALLY													X			055
8	C-22 (1-2') *																		X			056
9	C-19 (2-3')					COMPOSITE 1/2 OF EACH												☒	X			057
10	C-20 (2-3')																		X			058
11	C-21 (2-3')					HOLD 1/2 INDIVIDUALLY													X			059
12	C-22 (2-3')																		X			060

9226765

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Returned to Client.	[signature]	8/29	1400	[signature]	8/29	1400	5.8	Y	N	Y
	[signature] Pace	10/10/08	10:55	[signature]	10/10/08	10:55				

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)

ORIGINAL

*Impo[illegible]e: 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 a[illegible]voices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 6 of

1178142

Section A Required Client Information:

Company: KELLY-BUCK
Address: CLEVELAND OH
Email To: MIKE LYDEN
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: COPES-VULCAN REC
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: BONNIE. MCKEE
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): PCBS; HOLD FOR POSSIBLE ANALYSIS

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)	PCBS	HOLD FOR POSSIBLE ANALYSIS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	C-23 (0-1')			8/28/08		COMPOSITE 1/2 OF EACH												☒		X		0161
2	C-24 (0-1')																			X		0162
3	C-25 (0-1')					HOLD 1/2 INDIVIDUALLY														X		0163
4	C-26 (0-1')																			X		0164
5	C-23 (1-2')					COMPOSITE 1/2 OF EACH												☒		X		0165
6	C-24 (1-2')																			X		0166
7	C-25 (1-2')					HOLD 1/2 INDIVIDUALLY														X		0167
8	C-26 (1-2')																			X		0168
9	C-23 (2-3')					COMPOSITE 1/2 OF EACH												☒		X		0169
10	C-24 (2-3')																			X		0170
11	C-25 (2-3')					HOLD 1/2 INDIVIDUALLY														X		0171
12	C-26 (2-3')																			X		0172

106 107 108

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	8/29	1400	[signature]	8/29	1400

SAMPLE CONDITIONS: Temp in °C: 5.8; Received on Ice (Y/N): Y; Custody Sealed Cooler (Y/N): N; Samples Intact (Y/N): Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY):

*Imp[illegible]te: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month fo[illegible] invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-[illegible]y-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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1178139

Section A Required Client Information:
Company: KELLY-BUCK
Address: CLEVELAND OH
Email To: MIKE LYDEN
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: OPES-VULCAN REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: BONNIE McKEE
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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	PCBs	HOLD FOR POSSIBLE ANALYSIS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B-23 (0-1')			8/28/00		COMPOSITE 1/2 OF EACH												☒		X		92216765 073
2	B-24 (0-1')																			X		074
3	B-25 (0-1')					HOLD 1/2 INDIVIDUALLY														X		075
4	B-26 (0-1')																			X		076
5	B-23 (1-2')					COMPOSITE 1/2 OF EACH												☒		X		077
6	B-24 (1-2')																			X		078
7	B-25 (1-2')					HOLD 1/2 INDIVIDUALLY														X		079
8	B-26 (1-2')																			X		080
9	B-23 (2-3')					COMPOSITE 1/2 OF EACH												☒		X		081
10	B-24 (2-3')																			X		082
11	B-25 (2-3')					HOLD 1/2 INDIVIDUALLY														X		083
12	B-26 (2-3')																			X		084

109
110
111

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	8/29	1400	J Moore	8/29	1400	5.0	Y	N	Y

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)

*Impo[illegible]e: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month fo[illegible]oices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 8 of 9

1178138

Section A Required Client Information:

Company: KELLY-BUCK
Address: CLEVELAND OH
Email To: MIKE LYDEN
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: CORES-VULCAN REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER
Site Location STATE:

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): Analysis Test: PCBS — HOLD FOR PCB ANALYSIS

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)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B-19 (0-1')			8/28/08																085
2	B-20 (0-1')																			086
3	B-21 (0-1')																			087
4	B-22 (0-1')																			088
5	B-19 (1-2')																			089
6	B-20 (1-2')																			090
7	B-21 (1-2')																			091
8	B-22 (1-2')																			092
9	B-19 (2-3')																			093
10	B-20 (2-3')																			094
11	B-21 (2-3')																			095
12	B-22 (2-3')																			096

113 — COMPOSITE 1/2 OF EACH → ☒; HOLD 1/2 INDIVIDUALLY
113 — COMPOSITE 1/2 OF EACH → ☒; HOLD 1/2 INDIVIDUALLY
114 — COMPOSITE 1/2 OF EACH → ☒; HOLD 1/2 INDIVIDUALLY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	8/29	1400	[signature]	8/29	1400	5.8	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Lyden
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/29/08

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

ORIGINAL

*Impo[illegible]ote: 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 [illegible]voices 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: 9 of 9

1178137

Section A Required Client Information:
Company: Kelly Rick
Address: CLEVELAND OH
Email To: MIKE LYDEN
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: CARES VULCAN
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bunnie McKee
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER REC
Site Location STATE: NC

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Matrix Codes (see valid codes to left)

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

ITEM #	SAMPLE ID	MATRIX CODE	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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PLEASE HOLD THE FOLLOWING																			
2	INDIVIDUALLY FOR POSSIBLE ANALYSIS (ALL COLLECTED 8/28/08)																			
3																				
4	C-15 thru C-26 (3-4') ← 12 individual samples																			115/116/117/118/
5																				119/120/121/122/123
6	C-15 thru C-26 (4-5') ← 12 individual samples																			124/125/126
7																				127/128/129/130/131/132
8																				133/134/135/136/137/138
9	B-19 thru B-26 (3-4') ← 8 individual samples																			139/140/141/142/143/
10																				144/145/146
11	B-19 thru B-26 (4-5') ← 8 individual samples																			147/148/149/150/
12																				151/152/153/154

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	8/29/08	1400	J Moore	8/29	1400	5.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M Lyden
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/29/08

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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Kelly Buck Project # 92267605

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Optional
Proj. Due Date: N/A
Proj. Name: N/A

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used T060 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 5.8 Biological Tissue is Frozen: Yes No (N/A)

Date and Initials of person examining contents: JEH 08/29/08

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☑No ☐N/A	2. no Time + Date on COC Page 2 of 9
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3. No Time + Date on Bottles
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	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.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. ON COC Page 3 of 9 Items # 9,10 COC sample ID is C-13 (3-4), C-14 (3-4) — on Bottle is Has C-13 (4-5), C-14 (4-5)
-Includes date/time/ID/Analysis Matrix: SL		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13. No Analysis on Bottles
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)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): N/A		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: 8/29/08 Date: BM

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)

KELLY-BUCK
COMPANY

REC-LEAD

RECEIVED
JUN 29 2009
SUPERFUND SECTION

Pre-Construction Report
Remedial Action – Step Two

Contains:

Appendix B – Laboratory Analytical Reports (continued)

Former Copes-Vulcan Facility
601 West Summit Avenue
Charlotte, North Carolina 28203
NCDENR ID# NONCD 000 1097

Submitted to:

The North Carolina Department of Environment and Natural Resources
Division of Waste Management
Inactive Hazardous Sites Branch
Superfund Section
1646 Mail Service Center
Raleigh, NC 27699-1646

Submitted by:

Remediating Party:

Electrolux Home Products, Inc.
20445 Emerald Pkwy. Suite 250, PO Box 35920
Cleveland, Ohio 44135-0920

Registered Environmental Consultant:

The Kelly-Buck Company
2130 Superior Avenue, Suite 3-A
Cleveland, Ohio 44114
(216) 861-1716
North Carolina Engineering License No. C-2692

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Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

October 14, 2008

Mr. Mike Lyden
Kelly Buck Company
2130 Superior Ave
Suite 3A
Cleveland, OH 44114

RE: Project: Copes Vulcan Rec
Pace Project No.: 9227815

Dear Mr. Lyden:
Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Bonnie McKee

Bonnie McKee

bonnie.mckee@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Charlotte Certification IDs

Connecticut Certification Number: PH-0104
Pennsylvania Certification Number: 68-00784
West Virginia Certification Number: 357
Virginia Certification Number: 00213
Tennessee Certification Number: 04010
South Carolina Drinking Water Cert. Number: 990060003
South Carolina Certification Number: 990060001
North Carolina Field Services Certification Number: 5342
North Carolina Wastewater Certification Number: 12
North Carolina Drinking Water Certification Number: 37706
Louisiana/LELAP Certification Number: 04034
Kentucky UST Certification Number: 84
New Jersey Certification Number: NC012
Florida/NELAP Certification Number: E87627

Asheville Certification IDs

Connecticut Certification Number: PH-0106
Massachusetts Certification Number: M-NC030
West Virginia Certification Number: 356
Virginia Certification Number: 00072
Tennessee Certification Number: 2980
South Carolina Bioassay Certification Number: 99030002
South Carolina Certification Number: 99030001
Pennsylvania Certification Number: 68-03578
North Carolina Bioassay Certification Number: 9
North Carolina Wastewater Certification Number: 40
North Carolina Drinking Water Certification Number: 37712
New Jersey Certification Number: NC011
Louisiana/LELAP Certification Number: 03095
Florida/NELAP Certification Number: E87648

Eden Certification IDs

Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633
North Carolina Drinking Water Certification Number: 37738

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SAMPLE SUMMARY

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9227815001	D-12 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815002	D-14 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815003	D-15 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815004	D-20 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815005	E-11 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815006	E-12 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815007	E-13 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815008	E-14 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815009	E-15 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815010	E-20 1.5-2.5	Solid	09/12/08 00:00	09/13/08 09:35
9227815011	E-20 5.5-6.5	Solid	09/12/08 00:00	09/13/08 09:35
9227815012	D-20 3.0-4.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815013	E-11 3.0-4.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815014	D-20 4.0-5.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815015	E-11 4.0-5.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815016	E-20 7.5-8.5	Solid	09/12/08 00:00	09/13/08 09:35
9227815017	21-5 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815018	21-6 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815019	21-7 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815020	21-12 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815021	21-13 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815022	21-14 1.0-2.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815023	21-6 4.0-5.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815024	21-7 4.0-5.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815025	21-13 4.0-5.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815026	21-14 4.0-5.0	Solid	09/12/08 00:00	09/13/08 09:35
9227815027	D-12 E-12 E-13 3.0-4.0 Comp	Solid	09/12/08 00:00	09/13/08 09:35
9227815028	D-14 D-15 E-14 E-15 3-4 Comp	Solid	09/12/08 00:00	09/13/08 09:35
9227815029	D-12 E-12 E-13 4-5 Comp	Solid	09/12/08 00:00	09/13/08 09:35
9227815030	D-14 D-15 E-14 E-15 4-5 Comp	Solid	09/12/08 00:00	09/13/08 09:35

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SAMPLE ANALYTE COUNT

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9227815001	D-12 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9227815002	D-14 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9227815003	D-15 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9227815004	D-20 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9227815005	E-11 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9227815006	E-12 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9227815007	E-13 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9227815008	E-14 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9227815009	E-15 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9227815010	E-20 1.5-2.5	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9227815011	E-20 5.5-6.5	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9227815012	D-20 3.0-4.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
9227815013	E-11 3.0-4.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8

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SAMPLE ANALYTE COUNT

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9227815014	D-20 4.0-5.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
9227815015	E-11 4.0-5.0	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
9227815016	E-20 7.5-8.5	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
9227815017	21-5 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8260	DLK	15
9227815018	21-6 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8260	DLK	15
9227815019	21-7 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8260	DLK	15
9227815020	21-12 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8260	DLK	15
9227815021	21-13 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8260	DLK	15
9227815022	21-14 1.0-2.0	ASTM D2974-87	KDF	1
		EPA 8260	DLK	15
9227815023	21-6 4.0-5.0	ASTM D2974-87	KDF	1
		EPA 8260	MCK	15
9227815024	21-7 4.0-5.0	ASTM D2974-87	KDF	1
		EPA 8260	DLK	15
9227815025	21-13 4.0-5.0	ASTM D2974-87	KDF	1
		EPA 8260	DLK	15
9227815026	21-14 4.0-5.0	ASTM D2974-87	KDF	1
		EPA 8260	DLK	15
9227815027	D-12 E-12 E-13 3.0-4.0 Comp	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
9227815028	D-14 D-15 E-14 E-15 3-4 Comp	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
9227815029	D-12 E-12 E-13 4-5 Comp	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8
9227815030	D-14 D-15 E-14 E-15 4-5 Comp	ASTM D2974-87	KDF	1
		EPA 8082	JEM	8

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: D-12 1.0-2.0 **Lab ID: 9227815001** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.3	9.3	1	09/17/08 00:00	09/19/08 19:12	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.3	17.4	1	09/17/08 00:00	09/19/08 19:12	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.3	17.4	1	09/17/08 00:00	09/19/08 19:12	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.3	17.4	1	09/17/08 00:00	09/19/08 19:12	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.3	17.4	1	09/17/08 00:00	09/19/08 19:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**357**	ug/kg	38.3	17.4	1	09/17/08 00:00	09/19/08 19:12	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.3	5.8	1	09/17/08 00:00	09/19/08 19:12	11096-82-5	
Decachlorobiphenyl (S)	58	%	50-150		1	09/17/08 00:00	09/19/08 19:12	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	125	30.0	25		09/20/08 21:15	71-43-2	
2-Butanone (MEK)	ND	ug/L	250	70.0	25		09/20/08 21:15	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		09/20/08 21:15	56-23-5	
Chlorobenzene	ND	ug/L	125	25.0	25		09/20/08 21:15	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		09/20/08 21:15	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	125	30.0	25		09/20/08 21:15	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		09/20/08 21:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		09/20/08 21:15	75-35-4	
Tetrachloroethene	ND	ug/L	125	47.5	25		09/20/08 21:15	127-18-4	
Trichloroethene	ND	ug/L	125	25.0	25		09/20/08 21:15	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		09/20/08 21:15	75-01-4	
1,2-Dichloroethane-d4 (S)	97	%	79-120		25		09/20/08 21:15	17060-07-0	
Toluene-d8 (S)	97	%	70-120		25		09/20/08 21:15	2037-26-5	
4-Bromofluorobenzene (S)	112	%	87-109		25		09/20/08 21:15	460-00-4	S0
Dibromofluoromethane (S)	97	%	85-115		25		09/20/08 21:15	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.8**	%	0.10	0.10	1		09/15/08 18:07		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: D-14 1.0-2.0 **Lab ID: 9227815002** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	46.5	11.3	1	09/19/08 00:00	09/23/08 11:26	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	46.5	21.1	1	09/19/08 00:00	09/23/08 11:26	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	46.5	21.1	1	09/19/08 00:00	09/23/08 11:26	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	46.5	21.1	1	09/19/08 00:00	09/23/08 11:26	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	46.5	21.1	1	09/19/08 00:00	09/23/08 11:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**5050**	ug/kg	1160	529	25	09/19/08 00:00	09/23/08 17:16	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	46.5	7.0	1	09/19/08 00:00	09/23/08 11:26	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	09/19/08 00:00	09/23/08 11:26	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	125	30.0	25		09/20/08 21:49	71-43-2	
2-Butanone (MEK)	**91.4J**	ug/L	250	70.0	25		09/20/08 21:49	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		09/20/08 21:49	56-23-5	
Chlorobenzene	ND	ug/L	125	25.0	25		09/20/08 21:49	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		09/20/08 21:49	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	125	30.0	25		09/20/08 21:49	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		09/20/08 21:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		09/20/08 21:49	75-35-4	
Tetrachloroethene	ND	ug/L	125	47.5	25		09/20/08 21:49	127-18-4	
Trichloroethene	ND	ug/L	125	25.0	25		09/20/08 21:49	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		09/20/08 21:49	75-01-4	
1,2-Dichloroethane-d4 (S)	102	%	79-120		25		09/20/08 21:49	17060-07-0	
Toluene-d8 (S)	97	%	70-120		25		09/20/08 21:49	2037-26-5	
4-Bromofluorobenzene (S)	113	%	87-109		25		09/20/08 21:49	460-00-4	S0
Dibromofluoromethane (S)	99	%	85-115		25		09/20/08 21:49	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**29.0**	%	0.10	0.10	1		09/15/08 18:07		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: D-15 1.0-2.0 **Lab ID: 9227815003** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.5	10.3	1	09/19/08 00:00	09/23/08 11:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.5	19.3	1	09/19/08 00:00	09/23/08 11:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.5	19.3	1	09/19/08 00:00	09/23/08 11:40	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.5	19.3	1	09/19/08 00:00	09/23/08 11:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.5	19.3	1	09/19/08 00:00	09/23/08 11:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**29.4J**	ug/kg	42.5	19.3	1	09/19/08 00:00	09/23/08 11:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.5	6.4	1	09/19/08 00:00	09/23/08 11:40	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	09/19/08 00:00	09/23/08 11:40	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 05:50	71-43-2	
2-Butanone (MEK)	**5.0J**	ug/L	10.0	2.8	1		09/21/08 05:50	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 05:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 05:50	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 05:50	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 05:50	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 05:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 05:50	75-35-4	
Tetrachloroethene	**5.4**	ug/L	5.0	1.9	1		09/21/08 05:50	127-18-4	
Trichloroethene	**1.8J**	ug/L	5.0	1.0	1		09/21/08 05:50	79-01-6	
Vinyl chloride	**9.2**	ug/L	5.0	1.9	1		09/21/08 05:50	75-01-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		09/21/08 05:50	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		09/21/08 05:50	2037-26-5	
4-Bromofluorobenzene (S)	91	%	87-109		1		09/21/08 05:50	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		09/21/08 05:50	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.3**	%	0.10	0.10	1		09/15/08 18:07		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: D-20 1.0-2.0 **Lab ID: 9227815004** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.2	9.7	1	09/19/08 00:00	09/23/08 11:53	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.2	18.3	1	09/19/08 00:00	09/23/08 11:53	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.2	18.3	1	09/19/08 00:00	09/23/08 11:53	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.2	18.3	1	09/19/08 00:00	09/23/08 11:53	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.2	18.3	1	09/19/08 00:00	09/23/08 11:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**6530**	ug/kg	1000	456	25	09/19/08 00:00	09/23/08 17:59	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.2	6.1	1	09/19/08 00:00	09/23/08 11:53	11096-82-5	
Decachlorobiphenyl (S)	63	%	50-150		1	09/19/08 00:00	09/23/08 11:53	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	125	30.0	25		09/20/08 21:32	71-43-2	
2-Butanone (MEK)	**117J**	ug/L	250	70.0	25		09/20/08 21:32	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		09/20/08 21:32	56-23-5	
Chlorobenzene	ND	ug/L	125	25.0	25		09/20/08 21:32	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		09/20/08 21:32	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	125	30.0	25		09/20/08 21:32	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		09/20/08 21:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		09/20/08 21:32	75-35-4	
Tetrachloroethene	ND	ug/L	125	47.5	25		09/20/08 21:32	127-18-4	
Trichloroethene	ND	ug/L	125	25.0	25		09/20/08 21:32	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		09/20/08 21:32	75-01-4	
1,2-Dichloroethane-d4 (S)	106	%	79-120		25		09/20/08 21:32	17060-07-0	
Toluene-d8 (S)	96	%	70-120		25		09/20/08 21:32	2037-26-5	
4-Bromofluorobenzene (S)	112	%	87-109		25		09/20/08 21:32	460-00-4	S0
Dibromofluoromethane (S)	102	%	85-115		25		09/20/08 21:32	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.8**	%	0.10	0.10	1		09/15/08 18:07		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: E-11 1.0-2.0 **Lab ID: 9227815005** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.2	10	1	09/19/08 00:00	09/23/08 12:07	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.2	18.7	1	09/19/08 00:00	09/23/08 12:07	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.2	18.7	1	09/19/08 00:00	09/23/08 12:07	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.2	18.7	1	09/19/08 00:00	09/23/08 12:07	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.2	18.7	1	09/19/08 00:00	09/23/08 12:07	12672-29-6	
PCB-1254 (Aroclor 1254)	**208**	ug/kg	41.2	18.7	1	09/19/08 00:00	09/23/08 12:07	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.2	6.2	1	09/19/08 00:00	09/23/08 12:07	11096-82-5	
Decachlorobiphenyl (S)	81	%	50-150		1	09/19/08 00:00	09/23/08 12:07	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 06:24	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	2.8	1		09/21/08 06:24	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 06:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 06:24	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 06:24	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 06:24	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 06:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 06:24	75-35-4	
Tetrachloroethene	ND	ug/L	5.0	1.9	1		09/21/08 06:24	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.0	1		09/21/08 06:24	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/21/08 06:24	75-01-4	
1,2-Dichloroethane-d4 (S)	90	%	79-120		1		09/21/08 06:24	17060-07-0	
Toluene-d8 (S)	95	%	70-120		1		09/21/08 06:24	2037-26-5	
4-Bromofluorobenzene (S)	117	%	87-109		1		09/21/08 06:24	460-00-4	S3
Dibromofluoromethane (S)	110	%	85-115		1		09/21/08 06:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.9**	%	0.10	0.10	1		09/15/08 18:08		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: E-12 1.0-2.0 **Lab ID: 9227815006** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.8	9.4	1	09/19/08 00:00	09/23/08 12:20	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.8	17.6	1	09/19/08 00:00	09/23/08 12:20	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.8	17.6	1	09/19/08 00:00	09/23/08 12:20	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.8	17.6	1	09/19/08 00:00	09/23/08 12:20	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.8	17.6	1	09/19/08 00:00	09/23/08 12:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**224**	ug/kg	38.8	17.6	1	09/19/08 00:00	09/23/08 12:20	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.8	5.9	1	09/19/08 00:00	09/23/08 12:20	11096-82-5	
Decachlorobiphenyl (S)	74	%	50-150		1	09/19/08 00:00	09/23/08 12:20	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/21/08 06:41	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	2.8	1		09/21/08 06:41	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/21/08 06:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/21/08 06:41	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/21/08 06:41	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/21/08 06:41	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/21/08 06:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/21/08 06:41	75-35-4	
Tetrachloroethene	**6.2**	ug/L	5.0	1.9	1		09/21/08 06:41	127-18-4	
Trichloroethene	**1.8J**	ug/L	5.0	1.0	1		09/21/08 06:41	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/21/08 06:41	75-01-4	
1,2-Dichloroethane-d4 (S)	86	%	79-120		1		09/21/08 06:41	17060-07-0	
Toluene-d8 (S)	95	%	70-120		1		09/21/08 06:41	2037-26-5	
4-Bromofluorobenzene (S)	109	%	87-109		1		09/21/08 06:41	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		09/21/08 06:41	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.0**	%	0.10	0.10	1		09/15/08 18:08		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: E-13 1.0-2.0 **Lab ID: 9227815007** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.7	10.1	1	09/19/08 00:00	09/23/08 12:34	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.7	18.9	1	09/19/08 00:00	09/23/08 12:34	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.7	18.9	1	09/19/08 00:00	09/23/08 12:34	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.7	18.9	1	09/19/08 00:00	09/23/08 12:34	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.7	18.9	1	09/19/08 00:00	09/23/08 12:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**2120**	ug/kg	417	189	10	09/19/08 00:00	09/23/08 18:13	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.7	6.3	1	09/19/08 00:00	09/23/08 12:34	11096-82-5	
Decachlorobiphenyl (S)	73	%	50-150		1	09/19/08 00:00	09/23/08 12:34	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	**4.5J**	ug/L	5.0	1.2	1		09/24/08 21:12	71-43-2	
2-Butanone (MEK)	**5.4J**	ug/L	10.0	2.8	1		09/24/08 21:12	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/24/08 21:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/24/08 21:12	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/24/08 21:12	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/24/08 21:12	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/24/08 21:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/24/08 21:12	75-35-4	
Tetrachloroethene	**188**	ug/L	5.0	1.9	1		09/24/08 21:12	127-18-4	
Trichloroethene	**64.1**	ug/L	5.0	1.0	1		09/24/08 21:12	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/24/08 21:12	75-01-4	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		09/24/08 21:12	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		09/24/08 21:12	2037-26-5	
4-Bromofluorobenzene (S)	87	%	87-109		1		09/24/08 21:12	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		09/24/08 21:12	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.8**	%	0.10	0.10	1		09/15/08 18:08		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: E-14 1.0-2.0 **Lab ID: 9227815008** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.6	9.6	1	09/19/08 00:00	09/23/08 12:47	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.6	18.0	1	09/19/08 00:00	09/23/08 12:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.6	18.0	1	09/19/08 00:00	09/23/08 12:47	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.6	18.0	1	09/19/08 00:00	09/23/08 12:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.6	18.0	1	09/19/08 00:00	09/23/08 12:47	12672-29-6	
PCB-1254 (Aroclor 1254)	**594**	ug/kg	79.2	36.0	2	09/19/08 00:00	09/23/08 18:26	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.6	6.0	1	09/19/08 00:00	09/23/08 12:47	11096-82-5	
Decachlorobiphenyl (S)	57	%	50-150		1	09/19/08 00:00	09/23/08 12:47	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	125	30.0	25		09/24/08 22:25	71-43-2	
2-Butanone (MEK)	**127J**	ug/L	250	70.0	25		09/24/08 22:25	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		09/24/08 22:25	56-23-5	
Chlorobenzene	ND	ug/L	125	25.0	25		09/24/08 22:25	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		09/24/08 22:25	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	125	30.0	25		09/24/08 22:25	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		09/24/08 22:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		09/24/08 22:25	75-35-4	
Tetrachloroethene	**494**	ug/L	125	47.5	25		09/24/08 22:25	127-18-4	
Trichloroethene	**190**	ug/L	125	25.0	25		09/24/08 22:25	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		09/24/08 22:25	75-01-4	
1,2-Dichloroethane-d4 (S)	88	%	79-120		25		09/24/08 22:25	17060-07-0	
Toluene-d8 (S)	105	%	70-120		25		09/24/08 22:25	2037-26-5	
4-Bromofluorobenzene (S)	95	%	87-109		25		09/24/08 22:25	460-00-4	
Dibromofluoromethane (S)	92	%	85-115		25		09/24/08 22:25	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.7**	%	0.10	0.10	1		09/15/08 18:08		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: E-15 1.0-2.0 **Lab ID: 9227815009** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.9	9.4	1	09/19/08 00:00	09/23/08 13:01	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.9	17.7	1	09/19/08 00:00	09/23/08 13:01	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.9	17.7	1	09/19/08 00:00	09/23/08 13:01	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.9	17.7	1	09/19/08 00:00	09/23/08 13:01	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.9	17.7	1	09/19/08 00:00	09/23/08 13:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**31.0J**	ug/kg	38.9	17.7	1	09/19/08 00:00	09/23/08 13:01	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.9	5.9	1	09/19/08 00:00	09/23/08 13:01	11096-82-5	
Decachlorobiphenyl (S)	67	%	50-150		1	09/19/08 00:00	09/23/08 13:01	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	**2.0J**	ug/L	5.0	1.2	1		09/24/08 19:59	71-43-2	
2-Butanone (MEK)	**10.3**	ug/L	10.0	2.8	1		09/24/08 19:59	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/24/08 19:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/24/08 19:59	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/24/08 19:59	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/24/08 19:59	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/24/08 19:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/24/08 19:59	75-35-4	
Tetrachloroethene	**2.0J**	ug/L	5.0	1.9	1		09/24/08 19:59	127-18-4	
Trichloroethene	**4.9J**	ug/L	5.0	1.0	1		09/24/08 19:59	79-01-6	
Vinyl chloride	**89.1**	ug/L	5.0	1.9	1		09/24/08 19:59	75-01-4	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		09/24/08 19:59	17060-07-0	
Toluene-d8 (S)	109	%	70-120		1		09/24/08 19:59	2037-26-5	
4-Bromofluorobenzene (S)	89	%	87-109		1		09/24/08 19:59	460-00-4	
Dibromofluoromethane (S)	109	%	85-115		1		09/24/08 19:59	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.1**	%	0.10	0.10	1		09/15/08 18:09		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: E-20 1.5-2.5 **Lab ID: 9227815010** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.7	10.6	1	09/19/08 00:00	09/23/08 13:15	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.7	19.9	1	09/19/08 00:00	09/23/08 13:15	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.7	19.9	1	09/19/08 00:00	09/23/08 13:15	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.7	19.9	1	09/19/08 00:00	09/23/08 13:15	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.7	19.9	1	09/19/08 00:00	09/23/08 13:15	12672-29-6	
PCB-1254 (Aroclor 1254)	**14800**	ug/kg	2190	994	50	09/19/08 00:00	09/23/08 18:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.7	6.6	1	09/19/08 00:00	09/23/08 13:15	11096-82-5	
Decachlorobiphenyl (S)	54	%	50-150		1	09/19/08 00:00	09/23/08 13:15	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/24/08 19:04	71-43-2	
2-Butanone (MEK)	**8.3J**	ug/L	10.0	2.8	1		09/24/08 19:04	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/24/08 19:04	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/24/08 19:04	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/24/08 19:04	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/24/08 19:04	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/24/08 19:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/24/08 19:04	75-35-4	
Tetrachloroethene	**124**	ug/L	5.0	1.9	1		09/24/08 19:04	127-18-4	
Trichloroethene	**17.4**	ug/L	5.0	1.0	1		09/24/08 19:04	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/24/08 19:04	75-01-4	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		09/24/08 19:04	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		09/24/08 19:04	2037-26-5	
4-Bromofluorobenzene (S)	87	%	87-109		1		09/24/08 19:04	460-00-4	
Dibromofluoromethane (S)	102	%	85-115		1		09/24/08 19:04	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**24.5**	%	0.10	0.10	1		09/15/08 18:09		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: E-20 5.5-6.5 **Lab ID: 9227815011** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.0	10.4	1	09/19/08 00:00	09/23/08 13:28	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.0	19.6	1	09/19/08 00:00	09/23/08 13:28	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.0	19.6	1	09/19/08 00:00	09/23/08 13:28	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.0	19.6	1	09/19/08 00:00	09/23/08 13:28	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.0	19.6	1	09/19/08 00:00	09/23/08 13:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**1830**	ug/kg	430	196	10	09/19/08 00:00	09/23/08 19:07	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.0	6.5	1	09/19/08 00:00	09/23/08 13:28	11096-82-5	
Decachlorobiphenyl (S)	70	%	50-150		1	09/19/08 00:00	09/23/08 13:28	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/24/08 20:17	71-43-2	
2-Butanone (MEK)	**3.8J**	ug/L	10.0	2.8	1		09/24/08 20:17	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/24/08 20:17	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/24/08 20:17	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/24/08 20:17	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/24/08 20:17	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/24/08 20:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/24/08 20:17	75-35-4	
Tetrachloroethene	ND	ug/L	5.0	1.9	1		09/24/08 20:17	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.0	1		09/24/08 20:17	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/24/08 20:17	75-01-4	
1,2-Dichloroethane-d4 (S)	93	%	79-120		1		09/24/08 20:17	17060-07-0	
Toluene-d8 (S)	106	%	70-120		1		09/24/08 20:17	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109		1		09/24/08 20:17	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		09/24/08 20:17	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.3**	%	0.10	0.10	1		09/16/08 08:40		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: D-20 3.0-4.0 **Lab ID: 9227815012** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.0	9.9	1	09/19/08 00:00	09/23/08 13:42	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.0	18.6	1	09/19/08 00:00	09/23/08 13:42	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.0	18.6	1	09/19/08 00:00	09/23/08 13:42	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.0	18.6	1	09/19/08 00:00	09/23/08 13:42	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.0	18.6	1	09/19/08 00:00	09/23/08 13:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**191000**	ug/kg	20500	9320	500	09/19/08 00:00	09/23/08 19:34	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.0	6.2	1	09/19/08 00:00	09/23/08 13:42	11096-82-5	
Decachlorobiphenyl (S)	77	%	50-150		1	09/19/08 00:00	09/23/08 13:42	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.6**	%	0.10	0.10	1		09/16/08 08:40		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: E-11 3.0-4.0 **Lab ID: 9227815013** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.8	10.1	1	09/19/08 00:00	09/23/08 13:55	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.8	19.0	1	09/19/08 00:00	09/23/08 13:55	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.8	19.0	1	09/19/08 00:00	09/23/08 13:55	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.8	19.0	1	09/19/08 00:00	09/23/08 13:55	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.8	19.0	1	09/19/08 00:00	09/23/08 13:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**46.9**	ug/kg	41.8	19.0	1	09/19/08 00:00	09/23/08 13:55	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.8	6.3	1	09/19/08 00:00	09/23/08 13:55	11096-82-5	
Decachlorobiphenyl (S)	68	%	50-150		1	09/19/08 00:00	09/23/08 13:55	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.1**	%	0.10	0.10	1		09/16/08 08:40		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: D-20 4.0-5.0 **Lab ID: 9227815014** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.3	10.5	1	09/19/08 00:00	09/23/08 14:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.3	19.7	1	09/19/08 00:00	09/23/08 14:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.3	19.7	1	09/19/08 00:00	09/23/08 14:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.3	19.7	1	09/19/08 00:00	09/23/08 14:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.3	19.7	1	09/19/08 00:00	09/23/08 14:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**141**	ug/kg	43.3	19.7	1	09/19/08 00:00	09/23/08 14:09	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.3	6.6	1	09/19/08 00:00	09/23/08 14:09	11096-82-5	
Decachlorobiphenyl (S)	54	%	50-150		1	09/19/08 00:00	09/23/08 14:09	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.7**	%	0.10	0.10	1		09/16/08 08:41		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: E-11 4.0-5.0 **Lab ID: 9227815015** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.3	9.0	1	09/19/08 00:00	09/23/08 14:23	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.3	17.0	1	09/19/08 00:00	09/23/08 14:23	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.3	17.0	1	09/19/08 00:00	09/23/08 14:23	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.3	17.0	1	09/19/08 00:00	09/23/08 14:23	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.3	17.0	1	09/19/08 00:00	09/23/08 14:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**145**	ug/kg	37.3	17.0	1	09/19/08 00:00	09/23/08 14:23	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.3	5.7	1	09/19/08 00:00	09/23/08 14:23	11096-82-5	
Decachlorobiphenyl (S)	106	%	50-150		1	09/19/08 00:00	09/23/08 14:23	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.6**	%	0.10	0.10	1		09/16/08 08:41		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: E-20 7.5-8.5 **Lab ID: 9227815016** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	46.9	11.4	1	09/19/08 00:00	09/23/08 15:03	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	46.9	21.3	1	09/19/08 00:00	09/23/08 15:03	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	46.9	21.3	1	09/19/08 00:00	09/23/08 15:03	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	46.9	21.3	1	09/19/08 00:00	09/23/08 15:03	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	46.9	21.3	1	09/19/08 00:00	09/23/08 15:03	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	46.9	21.3	1	09/19/08 00:00	09/23/08 15:03	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	46.9	7.1	1	09/19/08 00:00	09/23/08 15:03	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	09/19/08 00:00	09/23/08 15:03	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**29.6**	%	0.10	0.10	1		09/16/08 08:41		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: 21-5 1.0-2.0 **Lab ID: 9227815017** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	125	30.0	25		09/24/08 22:07	71-43-2	
2-Butanone (MEK)	**110J**	ug/L	250	70.0	25		09/24/08 22:07	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		09/24/08 22:07	56-23-5	
Chlorobenzene	ND	ug/L	125	25.0	25		09/24/08 22:07	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		09/24/08 22:07	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	125	30.0	25		09/24/08 22:07	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		09/24/08 22:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		09/24/08 22:07	75-35-4	
Tetrachloroethene	**348**	ug/L	125	47.5	25		09/24/08 22:07	127-18-4	
Trichloroethene	ND	ug/L	125	25.0	25		09/24/08 22:07	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		09/24/08 22:07	75-01-4	
1,2-Dichloroethane-d4 (S)	90	%	79-120		25		09/24/08 22:07	17060-07-0	
Toluene-d8 (S)	108	%	70-120		25		09/24/08 22:07	2037-26-5	
4-Bromofluorobenzene (S)	95	%	87-109		25		09/24/08 22:07	460-00-4	
Dibromofluoromethane (S)	93	%	85-115		25		09/24/08 22:07	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.2**	%	0.10	0.10	1		09/15/08 18:09		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: 21-6 1.0-2.0 **Lab ID: 9227815018** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/24/08 20:35	71-43-2	
2-Butanone (MEK)	**5.8J**	ug/L	10.0	2.8	1		09/24/08 20:35	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/24/08 20:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/24/08 20:35	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/24/08 20:35	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/24/08 20:35	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/24/08 20:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/24/08 20:35	75-35-4	
Tetrachloroethene	**289**	ug/L	5.0	1.9	1		09/24/08 20:35	127-18-4	E
Trichloroethene	**1.2J**	ug/L	5.0	1.0	1		09/24/08 20:35	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/24/08 20:35	75-01-4	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		09/24/08 20:35	17060-07-0	
Toluene-d8 (S)	94	%	70-120		1		09/24/08 20:35	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109		1		09/24/08 20:35	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		09/24/08 20:35	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.0**	%	0.10	0.10	1		09/15/08 18:09		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: 21-7 1.0-2.0 **Lab ID: 9227815019** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/24/08 21:30	71-43-2	
2-Butanone (MEK)	**5.8J**	ug/L	10.0	2.8	1		09/24/08 21:30	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/24/08 21:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/24/08 21:30	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/24/08 21:30	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/24/08 21:30	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/24/08 21:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/24/08 21:30	75-35-4	
Tetrachloroethene	**4.8J**	ug/L	5.0	1.9	1		09/24/08 21:30	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.0	1		09/24/08 21:30	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/24/08 21:30	75-01-4	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		09/24/08 21:30	17060-07-0	
Toluene-d8 (S)	112	%	70-120		1		09/24/08 21:30	2037-26-5	
4-Bromofluorobenzene (S)	97	%	87-109		1		09/24/08 21:30	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		09/24/08 21:30	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.3**	%	0.10	0.10	1		09/15/08 18:10		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: 21-12 1.0-2.0 **Lab ID: 9227815020** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/24/08 18:27	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	2.8	1		09/24/08 18:27	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/24/08 18:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/24/08 18:27	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/24/08 18:27	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/24/08 18:27	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/24/08 18:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/24/08 18:27	75-35-4	
Tetrachloroethene	**35.2**	ug/L	5.0	1.9	1		09/24/08 18:27	127-18-4	
Trichloroethene	**1.2J**	ug/L	5.0	1.0	1		09/24/08 18:27	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/24/08 18:27	75-01-4	
1,2-Dichloroethane-d4 (S)	86	%	79-120		1		09/24/08 18:27	17060-07-0	
Toluene-d8 (S)	107	%	70-120		1		09/24/08 18:27	2037-26-5	
4-Bromofluorobenzene (S)	97	%	87-109		1		09/24/08 18:27	460-00-4	
Dibromofluoromethane (S)	94	%	85-115		1		09/24/08 18:27	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.1**	%	0.10	0.10	1		09/15/08 18:10		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: 21-13 1.0-2.0 **Lab ID: 9227815021** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/24/08 20:54	71-43-2	
2-Butanone (MEK)	**4.1J**	ug/L	10.0	2.8	1		09/24/08 20:54	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/24/08 20:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/24/08 20:54	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/24/08 20:54	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/24/08 20:54	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/24/08 20:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/24/08 20:54	75-35-4	
Tetrachloroethene	**363**	ug/L	5.0	1.9	1		09/24/08 20:54	127-18-4	E
Trichloroethene	**9.4**	ug/L	5.0	1.0	1		09/24/08 20:54	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/24/08 20:54	75-01-4	
1,2-Dichloroethane-d4 (S)	91	%	79-120		1		09/24/08 20:54	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		09/24/08 20:54	2037-26-5	
4-Bromofluorobenzene (S)	88	%	87-109		1		09/24/08 20:54	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		09/24/08 20:54	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.0**	%	0.10	0.10	1		09/15/08 18:10		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: 21-14 1.0-2.0 **Lab ID: 9227815022** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/25/08 13:43	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	2.8	1		09/25/08 13:43	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/25/08 13:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/25/08 13:43	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/25/08 13:43	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/25/08 13:43	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/25/08 13:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/25/08 13:43	75-35-4	
Tetrachloroethene	ND	ug/L	5.0	1.9	1		09/25/08 13:43	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.0	1		09/25/08 13:43	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/25/08 13:43	75-01-4	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		09/25/08 13:43	17060-07-0	
Toluene-d8 (S)	113	%	70-120		1		09/25/08 13:43	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-109		1		09/25/08 13:43	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		09/25/08 13:43	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.6**	%	0.10	0.10	1		09/15/08 18:10		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: 21-6 4.0-5.0 **Lab ID: 9227815023** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	100	24.0	20		09/29/08 21:20	71-43-2	
2-Butanone (MEK)	ND	ug/L	200	56.0	20		09/29/08 21:20	78-93-3	
Carbon tetrachloride	ND	ug/L	100	54.0	20		09/29/08 21:20	56-23-5	
Chlorobenzene	ND	ug/L	100	20.0	20		09/29/08 21:20	108-90-7	
Chloroform	ND	ug/L	100	40.0	20		09/29/08 21:20	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	100	24.0	20		09/29/08 21:20	106-46-7	
1,2-Dichloroethane	ND	ug/L	100	26.0	20		09/29/08 21:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	68.0	20		09/29/08 21:20	75-35-4	
Tetrachloroethene	**3140**	ug/L	100	38.0	20		09/29/08 21:20	127-18-4	
Trichloroethene	ND	ug/L	100	20.0	20		09/29/08 21:20	79-01-6	
Vinyl chloride	ND	ug/L	100	38.0	20		09/29/08 21:20	75-01-4	
1,2-Dichloroethane-d4 (S)	107	%	79-120		20		09/29/08 21:20	17060-07-0	
Toluene-d8 (S)	102	%	70-120		20		09/29/08 21:20	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-109		20		09/29/08 21:20	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		20		09/29/08 21:20	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.5**	%	0.10	0.10	1		09/15/08 18:10		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: 21-7 4.0-5.0 **Lab ID: 9227815024** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	125	30.0	25		09/24/08 22:43	71-43-2	
2-Butanone (MEK)	**148J**	ug/L	250	70.0	25		09/24/08 22:43	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		09/24/08 22:43	56-23-5	
Chlorobenzene	ND	ug/L	125	25.0	25		09/24/08 22:43	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		09/24/08 22:43	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	125	30.0	25		09/24/08 22:43	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		09/24/08 22:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		09/24/08 22:43	75-35-4	
Tetrachloroethene	**59.2J**	ug/L	125	47.5	25		09/24/08 22:43	127-18-4	
Trichloroethene	ND	ug/L	125	25.0	25		09/24/08 22:43	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		09/24/08 22:43	75-01-4	
1,2-Dichloroethane-d4 (S)	81	%	79-120		25		09/24/08 22:43	17060-07-0	
Toluene-d8 (S)	103	%	70-120		25		09/24/08 22:43	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-109		25		09/24/08 22:43	460-00-4	
Dibromofluoromethane (S)	81	%	85-115		25		09/24/08 22:43	1868-53-7	S0
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.1**	%	0.10	0.10	1		09/15/08 18:11		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: 21-13 4.0-5.0 **Lab ID: 9227815025** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/25/08 13:24	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	2.8	1		09/25/08 13:24	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/25/08 13:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/25/08 13:24	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/25/08 13:24	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/25/08 13:24	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/25/08 13:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/25/08 13:24	75-35-4	
Tetrachloroethene	**335**	ug/L	5.0	1.9	1		09/25/08 13:24	127-18-4	E
Trichloroethene	**11.0**	ug/L	5.0	1.0	1		09/25/08 13:24	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/25/08 13:24	75-01-4	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		09/25/08 13:24	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		09/25/08 13:24	2037-26-5	
4-Bromofluorobenzene (S)	88	%	87-109		1		09/25/08 13:24	460-00-4	
Dibromofluoromethane (S)	113	%	85-115		1		09/25/08 13:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.8**	%	0.10	0.10	1		09/15/08 18:11		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: 21-14 4.0-5.0 **Lab ID: 9227815026** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	125	30.0	25		09/25/08 14:01	71-43-2	
2-Butanone (MEK)	ND	ug/L	250	70.0	25		09/25/08 14:01	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		09/25/08 14:01	56-23-5	
Chlorobenzene	ND	ug/L	125	25.0	25		09/25/08 14:01	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		09/25/08 14:01	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	125	30.0	25		09/25/08 14:01	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		09/25/08 14:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		09/25/08 14:01	75-35-4	
Tetrachloroethene	ND	ug/L	125	47.5	25		09/25/08 14:01	127-18-4	
Trichloroethene	ND	ug/L	125	25.0	25		09/25/08 14:01	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		09/25/08 14:01	75-01-4	
1,2-Dichloroethane-d4 (S)	99	%	79-120		25		09/25/08 14:01	17060-07-0	
Toluene-d8 (S)	96	%	70-120		25		09/25/08 14:01	2037-26-5	
4-Bromofluorobenzene (S)	95	%	87-109		25		09/25/08 14:01	460-00-4	
Dibromofluoromethane (S)	102	%	85-115		25		09/25/08 14:01	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.2**	%	0.10	0.10	1		09/15/08 18:12		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: D-12 E-12 E-13 3.0-4.0 Comp **Lab ID: 9227815027** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.2	10	1	09/19/08 00:00	09/23/08 15:17	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.2	18.7	1	09/19/08 00:00	09/23/08 15:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.2	18.7	1	09/19/08 00:00	09/23/08 15:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.2	18.7	1	09/19/08 00:00	09/23/08 15:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.2	18.7	1	09/19/08 00:00	09/23/08 15:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**41.1J**	ug/kg	41.2	18.7	1	09/19/08 00:00	09/23/08 15:17	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.2	6.2	1	09/19/08 00:00	09/23/08 15:17	11096-82-5	
Decachlorobiphenyl (S)	62	%	50-150		1	09/19/08 00:00	09/23/08 15:17	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.9**	%	0.10	0.10	1		09/16/08 08:41		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: D-14 D-15 E-14 E-15 3-4 Comp **Lab ID: 9227815028** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.3	10.5	1	09/19/08 00:00	09/23/08 15:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.3	19.7	1	09/19/08 00:00	09/23/08 15:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.3	19.7	1	09/19/08 00:00	09/23/08 15:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.3	19.7	1	09/19/08 00:00	09/23/08 15:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.3	19.7	1	09/19/08 00:00	09/23/08 15:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**3100**	ug/kg	1080	492	25	09/19/08 00:00	09/23/08 19:48	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.3	6.6	1	09/19/08 00:00	09/23/08 15:30	11096-82-5	
Decachlorobiphenyl (S)	54	%	50-150		1	09/19/08 00:00	09/23/08 15:30	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.7**	%	0.10	0.10	1		09/16/08 08:41		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: D-12 E-12 E-13 4-5 Comp **Lab ID: 9227815029** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.1	10	1	09/19/08 00:00	09/23/08 15:44	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.1	18.7	1	09/19/08 00:00	09/23/08 15:44	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.1	18.7	1	09/19/08 00:00	09/23/08 15:44	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.1	18.7	1	09/19/08 00:00	09/23/08 15:44	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.1	18.7	1	09/19/08 00:00	09/23/08 15:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**34.2J**	ug/kg	41.1	18.7	1	09/19/08 00:00	09/23/08 15:44	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.1	6.2	1	09/19/08 00:00	09/23/08 15:44	11096-82-5	
Decachlorobiphenyl (S)	57	%	50-150		1	09/19/08 00:00	09/23/08 15:44	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.6**	%	0.10	0.10	1		09/16/08 08:42		

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ANALYTICAL RESULTS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

Sample: D-14 D-15 E-14 E-15 4-5 Comp **Lab ID: 9227815030** Collected: 09/12/08 00:00 Received: 09/13/08 09:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	44.4	10.8	1	09/19/08 00:00	09/23/08 15:58	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	44.4	20.2	1	09/19/08 00:00	09/23/08 15:58	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	44.4	20.2	1	09/19/08 00:00	09/23/08 15:58	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	44.4	20.2	1	09/19/08 00:00	09/23/08 15:58	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	44.4	20.2	1	09/19/08 00:00	09/23/08 15:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**45.0**	ug/kg	44.4	20.2	1	09/19/08 00:00	09/23/08 15:58	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	44.4	6.7	1	09/19/08 00:00	09/23/08 15:58	11096-82-5	
Decachlorobiphenyl (S)	60	%	50-150		1	09/19/08 00:00	09/23/08 15:58	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.6**	%	0.10	0.10	1		09/16/08 08:42		

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QUALITY CONTROL DATA

Project: Copes Vulcan Rec
Pace Project No.: 9227815

QC Batch: PMST/1923 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9227815001, 9227815002, 9227815003, 9227815004, 9227815005, 9227815006, 9227815007, 9227815008, 9227815009, 9227815010, 9227815017, 9227815018, 9227815019, 9227815020, 9227815021, 9227815022, 9227815023, 9227815024, 9227815025, 9227815026

SAMPLE DUPLICATE: 168003

Parameter	Units	9227815001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.8	13.4	3	25	

SAMPLE DUPLICATE: 168004

Parameter	Units	9227815026 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.2	14.1	20	25	

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QUALITY CONTROL DATA

Project: Copes Vulcan Rec
Pace Project No.: 9227815

QC Batch: PMST/1924 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9227815011, 9227815012, 9227815013, 9227815014, 9227815015, 9227815016, 9227815027, 9227815028, 9227815029, 9227815030

SAMPLE DUPLICATE: 168005

Parameter	Units	9227712004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.1	17.0	.8	25	

SAMPLE DUPLICATE: 168006

Parameter	Units	9227815030 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.6	23.9	7	25	

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QUALITY CONTROL DATA

Project: Copes Vulcan Rec
Pace Project No.: 9227815

QC Batch: OEXT/4437 — Analysis Method: EPA 8082
QC Batch Method: EPA 3546 — Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9227815001

METHOD BLANK: 169042 — Matrix: Solid
Associated Lab Samples: 9227815001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	09/19/08 14:00	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	09/19/08 14:00	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	09/19/08 14:00	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	09/19/08 14:00	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	09/19/08 14:00	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	09/19/08 14:00	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	09/19/08 14:00	
Decachlorobiphenyl (S)	%	77	50-150	09/19/08 14:00	

LABORATORY CONTROL SAMPLE: 169043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	141	85	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	110	66	50-150	
Decachlorobiphenyl (S)	%			67	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 169044 169045

Parameter	Units	9227711012 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	223	223	201	199	90	89	50-150	.9	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	223	223	347	348	156	156	50-150	.2	30	1g
Decachlorobiphenyl (S)	%						70	68	50-150			

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QUALITY CONTROL DATA

Project: Copes Vulcan Rec
Pace Project No.: 9227815

QC Batch: OEXT/4454 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9227815002, 9227815003, 9227815004, 9227815005, 9227815006, 9227815007, 9227815008, 9227815009, 9227815010, 9227815011, 9227815012, 9227815013, 9227815014, 9227815015, 9227815016, 9227815027, 9227815028

METHOD BLANK: 170263 Matrix: Solid
Associated Lab Samples: 9227815002, 9227815003, 9227815004, 9227815005, 9227815006, 9227815007, 9227815008, 9227815009, 9227815010, 9227815011, 9227815012, 9227815013, 9227815014, 9227815015, 9227815016, 9227815027, 9227815028, 9227815029, 9227815030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	09/23/08 10:59	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	09/23/08 10:59	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	09/23/08 10:59	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	09/23/08 10:59	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	09/23/08 10:59	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	09/23/08 10:59	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	09/23/08 10:59	
Decachlorobiphenyl (S)	%	78	50-150	09/23/08 10:59	

LABORATORY CONTROL SAMPLE: 170264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	142	85	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	126	76	50-150	
Decachlorobiphenyl (S)	%			90	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 170265 170266

Parameter	Units	9227815015 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	189	189	96.1	105	51	56	50-150	9	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	189	189	112	118	59	63	50-150	5	30	
Decachlorobiphenyl (S)	%						85	97	50-150			

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QUALITY CONTROL DATA

Project: Copes Vulcan Rec
Pace Project No.: 9227815

QC Batch: MSV/4669 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 9227815001, 9227815002, 9227815004

METHOD BLANK: 170680 Matrix: Water
Associated Lab Samples: 9227815001, 9227815002, 9227815004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	09/20/08 14:06	
1,2-Dichloroethane	ug/L	ND	5.0	09/20/08 14:06	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/20/08 14:06	
2-Butanone (MEK)	ug/L	ND	10.0	09/20/08 14:06	
Benzene	ug/L	ND	5.0	09/20/08 14:06	
Carbon tetrachloride	ug/L	ND	5.0	09/20/08 14:06	
Chlorobenzene	ug/L	ND	5.0	09/20/08 14:06	
Chloroform	ug/L	ND	5.0	09/20/08 14:06	
Tetrachloroethene	ug/L	ND	5.0	09/20/08 14:06	
Trichloroethene	ug/L	ND	5.0	09/20/08 14:06	
Vinyl chloride	ug/L	ND	5.0	09/20/08 14:06	
1,2-Dichloroethane-d4 (S)	%	97	79-120	09/20/08 14:06	
4-Bromofluorobenzene (S)	%	101	87-109	09/20/08 14:06	
Dibromofluoromethane (S)	%	99	85-115	09/20/08 14:06	
Toluene-d8 (S)	%	98	70-120	09/20/08 14:06	

LABORATORY CONTROL SAMPLE: 170681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	57.8	116	78-146	
1,2-Dichloroethane	ug/L	50	58.6	117	72-126	
1,4-Dichlorobenzene	ug/L	50	52.2	104	79-125	
2-Butanone (MEK)	ug/L	100	125	125	50-134	
Benzene	ug/L	50	56.2	112	78-128	
Carbon tetrachloride	ug/L	50	54.2	108	81-137	
Chlorobenzene	ug/L	50	48.9	98	82-126	
Chloroform	ug/L	50	58.2	116	77-129	
Tetrachloroethene	ug/L	50	46.3	93	78-128	
Trichloroethene	ug/L	50	51.5	103	79-127	
Vinyl chloride	ug/L	50	68.8	138	67-143	
1,2-Dichloroethane-d4 (S)	%			111	79-120	
4-Bromofluorobenzene (S)	%			92	87-109	
Dibromofluoromethane (S)	%			103	85-115	
Toluene-d8 (S)	%			103	70-120	

MATRIX SPIKE SAMPLE: 170998

Parameter	Units	9227416011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	50	49.4	99	60-150	
Benzene	ug/L	ND	50	37.4	75	74-136	

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QUALITY CONTROL DATA

Project: Copes Vulcan Rec
Pace Project No.: 9227815

MATRIX SPIKE SAMPLE: 170998

Parameter	Units	9227416011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	ND	50	31.9	64	79-135	M0
Trichloroethene	ug/L	ND	50	38.3	77	73-131	
1,2-Dichloroethane-d4 (S)	%				98	79-120	H1
4-Bromofluorobenzene (S)	%				100	87-109	
Dibromofluoromethane (S)	%				104	85-115	
Toluene-d8 (S)	%				107	70-120	

SAMPLE DUPLICATE: 170682

Parameter	Units	9227416015 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	6.2J	7.8J		30	
Benzene	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	90	9		
4-Bromofluorobenzene (S)	%	106	105	.8		
Dibromofluoromethane (S)	%	93	94	2		
Toluene-d8 (S)	%	87	95	9		

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QUALITY CONTROL DATA

Project: Copes Vulcan Rec
Pace Project No.: 9227815

QC Batch: MSV/4675 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 9227815003, 9227815005, 9227815006

METHOD BLANK: 170885 Matrix: Water
Associated Lab Samples: 9227815003, 9227815005, 9227815006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	09/21/08 01:15	
1,2-Dichloroethane	ug/L	ND	5.0	09/21/08 01:15	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/21/08 01:15	
2-Butanone (MEK)	ug/L	ND	10.0	09/21/08 01:15	
Benzene	ug/L	ND	5.0	09/21/08 01:15	
Carbon tetrachloride	ug/L	ND	5.0	09/21/08 01:15	
Chlorobenzene	ug/L	ND	5.0	09/21/08 01:15	
Chloroform	ug/L	ND	5.0	09/21/08 01:15	
Tetrachloroethene	ug/L	ND	5.0	09/21/08 01:15	
Trichloroethene	ug/L	ND	5.0	09/21/08 01:15	
Vinyl chloride	ug/L	ND	5.0	09/21/08 01:15	
1,2-Dichloroethane-d4 (S)	%	111	79-120	09/21/08 01:15	
4-Bromofluorobenzene (S)	%	93	87-109	09/21/08 01:15	
Dibromofluoromethane (S)	%	102	85-115	09/21/08 01:15	
Toluene-d8 (S)	%	102	70-120	09/21/08 01:15	

LABORATORY CONTROL SAMPLE: 170886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	41.2	82	78-146	
1,2-Dichloroethane	ug/L	50	37.4	75	72-126	
1,4-Dichlorobenzene	ug/L	50	39.4	79	79-125	
2-Butanone (MEK)	ug/L	100	84.4	84	50-134	
Benzene	ug/L	50	48.2	96	78-128	
Carbon tetrachloride	ug/L	50	44.9	90	81-137	
Chlorobenzene	ug/L	50	43.8	88	82-126	
Chloroform	ug/L	50	44.1	88	77-129	
Tetrachloroethene	ug/L	50	44.1	88	78-128	
Trichloroethene	ug/L	50	42.9	86	79-127	
Vinyl chloride	ug/L	50	54.6	109	67-143	
1,2-Dichloroethane-d4 (S)	%			91	79-120	
4-Bromofluorobenzene (S)	%			107	87-109	
Dibromofluoromethane (S)	%			101	85-115	
Toluene-d8 (S)	%			97	70-120	

MATRIX SPIKE SAMPLE: 170888

Parameter	Units	9227815003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	50	38.2	76	60-150	
Benzene	ug/L	ND	50	38.0	76	74-136	

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QUALITY CONTROL DATA

Project: Copes Vulcan Rec
Pace Project No.: 9227815

MATRIX SPIKE SAMPLE: 170888

Parameter	Units	9227815003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	ND	50	32.7	65	79-135	M0
Trichloroethene	ug/L	1.8J	50	40.5	77	73-131	
1,2-Dichloroethane-d4 (S)	%				84	79-120	
4-Bromofluorobenzene (S)	%				92	87-109	
Dibromofluoromethane (S)	%				93	85-115	
Toluene-d8 (S)	%				98	70-120	

SAMPLE DUPLICATE: 170887

Parameter	Units	9226690003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	10.4	15.9	42	30	H3,R3
Benzene	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	53.0	46.0	14	30	
Trichloroethene	ug/L	3.3J	3.2J		30	
Vinyl chloride	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	112	10		
4-Bromofluorobenzene (S)	%	99	85	15		S2
Dibromofluoromethane (S)	%	105	103	2		
Toluene-d8 (S)	%	91	96	5		

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QUALITY CONTROL DATA

Project: Copes Vulcan Rec
Pace Project No.: 9227815

QC Batch: MSV/4695 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 9227815007, 9227815008, 9227815009, 9227815010, 9227815011, 9227815017, 9227815018, 9227815019, 9227815020, 9227815021, 9227815024

METHOD BLANK: 171412 Matrix: Water
Associated Lab Samples: 9227815007, 9227815008, 9227815009, 9227815010, 9227815011, 9227815017, 9227815018, 9227815019, 9227815020, 9227815021, 9227815024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	09/24/08 13:15	
1,2-Dichloroethane	ug/L	ND	5.0	09/24/08 13:15	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/24/08 13:15	
2-Butanone (MEK)	ug/L	ND	10.0	09/24/08 13:15	
Benzene	ug/L	ND	5.0	09/24/08 13:15	
Carbon tetrachloride	ug/L	ND	5.0	09/24/08 13:15	
Chlorobenzene	ug/L	ND	5.0	09/24/08 13:15	
Chloroform	ug/L	ND	5.0	09/24/08 13:15	
Tetrachloroethene	ug/L	ND	5.0	09/24/08 13:15	
Trichloroethene	ug/L	ND	5.0	09/24/08 13:15	
Vinyl chloride	ug/L	ND	5.0	09/24/08 13:15	
1,2-Dichloroethane-d4 (S)	%	104	79-120	09/24/08 13:15	
4-Bromofluorobenzene (S)	%	101	87-109	09/24/08 13:15	
Dibromofluoromethane (S)	%	107	85-115	09/24/08 13:15	
Toluene-d8 (S)	%	112	70-120	09/24/08 13:15	

LABORATORY CONTROL SAMPLE: 171413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	54.0	108	78-146	
1,2-Dichloroethane	ug/L	50	49.0	98	72-126	
1,4-Dichlorobenzene	ug/L	50	44.2	88	79-125	
2-Butanone (MEK)	ug/L	100	100	100	50-134	
Benzene	ug/L	50	46.2	92	78-128	
Carbon tetrachloride	ug/L	50	47.5	95	81-137	
Chlorobenzene	ug/L	50	45.6	91	82-126	
Chloroform	ug/L	50	49.3	99	77-129	
Tetrachloroethene	ug/L	50	44.2	88	78-128	
Trichloroethene	ug/L	50	46.8	94	79-127	
Vinyl chloride	ug/L	50	51.5	103	67-143	
1,2-Dichloroethane-d4 (S)	%			113	79-120	
4-Bromofluorobenzene (S)	%			103	87-109	
Dibromofluoromethane (S)	%			112	85-115	
Toluene-d8 (S)	%			102	70-120	

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QUALITY CONTROL DATA

Project: Copes Vulcan Rec
Pace Project No.: 9227815

MATRIX SPIKE SAMPLE: 171415

Parameter	Units	9227815010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	50	37.1	74	60-150	
Benzene	ug/L	ND	50	35.3	71	74-136	M0
Chlorobenzene	ug/L	ND	50	25.6	51	79-135	M0
Trichloroethene	ug/L	17.4	50	47.0	59	73-131	M0
1,2-Dichloroethane-d4 (S)	%				97	79-120	
4-Bromofluorobenzene (S)	%				84	87-109	S0
Dibromofluoromethane (S)	%				101	85-115	
Toluene-d8 (S)	%				96	70-120	

SAMPLE DUPLICATE: 171414

Parameter	Units	9227815009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	10.3	10.1	2	30	
Benzene	ug/L	2.0J	1.8J		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	2.0J	2.6J		30	
Trichloroethene	ug/L	4.9J	4.8J		30	
Vinyl chloride	ug/L	89.1	58.4	42	30	R1
1,2-Dichloroethane-d4 (S)	%	102	90	13		
4-Bromofluorobenzene (S)	%	89	87	1		
Dibromofluoromethane (S)	%	109	99	10		
Toluene-d8 (S)	%	109	102	6		

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QUALITY CONTROL DATA

Project: Copes Vulcan Rec
Pace Project No.: 9227815

QC Batch: MSV/4697 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 9227815022, 9227815025, 9227815026

METHOD BLANK: 171493 Matrix: Water
Associated Lab Samples: 9227815022, 9227815025, 9227815026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	09/25/08 12:48	
1,2-Dichloroethane	ug/L	ND	5.0	09/25/08 12:48	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/25/08 12:48	
2-Butanone (MEK)	ug/L	ND	10.0	09/25/08 12:48	
Benzene	ug/L	ND	5.0	09/25/08 12:48	
Carbon tetrachloride	ug/L	ND	5.0	09/25/08 12:48	
Chlorobenzene	ug/L	ND	5.0	09/25/08 12:48	
Chloroform	ug/L	ND	5.0	09/25/08 12:48	
Tetrachloroethene	ug/L	ND	5.0	09/25/08 12:48	
Trichloroethene	ug/L	ND	5.0	09/25/08 12:48	
Vinyl chloride	ug/L	ND	5.0	09/25/08 12:48	
1,2-Dichloroethane-d4 (S)	%	100	79-120	09/25/08 12:48	
4-Bromofluorobenzene (S)	%	95	87-109	09/25/08 12:48	
Dibromofluoromethane (S)	%	103	85-115	09/25/08 12:48	
Toluene-d8 (S)	%	99	70-120	09/25/08 12:48	

LABORATORY CONTROL SAMPLE: 171494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	52.6	105	78-146	
1,2-Dichloroethane	ug/L	50	50.4	101	72-126	
1,4-Dichlorobenzene	ug/L	50	53.3	107	79-125	
2-Butanone (MEK)	ug/L	100	116	116	50-134	
Benzene	ug/L	50	51.6	103	78-128	
Carbon tetrachloride	ug/L	50	51.7	103	81-137	
Chlorobenzene	ug/L	50	54.1	108	82-126	
Chloroform	ug/L	50	53.1	106	77-129	
Tetrachloroethene	ug/L	50	54.0	108	78-128	
Trichloroethene	ug/L	50	51.7	103	79-127	
Vinyl chloride	ug/L	50	53.4	107	67-143	
1,2-Dichloroethane-d4 (S)	%			100	79-120	
4-Bromofluorobenzene (S)	%			97	87-109	
Dibromofluoromethane (S)	%			100	85-115	
Toluene-d8 (S)	%			98	70-120	

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QUALITY CONTROL DATA

Project: Copes Vulcan Rec
Pace Project No.: 9227815

QC Batch: MSV/4755
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 9227815023

METHOD BLANK: 174414
Matrix: Water
Associated Lab Samples: 9227815023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	09/29/08 14:02	
1,2-Dichloroethane	ug/L	ND	5.0	09/29/08 14:02	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/29/08 14:02	
2-Butanone (MEK)	ug/L	ND	10.0	09/29/08 14:02	
Benzene	ug/L	ND	5.0	09/29/08 14:02	
Carbon tetrachloride	ug/L	ND	5.0	09/29/08 14:02	
Chlorobenzene	ug/L	ND	5.0	09/29/08 14:02	
Chloroform	ug/L	ND	5.0	09/29/08 14:02	
Tetrachloroethene	ug/L	ND	5.0	09/29/08 14:02	
Trichloroethene	ug/L	ND	5.0	09/29/08 14:02	
Vinyl chloride	ug/L	ND	5.0	09/29/08 14:02	
1,2-Dichloroethane-d4 (S)	%	101	79-120	09/29/08 14:02	
4-Bromofluorobenzene (S)	%	99	87-109	09/29/08 14:02	
Dibromofluoromethane (S)	%	100	85-115	09/29/08 14:02	
Toluene-d8 (S)	%	101	70-120	09/29/08 14:02	

LABORATORY CONTROL SAMPLE: 174415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	64.2	128	78-146	
1,2-Dichloroethane	ug/L	50	51.5	103	72-126	
1,4-Dichlorobenzene	ug/L	50	51.9	104	79-125	
2-Butanone (MEK)	ug/L	100	93.6	94	50-134	
Benzene	ug/L	50	54.4	109	78-128	
Carbon tetrachloride	ug/L	50	55.7	111	81-137	
Chlorobenzene	ug/L	50	53.1	106	82-126	
Chloroform	ug/L	50	50.7	101	77-129	
Tetrachloroethene	ug/L	50	53.6	107	78-128	
Trichloroethene	ug/L	50	54.7	109	79-127	
Vinyl chloride	ug/L	50	56.5	113	67-143	
1,2-Dichloroethane-d4 (S)	%			100	79-120	
4-Bromofluorobenzene (S)	%			104	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			101	70-120	

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Copes Vulcan Rec
Pace Project No.: 9227815

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

ANALYTE QUALIFIERS

1g	The PCB spike recovery was outside acceptance limits for the MS and/or MSD due to high Aroclor concentration. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received outside EPA method holding time.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
R3	RPD value was outside control limits due to uncertainty of values at or near the PRL.
S0	Surrogate recovery outside laboratory control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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ACCREDITED IN ACCORDANCE WITH nelac

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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 6

1162848

Section A Required Client Information:

Company: Kelly, Buck
Address: Cleveland, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan RBC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER RBC

Site Location STATE: NC

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): Y/N

Analysis Test: TCLP RCRA VOCs; Total PCBs

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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9227815
1	D-12 (1.0-2.0)	SL	G	9/12/08				1	2	X								X X		001
2	D-14 (1.0-2.0)																	X X		002
3	D-15 (1.0-2.0)																	X X		003
4	D-20 ~~(1.5-2.5)~~ (1.0-2.0)																	X X		004
5	~~D-20 (1.5-2.5)~~																	X X		—
6	~~E-10 (1.0-2.0)~~																	X X		—
7	E-11 (1.0-2.0)																	X X		005
8	E-12 (1.0-2.0)																	X X		006
9	E-13 (1.0-2.0)																	X X		007
10	E-14 (1.0-2.0)																	X X		008
11	E-15 (1.0-2.0)																	X X		009
12	E-20 (1.5-2.5)																	X X		010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Andrew Street / KB	9/13/08	9:35	Bonnie McKee Pace	9/13/08	9:35	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/12/08

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

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

1162854

Section A Required Client Information:

Company: Kelly Buck
Address: Cleveland, OH
Email To: mike.lyden@monksprings.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER REC

Site Location STATE: NC

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)	TCLP RCRA VOC's	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	21-5 (1.0-2.0)	SL	G	9/12/08				1	1	X								X			017
2	21-6 (1.0-2.0)																	X			018
3	21-7 (1.0-2.0)																	X			019
4	21-12 (1.0-2.0)																	X			020
5	21-13 (1.0-2.0)																	X			021
6	21-14 (1.0-2.0)																	X			022
7	21-6 (4.0-5.0)																	X			023
8	21-7 (4.0-5.0)																	X			024
9	21-13 (4.0-5.0)																	X			025
10	21-14 (4.0-5.0)																	X			026
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Andrew Street / KB	9/13/08	9:35	Bonnie McKee Pace	9/13/08	935

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: Andrew Street
DATE Signed (MM/DD/YY): 9/12/08

*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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1162850

Section A Required Client Information:
Company: Kelly Buck
Address: Cleveland, OH
Email To: mike.lydon@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: Copes - Vulcan REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC
Site Location STATE: NC

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): TCLP RCRA VOCs; Total PCBs; STARTS 1/2 from Each (TAP + FORM Composite) + Run PCBs; Keep 1/2 from each Tap + HOLD

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)	TCLP RCRA VOCs	Total PCBs	STARTS 1/2 from Each (TAP + FORM Composite) + Run PCBs	Keep 1/2 from each Tap + HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	E-20 (5.5-6.5)	SL	G	9/12/08					2	X									X	X				011
2	D-12 (3.0-4.0)								1	X												X	031	
3	~~Blank~~ E-12 (3.0-4.0)																				X	X	032	027
4	~~Blank~~ E-13 (3.0-4.0)																					X	033	
5	D-20 (3.0-4.0)																		X	No VOC				012
6	~~[illegible]~~																		X	No PCB				—
7	E-11 (3.0-4.0)																		X					013
8	~~Blank~~ D-14 (3.0-4.0)																					X	034	
9	~~Blank~~ D-15 (3.0-4.0)																		X			X	035	028
10	E-14 (3.0-4.0)																					X	036	
11	E-15 (3.0-4.0																					X	037	
12	~~Blank~~																							—

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Andrew Street / KB	9/13/08	9:35	Bonnie McKee Pace	9/13/08	9:35	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: Andrew Street
DATE Signed (MM/DD/YY): 9/12/08

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

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Page: 3 of 6

1162849

Section A Required Client Information:

Company: Kelly - Beck
Address: cleveland, OH
Email To: mike.lyden@minspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes - Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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: PCBs	TAKE 1 from each TAR Form Composite TRIP BLANK	Keep 1 in each TAR + HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9227815
1	D-12 (4.0-5.0)	SL	G	9/12/08					1	X										X	038	
2	E-12 (4.0-5.0)																		X	X	039	029
3	E-13 (4.0-5.0)																			X	040	
4	D-20 (4.0-5.0)																	X				014
5	E-11 (4.0-5.0)																	X				015
6	D-14 (4.0-5.0)																			X	041	
7	D-15 (4.0-5.0)																		X	X	042	030
8	E-14 (4.0-5.0)																			X	043	
9	E-15 (4.0-5.0)																			X	044	
10	E-20 (7.5-8.5)																	X				016
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Andrew Street / KB	9/13/08	9:35	Bonnie McKee Pace	9/13/08	9:35	

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 9/12/08

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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Page: 4 of 6

1162855

Section A Required Client Information:

Company: Kelly - Buck
Address: Cleveland, OH
Email To: mike.lyden@minspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Lopez-Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N: HOLD

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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-12 (5.0-6.0)	SL	G	9/12/08					1	X								X		045
2	E-12 (5.0-6.0)																	X		046
3	E-13 (5.0-6.0)																	X		047
4	D-20 (5.0-6.0)																	X		048
5	E-11 (5.0-6.0)																	X		049
6	D-14 (5.0-6.0)																	X		050
7	D-15 (5.0-6.0)																	X		051
8	E-14 (5.0-6.0)																	X		052
9	E-15 (5.0-6.0)																	X		053
10	E-20 (8.5-9.5)																	X		054
11																				—
12																				—

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Andrew Street / KB	9/13/08	9:35	Bonnie McKee Pace	9/13/08	9:35

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/12/08

ORIGINAL

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Page: 5 of 6

1162852

Section A Required Client Information:
Company: Kelly, Beck
Address: Cleveland, OH
Email To: mike.lyden@minerspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REE
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REE

Site Location STATE: NC

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): Y/N; Analysis Test: HOLD

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (HOLD)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-12 (6.0-7.0)	SL	G	9/12/08														X		055
2	E-12 (6.0-7.0)																	X		056
3	E-13 (6.0-7.0)																	X		057
4	D-20 (6.0-7.0)																	X		058
5	E-11 (6.0-7.0)																	X		059
6	D-14 (6.0-7.0)																	X		060
7	D-15 (6.0-7.0)																	X		061
8	E-14 (6.0-7.0)																	X		062
9	E-15 (6.0-7.0)																	X		063
10	E-20 (9.5-10.5)																	X		064
11																				—
12																				—

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Andrew Street / KB	9/13/08	9:35	Bonnie McKee Pace	9/13/08	935	

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 9/12/08

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 6 of 6

1162853

Section A Required Client Information:

Company: Kelly Buck
Address: Cleveland, OH
Email To: mike.lyden@minotspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): HCL

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)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-12 (7.0-8.0)	SL	G	9/12/08				1	1	X								X		065
2	E-12 (7.0-8.0)																	X		066
3	E-13 (7.0-8.0)																	X		067
4	D-20 (7.0-8.0)																	X		068
5	E-11 (7.0-8.0)																	X		069
6	D-14 (7.0-8.0)																	X		070
7	D-15 (7.0-8.0)																	X		071
8	E-14 (7.0-8.0)																	X		072
9	E-15 (7.0-8.0)																	X		073
10	E-20 (10.5-11.5)																	X		074
11	E-20 (11.5-12.5)																	X		075
12																				—

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Andrew Street / KB	9/13/08	9:35	Bonnie McKee Pace	9/13/08	935	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/12/08

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

ORIGINAL

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Sample Condition Upon Receipt

Pace Analytical

Client Name: Kelly Buck Project # 9227815

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date: N/A
Proj. Name: N/A

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used T060 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.5°C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: BKM 9/15/08

Temp should be above freezing to 6°C

		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 Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	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.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: SL		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
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)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): N/A		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: BKM Date: 9-15-08

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)

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October 14, 2008

Mr. Mike Lyden
Kelly Buck Company
2130 Superior Ave
Suite 3A
Cleveland, OH 44114

RE: Project: COPES - VULCAN REC
Pace Project No.: 9228561

Dear Mr. Lyden:
Enclosed are the analytical results for sample(s) received by the laboratory on September 24, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Bonnie McKee

Bonnie McKee

bonnie.mckee@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Charlotte Certification IDs

Connecticut Certification Number: PH-0104
Pennsylvania Certification Number: 68-00784
West Virginia Certification Number: 357
Virginia Certification Number: 00213
Tennessee Certification Number: 04010
South Carolina Drinking Water Cert. Number: 990060003
South Carolina Certification Number: 990060001
North Carolina Field Services Certification Number: 5342
North Carolina Wastewater Certification Number: 12
North Carolina Drinking Water Certification Number: 37706
Louisiana/LELAP Certification Number: 04034
Kentucky UST Certification Number: 84
New Jersey Certification Number: NC012
Florida/NELAP Certification Number: E87627

Asheville Certification IDs

Connecticut Certification Number: PH-0106
Massachusetts Certification Number: M-NC030
West Virginia Certification Number: 356
Virginia Certification Number: 00072
Tennessee Certification Number: 2980
South Carolina Bioassay Certification Number: 99030002
South Carolina Certification Number: 99030001
Pennsylvania Certification Number: 68-03578
North Carolina Bioassay Certification Number: 9
North Carolina Wastewater Certification Number: 40
North Carolina Drinking Water Certification Number: 37712
New Jersey Certification Number: NC011
Louisiana/LELAP Certification Number: 03095
Florida/NELAP Certification Number: E87648

Eden Certification IDs

Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633
North Carolina Drinking Water Certification Number: 37738

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SAMPLE SUMMARY

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9228561001	F-27 - F-30 (1.5-2.5)	Solid	09/23/08 00:00	09/24/08 14:38
9228561002	F-20 - F-23 (1-2)	Solid	09/23/08 00:00	09/24/08 14:38
9228561003	G-20-G-23 (1-2)	Solid	09/23/08 00:00	09/24/08 14:38
9228561004	F-27-F-30 (3.5-4.5)	Solid	09/23/08 00:00	09/24/08 14:38
9228561005	F-20-F-23 (3-4)	Solid	09/23/08 00:00	09/24/08 14:38
9228561006	G-20-G-23 (3-4)	Solid	09/23/08 00:00	09/24/08 14:38
9228561007	F-27-F-30 (4.5-5.5)	Solid	09/23/08 00:00	09/24/08 14:38
9228561008	F-20-F-23 (4-5)	Solid	09/23/08 00:00	09/24/08 14:38
9228561009	G-20-G-23 (4-5)	Solid	09/23/08 00:00	09/24/08 14:38
9228561010	F-27-F-30 (5.5-6.5)	Solid	09/23/08 00:00	09/24/08 14:38
9228561011	F-20-F-23 (5-6)	Solid	09/23/08 00:00	09/24/08 14:38
9228561012	G-20-G-23 (5-6)	Solid	09/23/08 00:00	09/24/08 14:38
9228561013	G-20,23M20,23 (0-0.5)	Solid	09/17/08 00:00	09/24/08 14:38
9228561014	F27-30 (0-0.5)	Solid	09/17/08 00:00	09/24/08 14:38
9228561015	H-20-H-23 (1-2)	Solid	09/23/08 00:00	09/24/08 14:38
9228561016	I-20-I-23 (1-2)	Solid	09/23/08 00:00	09/24/08 14:38
9228561017	J-20-J-23 (1-2)	Solid	09/24/08 00:00	09/24/08 14:38
9228561018	H-20-H23 (3-4)	Solid	09/23/08 00:00	09/24/08 14:38
9228561019	I-20-I-23 (3-4)	Solid	09/23/08 00:00	09/24/08 14:38
9228561020	J-20-J-23 (3-4)	Solid	09/24/08 00:00	09/24/08 14:38
9228561021	H-20-H-23 (4-5)	Solid	09/23/08 00:00	09/24/08 14:38
9228561022	I-20-I-23 (4-5)	Solid	09/23/08 00:00	09/24/08 14:38
9228561023	J-20-J-23 (4-5)	Solid	09/24/08 00:00	09/24/08 14:38
9228561024	H-20-H23 (5-6)	Solid	09/23/08 00:00	09/24/08 14:38
9228561025	I-20-I-23 (5-6)	Solid	09/23/08 00:00	09/24/08 14:38
9228561026	J-20-J-23 (5-6)	Solid	09/24/08 00:00	09/24/08 14:38

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SAMPLE ANALYTE COUNT

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9228561001	F-27 - F-30 (1.5-2.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561002	F-20 - F-23 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561003	G-20-G-23 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561004	F-27-F-30 (3.5-4.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561005	F-20-F-23 (3-4)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561006	G-20-G-23 (3-4)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561007	F-27-F-30 (4.5-5.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561008	F-20-F-23 (4-5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9228561009	G-20-G-23 (4-5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561010	F-27-F-30 (5.5-6.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561011	F-20-F-23 (5-6)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561012	G-20-G-23 (5-6)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561013	G-20,23M20,23 (0-0.5)	ASTM D2974-87	TNM	1
		EPA 6010	JMW	7
		EPA 7470	EWS	1
		EPA 8082	JEM	8
9228561014	F27-30 (0-0.5)	ASTM D2974-87	TNM	1
		EPA 6010	JMW	7
		EPA 7470	EWS	1
		EPA 8082	JEM	8
9228561015	H-20-H-23 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561016	I-20-I-23 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8

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SAMPLE ANALYTE COUNT

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9228561017	J-20-J-23 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561018	H-20-H23 (3-4)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561019	I-20-I-23 (3-4)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561020	J-20-J-23 (3-4)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561021	H-20-H-23 (4-5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561022	I-20-I-23 (4-5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561023	J-20-J-23 (4-5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561024	H-20-H23 (5-6)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561025	I-20-I-23 (5-6)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228561026	J-20-J-23 (5-6)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: F-27 - F-30 (1.5-2.5) **Lab ID: 9228561001** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	46.5	11.3	1	09/26/08 16:07	09/26/08 22:37	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	46.5	21.2	1	09/26/08 16:07	09/26/08 22:37	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	46.5	21.2	1	09/26/08 16:07	09/26/08 22:37	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	46.5	21.2	1	09/26/08 16:07	09/26/08 22:37	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	46.5	21.2	1	09/26/08 16:07	09/26/08 22:37	12672-29-6	
PCB-1254 (Aroclor 1254)	**5530**	ug/kg	931	423	20	09/26/08 16:07	09/29/08 16:30	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	46.5	7.1	1	09/26/08 16:07	09/26/08 22:37	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	09/26/08 16:07	09/26/08 22:37	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**29.1**	%	0.10	0.10	1		09/25/08 18:47		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: F-20 - F-23 (1-2) **Lab ID: 9228561002** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.5	10.1	1	09/26/08 16:07	09/26/08 23:18	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.5	18.9	1	09/26/08 16:07	09/26/08 23:18	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.5	18.9	1	09/26/08 16:07	09/26/08 23:18	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.5	18.9	1	09/26/08 16:07	09/26/08 23:18	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.5	18.9	1	09/26/08 16:07	09/26/08 23:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**9570**	ug/kg	2080	944	50	09/26/08 16:07	09/29/08 16:44	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.5	6.3	1	09/26/08 16:07	09/26/08 23:18	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	09/26/08 16:07	09/26/08 23:18	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.5**	%	0.10	0.10	1		09/25/08 18:47		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: G-20-G-23 (1-2) **Lab ID: 9228561003** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.3	10.0	1	09/26/08 16:07	09/26/08 23:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.3	18.8	1	09/26/08 16:07	09/26/08 23:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.3	18.8	1	09/26/08 16:07	09/26/08 23:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.3	18.8	1	09/26/08 16:07	09/26/08 23:31	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.3	18.8	1	09/26/08 16:07	09/26/08 23:31	12672-29-6	
PCB-1254 (Aroclor 1254)	**10600**	ug/kg	2060	938	50	09/26/08 16:07	09/29/08 16:58	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.3	6.3	1	09/26/08 16:07	09/26/08 23:31	11096-82-5	
Decachlorobiphenyl (S)	69	%	50-150		1	09/26/08 16:07	09/26/08 23:31	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.0**	%	0.10	0.10	1		09/25/08 18:48		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: F-27-F-30 (3.5-4.5) **Lab ID: 9228561004** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	45.1	10.9	1	09/26/08 16:07	09/26/08 23:45	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	45.1	20.5	1	09/26/08 16:07	09/26/08 23:45	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	45.1	20.5	1	09/26/08 16:07	09/26/08 23:45	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	45.1	20.5	1	09/26/08 16:07	09/26/08 23:45	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	45.1	20.5	1	09/26/08 16:07	09/26/08 23:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**4760**	ug/kg	901	410	20	09/26/08 16:07	09/29/08 17:11	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	45.1	6.8	1	09/26/08 16:07	09/26/08 23:45	11096-82-5	
Decachlorobiphenyl (S)	75	%	50-150		1	09/26/08 16:07	09/26/08 23:45	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**26.8**	%	0.10	0.10	1		09/25/08 18:48		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: F-20-F-23 (3-4) **Lab ID: 9228561005** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.9	10.2	1	09/26/08 16:07	09/26/08 23:58	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.9	19.1	1	09/26/08 16:07	09/26/08 23:58	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.9	19.1	1	09/26/08 16:07	09/26/08 23:58	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.9	19.1	1	09/26/08 16:07	09/26/08 23:58	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.9	19.1	1	09/26/08 16:07	09/26/08 23:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**27300**	ug/kg	2100	953	50	09/26/08 16:07	09/29/08 17:25	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.9	6.4	1	09/26/08 16:07	09/26/08 23:58	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	09/26/08 16:07	09/26/08 23:58	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.3**	%	0.10	0.10	1		09/25/08 18:48		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: G-20-G-23 (3-4) **Lab ID: 9228561006** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.5	9.6	1	09/26/08 16:07	09/27/08 00:12	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.5	17.9	1	09/26/08 16:07	09/27/08 00:12	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.5	17.9	1	09/26/08 16:07	09/27/08 00:12	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.5	17.9	1	09/26/08 16:07	09/27/08 00:12	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.5	17.9	1	09/26/08 16:07	09/27/08 00:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**4540**	ug/kg	987	449	25	09/26/08 16:07	09/29/08 17:39	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.5	6.0	1	09/26/08 16:07	09/27/08 00:12	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	09/26/08 16:07	09/27/08 00:12	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.4**	%	0.10	0.10	1		09/25/08 18:49		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: F-27-F-30 (4.5-5.5) **Lab ID: 9228561007** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	45.9	11.1	1	09/26/08 16:07	09/27/08 00:25	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	45.9	20.9	1	09/26/08 16:07	09/27/08 00:25	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	45.9	20.9	1	09/26/08 16:07	09/27/08 00:25	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	45.9	20.9	1	09/26/08 16:07	09/27/08 00:25	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	45.9	20.9	1	09/26/08 16:07	09/27/08 00:25	12672-29-6	
PCB-1254 (Aroclor 1254)	**501**	ug/kg	45.9	20.9	1	09/26/08 16:07	09/27/08 00:25	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	45.9	7.0	1	09/26/08 16:07	09/27/08 00:25	11096-82-5	
Decachlorobiphenyl (S)	52	%	50-150		1	09/26/08 16:07	09/27/08 00:25	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**28.1**	%	0.10	0.10	1		09/25/08 18:49		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: F-20-F-23 (4-5) **Lab ID: 9228561008** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.7	10.4	1	09/26/08 16:07	09/27/08 00:39	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.7	19.4	1	09/26/08 16:07	09/27/08 00:39	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.7	19.4	1	09/26/08 16:07	09/27/08 00:39	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.7	19.4	1	09/26/08 16:07	09/27/08 00:39	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.7	19.4	1	09/26/08 16:07	09/27/08 00:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**9510**	ug/kg	2140	971	50	09/26/08 16:07	09/29/08 17:52	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.7	6.5	1	09/26/08 16:07	09/27/08 00:39	11096-82-5	
Decachlorobiphenyl (S)	61	%	50-150		1	09/26/08 16:07	09/27/08 00:39	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		09/30/08 23:55	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	2.8	1		09/30/08 23:55	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	2.7	1		09/30/08 23:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	1		09/30/08 23:55	108-90-7	
Chloroform	ND	ug/L	5.0	2.0	1		09/30/08 23:55	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.2	1		09/30/08 23:55	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		09/30/08 23:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	3.4	1		09/30/08 23:55	75-35-4	
Tetrachloroethene	**13.8**	ug/L	5.0	1.9	1		09/30/08 23:55	127-18-4	
Trichloroethene	**1.4J**	ug/L	5.0	1.0	1		09/30/08 23:55	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.9	1		09/30/08 23:55	75-01-4	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		09/30/08 23:55	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		09/30/08 23:55	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-109		1		09/30/08 23:55	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		09/30/08 23:55	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.8**	%	0.10	0.10	1		09/25/08 18:50		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: G-20-G-23 (4-5) **Lab ID: 9228561009** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.3	10.5	1	09/26/08 16:07	09/27/08 00:53	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.3	19.7	1	09/26/08 16:07	09/27/08 00:53	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.3	19.7	1	09/26/08 16:07	09/27/08 00:53	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.3	19.7	1	09/26/08 16:07	09/27/08 00:53	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.3	19.7	1	09/26/08 16:07	09/27/08 00:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**268**	ug/kg	43.3	19.7	1	09/26/08 16:07	09/27/08 00:53	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.3	6.6	1	09/26/08 16:07	09/27/08 00:53	11096-82-5	
Decachlorobiphenyl (S)	76	%	50-150		1	09/26/08 16:07	09/27/08 00:53	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.7**	%	0.10	0.10	1		09/25/08 18:50		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: F-27-F-30 (5.5-6.5) **Lab ID: 9228561010** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.5	10.5	1	09/26/08 16:07	09/27/08 01:06	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.5	19.8	1	09/26/08 16:07	09/27/08 01:06	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.5	19.8	1	09/26/08 16:07	09/27/08 01:06	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.5	19.8	1	09/26/08 16:07	09/27/08 01:06	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.5	19.8	1	09/26/08 16:07	09/27/08 01:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**3500**	ug/kg	435	198	10	09/26/08 16:07	09/29/08 18:06	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.5	6.6	1	09/26/08 16:07	09/27/08 01:06	11096-82-5	
Decachlorobiphenyl (S)	76	%	50-150		1	09/26/08 16:07	09/27/08 01:06	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**24.1**	%	0.10	0.10	1		09/25/08 18:50		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: F-20-F-23 (5-6) **Lab ID: 9228561011** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.1	10.2	1	09/26/08 16:07	09/27/08 01:20	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.1	19.1	1	09/26/08 16:07	09/27/08 01:20	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.1	19.1	1	09/26/08 16:07	09/27/08 01:20	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.1	19.1	1	09/26/08 16:07	09/27/08 01:20	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.1	19.1	1	09/26/08 16:07	09/27/08 01:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**572**	ug/kg	42.1	19.1	1	09/26/08 16:07	09/27/08 01:20	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.1	6.4	1	09/26/08 16:07	09/27/08 01:20	11096-82-5	
Decachlorobiphenyl (S)	63	%	50-150		1	09/26/08 16:07	09/27/08 01:20	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.6**	%	0.10	0.10	1		09/25/08 18:51		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: G-20-G-23 (5-6) **Lab ID: 9228561012** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.1	10	1	09/26/08 16:07	09/27/08 01:33	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.1	18.7	1	09/26/08 16:07	09/27/08 01:33	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.1	18.7	1	09/26/08 16:07	09/27/08 01:33	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.1	18.7	1	09/26/08 16:07	09/27/08 01:33	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.1	18.7	1	09/26/08 16:07	09/27/08 01:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**106**	ug/kg	41.1	18.7	1	09/26/08 16:07	09/27/08 01:33	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.1	6.2	1	09/26/08 16:07	09/27/08 01:33	11096-82-5	
Decachlorobiphenyl (S)	68	%	50-150		1	09/26/08 16:07	09/27/08 01:33	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.7**	%	0.10	0.10	1		09/25/08 18:51		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: G-20,23M20,23 (0-0.5) **Lab ID: 9228561013** Collected: 09/17/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	33.6	8.1	1	09/26/08 16:07	09/27/08 01:47	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.6	15.3	1	09/26/08 16:07	09/27/08 01:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.6	15.3	1	09/26/08 16:07	09/27/08 01:47	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.6	15.3	1	09/26/08 16:07	09/27/08 01:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.6	15.3	1	09/26/08 16:07	09/27/08 01:47	12672-29-6	
PCB-1254 (Aroclor 1254)	**29.0J**	ug/kg	33.6	15.3	1	09/26/08 16:07	09/27/08 01:47	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	33.6	5.1	1	09/26/08 16:07	09/27/08 01:47	11096-82-5	
Decachlorobiphenyl (S)	82	%	50-150		1	09/26/08 16:07	09/27/08 01:47	2051-24-3	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	mg/L	0.025	0.014	1	10/02/08 12:40	10/02/08 16:08	7440-38-2	
Barium	**0.52**	mg/L	0.025	0.0010	1	10/02/08 12:40	10/02/08 16:08	7440-39-3	Z2
Cadmium	ND	mg/L	0.0050	0.0025	1	10/02/08 12:40	10/02/08 16:08	7440-43-9	
Chromium	ND	mg/L	0.025	0.0020	1	10/02/08 12:40	10/02/08 16:08	7440-47-3	
Lead	ND	mg/L	0.025	0.020	1	10/02/08 12:40	10/02/08 16:08	7439-92-1	
Selenium	ND	mg/L	0.050	0.019	1	10/02/08 12:40	10/02/08 16:08	7782-49-2	
Silver	**0.0036J**	mg/L	0.025	0.00050	1	10/02/08 12:40	10/02/08 16:08	7440-22-4	Z2
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/02/08 14:50	10/03/08 15:20	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**1.8**	%	0.10	0.10	1		09/25/08 18:52		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: F27-30 (0-0.5) **Lab ID: 9228561014** Collected: 09/17/08 00:00 · Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.2	8.3	1	09/26/08 16:07	09/27/08 02:00	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.2	15.5	1	09/26/08 16:07	09/27/08 02:00	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.2	15.5	1	09/26/08 16:07	09/27/08 02:00	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.2	15.5	1	09/26/08 16:07	09/27/08 02:00	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.2	15.5	1	09/26/08 16:07	09/27/08 02:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**2880**	ug/kg	342	155	10	09/26/08 16:07	09/29/08 18:19	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	34.2	5.2	1	09/26/08 16:07	09/27/08 02:00	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	09/26/08 16:07	09/27/08 02:00	2051-24-3	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	mg/L	0.025	0.014	1	10/02/08 12:40	10/02/08 16:12	7440-38-2	
Barium	**0.36**	mg/L	0.025	0.0010	1	10/02/08 12:40	10/02/08 16:12	7440-39-3	Z2
Cadmium	ND	mg/L	0.0050	0.0025	1	10/02/08 12:40	10/02/08 16:12	7440-43-9	
Chromium	ND	mg/L	0.025	0.0020	1	10/02/08 12:40	10/02/08 16:12	7440-47-3	
Lead	ND	mg/L	0.025	0.020	1	10/02/08 12:40	10/02/08 16:12	7439-92-1	
Selenium	ND	mg/L	0.050	0.019	1	10/02/08 12:40	10/02/08 16:12	7782-49-2	
Silver	**0.0039J**	mg/L	0.025	0.00050	1	10/02/08 12:40	10/02/08 16:12	7440-22-4	Z2
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/02/08 14:50	10/03/08 15:23	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.4**	%	0.10	0.10	1		09/25/08 18:52		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: H-20-H-23 (1-2) **Lab ID: 9228561015** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.7	10.1	1	09/26/08 16:07	09/27/08 02:14	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.7	18.9	1	09/26/08 16:07	09/27/08 02:14	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.7	18.9	1	09/26/08 16:07	09/27/08 02:14	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.7	18.9	1	09/26/08 16:07	09/27/08 02:14	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.7	18.9	1	09/26/08 16:07	09/27/08 02:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**48600**	ug/kg	4170	1890	100	09/26/08 16:07	09/29/08 18:33	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.7	6.3	1	09/26/08 16:07	09/27/08 02:14	11096-82-5	
Decachlorobiphenyl (S)	52	%	50-150		1	09/26/08 16:07	09/27/08 02:14	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.8**	%	0.10	0.10	1		09/25/08 18:52		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: I-20-I-23 (1-2) **Lab ID: 9228561016** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.5	10.1	1	09/26/08 16:07	09/27/08 02:27	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.5	18.9	1	09/26/08 16:07	09/27/08 02:27	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.5	18.9	1	09/26/08 16:07	09/27/08 02:27	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.5	18.9	1	09/26/08 16:07	09/27/08 02:27	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.5	18.9	1	09/26/08 16:07	09/27/08 02:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**14400**	ug/kg	2080	944	50	09/26/08 16:07	09/29/08 18:47	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.5	6.3	1	09/26/08 16:07	09/27/08 02:27	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	09/26/08 16:07	09/27/08 02:27	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.5**	%	0.10	0.10	1		09/25/08 18:36		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: J-20-J-23 (1-2) **Lab ID: 9228561017** Collected: 09/24/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.4	10.3	1	09/26/08 16:07	09/27/08 02:41	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.4	19.3	1	09/26/08 16:07	09/27/08 02:41	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.4	19.3	1	09/26/08 16:07	09/27/08 02:41	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.4	19.3	1	09/26/08 16:07	09/27/08 02:41	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.4	19.3	1	09/26/08 16:07	09/27/08 02:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**2680**	ug/kg	848	386	20	09/26/08 16:07	09/29/08 19:00	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.4	6.4	1	09/26/08 16:07	09/27/08 02:41	11096-82-5	
Decachlorobiphenyl (S)	68	%	50-150		1	09/26/08 16:07	09/27/08 02:41	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.2**	%	0.10	0.10	1		09/25/08 18:37		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: H-20-H23 (3-4) **Lab ID: 9228561018** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.5	9.3	1	09/26/08 16:07	09/27/08 02:55	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.5	17.5	1	09/26/08 16:07	09/27/08 02:55	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.5	17.5	1	09/26/08 16:07	09/27/08 02:55	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.5	17.5	1	09/26/08 16:07	09/27/08 02:55	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.5	17.5	1	09/26/08 16:07	09/27/08 02:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**12800**	ug/kg	1920	874	50	09/26/08 16:07	09/29/08 19:14	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.5	5.8	1	09/26/08 16:07	09/27/08 02:55	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	09/26/08 16:07	09/27/08 02:55	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.2**	%	0.10	0.10	1		09/25/08 18:38		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: I-20-I-23 (3-4) **Lab ID: 9228561019** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.3	9.5	1	09/26/08 16:07	09/27/08 03:08	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.3	17.9	1	09/26/08 16:07	09/27/08 03:08	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.3	17.9	1	09/26/08 16:07	09/27/08 03:08	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.3	17.9	1	09/26/08 16:07	09/27/08 03:08	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.3	17.9	1	09/26/08 16:07	09/27/08 03:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**198**	ug/kg	39.3	17.9	1	09/26/08 16:07	09/27/08 03:08	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.3	6.0	1	09/26/08 16:07	09/27/08 03:08	11096-82-5	
Decachlorobiphenyl (S)	71	%	50-150		1	09/26/08 16:07	09/27/08 03:08	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.0**	%	0.10	0.10	1		09/25/08 18:38		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: J-20-J-23 (3-4) **Lab ID: 9228561020** Collected: 09/24/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.8	9.9	1	09/26/08 16:07	09/27/08 03:22	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.8	18.6	1	09/26/08 16:07	09/27/08 03:22	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.8	18.6	1	09/26/08 16:07	09/27/08 03:22	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.8	18.6	1	09/26/08 16:07	09/27/08 03:22	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.8	18.6	1	09/26/08 16:07	09/27/08 03:22	12672-29-6	
PCB-1254 (Aroclor 1254)	**418**	ug/kg	40.8	18.6	1	09/26/08 16:07	09/27/08 03:22	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.8	6.2	1	09/26/08 16:07	09/27/08 03:22	11096-82-5	
Decachlorobiphenyl (S)	79	%	50-150		1	09/26/08 16:07	09/27/08 03:22	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.2**	%	0.10	0.10	1		09/25/08 18:39		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: H-20-H-23 (4-5) **Lab ID: 9228561021** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.7	9.9	1	09/26/08 15:09	09/30/08 10:32	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.7	18.5	1	09/26/08 15:09	09/30/08 10:32	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.7	18.5	1	09/26/08 15:09	09/30/08 10:32	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.7	18.5	1	09/26/08 15:09	09/30/08 10:32	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.7	18.5	1	09/26/08 15:09	09/30/08 10:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**1590**	ug/kg	407	185	10	09/26/08 15:09	10/01/08 10:33	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.7	6.2	1	09/26/08 15:09	09/30/08 10:32	11096-82-5	
Decachlorobiphenyl (S)	50	%	50-150		1	09/26/08 15:09	09/30/08 10:32	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.0**	%	0.10	0.10	1		09/25/08 18:39		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: I-20-I-23 (4-5) **Lab ID: 9228561022** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.0	10.2	1	09/26/08 15:09	09/30/08 10:46	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.0	19.1	1	09/26/08 15:09	09/30/08 10:46	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.0	19.1	1	09/26/08 15:09	09/30/08 10:46	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.0	19.1	1	09/26/08 15:09	09/30/08 10:46	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.0	19.1	1	09/26/08 15:09	09/30/08 10:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**92.7**	ug/kg	42.0	19.1	1	09/26/08 15:09	09/30/08 10:46	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.0	6.4	1	09/26/08 15:09	09/30/08 10:46	11096-82-5	
Decachlorobiphenyl (S)	64	%	50-150		1	09/26/08 15:09	09/30/08 10:46	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.5**	%	0.10	0.10	1		09/25/08 18:39		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: J-20-J-23 (4-5) **Lab ID: 9228561023** Collected: 09/24/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.7	9.9	1	09/26/08 15:09	09/30/08 11:27	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.7	18.5	1	09/26/08 15:09	09/30/08 11:27	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.7	18.5	1	09/26/08 15:09	09/30/08 11:27	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.7	18.5	1	09/26/08 15:09	09/30/08 11:27	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.7	18.5	1	09/26/08 15:09	09/30/08 11:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**28.0J**	ug/kg	40.7	18.5	1	09/26/08 15:09	09/30/08 11:27	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.7	6.2	1	09/26/08 15:09	09/30/08 11:27	11096-82-5	
Decachlorobiphenyl (S)	61	%	50-150		1	09/26/08 15:09	09/30/08 11:27	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.9**	%	0.10	0.10	1		09/25/08 18:40		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: H-20-H23 (5-6) **Lab ID: 9228561024** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.6	9.8	1	09/26/08 15:09	09/30/08 11:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.6	18.5	1	09/26/08 15:09	09/30/08 11:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.6	18.5	1	09/26/08 15:09	09/30/08 11:40	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.6	18.5	1	09/26/08 15:09	09/30/08 11:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.6	18.5	1	09/26/08 15:09	09/30/08 11:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**1550**	ug/kg	406	185	10	09/26/08 15:09	10/01/08 10:46	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.6	6.2	1	09/26/08 15:09	09/30/08 11:40	11096-82-5	
Decachlorobiphenyl (S)	84	%	50-150		1	09/26/08 15:09	09/30/08 11:40	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.8**	%	0.10	0.10	1		09/25/08 18:40		

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(704)875-9092

ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: I-20-I-23 (5-6) **Lab ID: 9228561025** Collected: 09/23/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.6	10.3	1	09/26/08 15:09	09/30/08 11:54	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.6	19.4	1	09/26/08 15:09	09/30/08 11:54	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.6	19.4	1	09/26/08 15:09	09/30/08 11:54	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.6	19.4	1	09/26/08 15:09	09/30/08 11:54	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.6	19.4	1	09/26/08 15:09	09/30/08 11:54	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	42.6	19.4	1	09/26/08 15:09	09/30/08 11:54	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.6	6.5	1	09/26/08 15:09	09/30/08 11:54	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	09/26/08 15:09	09/30/08 11:54	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.6**	%	0.10	0.10	1		09/25/08 18:41		

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ANALYTICAL RESULTS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

Sample: J-20-J-23 (5-6) **Lab ID: 9228561026** Collected: 09/24/08 00:00 Received: 09/24/08 14:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.4	10.3	1	09/26/08 15:09	09/30/08 12:08	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.4	19.3	1	09/26/08 15:09	09/30/08 12:08	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.4	19.3	1	09/26/08 15:09	09/30/08 12:08	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.4	19.3	1	09/26/08 15:09	09/30/08 12:08	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.4	19.3	1	09/26/08 15:09	09/30/08 12:08	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	42.4	19.3	1	09/26/08 15:09	09/30/08 12:08	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.4	6.4	1	09/26/08 15:09	09/30/08 12:08	11096-82-5	
Decachlorobiphenyl (S)	56	%	50-150		1	09/26/08 15:09	09/30/08 12:08	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.2**	%	0.10	0.10	1		09/25/08 18:41		

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QUALITY CONTROL DATA

Project: COPES - VULCAN REC
Pace Project No.: 9228561

QC Batch: PMST/1946 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228561001, 9228561002, 9228561003, 9228561004, 9228561005, 9228561006, 9228561007, 9228561008, 9228561009, 9228561010, 9228561011, 9228561012, 9228561013, 9228561014, 9228561015

SAMPLE DUPLICATE: 172664

Parameter	Units	9228561001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	29.1	25.5	13	25	

SAMPLE DUPLICATE: 172665

Parameter	Units	9228561015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.8	21.5	3	25	

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QUALITY CONTROL DATA

Project: COPES - VULCAN REC
Pace Project No.: 9228561

QC Batch: PMST/1947 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228561016, 9228561017, 9228561018, 9228561019, 9228561020, 9228561021, 9228561022, 9228561023, 9228561024, 9228561025, 9228561026

SAMPLE DUPLICATE: 172666

Parameter	Units	9228561016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.5	17.0	19	25	

SAMPLE DUPLICATE: 172667

Parameter	Units	9228561026 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.2	24.7	11	25	

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QUALITY CONTROL DATA

Project: COPES - VULCAN REC
Pace Project No.: 9228561

QC Batch: OEXT/4513 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9228561001, 9228561002, 9228561003, 9228561004, 9228561005, 9228561006, 9228561007, 9228561008, 9228561009, 9228561010, 9228561011, 9228561012, 9228561013, 9228561014, 9228561015

METHOD BLANK: 173183 Matrix: Solid
Associated Lab Samples: 9228561001, 9228561002, 9228561003, 9228561004, 9228561005, 9228561006, 9228561007, 9228561008, 9228561009, 9228561010, 9228561011, 9228561012, 9228561013, 9228561014, 9228561015, 9228561016, 9228561017, 9228561018, 9228561019, 9228561020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	09/26/08 22:10	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	09/26/08 22:10	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	09/26/08 22:10	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	09/26/08 22:10	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	09/26/08 22:10	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	09/26/08 22:10	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	09/26/08 22:10	
Decachlorobiphenyl (S)	%	64	50-150	09/26/08 22:10	

LABORATORY CONTROL SAMPLE: 173184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	143	86	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	108	65	50-150	
Decachlorobiphenyl (S)	%			73	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 173185 173186

Parameter	Units	9228561001 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	235	235	240	239	102	102	50-150	.5	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	235	235	1710	1950	728	830	50-150	13	30	1g
Decachlorobiphenyl (S)	%						59	100	50-150			

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QUALITY CONTROL DATA

Project: COPES - VULCAN REC
Pace Project No.: 9228561

QC Batch: OEXT/4521 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9228561021, 9228561022, 9228561023, 9228561024, 9228561025, 9228561026

METHOD BLANK: 173784 Matrix: Solid
Associated Lab Samples: 9228561021, 9228561022, 9228561023, 9228561024, 9228561025, 9228561026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	09/30/08 10:05	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	09/30/08 10:05	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	09/30/08 10:05	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	09/30/08 10:05	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	09/30/08 10:05	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	09/30/08 10:05	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	09/30/08 10:05	
Decachlorobiphenyl (S)	%	73	50-150	09/30/08 10:05	

LABORATORY CONTROL SAMPLE: 173785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	117	70	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	105	63	50-150	
Decachlorobiphenyl (S)	%			69	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 173786 173787

Parameter	Units	9228561022 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	213	213	118	117	56	55	50-150	.9	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	213	213	107	107	50	51	50-150	.1	30	
Decachlorobiphenyl (S)	%						85	86	50-150			

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QUALITY CONTROL DATA

Project: COPES - VULCAN REC
Pace Project No.: 9228561

QC Batch: MSV/4780
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 9228561008

METHOD BLANK: 175393
Matrix: Water
Associated Lab Samples: 9228561008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	09/30/08 14:27	
1,2-Dichloroethane	ug/L	ND	5.0	09/30/08 14:27	
1,4-Dichlorobenzene	ug/L	1.5J	5.0	09/30/08 14:27	
2-Butanone (MEK)	ug/L	ND	10.0	09/30/08 14:27	
Benzene	ug/L	ND	5.0	09/30/08 14:27	
Carbon tetrachloride	ug/L	ND	5.0	09/30/08 14:27	
Chlorobenzene	ug/L	ND	5.0	09/30/08 14:27	
Chloroform	ug/L	ND	5.0	09/30/08 14:27	
Tetrachloroethene	ug/L	ND	5.0	09/30/08 14:27	
Trichloroethene	ug/L	ND	5.0	09/30/08 14:27	
Vinyl chloride	ug/L	ND	5.0	09/30/08 14:27	
1,2-Dichloroethane-d4 (S)	%	103	79-120	09/30/08 14:27	
4-Bromofluorobenzene (S)	%	100	87-109	09/30/08 14:27	
Dibromofluoromethane (S)	%	106	85-115	09/30/08 14:27	
Toluene-d8 (S)	%	107	70-120	09/30/08 14:27	

LABORATORY CONTROL SAMPLE: 175394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	62.2	124	78-146	
1,2-Dichloroethane	ug/L	50	53.5	107	72-126	
1,4-Dichlorobenzene	ug/L	50	51.0	102	79-125	
2-Butanone (MEK)	ug/L	100	112	112	50-134	
Benzene	ug/L	50	55.6	111	78-128	
Carbon tetrachloride	ug/L	50	56.3	113	81-137	
Chlorobenzene	ug/L	50	53.1	106	82-126	
Chloroform	ug/L	50	56.0	112	77-129	
Tetrachloroethene	ug/L	50	53.0	106	78-128	
Trichloroethene	ug/L	50	55.4	111	79-127	
Vinyl chloride	ug/L	50	66.2	132	67-143	
1,2-Dichloroethane-d4 (S)	%			105	79-120	
4-Bromofluorobenzene (S)	%			105	87-109	
Dibromofluoromethane (S)	%			106	85-115	
Toluene-d8 (S)	%			99	70-120	

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QUALITY CONTROL DATA

Project: COPES - VULCAN REC
Pace Project No.: 9228561

QC Batch: MPRP/3105 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET TCLP
Associated Lab Samples: 9228561013, 9228561014

METHOD BLANK: 176811 | Matrix: Water
Associated Lab Samples: 9228561013, 9228561014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	10/02/08 14:47	
Barium	mg/L	0.019J	0.025	10/02/08 14:47	
Cadmium	mg/L	ND	0.0050	10/02/08 14:47	
Chromium	mg/L	0.0030J	0.025	10/02/08 14:47	
Lead	mg/L	ND	0.025	10/02/08 14:47	
Selenium	mg/L	ND	0.050	10/02/08 14:47	
Silver	mg/L	0.0015J	0.025	10/02/08 14:47	

LABORATORY CONTROL SAMPLE: 176812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	2.5	2.6	104	80-120	
Barium	mg/L	2.5	2.1	84	80-120	
Cadmium	mg/L	2.5	2.2	89	80-120	
Chromium	mg/L	2.5	2.3	91	80-120	
Lead	mg/L	2.5	2.2	88	80-120	
Selenium	mg/L	2.5	2.6	104	80-120	
Silver	mg/L	1.2	1.2	96	80-120	

MATRIX SPIKE SAMPLE: 176813

Parameter	Units	9226997001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	ND	2.5	2.6	104	75-125	
Barium	mg/L	0.56	2.5	2.6	81	75-125	
Cadmium	mg/L	0.047	2.5	2.2	88	75-125	
Chromium	mg/L	ND	2.5	2.2	88	75-125	
Lead	mg/L	4.8	2.5	6.8	79	75-125	
Selenium	mg/L	0.069	2.5	2.6	103	75-125	
Silver	mg/L	ND	1.2	1.2	95	75-125	

SAMPLE DUPLICATE: 176814

Parameter	Units	9228210001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Barium	mg/L	ND	0.019J		20	
Cadmium	mg/L	ND	ND		20	
Chromium	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: COPES - VULCAN REC
Pace Project No.: 9228561

SAMPLE DUPLICATE: 176814

Parameter	Units	9228210001 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	mg/L	ND	ND		20	
Silver	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: COPES - VULCAN REC
Pace Project No.: 9228561

QC Batch: MERP/1732 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 9228561013, 9228561014

METHOD BLANK: 176874 | Matrix: Water
Associated Lab Samples: 9228561013, 9228561014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/03/08 15:08	

LABORATORY CONTROL SAMPLE: 176875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	87	80-120	

MATRIX SPIKE SAMPLE: 176876

Parameter	Units	9228210001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.1	83	75-125	

SAMPLE DUPLICATE: 176877

Parameter	Units	9228240001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		20	

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QUALIFIERS

Project: COPES - VULCAN REC
Pace Project No.: 9228561

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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ANALYTE QUALIFIERS

1g	The PCB spike recovery was outside acceptance limits for the MS and/or MSD due to high Aroclor concentration. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
Z2	Analyte present in the associated method blank above the detection limit.

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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 11

1162846

Section A Required Client Information:
Company: Kelly Beck
Address: Cleveland, OH
Email To: mike.lyden@windspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N — TAKE PA form only; GRAB, Form Composite + Run PCB's; Sleep to in archive; GRAB + HOLD

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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	F-27 (3.5-4.5)	X	G	9/23/08				1	1	X										9225361 39
2	F-28 (3.5-4.5)																	☒		40
3	F-29 (3.5-4.5)																			41
4	F-30 (3.5-4.5)																			42
5	F-20 (3-4) *																			43
6	F-21 (3-4) *																	☒		44
7	F-22 (3-4) *																			45
8	F-23 (3-4) *																			46
9	G-20 (3-4)																			47
10	G-21 (3-4)																	☒		48
11	G-22 (3-4)																			49
12	G-23 (3-4)																			50

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
*returned to client.	Andrew Street / KB	9/24/08	13:25	[signature] Pace	9-24-08	13:25
	[signature]	9-24-08	14:35	[signature]	9/24	1438
	Bonnie McKee Pace	10/10/08	10:55	[signature]	10/10/08	10:55

SAMPLE CONDITIONS: Temp in °C 4.0; Received on Ice (Y/N) Y; Custody Sealed Cooler (Y/N) N; Samples Intact (Y/N) Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 9/23/08

ORIGINAL

*Impor[illegible]e: 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 [illegible]oices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 3 of 11

1162845

Section A Required Client Information:
Company: Kelly-Buck
Address: Cleveland, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: Capes-Vulcan REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #:

REGULATORY AGENCY: NPDES, GROUND WATER, DRINKING WATER, UST, RCRA, OTHER REC
Site Location STATE: NC

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

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: TAKE Portion from Each JAR Form Composite + Run PCBs	TAKE Portion from Each Jar Form Composite + Run VOCs TCLP RCRA	Keep Portion in each original JAR + HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	F-27 (4.5-5.5)	SL	G	9/23/08				1	1													92285261
2	F-28 (4.5-5.5)																	X	007			51
3	F-29 (4.5-5.5)																					52
4	F-30 (4.5-5.5)																					53
5	F-20 (4-5)																					54
6	F-21 (4-5)																	X	008			55
7	F-22 (4-5)																					56
8	F-23 (4-5)																					57
9	G-20 (4-5)																					58
10	G-21 (4-5)																	X	009			59
11	G-22 (4-5)																					60
12	G-23 (4-5)																					61
																						62

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Form Comp + Run TCLP RCRA	Andrew Street / KB	9/24/08	13:25	Pace	9/24/08	13:25				
VOCs F-20-23 (4-5)		9/24/08	14:38		9/24	1438	4.0	4	N	4

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: Andrew Street
DATE Signed (MM/DD/YY): 9/23/08

*Impor[illegible]: 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 a[illegible]ices not paid within 30 days.

F-ALL-Q-020rev.07, 15-[illegible].007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 of 11

1162844

Section A Required Client Information:

Company: Kelly-Beck
Address: Cleveland, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Capes Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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

Requested Analysis Filtered (Y/N): Y/N; Analysis Test: TAKE 1 from each (form composite + RUN PCBS); Keep 1 in origin (TAR + Hold)

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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	F-27 (5.5-6.5)	SL	G	9/23/08					1	X								X		63
2	F-28 (5.5-6.5)																	X	10	64
3	F-29 (5.5-6.5)																	X		65
4	F-30 (5.5-6.5)																	X		66
5	F-20 (5-6)																	X		67
6	F-21 (5-6)																	X	11	68
7	F-22 (5-6)																	X		69
8	F-23 (5-6)																	X		70
9	G-20 (5-6)																	X		71
10	G-21 (5-6)																	X	12	72
11	G-22 (5-6)																	X		73
12	G-23 (5-6)																	X		74

92285 61

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/24/08	13:25	[signature] pace	9/24/08	13:25				
	[signature]	9/24/08	14:38	JMoore	9/24	1438	4.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/23/08

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

*Importa[illegible]. 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 a[illegible]ices not paid within 30 days.

F-ALL-Q-020rev.07, 15-[illegible]2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 5 of 11

1162843

Section A Required Client Information:

Company: Kelly-Buck
Address: Cleveland, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: CODES-Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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

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	HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	F-27 (6.5-7.5)	SL	C	9/23/08					1	X								X			75
2	F-28 (6.5-7.5)																	X			76
3	F-29 (6.5-7.5)																	X			77
4	F-30 (6.5-7.5)																	X			78
5	F-20 (6-7)																	X			79
6	F-21 (6-7)																	X			80
7	F-22 (6-7)																	X			81
8	F-23 (6-7)																	X			82
9	G-20 (6-7)																	X			83
10	G-21 (6-7)																	X			84
11	G-22 (6-7)																	X			85
12	G-23 (6-7)																	X			86

Requested Analysis Filtered (Y/N)

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)
	Andrew Street / KB	9/24/08	13:25	Pace	9/24/08	1325				
		9-24-08	14:38	JMOORE	9/24	1438	4.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/23/08

*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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Page: 6 of 11

1162842

Section A Required Client Information:

Company: Kelly - Buck
Address: Cleveland, OH
Email To: mike.lyden@mintspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Codes-Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Hg LP	Total PCB's	TCLP RCRA Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	F-27 (7.5-8.5)	SL	G	9/13/08				1	1	X									X				87
2	F-28 (7.5-8.5)																		X				88
3	F-29 (7.5-8.5)																		X				89
4	F-30 (7.5-8.5)																		X				90
5	G20,23 M20,23 (0-0.5)	X	C	9/17/08				1	3	X										X	X		013
6	F27-30 (0-0.5)	SL	C	9/17/08				1	3	X										X	X		014
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)
	Andrew Street / 143	9/24/08	13:25	pace	9/24/08	13:25				
		9-24-08	14:38	J Moore	9/24	1438	4.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: Andrew Street
DATE Signed (MM/DD/YY): 9/23/08

*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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1163242

Section A Required Client Information:

Company: Kelly-Buck
Address: Cleveland, OH
Email To: mike.lyden@minspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes Vulcan RFC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER KEE

Site Location STATE: NC

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): Analysis Test Y/N — CTAB (2 for each) + Ion PCB's; Keep 1/2 in original JAR + HoLD

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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	H-[illegible] 20 (1-2) *	SL	G	9/23/08				1	1	X										91
2	H-[illegible] 21 (1-2) *																			92
3	H-[illegible] 22 (1-2) *																	15		93
4	H-[illegible] 23 (1-2) *																			94
5	I-[illegible] 20 (1-2)																			95
6	I-[illegible] 21 (1-2)																	16		96
7	I-[illegible] 22 (1-2)																			97
8	I-[illegible] 23 (1-2)			9/24/08																98
9	J-[illegible] 20 (1-2)																			99
10	J-[illegible] 21 (1-2)																	17		100
11	J-[illegible] 22 (1-2)																			101
12	J-[illegible] 23 (1-2)																			102

9228361

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
* returned to client.	Andrew Street / KB	9/24/08	13:25	[signature] Pace	9/24/08	1325
	[signature]	9/24/08	14:38	[signature]	9/24	1438
	Bonnie McKee Pace	10/10/08	10:55	[signature]	10/10/08	10:55

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: DENNY MATHEOU
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 09/24/08

ORIGINAL

*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

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1163243

Section A Required Client Information:
Company: Kelly Buck
Address: Cleveland OH
Email To: mike.lyden@minspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: Copes Vulcan REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie Nickel
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N — TAKE 1/2 for each; TAR Form Composite; Run PCBs; Keep 1/2 in original; TAR + Hold

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	H-20 (3-4)	S	G	9/21/08					1	X								X		103
2	H-21 (3-4)																	X		4
3	H-22 (3-4)																	X		5
4	H-23 (3-4)																	X		6
5	I-20 (3-4)																	X		7
6	I-21 (3-4)																	X		8
7	I-22 (3-4)																	X		9
8	I-23 (3-4)			9/21/08														X		10
9	J-20 (3-4)																	X		11
10	J-21 (3-4)																	X		12
11	J-22 (3-4)																	X		13
12	J-23 (3-4)																	X		14

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)
	Andrew Street / KB	9/24/08	13:25	Pace	9/24/08	23:28				
		9-24-08	14:35	Smoore	9/24	1438	4.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: DENNY MATHEOU
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 09/23/08

*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

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1163201

Section A Required Client Information:

Company: Kelly Beck
Address: Cleveland, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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

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	Requested Analysis Filtered (Y/N) Analysis Test Y/N: Take to Fam Lab + Run PCBs	Keep in origin Jar + Hold	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9228561
1	H-20 (4-5)	SL	G	9/23/08				1	1	X								X			15
2	H-21 (4-5)																X	X	21		16
3	H-22 (4-5)																	X			17
4	H-23 (4-5)																	X			18
5	I-20 (4-5)																	X			19
6	I-21 (4-5)																X	X	22		20
7	I-22 (4-5)																	X			21
8	I-23 (4-5)			9/24/08														X			22
9	J-20 (4-5)																	X			23
10	J-21 (4-5)																X	X	23		24
11	J-22 (4-5)																	X			25
12	J-23 (4-5)																	X			26

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/24/08	13:25	pace	9/24/08	13:25				
		9/24/08	14:38	Smoove	9/24	1438	40	4	N	4

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: DENNY MATHEOU
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 09/24/08

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

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1163202

Section A Required Client Information:
Company: Kelly, Buck
Address: Cleveland, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: Copes Vulcan - REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N — Take to form; Each Vac form; Composite Run RCBS; Pb 2/10 in Residual TAR + HOLD

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	H-20 (5-6)	S	G	9/23/08					1	X									9228561
2	H-21 (5-6)																		22
3	H-22 (5-6)																		23
4	H-23 (5-6)																		24
5	I-20 (5-6)																		31
6	I-21 (5-6)																		32
7	I-22 (5-6)																		33
8	I-23 (5-6)			9/24/08															34
9	J-20 (5-6)																		35
10	J-21 (5-6)																		36
11	J-22 (5-6)																		37
12	J-23 (5-6)																		38

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)
	Andrew Street / KB	9/24/08	13:25	pace	9/24/08	1325				
		9/24/08	1438	Jmore	9/24	1438	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: DENNY MATHEOU
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 09/24/08

ORIGINAL

*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: 1 of 1

1163203

Section A Required Client Information:

Company: Kelly Buck
Address: Cleveland, OH
Email To: mike.lydon@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N: Hold

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	Hold	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	H-20 (6-7)	SL	G	9/23/08					1	X									X		39
2	H-21 (6-7)																		X		40
3	H-22 (6-7)																		X		41
4	H-23 (6-7)																		X		42
5	T-20 (6-7)																		X		43
6	T-21 (6-7)																		X		44
7	T-22 (6-7)																		X		45
8	T-23 (6-7)			9/24/08															X		46
9	J-20 (6-7)																		X		47
10	J-21 (6-7)																		X		48
11	J-22 (6-7)																		X		49
12	J-23 (6-7)																		X		50

9228561

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/24/08	13:25	[signature]	9/24/08	1325				
	[signature]	9/24/08	14:38	[signature]	9/24	1438	40	4	N	4

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: DENNY MATHEOU
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 09/24/08

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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Kellu Project #

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

Optional
Proj. Due Date: N/A
Proj. Name: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

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

Thermometer Used T060 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 4.0 Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: 1/19/04

Temp should be above freezing to 6°C

		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 Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	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.
Filtered volume received for Dissolved tests	☐Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	☐Yes ☐No ☐N/A	13.
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)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): N/A		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:

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

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(704)875-9092

October 24, 2008

Mr. Mike Lyden
Kelly Buck Company
2130 Superior Ave
Suite 3A
Cleveland, OH 44114

RE: Project: COPES-VULCAN REC
Pace Project No.: 9228686

Dear Mr. Lyden:
Enclosed are the analytical results for sample(s) received by the laboratory on September 25, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Bonnie McKee

Bonnie McKee

bonnie.mckee@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Charlotte Certification IDs

Connecticut Certification Number: PH-0104
Pennsylvania Certification Number: 68-00784
West Virginia Certification Number: 357
Virginia Certification Number: 00213
Tennessee Certification Number: 04010
South Carolina Drinking Water Cert. Number: 990060003
South Carolina Certification Number: 990060001
North Carolina Field Services Certification Number: 5342
North Carolina Wastewater Certification Number: 12
North Carolina Drinking Water Certification Number: 37706
Louisiana/LELAP Certification Number: 04034
Kentucky UST Certification Number: 84
New Jersey Certification Number: NC012
Florida/NELAP Certification Number: E87627

Asheville Certification IDs

Connecticut Certification Number: PH-0106
Massachusetts Certification Number: M-NC030
West Virginia Certification Number: 356
Virginia Certification Number: 00072
Tennessee Certification Number: 2980
South Carolina Bioassay Certification Number: 99030002
South Carolina Certification Number: 99030001
Pennsylvania Certification Number: 68-03578
North Carolina Bioassay Certification Number: 9
North Carolina Wastewater Certification Number: 40
North Carolina Drinking Water Certification Number: 37712
New Jersey Certification Number: NC011
Louisiana/LELAP Certification Number: 03095
Florida/NELAP Certification Number: E87648

Eden Certification IDs

Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633
North Carolina Drinking Water Certification Number: 37738

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SAMPLE SUMMARY

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9228686001	K-20-23 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15
9228686002	L-20-23 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15
9228686003	M-20-23 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15
9228686004	K-20-23 (3-4)	Solid	09/24/08 00:00	09/25/08 16:15
9228686005	L-20-23 (3-4)	Solid	09/24/08 00:00	09/25/08 16:15
9228686006	M-20-23 (3-4)	Solid	09/24/08 00:00	09/25/08 16:15
9228686007	K-20-23 (4-5)	Solid	09/24/08 00:00	09/25/08 16:15
9228686008	L-20-23 (4-5)	Solid	09/24/08 00:00	09/25/08 16:15
9228686009	M-20-23 (4-5)	Solid	09/24/08 00:00	09/25/08 16:15
9228686010	K-20-23 (5-6)	Solid	09/24/08 00:00	09/25/08 16:15
9228686011	L-20-23 (5-6)	Solid	09/24/08 00:00	09/25/08 16:15
9228686012	M-20-23 (5-6)	Solid	09/24/08 00:00	09/25/08 16:15
9228686013	N-20-23 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15
9228686014	O-20-23 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15
9228686015	PQ-18-20 (0-0.5)	Solid	09/25/08 00:00	09/25/08 16:15
9228686016	N-20-23 (3-4)	Solid	09/24/08 00:00	09/25/08 16:15
9228686017	O-20-23 (3-4)	Solid	09/24/08 00:00	09/25/08 16:15
9228686018	PQ-18-20 (0.5-1.5)	Solid	09/25/08 00:00	09/25/08 16:15
9228686019	N-20-23 (4-5)	Solid	09/24/08 00:00	09/25/08 16:15
9228686020	O-20-23 (4-5)	Solid	09/24/08 00:00	09/25/08 16:15
9228686021	PQ-18-20 (1.5-2.5)	Solid	09/25/08 00:00	09/25/08 16:15
9228686022	N-20-23 (5-6)	Solid	09/24/08 00:00	09/25/08 16:15
9228686023	O-20-23 (5-6)	Solid	09/24/08 00:00	09/25/08 16:15
9228686024	PQ-18-20 (2.5-3.5)	Solid	09/25/08 00:00	09/25/08 16:15
9228686036	M-20 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15
9228686037	M-21 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15
9228686038	M-22 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15
9228686039	M-23 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15
9228686088	N-20 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15
9228686089	N-21 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15
9228686090	N-22 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15
9228686091	N-23 (1-2)	Solid	09/24/08 00:00	09/25/08 16:15

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SAMPLE ANALYTE COUNT

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9228686001	K-20-23 (1-2)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686002	L-20-23 (1-2)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686003	M-20-23 (1-2)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686004	K-20-23 (3-4)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686005	L-20-23 (3-4)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686006	M-20-23 (3-4)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686007	K-20-23 (4-5)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686008	L-20-23 (4-5)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686009	M-20-23 (4-5)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686010	K-20-23 (5-6)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686011	L-20-23 (5-6)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686012	M-20-23 (5-6)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686013	N-20-23 (1-2)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686014	O-20-23 (1-2)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686015	PQ-18-20 (0-0.5)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686016	N-20-23 (3-4)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686017	O-20-23 (3-4)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686018	PQ-18-20 (0.5-1.5)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686019	N-20-23 (4-5)	ASTM D2974-87	CLW	1

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SAMPLE ANALYTE COUNT

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8082	JEM	8
9228686020	O-20-23 (4-5)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686021	PQ-18-20 (1.5-2.5)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686022	N-20-23 (5-6)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686023	O-20-23 (5-6)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686024	PQ-18-20 (2.5-3.5)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228686036	M-20 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228686037	M-21 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228686038	M-22 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228686039	M-23 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228686088	N-20 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228686089	N-21 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228686090	N-22 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228686091	N-23 (1-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: K-20-23 (1-2) **Lab ID: 9228686001** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.0	9.0	1	09/26/08 15:09	09/30/08 12:21	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.0	16.8	1	09/26/08 15:09	09/30/08 12:21	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.0	16.8	1	09/26/08 15:09	09/30/08 12:21	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.0	16.8	1	09/26/08 15:09	09/30/08 12:21	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.0	16.8	1	09/26/08 15:09	09/30/08 12:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**268**	ug/kg	37.0	16.8	1	09/26/08 15:09	09/30/08 12:21	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.0	5.6	1	09/26/08 15:09	09/30/08 12:21	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	09/26/08 15:09	09/30/08 12:21	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.9**	%	0.10	0.10	1		09/29/08 10:23		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: L-20-23 (1-2) **Lab ID: 9228686002** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.5	8.8	1	09/26/08 15:09	09/30/08 12:35	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.5	16.6	1	09/26/08 15:09	09/30/08 12:35	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.5	16.6	1	09/26/08 15:09	09/30/08 12:35	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.5	16.6	1	09/26/08 15:09	09/30/08 12:35	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.5	16.6	1	09/26/08 15:09	09/30/08 12:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**82.2**	ug/kg	36.5	16.6	1	09/26/08 15:09	09/30/08 12:35	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	36.5	5.5	1	09/26/08 15:09	09/30/08 12:35	11096-82-5	
Decachlorobiphenyl (S)	61	%	50-150		1	09/26/08 15:09	09/30/08 12:35	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.6**	%	0.10	0.10	1		09/29/08 10:23		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: M-20-23 (1-2) **Lab ID: 9228686003** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.2	10.5	1	09/26/08 15:09	09/30/08 12:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.2	19.6	1	09/26/08 15:09	09/30/08 12:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.2	19.6	1	09/26/08 15:09	09/30/08 12:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.2	19.6	1	09/26/08 15:09	09/30/08 12:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.2	19.6	1	09/26/08 15:09	09/30/08 12:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**1520**	ug/kg	432	196	10	09/26/08 15:09	10/01/08 11:00	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.2	6.5	1	09/26/08 15:09	09/30/08 12:48	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	09/26/08 15:09	09/30/08 12:48	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.6**	%	0.10	0.10	1		09/29/08 10:23		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: K-20-23 (3-4) **Lab ID: 9228686004** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.0	9.9	1	09/26/08 15:09	09/30/08 13:02	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.0	18.6	1	09/26/08 15:09	09/30/08 13:02	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.0	18.6	1	09/26/08 15:09	09/30/08 13:02	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.0	18.6	1	09/26/08 15:09	09/30/08 13:02	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.0	18.6	1	09/26/08 15:09	09/30/08 13:02	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	41.0	18.6	1	09/26/08 15:09	09/30/08 13:02	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.0	6.2	1	09/26/08 15:09	09/30/08 13:02	11096-82-5	
Decachlorobiphenyl (S)	52	%	50-150		1	09/26/08 15:09	09/30/08 13:02	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.4**	%	0.10	0.10	1		09/29/08 10:23		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: L-20-23 (3-4) **Lab ID: 9228686005** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.7	9.4	1	09/26/08 15:09	09/30/08 13:16	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.7	17.6	1	09/26/08 15:09	09/30/08 13:16	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.7	17.6	1	09/26/08 15:09	09/30/08 13:16	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.7	17.6	1	09/26/08 15:09	09/30/08 13:16	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.7	17.6	1	09/26/08 15:09	09/30/08 13:16	12672-29-6	
PCB-1254 (Aroclor 1254)	**44.3**	ug/kg	38.7	17.6	1	09/26/08 15:09	09/30/08 13:16	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.7	5.9	1	09/26/08 15:09	09/30/08 13:16	11096-82-5	
Decachlorobiphenyl (S)	78	%	50-150		1	09/26/08 15:09	09/30/08 13:16	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.6**	%	0.10	0.10	1		09/29/08 10:23		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: M-20-23 (3-4) **Lab ID: 9228686006** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.9	9.7	1	09/26/08 15:09	09/30/08 13:29	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.9	18.2	1	09/26/08 15:09	09/30/08 13:29	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.9	18.2	1	09/26/08 15:09	09/30/08 13:29	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.9	18.2	1	09/26/08 15:09	09/30/08 13:29	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.9	18.2	1	09/26/08 15:09	09/30/08 13:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**37.2J**	ug/kg	39.9	18.2	1	09/26/08 15:09	09/30/08 13:29	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.9	6.1	1	09/26/08 15:09	09/30/08 13:29	11096-82-5	
Decachlorobiphenyl (S)	68	%	50-150		1	09/26/08 15:09	09/30/08 13:29	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.4**	%	0.10	0.10	1		09/29/08 10:24		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: K-20-23 (4-5) **Lab ID: 9228686007** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.4	10.5	1	09/26/08 15:09	09/30/08 13:43	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.4	19.7	1	09/26/08 15:09	09/30/08 13:43	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.4	19.7	1	09/26/08 15:09	09/30/08 13:43	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.4	19.7	1	09/26/08 15:09	09/30/08 13:43	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.4	19.7	1	09/26/08 15:09	09/30/08 13:43	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	43.4	19.7	1	09/26/08 15:09	09/30/08 13:43	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.4	6.6	1	09/26/08 15:09	09/30/08 13:43	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	09/26/08 15:09	09/30/08 13:43	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.9**	%	0.10	0.10	1		09/29/08 10:24		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: L-20-23 (4-5) **Lab ID: 9228686008** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.9	9.9	1	09/26/08 15:09	09/30/08 13:57	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.9	18.6	1	09/26/08 15:09	09/30/08 13:57	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.9	18.6	1	09/26/08 15:09	09/30/08 13:57	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.9	18.6	1	09/26/08 15:09	09/30/08 13:57	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.9	18.6	1	09/26/08 15:09	09/30/08 13:57	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	40.9	18.6	1	09/26/08 15:09	09/30/08 13:57	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.9	6.2	1	09/26/08 15:09	09/30/08 13:57	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	09/26/08 15:09	09/30/08 13:57	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.4**	%	0.10	0.10	1		09/29/08 10:24		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: M-20-23 (4-5) **Lab ID: 9228686009** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	44.5	10.8	1	09/26/08 15:09	09/30/08 14:10	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	44.5	20.2	1	09/26/08 15:09	09/30/08 14:10	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	44.5	20.2	1	09/26/08 15:09	09/30/08 14:10	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	44.5	20.2	1	09/26/08 15:09	09/30/08 14:10	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	44.5	20.2	1	09/26/08 15:09	09/30/08 14:10	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	44.5	20.2	1	09/26/08 15:09	09/30/08 14:10	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	44.5	6.7	1	09/26/08 15:09	09/30/08 14:10	11096-82-5	
Decachlorobiphenyl (S)	68	%	50-150		1	09/26/08 15:09	09/30/08 14:10	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.8**	%	0.10	0.10	1		09/29/08 10:24		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: K-20-23 (5-6) **Lab ID: 9228686010** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.0	10.2	1	09/26/08 15:09	09/30/08 14:24	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.0	19.1	1	09/26/08 15:09	09/30/08 14:24	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.0	19.1	1	09/26/08 15:09	09/30/08 14:24	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.0	19.1	1	09/26/08 15:09	09/30/08 14:24	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.0	19.1	1	09/26/08 15:09	09/30/08 14:24	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	42.0	19.1	1	09/26/08 15:09	09/30/08 14:24	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.0	6.4	1	09/26/08 15:09	09/30/08 14:24	11096-82-5	
Decachlorobiphenyl (S)	68	%	50-150		1	09/26/08 15:09	09/30/08 14:24	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.4**	%	0.10	0.10	1		09/29/08 17:36		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: L-20-23 (5-6) **Lab ID: 9228686011** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.1	10	1	09/26/08 15:09	09/30/08 14:37	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.1	18.7	1	09/26/08 15:09	09/30/08 14:37	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.1	18.7	1	09/26/08 15:09	09/30/08 14:37	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.1	18.7	1	09/26/08 15:09	09/30/08 14:37	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.1	18.7	1	09/26/08 15:09	09/30/08 14:37	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	41.1	18.7	1	09/26/08 15:09	09/30/08 14:37	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.1	6.2	1	09/26/08 15:09	09/30/08 14:37	11096-82-5	
Decachlorobiphenyl (S)	67	%	50-150		1	09/26/08 15:09	09/30/08 14:37	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.8**	%	0.10	0.10	1		09/29/08 17:36		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: M-20-23 (5-6) **Lab ID: 9228686012** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.6	10.6	1	09/26/08 15:09	09/30/08 14:51	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.6	19.8	1	09/26/08 15:09	09/30/08 14:51	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.6	19.8	1	09/26/08 15:09	09/30/08 14:51	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.6	19.8	1	09/26/08 15:09	09/30/08 14:51	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.6	19.8	1	09/26/08 15:09	09/30/08 14:51	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	43.6	19.8	1	09/26/08 15:09	09/30/08 14:51	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.6	6.6	1	09/26/08 15:09	09/30/08 14:51	11096-82-5	
Decachlorobiphenyl (S)	56	%	50-150		1	09/26/08 15:09	09/30/08 14:51	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**24.3**	%	0.10	0.10	1		09/29/08 17:37		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: N-20-23 (1-2) **Lab ID: 9228686013** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.2	9.7	1	09/26/08 15:09	09/30/08 15:05	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.2	18.3	1	09/26/08 15:09	09/30/08 15:05	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.2	18.3	1	09/26/08 15:09	09/30/08 15:05	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.2	18.3	1	09/26/08 15:09	09/30/08 15:05	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.2	18.3	1	09/26/08 15:09	09/30/08 15:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**1280**	ug/kg	201	91.4	5	09/26/08 15:09	10/01/08 11:14	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.2	6.1	1	09/26/08 15:09	09/30/08 15:05	11096-82-5	
Decachlorobiphenyl (S)	59	%	50-150		1	09/26/08 15:09	09/30/08 15:05	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.9**	%	0.10	0.10	1		09/29/08 17:37		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: O-20-23 (1-2) **Lab ID: 9228686014** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.7	10.1	1	09/26/08 15:09	09/30/08 15:18	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.7	19.0	1	09/26/08 15:09	09/30/08 15:18	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.7	19.0	1	09/26/08 15:09	09/30/08 15:18	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.7	19.0	1	09/26/08 15:09	09/30/08 15:18	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.7	19.0	1	09/26/08 15:09	09/30/08 15:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**630**	ug/kg	209	94.8	5	09/26/08 15:09	10/01/08 11:27	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.7	6.3	1	09/26/08 15:09	09/30/08 15:18	11096-82-5	
Decachlorobiphenyl (S)	52	%	50-150		1	09/26/08 15:09	09/30/08 15:18	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.9**	%	0.10	0.10	1		09/29/08 17:37		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: PQ-18-20 (0-0.5) **Lab ID: 9228686015** Collected: 09/25/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.8	10.4	1	09/30/08 00:00	10/01/08 16:46	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.8	19.4	1	09/30/08 00:00	10/01/08 16:46	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.8	19.4	1	09/30/08 00:00	10/01/08 16:46	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.8	19.4	1	09/30/08 00:00	10/01/08 16:46	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.8	19.4	1	09/30/08 00:00	10/01/08 16:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**2490**	ug/kg	428	194	10	09/30/08 00:00	10/02/08 09:42	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.8	6.5	1	09/30/08 00:00	10/01/08 16:46	11096-82-5	
Decachlorobiphenyl (S)	78	%	50-150		1	09/30/08 00:00	10/01/08 16:46	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.9**	%	0.10	0.10	1		09/29/08 17:38		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: N-20-23 (3-4) **Lab ID: 9228686016** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	33.5	8.1	1	09/30/08 00:00	10/01/08 17:00	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.5	15.2	1	09/30/08 00:00	10/01/08 17:00	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.5	15.2	1	09/30/08 00:00	10/01/08 17:00	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.5	15.2	1	09/30/08 00:00	10/01/08 17:00	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.5	15.2	1	09/30/08 00:00	10/01/08 17:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**396**	ug/kg	33.5	15.2	1	09/30/08 00:00	10/01/08 17:00	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	33.5	5.1	1	09/30/08 00:00	10/01/08 17:00	11096-82-5	
Decachlorobiphenyl (S)	52	%	50-150		1	09/30/08 00:00	10/01/08 17:00	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**1.6**	%	0.10	0.10	1		09/29/08 17:38		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: O-20-23 (3-4) **Lab ID: 9228686017** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.9	10.4	1	09/30/08 00:00	10/01/08 17:13	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.9	19.5	1	09/30/08 00:00	10/01/08 17:13	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.9	19.5	1	09/30/08 00:00	10/01/08 17:13	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.9	19.5	1	09/30/08 00:00	10/01/08 17:13	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.9	19.5	1	09/30/08 00:00	10/01/08 17:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**26.3J**	ug/kg	42.9	19.5	1	09/30/08 00:00	10/01/08 17:13	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.9	6.5	1	09/30/08 00:00	10/01/08 17:13	11096-82-5	
Decachlorobiphenyl (S)	79	%	50-150		1	09/30/08 00:00	10/01/08 17:13	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.1**	%	0.10	0.10	1		09/29/08 17:38		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: PQ-18-20 (0.5-1.5) **Lab ID: 9228686018** Collected: 09/25/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.8	9.4	1	09/30/08 00:00	10/01/08 17:27	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.8	17.6	1	09/30/08 00:00	10/01/08 17:27	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.8	17.6	1	09/30/08 00:00	10/01/08 17:27	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.8	17.6	1	09/30/08 00:00	10/01/08 17:27	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.8	17.6	1	09/30/08 00:00	10/01/08 17:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**419**	ug/kg	38.8	17.6	1	09/30/08 00:00	10/01/08 17:27	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.8	5.9	1	09/30/08 00:00	10/01/08 17:27	11096-82-5	
Decachlorobiphenyl (S)	59	%	50-150		1	09/30/08 00:00	10/01/08 17:27	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.9**	%	0.10	0.10	1		09/29/08 17:38		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: N-20-23 (4-5) **Lab ID: 9228686019** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.3	10.0	1	09/30/08 00:00	10/01/08 17:41	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.3	18.8	1	09/30/08 00:00	10/01/08 17:41	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.3	18.8	1	09/30/08 00:00	10/01/08 17:41	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.3	18.8	1	09/30/08 00:00	10/01/08 17:41	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.3	18.8	1	09/30/08 00:00	10/01/08 17:41	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	41.3	18.8	1	09/30/08 00:00	10/01/08 17:41	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.3	6.3	1	09/30/08 00:00	10/01/08 17:41	11096-82-5	
Decachlorobiphenyl (S)	52	%	50-150		1	09/30/08 00:00	10/01/08 17:41	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.0**	%	0.10	0.10	1		09/29/08 17:39		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: O-20-23 (4-5) **Lab ID: 9228686020** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.9	9.9	1	09/30/08 00:00	10/01/08 17:54	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.9	18.6	1	09/30/08 00:00	10/01/08 17:54	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.9	18.6	1	09/30/08 00:00	10/01/08 17:54	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.9	18.6	1	09/30/08 00:00	10/01/08 17:54	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.9	18.6	1	09/30/08 00:00	10/01/08 17:54	12672-29-6	
PCB-1254 (Aroclor 1254)	**26.4J**	ug/kg	40.9	18.6	1	09/30/08 00:00	10/01/08 17:54	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.9	6.2	1	09/30/08 00:00	10/01/08 17:54	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	09/30/08 00:00	10/01/08 17:54	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.2**	%	0.10	0.10	1		09/29/08 17:39		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: PQ-18-20 (1.5-2.5) **Lab ID: 9228686021** Collected: 09/25/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.9	9.7	1	09/30/08 00:00	10/01/08 18:08	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.9	18.1	1	09/30/08 00:00	10/01/08 18:08	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.9	18.1	1	09/30/08 00:00	10/01/08 18:08	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.9	18.1	1	09/30/08 00:00	10/01/08 18:08	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.9	18.1	1	09/30/08 00:00	10/01/08 18:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**542**	ug/kg	79.8	36.3	2	09/30/08 00:00	10/02/08 09:55	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.9	6.0	1	09/30/08 00:00	10/01/08 18:08	11096-82-5	
Decachlorobiphenyl (S)	61	%	50-150		1	09/30/08 00:00	10/01/08 18:08	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.2**	%	0.10	0.10	1		09/29/08 17:39		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: N-20-23 (5-6) **Lab ID: 9228686022** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.0	10.2	1	09/30/08 00:00	10/01/08 18:21	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.0	19.1	1	09/30/08 00:00	10/01/08 18:21	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.0	19.1	1	09/30/08 00:00	10/01/08 18:21	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.0	19.1	1	09/30/08 00:00	10/01/08 18:21	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.0	19.1	1	09/30/08 00:00	10/01/08 18:21	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	42.0	19.1	1	09/30/08 00:00	10/01/08 18:21	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.0	6.4	1	09/30/08 00:00	10/01/08 18:21	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	09/30/08 00:00	10/01/08 18:21	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.4**	%	0.10	0.10	1		09/29/08 17:40		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: O-20-23 (5-6) **Lab ID: 9228686023** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.1	9.7	1	09/30/08 00:00	10/01/08 18:35	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.1	18.2	1	09/30/08 00:00	10/01/08 18:35	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.1	18.2	1	09/30/08 00:00	10/01/08 18:35	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.1	18.2	1	09/30/08 00:00	10/01/08 18:35	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.1	18.2	1	09/30/08 00:00	10/01/08 18:35	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	40.1	18.2	1	09/30/08 00:00	10/01/08 18:35	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.1	6.1	1	09/30/08 00:00	10/01/08 18:35	11096-82-5	
Decachlorobiphenyl (S)	63	%	50-150		1	09/30/08 00:00	10/01/08 18:35	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.7**	%	0.10	0.10	1		09/29/08 17:41		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: PQ-18-20 (2.5-3.5) **Lab ID: 9228686024** Collected: 09/25/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.4	9.3	1	09/30/08 00:00	10/01/08 18:49	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.4	17.4	1	09/30/08 00:00	10/01/08 18:49	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.4	17.4	1	09/30/08 00:00	10/01/08 18:49	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.4	17.4	1	09/30/08 00:00	10/01/08 18:49	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.4	17.4	1	09/30/08 00:00	10/01/08 18:49	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	38.4	17.4	1	09/30/08 00:00	10/01/08 18:49	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.4	5.8	1	09/30/08 00:00	10/01/08 18:49	11096-82-5	
Decachlorobiphenyl (S)	60	%	50-150		1	09/30/08 00:00	10/01/08 18:49	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.0**	%	0.10	0.10	1		09/29/08 17:41		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: M-20 (1-2) **Lab ID: 9228686036** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.3	10.3	1	10/21/08 00:00	10/22/08 22:21	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.3	19.2	1	10/21/08 00:00	10/22/08 22:21	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.3	19.2	1	10/21/08 00:00	10/22/08 22:21	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.3	19.2	1	10/21/08 00:00	10/22/08 22:21	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.3	19.2	1	10/21/08 00:00	10/22/08 22:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**204**	ug/kg	42.3	19.2	1	10/21/08 00:00	10/22/08 22:21	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.3	6.4	1	10/21/08 00:00	10/22/08 22:21	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	10/21/08 00:00	10/22/08 22:21	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.0**	%	0.10	0.10	1		10/17/08 09:02		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: M-21 (1-2) **Lab ID: 9228686037** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.8	10.1	1	10/21/08 00:00	10/22/08 22:35	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.8	19.0	1	10/21/08 00:00	10/22/08 22:35	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.8	19.0	1	10/21/08 00:00	10/22/08 22:35	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.8	19.0	1	10/21/08 00:00	10/22/08 22:35	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.8	19.0	1	10/21/08 00:00	10/22/08 22:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**361**	ug/kg	41.8	19.0	1	10/21/08 00:00	10/22/08 22:35	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.8	6.3	1	10/21/08 00:00	10/22/08 22:35	11096-82-5	
Decachlorobiphenyl (S)	54	%	50-150		1	10/21/08 00:00	10/22/08 22:35	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.0**	%	0.10	0.10	1		10/17/08 09:02		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: M-22 (1-2) **Lab ID: 9228686038** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	45.1	10.9	1	10/21/08 00:00	10/22/08 22:49	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	45.1	20.5	1	10/21/08 00:00	10/22/08 22:49	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	45.1	20.5	1	10/21/08 00:00	10/22/08 22:49	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	45.1	20.5	1	10/21/08 00:00	10/22/08 22:49	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	45.1	20.5	1	10/21/08 00:00	10/22/08 22:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**294**	ug/kg	45.1	20.5	1	10/21/08 00:00	10/22/08 22:49	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	45.1	6.8	1	10/21/08 00:00	10/22/08 22:49	11096-82-5	
Decachlorobiphenyl (S)	74	%	50-150		1	10/21/08 00:00	10/22/08 22:49	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**26.8**	%	0.10	0.10	1		10/17/08 09:03		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: M-23 (1-2) **Lab ID: 9228686039** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	46.6	11.3	1	10/21/08 00:00	10/22/08 23:03	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	46.6	21.2	1	10/21/08 00:00	10/22/08 23:03	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	46.6	21.2	1	10/21/08 00:00	10/22/08 23:03	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	46.6	21.2	1	10/21/08 00:00	10/22/08 23:03	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	46.6	21.2	1	10/21/08 00:00	10/22/08 23:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**3020**	ug/kg	932	423	20	10/21/08 00:00	10/23/08 12:53	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	46.6	7.1	1	10/21/08 00:00	10/22/08 23:03	11096-82-5	
Decachlorobiphenyl (S)	77	%	50-150		1	10/21/08 00:00	10/22/08 23:03	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**29.2**	%	0.10	0.10	1		10/17/08 09:03		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: N-20 (1-2) **Lab ID: 9228686088** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.9	10.4	1	10/21/08 00:00	10/22/08 23:17	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.9	19.5	1	10/21/08 00:00	10/22/08 23:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.9	19.5	1	10/21/08 00:00	10/22/08 23:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.9	19.5	1	10/21/08 00:00	10/22/08 23:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.9	19.5	1	10/21/08 00:00	10/22/08 23:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**24.1J**	ug/kg	42.9	19.5	1	10/21/08 00:00	10/22/08 23:17	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.9	6.5	1	10/21/08 00:00	10/22/08 23:17	11096-82-5	
Decachlorobiphenyl (S)	56	%	50-150		1	10/21/08 00:00	10/22/08 23:17	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.0**	%	0.10	0.10	1		10/17/08 09:03		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: N-21 (1-2) **Lab ID: 9228686089** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.4	9.8	1	10/21/08 00:00	10/22/08 23:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.4	18.4	1	10/21/08 00:00	10/22/08 23:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.4	18.4	1	10/21/08 00:00	10/22/08 23:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.4	18.4	1	10/21/08 00:00	10/22/08 23:31	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.4	18.4	1	10/21/08 00:00	10/22/08 23:31	12672-29-6	
PCB-1254 (Aroclor 1254)	**288**	ug/kg	40.4	18.4	1	10/21/08 00:00	10/22/08 23:31	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.4	6.1	1	10/21/08 00:00	10/22/08 23:31	11096-82-5	
Decachlorobiphenyl (S)	54	%	50-150		1	10/21/08 00:00	10/22/08 23:31	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.3**	%	0.10	0.10	1		10/17/08 09:05		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: N-22 (1-2) **Lab ID: 9228686090** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.5	9.3	1	10/21/08 00:00	10/22/08 23:45	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.5	17.5	1	10/21/08 00:00	10/22/08 23:45	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.5	17.5	1	10/21/08 00:00	10/22/08 23:45	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.5	17.5	1	10/21/08 00:00	10/22/08 23:45	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.5	17.5	1	10/21/08 00:00	10/22/08 23:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**311**	ug/kg	38.5	17.5	1	10/21/08 00:00	10/22/08 23:45	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.5	5.8	1	10/21/08 00:00	10/22/08 23:45	11096-82-5	
Decachlorobiphenyl (S)	70	%	50-150		1	10/21/08 00:00	10/22/08 23:45	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.3**	%	0.10	0.10	1		10/17/08 09:06		

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ANALYTICAL RESULTS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

Sample: N-23 (1-2) **Lab ID: 9228686091** Collected: 09/24/08 00:00 Received: 09/25/08 16:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.3	10.0	1	10/21/08 00:00	10/22/08 23:59	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.3	18.8	1	10/21/08 00:00	10/22/08 23:59	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.3	18.8	1	10/21/08 00:00	10/22/08 23:59	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.3	18.8	1	10/21/08 00:00	10/22/08 23:59	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.3	18.8	1	10/21/08 00:00	10/22/08 23:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**147**	ug/kg	41.3	18.8	1	10/21/08 00:00	10/22/08 23:59	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.3	6.3	1	10/21/08 00:00	10/22/08 23:59	11096-82-5	
Decachlorobiphenyl (S)	54	%	50-150		1	10/21/08 00:00	10/22/08 23:59	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.1**	%	0.10	0.10	1		10/17/08 09:07		

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QUALITY CONTROL DATA

Project: COPES-VULCAN REC
Pace Project No.: 9228686

QC Batch: PMST/1950 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228686001, 9228686002, 9228686003, 9228686004, 9228686005, 9228686006, 9228686007, 9228686008, 9228686009

SAMPLE DUPLICATE: 173504

Parameter	Units	9228686009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.8	24.5	5	25	

SAMPLE DUPLICATE: 173518

Parameter	Units	9228623001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.1	20.4	3	25	

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QUALITY CONTROL DATA

Project: COPES-VULCAN REC
Pace Project No.: 9228686

QC Batch: PMST/1951 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228686010, 9228686011, 9228686012, 9228686013, 9228686014, 9228686015, 9228686016, 9228686017, 9228686018, 9228686019, 9228686020, 9228686021, 9228686022, 9228686023, 9228686024

SAMPLE DUPLICATE: 173505

Parameter	Units	9228686010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.4	21.5	.6	25	

SAMPLE DUPLICATE: 173506

Parameter	Units	9228686027 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%		12.7			

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QUALITY CONTROL DATA

Project: COPES-VULCAN REC
Pace Project No.: 9228686

QC Batch: OEXT/4521 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9228686001, 9228686002, 9228686003, 9228686004, 9228686005, 9228686006, 9228686007, 9228686008, 9228686009, 9228686010, 9228686011, 9228686012, 9228686013, 9228686014

METHOD BLANK: 173784 Matrix: Solid
Associated Lab Samples: 9228686001, 9228686002, 9228686003, 9228686004, 9228686005, 9228686006, 9228686007, 9228686008, 9228686009, 9228686010, 9228686011, 9228686012, 9228686013, 9228686014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	09/30/08 10:05	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	09/30/08 10:05	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	09/30/08 10:05	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	09/30/08 10:05	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	09/30/08 10:05	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	09/30/08 10:05	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	09/30/08 10:05	
Decachlorobiphenyl (S)	%	73	50-150	09/30/08 10:05	

LABORATORY CONTROL SAMPLE: 173785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	117	70	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	105	63	50-150	
Decachlorobiphenyl (S)	%			69	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 173786 173787

Parameter	Units	9228561022 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	213	213	118	117	56	55	50-150	.9	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	213	213	107	107	50	51	50-150	.1	30	
Decachlorobiphenyl (S)	%						85	86	50-150			

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: COPES-VULCAN REC
Pace Project No.: 9228686

QC Batch: OEXT/4546 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9228686015, 9228686016, 9228686017, 9228686018, 9228686019, 9228686020, 9228686021, 9228686022, 9228686023, 9228686024

METHOD BLANK: 175307 Matrix: Solid
Associated Lab Samples: 9228686015, 9228686016, 9228686017, 9228686018, 9228686019, 9228686020, 9228686021, 9228686022, 9228686023, 9228686024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	10/01/08 11:41	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	10/01/08 11:41	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	10/01/08 11:41	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	10/01/08 11:41	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	10/01/08 11:41	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	10/01/08 11:41	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	10/01/08 11:41	
Decachlorobiphenyl (S)	%	75	50-150	10/01/08 11:41	

LABORATORY CONTROL SAMPLE: 175308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	139	83	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	121	72	50-150	
Decachlorobiphenyl (S)	%			83	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 175309 175310

Parameter	Units	9228829001 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	199	199	179	177	90	89	50-150	.7	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	199	199	121	121	61	61	50-150	.5	30	
Decachlorobiphenyl (S)	%						70	70	50-150			

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(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: COPES-VULCAN REC
Pace Project No.: 9228686

QC Batch: PMST/2020 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228686036, 9228686037, 9228686038, 9228686039, 9228686088

SAMPLE DUPLICATE: 183788

Parameter	Units	9227814097 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.2	19.5	2	25	

SAMPLE DUPLICATE: 183789

Parameter	Units	9228686088 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.0	23.1	.2	25	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: COPES-VULCAN REC
Pace Project No.: 9228686

QC Batch: PMST/2021 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228686089, 9228686090, 9228686091

SAMPLE DUPLICATE: 183790

Parameter	Units	9228686089 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.3	19.7	8	25	

SAMPLE DUPLICATE: 183791

Parameter	Units	9230057003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.5	15.3	12	25	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: COPES-VULCAN REC
Pace Project No.: 9228686

QC Batch: OEXT/4767 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9228686036, 9228686037, 9228686038, 9228686039, 9228686088, 9228686089, 9228686090, 9228686091

METHOD BLANK: 185669 Matrix: Solid
Associated Lab Samples: 9228686036, 9228686037, 9228686038, 9228686039, 9228686088, 9228686089, 9228686090, 9228686091

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	10/22/08 20:29	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	10/22/08 20:29	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	10/22/08 20:29	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	10/22/08 20:29	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	10/22/08 20:29	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	10/22/08 20:29	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	10/22/08 20:29	
Decachlorobiphenyl (S)	%	82	50-150	10/22/08 20:29	

LABORATORY CONTROL SAMPLE: 185670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	110	66	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	132	79	50-150	
Decachlorobiphenyl (S)	%			76	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 185671 185672

Parameter	Units	9227814122 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	196	196	134	134	68	68	50-150	.1	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	196	196	126	125	64	64	50-150	.3	30	
Decachlorobiphenyl (S)	%						75	75	50-150			

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: COPES-VULCAN REC
Pace Project No.: 9228686

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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1163204

Section A Required Client Information:

Company: KELLY-BUCK
Address: CLEVELAND, OH
Email To: mike.lyden@mandspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: COPES-VULCAN REC
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: BONNIE McKEE
Pace Profile #: 1563-3

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N; TAKE ½ FROM EACH JAR, FORM COMPOSITE & RUN PCB'S; KEEP ½ IN ORIGINAL JAR & HOLD

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	TAKE ½ FROM EACH JAR, FORM COMPOSITE & RUN PCB'S	KEEP ½ IN ORIGINAL JAR & HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	K-20 (1-2)	SL	G	9/24/08					1	X										X		028
2	K-21 (1-2)																		X	X		029
3	K-22 (1-2)																			X		030
4	K-23 (1-2)																			X		031
5	L-20 (1-2)																			X		032
6	L-21 (1-2)																		X	X		033
7	L-22 (1-2)																			X		034
8	L-23 (1-2)																			X		035
9	M-20 (1-2)																			X		036
10	M-21 (1-2)																		X	X		037
11	M-22 (1-2)																			X		038
12	M-23 (1-2)																			X		039

001 002 003

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	DENNY MATHEOU / KB	9/25/08	15:40	[illegible] / Pace	9/25/08	15:40			
	[illegible] / Pace	9/25/08	16:15	[illegible]	9/25	16:15	2.6	Y	N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: DENNY MATHEOU
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/24/08

Temp in °C

ORIGINAL

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1163205

Section A Required Client Information:

Company: KELLY-BUCK
Address: CLEVELAND, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: COPES-VULCAN REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER REC

Site Location STATE: NC

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): Analysis Test (Y/N): TAKE ½ FROM EACH JAR FOR COMPOSITE & RUN PCB'S; KEEP ½ IN ORIGINAL JAR & HOLD

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)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	K-20 (3-4)	SL	G	9/24/08					1	X								X		040
2	K-21 (3-4)																	X		041
3	K-22 (3-4)																	X		042
4	K-23 (3-4)																	X		043
5	L-20 (3-4)																	X		044
6	L-21 (3-4)																	X		045
7	L-22 (3-4)																	X		046
8	L-23 (3-4)																	X		047
9	M-20 (3-4)																	X		048
10	M-21 (3-4)																	X		049
11	M-22 (3-4)																	X		050
12	M-23 (3-4)																	X		051

9228686

004 005 006

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	DENNY MATHEOU/KB	9/25/08	15:40	[illegible]/MACE	9/25/08	15:40				
	[illegible]/MACE	9/25/08	16:15	[illegible]	9/25	1615	2.6	Y	N	Y

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: DENNY MATHEOU
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/24/08

*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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1163207

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: KELLY-BUCK	Report To:	Attention:
Address: CLEVELAND OH	Copy To:	Company Name:
		Address:
Email To: mike.lyden@mindspring.com	Purchase Order No.:	Pace Quote Reference:
Phone: / Fax:	Project Name: COPES-VULCAN REC	Pace Project Manager: BONNIE MILLER
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER REC

Site Location STATE: NC

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): Analysis Test; TAKE ½ FROM EACH JAR - FORM COMPOSITE & RUN PCB'S; KEEP ½ JAR IN ORIGINAL JAR & HOLD

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	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	TAKE ½ FROM EACH JAR - FORM COMPOSITE & RUN PCB'S	KEEP ½ JAR IN ORIGINAL JAR & HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	K-20 (4-5)	SL	G	9/24/08				1	1	X										X		052
2	K-21 (4-5)																		X	X		053
3	K-22 (4-5)																			X		054
4	K-23 (4-5)																			X		055
5	L-20 (4-5)																			X		056
6	L-21 (4-5)																		X	X		057
7	L-22 (4-5)																			X		058
8	L-23 (4-5)																			X		059
9	M-20 (4-5)																			X		060
10	M-21 (4-5)																		X	X		061
11	M-22 (4-5)																			X		062
12	M-23 (4-5)																			X		063

009 008 007

92281686

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	DENNY MATHEOU / KB	9/25/08	15:40	[signature] / PACE	9/25/08	15:40			
	[signature] / PACE	9/25/08	1645	J Moore	9/25	1645	2.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: DENNY MATHEOU

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/24/08

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

*Impo[illegible]te: 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 [illegible]voices not paid within 30 days.

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1163208

Section A Required Client Information:

Company: KELLY - BUCK
Address: CLEVELAND, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: COPES-VULCAN REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER REC

Site Location STATE: NC

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): TAKE 1/2 FROM EACH JAR, FORM COMPOSITE & RUN PCB'S; KEEP 1/2 IN ORIGINAL JAR & HOLD

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)	TAKE 1/2 FROM EACH JAR, FORM COMPOSITE & RUN PCB'S	KEEP 1/2 IN ORIGINAL JAR & HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92286086
1	K-20 (5-6)	SL	G	9/24/08				1	1	X										X		064
2	K-21 (5-6)																		☒	X		065
3	K-22 (5-6)																			X		066
4	K-23 (5-6)																			X		067
5	L-20 (5-6)																			X		068
6	L-21 (5-6)																		☒	X		069
7	L-22 (5-6)																			X		070
8	L-23 (5-6)																			X		071
9	M-20 (5-6)																			X		072
10	M-21 (5-6)																		☒	X		073
11	M-22 (5-6)																			X		074
12	M-23 (5-6)																			X		075

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	DENNY MATHEOU / KB	9/25/08	15:40	RB Smyth / Pace	9/25/08	15:40				
	RB Smyth / Pace	9/25/08	16:15	J Moore	9/25	1615	2.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: DENNY MATHEOU
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/24/08

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 on any invoices not paid within 30 days.

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1163209

Section A Required Client Information:

Company: KELLY-BUCK
Address: CLEVELAND, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: COPES-VULCAN REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER REC

Site Location STATE: NC

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): Analysis Test: HOLD

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	HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	K-20 (6-7)	SL	G	9/24/08				1	1	X								X		076
2	K-21 (6-7)																	X		077
3	K-22 (6-7)																	X		078
4	K-23 (6-7)																	X		079
5	L-20 (6-7)																	X		080
6	L-21 (6-7)																	X		081
7	L-22 (6-7)																	X		082
8	L-23 (6-7)																	X		083
9	M-20 (6-7)																	X		084
10	M-21 (6-7)																	X		085
11	M-22 (6-7)																	X		086
12	M-23 (6-7)																	X		087

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)
	DENNY MATHEOU / KB	9/25/08	15:40	[illegible] / Pace	9/25/08	15:40				
	[illegible] Pace	9/25/08	16:15	J Moore	9/25	1615	24	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: DENNY MATHEOU
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/24/08

*Impo[illegible]e: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month fo[illegible] [illegible]oices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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1163210

Section A Required Client Information:
Company: Kelly Buck
Address: Cleveland, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC
Site Location STATE: NC

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): Analysis Test Y/N; LAKE 10 from each; JAR from Composite + run PCBs; Keep 10 in original JAR + Half

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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	N-20 (1-2)	SL	G	9/24/08				1	1	X								X		088
2	N-21 (1-2)																	X		089
3	N-22 (1-2)																	X		090
4	N-23 (1-2)																	X		091
5	O-20 (1-2)																	X		092
6	O-21 (1-2)																	X		093
7	O-22 (1-2)																	X		094
8	O-23 (1-2)																	X		095
9	P-18 (0-0.5)			9/24/08														X		096
10	P-19 (0-0.5)																	X		097
11	Q-20 (0-0.5)																	X		098
12																				

013 014 015

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/25/08	15:40	R.B. Smith / Pace	9/24/08	15:40				
	R.B. Smith / Pace	9/24/08	16:15	J Moore	9/25	1615	2.6	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: Andrew Street
DATE Signed (MM/DD/YY): 9/25/08

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

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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1163236

Section A Required Client Information:

Company: Kelly - Buck
Address: Cleveland, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes - Vulcan REE
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REE

Site Location STATE: NC

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): Analysis Test Y/N — TAKE 1/2 form each; TAR Form composite & run PCBs; Keep lab in original TAR + HOLD

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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (9228686)
1	N-20 (3-4)	SL	G	9/24/08					1	X										099
2	N-21 (3-4)																			100
3	N-22 (3-4)																			101
4	N-23 (3-4)																			102
5	O-20 (3-4)																			103
6	O-21 (3-4)																			104
7	O-22 (3-4)																			105
8	O-23 (3-4)																			106
9	P-18 (0.5-1.5)			9/25/08																107
10	P-19 (0.5-1.5)																			108
11	P-20 (0.5-1.5)																			109
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Andrew Street / KB	9/25/08	15:40	RG Vaughn / Pace	9/25	15:40
	RG Vaughn / Pace	9/25/08	16:15	J Moore	9/25	16:52

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 9/25/08

*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

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1163237

Section A Required Client Information:

Company: Kelly-Buck
Address: Cleveland, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER RBC

Site Location STATE: NC

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

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	TAKE ½ from each	JAR Form Composite + Run PCB's	Keep ½ in Cooler 3	JAR + Hold	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	N-20 (4-5)	SL	G	9/24/08					1	X											X			110
2	N-21 (4-5)																		☒		X			111
3	N-22 (4-5)																				X			112
4	N-23 (4-5)																				X			113
5	O-20 (4-5)																				X			114
6	O-21 (4-5)																		☒		X			115
7	O-22 (4-5)																				X			116
8	O-23 (4-5)																				X			117
9	P-18 (1.5-2.5)			9/25/08																	X			118
10	P-19 (1.5-2.5)																		☒		X			119
11	Q-20 (1.5-2.5)																				X			120
12																								

92286860

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Andrew Street / KB	9/25/08	15:40	[illegible] / Pace	9/25/08	15:40
	[illegible] / Pace	9/25/08	16:15	J Moore	9/25	1615

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 9/25/08

ORIGINAL

*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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1163238

Section A Required Client Information:

Company: Kelly-Buck
Address: Cleveland, OH
Email To: mike.lyden@miningring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copos-Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): TAKE 1/2 from each CAP Form Composite CERCLA PCB's; Keep 1/2 in original JAR + HOLD

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	N-20 (5-6)	SL	G					1	1	X										121
2	N-21 (5-6)																			122
3	N-22 (5-6)																			123
4	N-23 (5-6)																			124
5	O-20 (5-6)																			125
6	O-21 (5-6)																			126
7	O-22 (5-6)																			127
8	O-23 (5-6)																			128
9	P-18 (2.5-3.5)																			129
10	P-19 (2.5-3.5)																			130
11	Q-20 (2.5-3.5)																			131
12																				

023 022 024 023

92281686

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	Andrew Street / KB	9/25/08	15:40	[illegible] / Pace	9/25/08	15:40			
	[illegible] / Pace	9/25/08	16:15	J Moore	9/25	1605	2.6	Y	N	Y

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/25/08

ORIGINAL

*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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Page: 10 of 10

1163239

Section A Required Client Information:

Company: Kelly Buck
Address: Cleveland, OH
Email To: mike.lylen@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: CODES-Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N: HOLD

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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (92028686)
1	N-20 (6-7)	SL	G						1	X								X		132
2	N-21 (6-7)																	X		133
3	N-22 (6-7)																	X		134
4	N-23 (6-7)																	X		135
5	O-20 (6-7)																	X		136
6	O-21 (6-7)																	X		137
7	O-22 (6-7)																	X		138
8	O-23 (6-7)																	X		139
9	P-18 (3.5-4.5)																	X		140
10	P-19 (3.5-4.5)																	X		141
11	Q-20 (3.5-4.5)																	X		142
12																				

025 026 027

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/25/08	15:40	[illegible] / Pace	9/25/08	15:40				
	[illegible] / Pace	9/25/08	16:15	J Moore	9/25	1615	2.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [illegible] Street
DATE Signed (MM/DD/YY): 9/25/08

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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Kelly Project # 92286

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Optional
Proj. Due Date: N/A
Proj. Name: N/A

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used T060 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature: 2.6 Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: MM 9/26

Temp should be above freezing to 6°C

		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 Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	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.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
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)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): N/A		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] Date: 9/26/08

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)

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www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 05, 2009

Mr. Mike Lyden
Kelly Buck Company
2130 Superior Ave
Suite 3A
Cleveland, OH 44114

RE: Project: COPES VULCAN-REC
Pace Project No.: 9228778

Dear Mr. Lyden:
Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Bonnie McKee

Bonnie McKee

bonnie.mckee@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Charlotte Certification IDs

West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
Connecticut Certification #: PH-0104

Asheville Certification IDs

West Virginia Certification #: 356
Virginia Certification #: 00072
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095
Florida/NELAP Certification #: E87648
Connecticut Certification #: PH-0106

Eden Certification IDs

Virginia Drinking Water Certification #: 00424
North Carolina Wastewater Certification #: 633
North Carolina Drinking Water Certification #: 37738

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9228778001	L-N-O-19 (0-2)	Solid	09/25/08 00:00	09/26/08 16:55
9228778002	L-M-N-O-18 (0-0.5)	Solid	09/25/08 00:00	09/26/08 16:55
9228778003	JK18-JK19 (0-2)	Solid	09/25/08 00:00	09/26/08 16:55
9228778004	L-N-O-19 (2-4)	Solid	09/25/08 00:00	09/26/08 16:55
9228778005	L-M-N-O-18 (0.5-1.5)	Solid	09/25/08 00:00	09/26/08 16:55
9228778006	JK18-JK19 (2-4)	Solid	09/25/08 00:00	09/26/08 16:55
9228778007	L-N-O-19 (4-6)	Solid	09/25/08 00:00	09/26/08 16:55
9228778008	L-M-N-O-18 (1.5-2.5)	Solid	09/25/08 00:00	09/26/08 16:55
9228778009	JK18-JK19 (4-6)	Solid	09/25/08 00:00	09/26/08 16:55
9228778010	L-0-19 (6-8)	Solid	09/25/08 00:00	09/26/08 16:55
9228778011	L-M-N-O-18 (2.5-3.5)	Solid	09/25/08 00:00	09/26/08 16:55
9228778012	JK18-JK19 (6-8)	Solid	09/25/08 00:00	09/26/08 16:55
9228778016	L-19 (0-2)	Solid	09/25/08 00:00	09/26/08 16:55
9228778017	N-19 (0-2)	Solid	09/25/08 00:00	09/26/08 16:55
9228778018	O-19 (0-2)	Solid	09/25/08 00:00	09/26/08 16:55
9228778019	L-18 (0-0.5)	Solid	09/25/08 00:00	09/26/08 16:55
9228778023	J-18 (0-2)	Solid	09/25/08 00:00	09/26/08 16:55
9228778024	K-18 (0-2)	Solid	09/25/08 00:00	09/26/08 16:55
9228778025	J-19 (0-2)	Solid	09/25/08 00:00	09/26/08 16:55
9228778026	K-19 (0-2)	Solid	09/25/08 00:00	09/26/08 16:55

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SAMPLE ANALYTE COUNT

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9228778001	L-N-O-19 (0-2)	ASTM D2974-87	CLW	1
		EPA 8082	JEM	8
9228778002	L-M-N-O-18 (0-0.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778003	JK18-JK19 (0-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778004	L-N-O-19 (2-4)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778005	L-M-N-O-18 (0.5-1.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778006	JK18-JK19 (2-4)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778007	L-N-O-19 (4-6)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778008	L-M-N-O-18 (1.5-2.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778009	JK18-JK19 (4-6)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778010	L-0-19 (6-8)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778011	L-M-N-O-18 (2.5-3.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778012	JK18-JK19 (6-8)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778016	L-19 (0-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778017	N-19 (0-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778018	O-19 (0-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778019	L-18 (0-0.5)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778023	J-18 (0-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778024	K-18 (0-2)	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228778025	J-19 (0-2)	ASTM D2974-87	TNM	1

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SAMPLE ANALYTE COUNT

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8082	JEM	8
9228778026	**K-19 (0-2)**	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: L-N-O-19 (0-2) **Lab ID: 9228778001** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.1	9.7	1	10/01/08 00:00	10/02/08 19:26	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.1	18.2	1	10/01/08 00:00	10/02/08 19:26	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.1	18.2	1	10/01/08 00:00	10/02/08 19:26	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.1	18.2	1	10/01/08 00:00	10/02/08 19:26	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.1	18.2	1	10/01/08 00:00	10/02/08 19:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**2560**	ug/kg	803	365	20	10/01/08 00:00	10/07/08 11:43	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.1	6.1	1	10/01/08 00:00	10/02/08 19:26	11096-82-5	
Decachlorobiphenyl (S)	60	%	50-150		1	10/01/08 00:00	10/02/08 19:26	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.8**	%	0.10	0.10	1		09/30/08 19:59		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: L-M-N-O-18 (0-0.5) **Lab ID: 9228778002** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.1	8.7	1	10/01/08 00:00	10/02/08 19:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.1	16.4	1	10/01/08 00:00	10/02/08 19:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.1	16.4	1	10/01/08 00:00	10/02/08 19:40	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.1	16.4	1	10/01/08 00:00	10/02/08 19:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.1	16.4	1	10/01/08 00:00	10/02/08 19:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**628**	ug/kg	72.2	32.8	2	10/01/08 00:00	10/07/08 11:57	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	36.1	5.5	1	10/01/08 00:00	10/02/08 19:40	11096-82-5	
Decachlorobiphenyl (S)	56	%	50-150		1	10/01/08 00:00	10/02/08 19:40	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.5**	%	0.10	0.10	1		10/01/08 10:15		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: JK18-JK19 (0-2) **Lab ID: 9228778003** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.0	9.4	1	10/01/08 00:00	10/02/08 19:54	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.0	17.7	1	10/01/08 00:00	10/02/08 19:54	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.0	17.7	1	10/01/08 00:00	10/02/08 19:54	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.0	17.7	1	10/01/08 00:00	10/02/08 19:54	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.0	17.7	1	10/01/08 00:00	10/02/08 19:54	12672-29-6	
PCB-1254 (Aroclor 1254)	**5180**	ug/kg	1950	886	50	10/01/08 00:00	10/07/08 12:12	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.0	5.9	1	10/01/08 00:00	10/02/08 19:54	11096-82-5	
Decachlorobiphenyl (S)	50	%	50-150		1	10/01/08 00:00	10/02/08 19:54	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.3**	%	0.10	0.10	1		10/01/08 10:15		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: L-N-O-19 (2-4) **Lab ID: 9228778004** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.4	10.3	1	10/01/08 00:00	10/02/08 20:07	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.4	19.3	1	10/01/08 00:00	10/02/08 20:07	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.4	19.3	1	10/01/08 00:00	10/02/08 20:07	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.4	19.3	1	10/01/08 00:00	10/02/08 20:07	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.4	19.3	1	10/01/08 00:00	10/02/08 20:07	12672-29-6	
PCB-1254 (Aroclor 1254)	**139**	ug/kg	42.4	19.3	1	10/01/08 00:00	10/02/08 20:07	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.4	6.4	1	10/01/08 00:00	10/02/08 20:07	11096-82-5	
Decachlorobiphenyl (S)	54	%	50-150		1	10/01/08 00:00	10/02/08 20:07	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.1**	%	0.10	0.10	1		10/01/08 10:16		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: L-M-N-O-18 (0.5-1.5) **Lab ID: 9228778005** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.0	9.7	1	10/01/08 00:00	10/02/08 20:21	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.0	18.2	1	10/01/08 00:00	10/02/08 20:21	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.0	18.2	1	10/01/08 00:00	10/02/08 20:21	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.0	18.2	1	10/01/08 00:00	10/02/08 20:21	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.0	18.2	1	10/01/08 00:00	10/02/08 20:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**9450**	ug/kg	2000	910	50	10/01/08 00:00	10/07/08 12:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.0	6.1	1	10/01/08 00:00	10/02/08 20:21	11096-82-5	
Decachlorobiphenyl (S)	57	%	50-150		1	10/01/08 00:00	10/02/08 20:21	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.6**	%	0.10	0.10	1		10/01/08 10:16		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: JK18-JK19 (2-4) **Lab ID: 9228778006** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.7	10.1	1	10/01/08 00:00	10/02/08 20:34	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.7	19.0	1	10/01/08 00:00	10/02/08 20:34	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.7	19.0	1	10/01/08 00:00	10/02/08 20:34	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.7	19.0	1	10/01/08 00:00	10/02/08 20:34	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.7	19.0	1	10/01/08 00:00	10/02/08 20:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**131**	ug/kg	41.7	19.0	1	10/01/08 00:00	10/02/08 20:34	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.7	6.3	1	10/01/08 00:00	10/02/08 20:34	11096-82-5	
Decachlorobiphenyl (S)	57	%	50-150		1	10/01/08 00:00	10/02/08 20:34	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.9**	%	0.10	0.10	1		10/01/08 10:16		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: L-N-O-19 (4-6) **Lab ID: 9228778007** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.8	10.6	1	10/01/08 00:00	10/02/08 20:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.8	19.9	1	10/01/08 00:00	10/02/08 20:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.8	19.9	1	10/01/08 00:00	10/02/08 20:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.8	19.9	1	10/01/08 00:00	10/02/08 20:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.8	19.9	1	10/01/08 00:00	10/02/08 20:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	43.8	19.9	1	10/01/08 00:00	10/02/08 20:48	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.8	6.6	1	10/01/08 00:00	10/02/08 20:48	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	10/01/08 00:00	10/02/08 20:48	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**24.6**	%	0.10	0.10	1		10/15/08 15:16		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: L-M-N-O-18 (1.5-2.5) **Lab ID: 9228778008** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.5	10.1	1	10/01/08 00:00	10/02/08 21:01	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.5	18.8	1	10/01/08 00:00	10/02/08 21:01	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.5	18.8	1	10/01/08 00:00	10/02/08 21:01	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.5	18.8	1	10/01/08 00:00	10/02/08 21:01	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.5	18.8	1	10/01/08 00:00	10/02/08 21:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**8880**	ug/kg	829	377	20	10/01/08 00:00	10/07/08 14:29	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.5	6.3	1	10/01/08 00:00	10/02/08 21:01	11096-82-5	
Decachlorobiphenyl (S)	50	%	50-150		1	10/01/08 00:00	10/02/08 21:01	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.4**	%	0.10	0.10	1		10/01/08 15:24		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: JK18-JK19 (4-6) **Lab ID: 9228778009** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.5	10.3	1	10/01/08 00:00	10/02/08 21:15	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.5	19.3	1	10/01/08 00:00	10/02/08 21:15	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.5	19.3	1	10/01/08 00:00	10/02/08 21:15	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.5	19.3	1	10/01/08 00:00	10/02/08 21:15	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.5	19.3	1	10/01/08 00:00	10/02/08 21:15	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	42.5	19.3	1	10/01/08 00:00	10/02/08 21:15	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.5	6.4	1	10/01/08 00:00	10/02/08 21:15	11096-82-5	
Decachlorobiphenyl (S)	50	%	50-150		1	10/01/08 00:00	10/02/08 21:15	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.3**	%	0.10	0.10	1		10/01/08 15:25		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: L-0-19 (6-8) **Lab ID: 9228778010** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.4	10.3	1	10/01/08 00:00	10/02/08 21:29	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.4	19.3	1	10/01/08 00:00	10/02/08 21:29	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.4	19.3	1	10/01/08 00:00	10/02/08 21:29	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.4	19.3	1	10/01/08 00:00	10/02/08 21:29	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.4	19.3	1	10/01/08 00:00	10/02/08 21:29	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	42.4	19.3	1	10/01/08 00:00	10/02/08 21:29	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.4	6.4	1	10/01/08 00:00	10/02/08 21:29	11096-82-5	
Decachlorobiphenyl (S)	62	%	50-150		1	10/01/08 00:00	10/02/08 21:29	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.2**	%	0.10	0.10	1		10/01/08 15:25		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: L-M-N-O-18 (2.5-3.5) **Lab ID: 9228778011** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.6	10.1	1	10/01/08 00:00	10/02/08 21:42	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.6	18.9	1	10/01/08 00:00	10/02/08 21:42	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.6	18.9	1	10/01/08 00:00	10/02/08 21:42	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.6	18.9	1	10/01/08 00:00	10/02/08 21:42	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.6	18.9	1	10/01/08 00:00	10/02/08 21:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**35.1J**	ug/kg	41.6	18.9	1	10/01/08 00:00	10/02/08 21:42	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.6	6.3	1	10/01/08 00:00	10/02/08 21:42	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	10/01/08 00:00	10/02/08 21:42	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.7**	%	0.10	0.10	1		10/01/08 15:25		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: JK18-JK19 (6-8) **Lab ID: 9228778012** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.8	10.4	1	10/01/08 00:00	10/02/08 21:56	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.8	19.5	1	10/01/08 00:00	10/02/08 21:56	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.8	19.5	1	10/01/08 00:00	10/02/08 21:56	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.8	19.5	1	10/01/08 00:00	10/02/08 21:56	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.8	19.5	1	10/01/08 00:00	10/02/08 21:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**30.7J**	ug/kg	42.8	19.5	1	10/01/08 00:00	10/02/08 21:56	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.8	6.5	1	10/01/08 00:00	10/02/08 21:56	11096-82-5	
Decachlorobiphenyl (S)	72	%	50-150		1	10/01/08 00:00	10/02/08 21:56	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.0**	%	0.10	0.10	1		10/01/08 15:25		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: L-19 (0-2) **Lab ID: 9228778016** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	185	44.8	5	12/29/08 00:00	12/31/08 20:55	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	185	84.1	5	12/29/08 00:00	12/31/08 20:55	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	185	84.1	5	12/29/08 00:00	12/31/08 20:55	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	185	84.1	5	12/29/08 00:00	12/31/08 20:55	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	185	84.1	5	12/29/08 00:00	12/31/08 20:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**1670**	ug/kg	185	84.1	5	12/29/08 00:00	12/31/08 20:55	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	185	28.0	5	12/29/08 00:00	12/31/08 20:55	11096-82-5	
Decachlorobiphenyl (S)	0	%	50-150		5	12/29/08 00:00	12/31/08 20:55	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.8**	%	0.10	0.10	1		12/24/08 08:47		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: N-19 (0-2) **Lab ID: 9228778017** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	786	190	20	12/29/08 00:00	12/31/08 21:38	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	786	357	20	12/29/08 00:00	12/31/08 21:38	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	786	357	20	12/29/08 00:00	12/31/08 21:38	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	786	357	20	12/29/08 00:00	12/31/08 21:38	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	786	357	20	12/29/08 00:00	12/31/08 21:38	12672-29-6	
PCB-1254 (Aroclor 1254)	**4820**	ug/kg	786	357	20	12/29/08 00:00	12/31/08 21:38	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	786	119	20	12/29/08 00:00	12/31/08 21:38	11096-82-5	
Decachlorobiphenyl (S)	0	%	50-150		20	12/29/08 00:00	12/31/08 21:38	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.0**	%	0.10	0.10	1		12/24/08 08:47		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: O-19 (0-2) **Lab ID: 9228778018** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	211	51.0	5	12/29/08 00:00	12/31/08 21:51	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	211	95.7	5	12/29/08 00:00	12/31/08 21:51	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	211	95.7	5	12/29/08 00:00	12/31/08 21:51	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	211	95.7	5	12/29/08 00:00	12/31/08 21:51	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	211	95.7	5	12/29/08 00:00	12/31/08 21:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**504**	ug/kg	211	95.7	5	12/29/08 00:00	12/31/08 21:51	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	211	31.9	5	12/29/08 00:00	12/31/08 21:51	11096-82-5	
Decachlorobiphenyl (S)	0	%	50-150		5	12/29/08 00:00	12/31/08 21:51	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.6**	%	0.10	0.10	1		12/24/08 08:48		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: L-18 (0-0.5) **Lab ID: 9228778019** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	173	42.0	5	12/29/08 00:00	12/31/08 22:05	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	173	78.8	5	12/29/08 00:00	12/31/08 22:05	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	173	78.8	5	12/29/08 00:00	12/31/08 22:05	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	173	78.8	5	12/29/08 00:00	12/31/08 22:05	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	173	78.8	5	12/29/08 00:00	12/31/08 22:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**544**	ug/kg	173	78.8	5	12/29/08 00:00	12/31/08 22:05	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	173	26.3	5	12/29/08 00:00	12/31/08 22:05	11096-82-5	
Decachlorobiphenyl (S)	0	%	50-150		5	12/29/08 00:00	12/31/08 22:05	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.8**	%	0.10	0.10	1		12/24/08 08:48		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: J-18 (0-2) **Lab ID: 9228778023** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	2060	499	50	12/29/08 00:00	12/31/08 22:19	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	2060	935	50	12/29/08 00:00	12/31/08 22:19	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	2060	935	50	12/29/08 00:00	12/31/08 22:19	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	2060	935	50	12/29/08 00:00	12/31/08 22:19	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	2060	935	50	12/29/08 00:00	12/31/08 22:19	12672-29-6	
PCB-1254 (Aroclor 1254)	**6510**	ug/kg	2060	935	50	12/29/08 00:00	12/31/08 22:19	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	2060	312	50	12/29/08 00:00	12/31/08 22:19	11096-82-5	
Decachlorobiphenyl (S)	0	%	50-150		50	12/29/08 00:00	12/31/08 22:19	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.8**	%	0.10	0.10	1		12/24/08 08:48		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: K-18 (0-2) **Lab ID: 9228778024** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	1710	415	50	12/29/08 00:00	12/31/08 22:33	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1710	778	50	12/29/08 00:00	12/31/08 22:33	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1710	778	50	12/29/08 00:00	12/31/08 22:33	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1710	778	50	12/29/08 00:00	12/31/08 22:33	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1710	778	50	12/29/08 00:00	12/31/08 22:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**13200**	ug/kg	1710	778	50	12/29/08 00:00	12/31/08 22:33	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	1710	259	50	12/29/08 00:00	12/31/08 22:33	11096-82-5	
Decachlorobiphenyl (S)	0	%	50-150		50	12/29/08 00:00	12/31/08 22:33	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.6**	%	0.10	0.10	1		12/24/08 08:48		

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ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: J-19 (0-2) **Lab ID: 9228778025** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.3	8.8	1	12/29/08 00:00	12/31/08 22:47	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.3	16.5	1	12/29/08 00:00	12/31/08 22:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.3	16.5	1	12/29/08 00:00	12/31/08 22:47	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.3	16.5	1	12/29/08 00:00	12/31/08 22:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.3	16.5	1	12/29/08 00:00	12/31/08 22:47	12672-29-6	
PCB-1254 (Aroclor 1254)	**35.6J**	ug/kg	36.3	16.5	1	12/29/08 00:00	12/31/08 22:47	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	36.3	5.5	1	12/29/08 00:00	12/31/08 22:47	11096-82-5	
Decachlorobiphenyl (S)	58	%	50-150		1	12/29/08 00:00	12/31/08 22:47	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.1**	%	0.10	0.10	1		12/24/08 08:49		

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

Sample: K-19 (0-2) **Lab ID: 9228778026** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	724	176	20	12/29/08 00:00	12/31/08 23:01	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	724	329	20	12/29/08 00:00	12/31/08 23:01	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	724	329	20	12/29/08 00:00	12/31/08 23:01	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	724	329	20	12/29/08 00:00	12/31/08 23:01	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	724	329	20	12/29/08 00:00	12/31/08 23:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**3650**	ug/kg	724	329	20	12/29/08 00:00	12/31/08 23:01	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	724	110	20	12/29/08 00:00	12/31/08 23:01	11096-82-5	
Decachlorobiphenyl (S)	0	%	50-150		20	12/29/08 00:00	12/31/08 23:01	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.9**	%	0.10	0.10	1		12/24/08 08:49		

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QUALITY CONTROL DATA

Project: COPES VULCAN-REC
Pace Project No.: 9228778

QC Batch: PMST/1959
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228778001

SAMPLE DUPLICATE: 174682

Parameter	Units	9228689029 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.8	19.8	.2	25	

SAMPLE DUPLICATE: 174683

Parameter	Units	9228778001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.8	18.6	5	25	

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QUALITY CONTROL DATA

Project: COPES VULCAN-REC
Pace Project No.: 9228778

QC Batch: PMST/1962 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228778002, 9228778003, 9228778004, 9228778005, 9228778006

SAMPLE DUPLICATE: 175027

Parameter	Units	9228778002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.5	8.5	.6	25	

SAMPLE DUPLICATE: 175028

Parameter	Units	9228779023 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.6	23.6	4	25	

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QUALITY CONTROL DATA

Project: COPES VULCAN-REC
Pace Project No.: 9228778

QC Batch: PMST/1963 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228778008, 9228778009, 9228778010, 9228778011, 9228778012

SAMPLE DUPLICATE: 175131

Parameter	Units	9228768009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.3	16.3	.02	25	

SAMPLE DUPLICATE: 175132

Parameter	Units	9228779134 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.5	6.3	14	25	

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QUALITY CONTROL DATA

Project: COPES VULCAN-REC
Pace Project No.: 9228778

QC Batch: OEXT/4564 — Analysis Method: EPA 8082
QC Batch Method: EPA 3546 — Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9228778001, 9228778002, 9228778003, 9228778004, 9228778005, 9228778006, 9228778007, 9228778008, 9228778009, 9228778010, 9228778011, 9228778012

METHOD BLANK: 176065 — Matrix: Solid
Associated Lab Samples: 9228778001, 9228778002, 9228778003, 9228778004, 9228778005, 9228778006, 9228778007, 9228778008, 9228778009, 9228778010, 9228778011, 9228778012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	10/02/08 18:05	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	10/02/08 18:05	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	10/02/08 18:05	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	10/02/08 18:05	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	10/02/08 18:05	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	10/02/08 18:05	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	10/02/08 18:05	
Decachlorobiphenyl (S)	%	80	50-150	10/02/08 18:05	

LABORATORY CONTROL SAMPLE: 176066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	122	73	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	106	63	50-150	
Decachlorobiphenyl (S)	%			79	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 176067 176068

Parameter	Units	9228686026 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				117	101				14	30	
PCB-1260 (Aroclor 1260)	ug/kg				90.1	69.8				25	30	
Decachlorobiphenyl (S)	%						113	97	50-150			

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QUALITY CONTROL DATA

Project: COPES VULCAN-REC
Pace Project No.: 9228778

QC Batch: PMST/2012
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228778007

SAMPLE DUPLICATE: 182634

Parameter	Units	9228778007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	24.6	24.4	1	25	

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QUALITY CONTROL DATA

Project: COPES VULCAN-REC
Pace Project No.: 9228778

QC Batch: PMST/2164 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228778016, 9228778017, 9228778018, 9228778019, 9228778023, 9228778024, 9228778025, 9228778026

SAMPLE DUPLICATE: 216434

Parameter	Units	9228778016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.8	10.9	.7	25	

SAMPLE DUPLICATE: 216436

Parameter	Units	9234554001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.0	12.9	1	25	

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QUALITY CONTROL DATA

Project: COPES VULCAN-REC
Pace Project No.: 9228778

QC Batch: OEXT/5455 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9228778016, 9228778017, 9228778018, 9228778019, 9228778023, 9228778024, 9228778025, 9228778026

METHOD BLANK: 217442 Matrix: Solid
Associated Lab Samples: 9228778016, 9228778017, 9228778018, 9228778019, 9228778023, 9228778024, 9228778025, 9228778026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	12/31/08 20:28	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	12/31/08 20:28	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	12/31/08 20:28	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	12/31/08 20:28	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	12/31/08 20:28	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	12/31/08 20:28	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	12/31/08 20:28	
Decachlorobiphenyl (S)	%	84	50-150	12/31/08 20:28	

LABORATORY CONTROL SAMPLE: 217443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	115	69	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	119	72	50-150	
Decachlorobiphenyl (S)	%			86	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 217444 217445

Parameter	Units	9228778016 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	187	187	158	230	84	123	50-150	37	30	R2
PCB-1260 (Aroclor 1260)	ug/kg	ND	187	187	1490	1410	796	756	50-150	5	30	1g
Decachlorobiphenyl (S)	%						59	50	50-150			

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: COPES VULCAN-REC
Pace Project No.: 9228778

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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ANALYTE QUALIFIERS

1g	The PCB spike recovery was outside acceptance limits for the MS and/or MSD due to high Aroclor concentration. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
R2	RPD value was outside control limits due to matrix interference
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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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 5

: 1163211

Section A Required Client Information:

Company: Kelly Buck
Address: Cleveland, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes Vulcan - REC
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #: 1563-3

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

Requested Analysis Filtered (Y/N)

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

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	TAKE 1/2 from each STAR Form Composite & Run PORS	Keep 1/2 in original jar + Hold	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9228778
1	L-19 (0-2)	SL	G	9/25/08				1	1	X									X			9228778 001/016
2	N-19 (0-2)																		X	X		017
3	O-19 (0-2)																		X	X		018
4	L-18 (0-0.5)																		X	X		002/019
5	M-18 (0-0.5)																		X	X		020
6	N-18 (0-0.5)																		X	X		021
7	O-18 (0-0.5)																		X	X		022
8	J-18 (0-2)																		X	X		003/023
9	K-18 (0-2)																		X	X		024
10	J-19 (0-2)																		X	X		025
11	K-19 (0-2)																		X	X		026
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Andrew Street / KB	9/26/08		George Moody - Pace	9-26-08	15:10	
	George Moody	9-26-08	16:55	[illegible]	9/26	1655	40 4 N 4

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/26/08

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

ORIGINAL

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1163232

Section A Required Client Information:

Company: KELLY BUCK
Address: CLEVELAND, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: COPES-VULCAN - REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): TAKE 1/2 FROM EACH JAR, FORM COMPOSITE & RUN RBS; KEEP 1/2 IN ORIGINAL JAR & HOLD

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED 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	TAKE 1/2 FROM EACH JAR, FORM COMPOSITE & RUN RBS	KEEP 1/2 IN ORIGINAL JAR & HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	L-19 (2-4)	SL	G	9/25/08					1	X										X		9228778 004/027
2	N-19 (2-4)																		X	X		028
3	O-19 (2-4)																			X		029
4	L-18 (0.5-1.5)																			X		005/030
5	M-18 (0.5-1.5)																		X	X		031
6	N-18 (0.5-1.5)																			X		032
7	O-18 (0.5-1.5)																			X		033
8	J-18 ~~(0.5)~~ (2-4)																			X		~~006~~/034
9	K-18 ~~(0.5)~~ (2-4)																		X	X		035
10	J-19 (2-4)																			X		036
11	K-19 (2-4)																			X		037
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street/KB	9/26/08		George Moody - Pace	9-26-08	15:10				
	George Moody	9-26-08	16:55	J Moore	9/26	1655	4.0	4	N	4

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: Andrew Street
DATE Signed (MM/DD/YY): 9/26/08

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

ORIGINAL

*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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1163233

Section A Required Client Information:

Company: KELLY-BUCK
Address: CLEVELAND, OH
Email To: mikelyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: COPES-VULCAN REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Test 1 — TAKE 1/2 FROM EACH JAR FOR A COMPOSITE & RUN PCB'S; KEEP 1/2 AT ORIGINAL JAR & HOLD

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	Test 1 (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	L-19 (4-6)	SL	G	9/25/08					1	X								X		9228778 007/038
2	N-19 (4-6)																	X		039
3	O-19 (4-6)																	X		040
4	L-18 (1.5-2.5)																	X		008/041
5	M-18 (1.5-2.5)																	X		042
6	N-18 (1.5-2.5)																	X		043
7	O-18 (1.5-2.5)																	X		044
8	J-18 (4-6)																	X		009/045
9	K-18 (4-6)																	X		046
10	J-19 (4-6)																	X		047
11	K-19 (4-6)																	X		048
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/26/08		Mary Moody-Pace	9-26-08	15:10				
	Mary Moody	9-26-08	16:55	[illegible]	9/26	1655	4.0	4	N	4

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/26/08

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 on 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: 4 of 5

1163234

Section A Required Client Information:

Company: KELLY-BUCK
Address: CLEVELAND, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: COPES-VULCAN REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N — TAKE ½ FROM EACH JAR, FORM COMPOSITE & RUN PCBs; KEEP ½ JAR IN ORIGINAL JAR & HOLD

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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	L-19 (6-8)	SL	G	9/25/08				1	1	X								X		9228778 010/049
2	L-19 (6-8)																	X		050
3	O-19 (6-8)																	X		051
4	L-18 (2.5-3.5)																	X		011/052
5	M-18 (2.5-3.5)																	X		053
6	N-18 (2.5-3.5)																	X		054
7	O-18 (2.5-3.5)																	X		055
8	J-18 (6-8)																	X		012/056
9	K-18 (6-8)																	X		057
10	J-19 (6-8)																	X		058
11	K-19 (6-8)																	X		059
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Andrew Street / KB	9/26/08		Geary Moody - Pace	9-26-08	15:10	
	Geary Moody	9-26-08	16:55	[illegible]	9/26	11055	4.0 4 D 4

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/26/08

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

ORIGINAL

*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 on 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: 5 of 5

1163235

Section A Required Client Information:

Company: KELLY-BOCK
Address: CLEVELAND, OH
Email To: mike.tyson@minkspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: COPES-VULCAN REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Y/N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED 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	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
1	L-19 (8-10)	SL	G	9/25/08				1	1	X								HOLD X		9228778 ~~013~~/060
2	N-19 (8-10)																	X		061
3	O-19 (8-10)																	X		062
4	L-18 (3.5-4.5)																	X		~~014~~/063
5	M-18 (3.5-4.5)																	X		064
6	N-18 (3.5-4.5)																	X		065
7	O-18 (3.5-4.5)																	X		066
8	J-18 (8-10)																	X		~~015~~/067
9	K-18 (8-10)																	X		068
10	J-19 (8-10)																	X		069
11	K-19 (8-10)																	X		070
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/26/08		Jacqy Moody - Pace	9-26-08	15:10				
	Jacqy Moody	9-26-08	16:55	SMore	9/26	1655	9.0	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/26/08

*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 [illegible] invoices not paid within 30 days.

F-ALL-Q-020rev.07, [illegible]y-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Kellu Project # 9228778

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Optional: Proj. Due Date: N/A Proj. Name: N/A

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used T060 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature: 4.0 Biological Tissue is Frozen: Yes No N/A Date and initials of person examining contents: MMGC

Temp should be above freezing to 6°C

		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 Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	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.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
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)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): N/A		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: BLM Date: 9-29-08

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)

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Huntersville, NC 28078
(704)875-9092

October 29, 2008

Mr. Mike Lyden
Kelly Buck Company
2130 Superior Ave
Suite 3A
Cleveland, OH 44114

RE: Project: COPES - VULCAN
Pace Project No.: 9228779

Dear Mr. Lyden:
Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Renee Spencer

Renee Spencer for
Bonnie McKee
bonnie.mckee@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: COPES - VULCAN
Pace Project No.: 9228779

Charlotte Certification IDs

Connecticut Certification Number: PH-0104
Pennsylvania Certification Number: 68-00784
West Virginia Certification Number: 357
Virginia Certification Number: 00213
Tennessee Certification Number: 04010
South Carolina Drinking Water Cert. Number: 990060003
South Carolina Certification Number: 990060001
North Carolina Field Services Certification Number: 5342
North Carolina Wastewater Certification Number: 12
North Carolina Drinking Water Certification Number: 37706
Louisiana/LELAP Certification Number: 04034
Kentucky UST Certification Number: 84
New Jersey Certification Number: NC012
Florida/NELAP Certification Number: E87627

Asheville Certification IDs

Connecticut Certification Number: PH-0106
Massachusetts Certification Number: M-NC030
West Virginia Certification Number: 356
Virginia Certification Number: 00072
Tennessee Certification Number: 2980
South Carolina Bioassay Certification Number: 99030002
South Carolina Certification Number: 99030001
Pennsylvania Certification Number: 68-03578
North Carolina Bioassay Certification Number: 9
North Carolina Wastewater Certification Number: 40
North Carolina Drinking Water Certification Number: 37712
New Jersey Certification Number: NC011
Louisiana/LELAP Certification Number: 03095
Florida/NELAP Certification Number: E87648

Eden Certification IDs

Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633
North Carolina Drinking Water Certification Number: 37738

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: COPES - VULCAN
Pace Project No.: 9228779

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9228779001	F-10-13 0-0.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779002	F-14-17 0-0.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779003	F-10-13 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779004	F-14-F17 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779005	G-10-13 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779006	F-10-13 1.5-2.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779007	F-14-17 1.5-2.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779008	G-10-13 1.5-2.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779009	F-10-13 2.5-3.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779010	F-14-17 2.5-3.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779011	G-10-13 2.5-3.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779012	G-14-17 0-0.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779013	H-14-17 0-0.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779014	I-18-19 0-2	Solid	09/25/08 00:00	09/26/08 16:55
9228779015	G-14-17 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779016	H-14-17 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779017	I-18-19 2.4	Solid	09/25/08 00:00	09/26/08 16:55
9228779018	G-14-17 1.5-2.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779019	H14-17 1.5-2.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779020	I-18-19 4-6	Solid	09/25/08 00:00	09/26/08 16:55
9228779021	G-14-17 2.5-3.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779022	H-14-17 2.5-3.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779023	I-18-19 6-8	Solid	09/25/08 00:00	09/26/08 16:55
9228779040	F-14 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779041	F-15 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779042	F-16 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779043	F-17 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779094	G-14 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779095	G-15 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779096	G-16 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779097	G-17 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779098	H-14 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779099	H-15 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779100	H-16 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779101	H-17 0.5-1.5	Solid	09/25/08 00:00	09/26/08 16:55
9228779134	G10,12,13 0-0.5	Solid	09/25/08 00:00	09/26/08 16:55

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Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: COPES - VULCAN
Pace Project No.: 9228779

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9228779001	F-10-13 0-0.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779002	F-14-17 0-0.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779003	F-10-13 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779004	F-14-F17 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779005	G-10-13 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779006	F-10-13 1.5-2.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9228779007	F-14-17 1.5-2.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
		EPA 8260	DLK	15
9228779008	G-10-13 1.5-2.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779009	F-10-13 2.5-3.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779010	F-14-17 2.5-3.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779011	G-10-13 2.5-3.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779012	G-14-17 0-0.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779013	H-14-17 0-0.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779014	I-18-19 0-2	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779015	G-14-17 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779016	H-14-17 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779017	I-18-19 2.4	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779018	G-14-17 1.5-2.5	ASTM D2974-87	TNM	1

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SAMPLE ANALYTE COUNT

Project: COPES - VULCAN
Pace Project No.: 9228779

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8082	JEM	8
9228779019	H14-17 1.5-2.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779020	I-18-19 4-6	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779021	G-14-17 2.5-3.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779022	H-14-17 2.5-3.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779023	I-18-19 6-8	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779040	F-14 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779041	F-15 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779042	F-16 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779043	F-17 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779094	G-14 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779095	G-15 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779096	G-16 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779097	G-17 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779098	H-14 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779099	H-15 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779100	H-16 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779101	H-17 0.5-1.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8
9228779134	G10,12,13 0-0.5	ASTM D2974-87	TNM	1
		EPA 8082	JEM	8

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: F-10-13 0-0.5 **Lab ID: 9228779001** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.6	8.9	1	10/01/08 00:00	10/02/08 22:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.6	16.6	1	10/01/08 00:00	10/02/08 22:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.6	16.6	1	10/01/08 00:00	10/02/08 22:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.6	16.6	1	10/01/08 00:00	10/02/08 22:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.6	16.6	1	10/01/08 00:00	10/02/08 22:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**249**	ug/kg	36.6	16.6	1	10/01/08 00:00	10/02/08 22:09	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	36.6	5.5	1	10/01/08 00:00	10/02/08 22:09	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	10/01/08 00:00	10/02/08 22:09	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.8**	%	0.10	0.10	1		10/01/08 09:47		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: F-14-17 0-0.5 **Lab ID: 9228779002** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.3	8.3	1	10/01/08 00:00	10/02/08 22:23	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.3	15.6	1	10/01/08 00:00	10/02/08 22:23	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.3	15.6	1	10/01/08 00:00	10/02/08 22:23	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.3	15.6	1	10/01/08 00:00	10/02/08 22:23	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.3	15.6	1	10/01/08 00:00	10/02/08 22:23	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	34.3	15.6	1	10/01/08 00:00	10/02/08 22:23	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	34.3	5.2	1	10/01/08 00:00	10/02/08 22:23	11096-82-5	
Decachlorobiphenyl (S)	61	%	50-150		1	10/01/08 00:00	10/02/08 22:23	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.8**	%	0.10	0.10	1		10/01/08 09:50		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: F-10-13 0.5-1.5 **Lab ID: 9228779003** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.6	9.4	1	10/01/08 00:00	10/02/08 22:36	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.6	17.5	1	10/01/08 00:00	10/02/08 22:36	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.6	17.5	1	10/01/08 00:00	10/02/08 22:36	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.6	17.5	1	10/01/08 00:00	10/02/08 22:36	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.6	17.5	1	10/01/08 00:00	10/02/08 22:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**1770**	ug/kg	386	175	10	10/01/08 00:00	10/07/08 12:54	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.6	5.8	1	10/01/08 00:00	10/02/08 22:36	11096-82-5	
Decachlorobiphenyl (S)	76	%	50-150		1	10/01/08 00:00	10/02/08 22:36	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.5**	%	0.10	0.10	1		10/01/08 09:50		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: F-14-F17 0.5-1.5 **Lab ID: 9228779004** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.8	9.9	1	10/01/08 00:00	10/02/08 22:50	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.8	18.6	1	10/01/08 00:00	10/02/08 22:50	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.8	18.6	1	10/01/08 00:00	10/02/08 22:50	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.8	18.6	1	10/01/08 00:00	10/02/08 22:50	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.8	18.6	1	10/01/08 00:00	10/02/08 22:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**57700**	ug/kg	4080	1860	100	10/01/08 00:00	10/07/08 13:08	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.8	6.2	1	10/01/08 00:00	10/02/08 22:50	11096-82-5	
Decachlorobiphenyl (S)	56	%	50-150		1	10/01/08 00:00	10/02/08 22:50	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.2**	%	0.10	0.10	1		10/01/08 09:50		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: G-10-13 0.5-1.5 **Lab ID: 9228779005** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.5	9.6	1	10/01/08 00:00	10/02/08 23:04	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.5	17.9	1	10/01/08 00:00	10/02/08 23:04	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.5	17.9	1	10/01/08 00:00	10/02/08 23:04	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.5	17.9	1	10/01/08 00:00	10/02/08 23:04	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.5	17.9	1	10/01/08 00:00	10/02/08 23:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**4110**	ug/kg	987	448	25	10/01/08 00:00	10/07/08 13:23	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.5	6.0	1	10/01/08 00:00	10/02/08 23:04	11096-82-5	
Decachlorobiphenyl (S)	52	%	50-150		1	10/01/08 00:00	10/02/08 23:04	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.4**	%	0.10	0.10	1		10/01/08 09:51		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: F-10-13 1.5-2.5 **Lab ID: 9228779006** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.0	9.7	1	10/01/08 00:00	10/02/08 23:17	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.0	18.2	1	10/01/08 00:00	10/02/08 23:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.0	18.2	1	10/01/08 00:00	10/02/08 23:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.0	18.2	1	10/01/08 00:00	10/02/08 23:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.0	18.2	1	10/01/08 00:00	10/02/08 23:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**577**	ug/kg	80.0	36.4	2	10/01/08 00:00	10/07/08 13:37	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.0	6.1	1	10/01/08 00:00	10/02/08 23:17	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	10/01/08 00:00	10/02/08 23:17	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	125	30.0	25		10/02/08 23:31	71-43-2	
2-Butanone (MEK)	ND	ug/L	250	70.0	25		10/02/08 23:31	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		10/02/08 23:31	56-23-5	
Chlorobenzene	ND	ug/L	125	25.0	25		10/02/08 23:31	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		10/02/08 23:31	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	125	30.0	25		10/02/08 23:31	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		10/02/08 23:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		10/02/08 23:31	75-35-4	
Tetrachloroethene	ND	ug/L	125	47.5	25		10/02/08 23:31	127-18-4	
Trichloroethene	ND	ug/L	125	25.0	25		10/02/08 23:31	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		10/02/08 23:31	75-01-4	
1,2-Dichloroethane-d4 (S)	108	%	79-120		25		10/02/08 23:31	17060-07-0	
Toluene-d8 (S)	110	%	70-120		25		10/02/08 23:31	2037-26-5	
4-Bromofluorobenzene (S)	98	%	87-109		25		10/02/08 23:31	460-00-4	
Dibromofluoromethane (S)	108	%	85-115		25		10/02/08 23:31	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.5**	%	0.10	0.10	1		10/01/08 09:51		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: F-14-17 1.5-2.5 **Lab ID: 9228779007** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.1	9.7	1	10/02/08 00:00	10/06/08 15:37	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.1	18.2	1	10/02/08 00:00	10/06/08 15:37	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.1	18.2	1	10/02/08 00:00	10/06/08 15:37	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.1	18.2	1	10/02/08 00:00	10/06/08 15:37	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.1	18.2	1	10/02/08 00:00	10/06/08 15:37	12672-29-6	
PCB-1254 (Aroclor 1254)	**4530**	ug/kg	1000	456	25	10/02/08 00:00	10/07/08 23:04	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.1	6.1	1	10/02/08 00:00	10/06/08 15:37	11096-82-5	
Decachlorobiphenyl (S)	51	%	50-150		1	10/02/08 00:00	10/06/08 15:37	2051-24-3	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	125	30.0	25		10/02/08 23:50	71-43-2	
2-Butanone (MEK)	**128J**	ug/L	250	70.0	25		10/02/08 23:50	78-93-3	
Carbon tetrachloride	ND	ug/L	125	67.5	25		10/02/08 23:50	56-23-5	
Chlorobenzene	ND	ug/L	125	25.0	25		10/02/08 23:50	108-90-7	
Chloroform	ND	ug/L	125	50.0	25		10/02/08 23:50	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	125	30.0	25		10/02/08 23:50	106-46-7	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		10/02/08 23:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	85.0	25		10/02/08 23:50	75-35-4	
Tetrachloroethene	**119J**	ug/L	125	47.5	25		10/02/08 23:50	127-18-4	
Trichloroethene	**101J**	ug/L	125	25.0	25		10/02/08 23:50	79-01-6	
Vinyl chloride	ND	ug/L	125	47.5	25		10/02/08 23:50	75-01-4	
1,2-Dichloroethane-d4 (S)	112	%	79-120		25		10/02/08 23:50	17060-07-0	
Toluene-d8 (S)	110	%	70-120		25		10/02/08 23:50	2037-26-5	
4-Bromofluorobenzene (S)	98	%	87-109		25		10/02/08 23:50	460-00-4	
Dibromofluoromethane (S)	109	%	85-115		25		10/02/08 23:50	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.8**	%	0.10	0.10	1		10/01/08 09:51		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: G-10-13 1.5-2.5 **Lab ID: 9228779008** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.4	9.1	1	10/02/08 00:00	10/06/08 15:51	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.4	17.0	1	10/02/08 00:00	10/06/08 15:51	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.4	17.0	1	10/02/08 00:00	10/06/08 15:51	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.4	17.0	1	10/02/08 00:00	10/06/08 15:51	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.4	17.0	1	10/02/08 00:00	10/06/08 15:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**104**	ug/kg	37.4	17.0	1	10/02/08 00:00	10/06/08 15:51	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.4	5.7	1	10/02/08 00:00	10/06/08 15:51	11096-82-5	
Decachlorobiphenyl (S)	55	%	50-150		1	10/02/08 00:00	10/06/08 15:51	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.8**	%	0.10	0.10	1		10/01/08 09:52		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: F-10-13 2.5-3.5 **Lab ID: 9228779009** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.9	9.7	1	10/02/08 00:00	10/06/08 16:06	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.9	18.2	1	10/02/08 00:00	10/06/08 16:06	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.9	18.2	1	10/02/08 00:00	10/06/08 16:06	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.9	18.2	1	10/02/08 00:00	10/06/08 16:06	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.9	18.2	1	10/02/08 00:00	10/06/08 16:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**954**	ug/kg	200	90.8	5	10/02/08 00:00	10/07/08 23:18	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.9	6.1	1	10/02/08 00:00	10/06/08 16:06	11096-82-5	
Decachlorobiphenyl (S)	54	%	50-150		1	10/02/08 00:00	10/06/08 16:06	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.4**	%	0.10	0.10	1		10/01/08 10:16		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: F-14-17 2.5-3.5 **Lab ID: 9228779010** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.5	10.5	1	10/02/08 00:00	10/06/08 16:20	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.5	19.8	1	10/02/08 00:00	10/06/08 16:20	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.5	19.8	1	10/02/08 00:00	10/06/08 16:20	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.5	19.8	1	10/02/08 00:00	10/06/08 16:20	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.5	19.8	1	10/02/08 00:00	10/06/08 16:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**1930**	ug/kg	435	198	10	10/02/08 00:00	10/07/08 23:32	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.5	6.6	1	10/02/08 00:00	10/06/08 16:20	11096-82-5	
Decachlorobiphenyl (S)	52	%	50-150		1	10/02/08 00:00	10/06/08 16:20	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**24.1**	%	0.10	0.10	1		10/01/08 10:17		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: G-10-13 2.5-3.5 **Lab ID: 9228779011** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.4	10.0	1	10/02/08 00:00	10/06/08 16:34	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.4	18.8	1	10/02/08 00:00	10/06/08 16:34	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.4	18.8	1	10/02/08 00:00	10/06/08 16:34	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.4	18.8	1	10/02/08 00:00	10/06/08 16:34	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.4	18.8	1	10/02/08 00:00	10/06/08 16:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**7520**	ug/kg	2070	941	50	10/02/08 00:00	10/07/08 23:47	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.4	6.3	1	10/02/08 00:00	10/06/08 16:34	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	10/02/08 00:00	10/06/08 16:34	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.3**	%	0.10	0.10	1		10/01/08 10:17		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: G-14-17 0-0.5 **Lab ID: 9228779012** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.4	8.6	1	10/02/08 00:00	10/06/08 16:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.4	16.1	1	10/02/08 00:00	10/06/08 16:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.4	16.1	1	10/02/08 00:00	10/06/08 16:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.4	16.1	1	10/02/08 00:00	10/06/08 16:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.4	16.1	1	10/02/08 00:00	10/06/08 16:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**11100**	ug/kg	1770	806	50	10/02/08 00:00	10/08/08 00:01	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	35.4	5.4	1	10/02/08 00:00	10/06/08 16:48	11096-82-5	
Decachlorobiphenyl (S)	52	%	50-150		1	10/02/08 00:00	10/06/08 16:48	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.9**	%	0.10	0.10	1		10/01/08 10:19		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: H-14-17 0-0.5 **Lab ID: 9228779013** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.5	8.4	1	10/02/08 00:00	10/06/08 17:03	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.5	15.7	1	10/02/08 00:00	10/06/08 17:03	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.5	15.7	1	10/02/08 00:00	10/06/08 17:03	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.5	15.7	1	10/02/08 00:00	10/06/08 17:03	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.5	15.7	1	10/02/08 00:00	10/06/08 17:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**6440**	ug/kg	1730	785	50	10/02/08 00:00	10/08/08 00:15	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	34.5	5.2	1	10/02/08 00:00	10/06/08 17:03	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	10/02/08 00:00	10/06/08 17:03	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.5**	%	0.10	0.10	1		10/01/08 10:19		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: I-18-19 0-2 **Lab ID: 9228779014** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.0	10.2	1	10/02/08 00:00	10/06/08 17:17	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.0	19.1	1	10/02/08 00:00	10/06/08 17:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.0	19.1	1	10/02/08 00:00	10/06/08 17:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.0	19.1	1	10/02/08 00:00	10/06/08 17:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.0	19.1	1	10/02/08 00:00	10/06/08 17:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**84.2**	ug/kg	42.0	19.1	1	10/02/08 00:00	10/06/08 17:17	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.0	6.4	1	10/02/08 00:00	10/06/08 17:17	11096-82-5	
Decachlorobiphenyl (S)	85	%	50-150		1	10/02/08 00:00	10/06/08 17:17	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.4**	%	0.10	0.10	1		10/01/08 10:20		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: G-14-17 0.5-1.5 **Lab ID: 9228779015** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.1	9.2	1	10/02/08 00:00	10/06/08 17:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.1	17.3	1	10/02/08 00:00	10/06/08 17:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.1	17.3	1	10/02/08 00:00	10/06/08 17:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.1	17.3	1	10/02/08 00:00	10/06/08 17:31	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.1	17.3	1	10/02/08 00:00	10/06/08 17:31	12672-29-6	
PCB-1254 (Aroclor 1254)	**135000**	ug/kg	19000	8650	500	10/02/08 00:00	10/08/08 00:29	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.1	5.8	1	10/02/08 00:00	10/06/08 17:31	11096-82-5	
Decachlorobiphenyl (S)	85	%	50-150		1	10/02/08 00:00	10/06/08 17:31	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.3**	%	0.10	0.10	1		10/01/08 10:20		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: H-14-17 0.5-1.5 **Lab ID: 9228779016** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.5	9.8	1	10/02/08 00:00	10/06/08 17:45	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.5	18.4	1	10/02/08 00:00	10/06/08 17:45	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.5	18.4	1	10/02/08 00:00	10/06/08 17:45	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.5	18.4	1	10/02/08 00:00	10/06/08 17:45	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.5	18.4	1	10/02/08 00:00	10/06/08 17:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**296000**	ug/kg	20200	9200	500	10/02/08 00:00	10/08/08 00:43	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.5	6.1	1	10/02/08 00:00	10/06/08 17:45	11096-82-5	
Decachlorobiphenyl (S)	64	%	50-150		1	10/02/08 00:00	10/06/08 17:45	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.5**	%	0.10	0.10	1		10/01/08 10:20		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: I-18-19 2.4 **Lab ID: 9228779017** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.3	10.3	1	10/02/08 00:00	10/06/08 17:59	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.3	19.2	1	10/02/08 00:00	10/06/08 17:59	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.3	19.2	1	10/02/08 00:00	10/06/08 17:59	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.3	19.2	1	10/02/08 00:00	10/06/08 17:59	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.3	19.2	1	10/02/08 00:00	10/06/08 17:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**114**	ug/kg	42.3	19.2	1	10/02/08 00:00	10/06/08 17:59	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.3	6.4	1	10/02/08 00:00	10/06/08 17:59	11096-82-5	
Decachlorobiphenyl (S)	74	%	50-150		1	10/02/08 00:00	10/06/08 17:59	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.0**	%	0.10	0.10	1		10/01/08 10:21		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: G-14-17 1.5-2.5 **Lab ID: 9228779018** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.0	10.4	1	10/02/08 00:00	10/06/08 18:13	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.0	19.5	1	10/02/08 00:00	10/06/08 18:13	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.0	19.5	1	10/02/08 00:00	10/06/08 18:13	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.0	19.5	1	10/02/08 00:00	10/06/08 18:13	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.0	19.5	1	10/02/08 00:00	10/06/08 18:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**34000**	ug/kg	8600	3910	200	10/02/08 00:00	10/08/08 00:57	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.0	6.5	1	10/02/08 00:00	10/06/08 18:13	11096-82-5	
Decachlorobiphenyl (S)	64	%	50-150		1	10/02/08 00:00	10/06/08 18:13	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.2**	%	0.10	0.10	1		10/01/08 10:21		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: H14-17 1.5-2.5 **Lab ID: 9228779019** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.5	10.1	1	10/02/08 00:00	10/06/08 18:27	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.5	18.9	1	10/02/08 00:00	10/06/08 18:27	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.5	18.9	1	10/02/08 00:00	10/06/08 18:27	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.5	18.9	1	10/02/08 00:00	10/06/08 18:27	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.5	18.9	1	10/02/08 00:00	10/06/08 18:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**13500**	ug/kg	4150	1890	100	10/02/08 00:00	10/08/08 01:11	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.5	6.3	1	10/02/08 00:00	10/06/08 18:27	11096-82-5	
Decachlorobiphenyl (S)	60	%	50-150		1	10/02/08 00:00	10/06/08 18:27	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.6**	%	0.10	0.10	1		10/01/08 10:21		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: I-18-19 4-6 **Lab ID: 9228779020** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	43.1	10.4	1	10/02/08 00:00	10/06/08 18:42	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	43.1	19.6	1	10/02/08 00:00	10/06/08 18:42	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	43.1	19.6	1	10/02/08 00:00	10/06/08 18:42	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	43.1	19.6	1	10/02/08 00:00	10/06/08 18:42	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	43.1	19.6	1	10/02/08 00:00	10/06/08 18:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**23.1J**	ug/kg	43.1	19.6	1	10/02/08 00:00	10/06/08 18:42	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	43.1	6.5	1	10/02/08 00:00	10/06/08 18:42	11096-82-5	
Decachlorobiphenyl (S)	78	%	50-150		1	10/02/08 00:00	10/06/08 18:42	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.3**	%	0.10	0.10	1		10/01/08 10:21		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: G-14-17 2.5-3.5 **Lab ID: 9228779021** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.2	10	1	10/02/08 00:00	10/06/08 18:56	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.2	18.7	1	10/02/08 00:00	10/06/08 18:56	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.2	18.7	1	10/02/08 00:00	10/06/08 18:56	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.2	18.7	1	10/02/08 00:00	10/06/08 18:56	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.2	18.7	1	10/02/08 00:00	10/06/08 18:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**524**	ug/kg	41.2	18.7	1	10/02/08 00:00	10/06/08 18:56	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.2	6.2	1	10/02/08 00:00	10/06/08 18:56	11096-82-5	
Decachlorobiphenyl (S)	66	%	50-150		1	10/02/08 00:00	10/06/08 18:56	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.8**	%	0.10	0.10	1		10/01/08 10:21		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: H-14-17 2.5-3.5 **Lab ID: 9228779022** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.6	10.3	1	10/02/08 00:00	10/06/08 19:10	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.6	19.4	1	10/02/08 00:00	10/06/08 19:10	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.6	19.4	1	10/02/08 00:00	10/06/08 19:10	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.6	19.4	1	10/02/08 00:00	10/06/08 19:10	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.6	19.4	1	10/02/08 00:00	10/06/08 19:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**4690**	ug/kg	2130	968	50	10/02/08 00:00	10/08/08 01:25	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.6	6.5	1	10/02/08 00:00	10/06/08 19:10	11096-82-5	
Decachlorobiphenyl (S)	56	%	50-150		1	10/02/08 00:00	10/06/08 19:10	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.5**	%	0.10	0.10	1		10/01/08 10:22		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: I-18-19 6-8 **Lab ID: 9228779023** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.6	10.3	1	10/02/08 00:00	10/06/08 19:52	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.6	19.4	1	10/02/08 00:00	10/06/08 19:52	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.6	19.4	1	10/02/08 00:00	10/06/08 19:52	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.6	19.4	1	10/02/08 00:00	10/06/08 19:52	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.6	19.4	1	10/02/08 00:00	10/06/08 19:52	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	42.6	19.4	1	10/02/08 00:00	10/06/08 19:52	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.6	6.5	1	10/02/08 00:00	10/06/08 19:52	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	10/02/08 00:00	10/06/08 19:52	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.6**	%	0.10	0.10	1		10/01/08 10:22		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: F-14 0.5-1.5 **Lab ID: 9228779040** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.1	9.5	1	10/21/08 00:00	10/23/08 00:13	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.1	17.8	1	10/21/08 00:00	10/23/08 00:13	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.1	17.8	1	10/21/08 00:00	10/23/08 00:13	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.1	17.8	1	10/21/08 00:00	10/23/08 00:13	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.1	17.8	1	10/21/08 00:00	10/23/08 00:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**13100**	ug/kg	3910	1780	100	10/21/08 00:00	10/23/08 13:07	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.1	5.9	1	10/21/08 00:00	10/23/08 00:13	11096-82-5	
Decachlorobiphenyl (S)	70	%	50-150		1	10/21/08 00:00	10/23/08 00:13	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.6**	%	0.10	0.10	1		10/20/08 09:17		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: F-15 0.5-1.5 **Lab ID: 9228779041** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.8	9.9	1	10/21/08 00:00	10/23/08 00:27	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.8	18.5	1	10/21/08 00:00	10/23/08 00:27	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.8	18.5	1	10/21/08 00:00	10/23/08 00:27	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.8	18.5	1	10/21/08 00:00	10/23/08 00:27	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.8	18.5	1	10/21/08 00:00	10/23/08 00:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**21300**	ug/kg	4080	1850	100	10/21/08 00:00	10/23/08 13:21	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.8	6.2	1	10/21/08 00:00	10/23/08 00:27	11096-82-5	
Decachlorobiphenyl (S)	64	%	50-150		1	10/21/08 00:00	10/23/08 00:27	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.1**	%	0.10	0.10	1		10/20/08 09:18		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: F-16 0.5-1.5 **Lab ID: 9228779042** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.3	9.3	1	10/21/08 00:00	10/23/08 00:41	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.3	17.4	1	10/21/08 00:00	10/23/08 00:41	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.3	17.4	1	10/21/08 00:00	10/23/08 00:41	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.3	17.4	1	10/21/08 00:00	10/23/08 00:41	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.3	17.4	1	10/21/08 00:00	10/23/08 00:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**42900**	ug/kg	7650	3480	200	10/21/08 00:00	10/23/08 13:35	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.3	5.8	1	10/21/08 00:00	10/23/08 00:41	11096-82-5	
Decachlorobiphenyl (S)	75	%	50-150		1	10/21/08 00:00	10/23/08 00:41	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.8**	%	0.10	0.10	1		10/20/08 09:18		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: F-17 0.5-1.5 **Lab ID: 9228779043** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.4	8.8	1	10/21/08 00:00	10/23/08 00:55	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.4	16.5	1	10/21/08 00:00	10/23/08 00:55	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.4	16.5	1	10/21/08 00:00	10/23/08 00:55	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.4	16.5	1	10/21/08 00:00	10/23/08 00:55	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.4	16.5	1	10/21/08 00:00	10/23/08 00:55	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	36.4	16.5	1	10/21/08 00:00	10/23/08 00:55	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	36.4	5.5	1	10/21/08 00:00	10/23/08 00:55	11096-82-5	
Decachlorobiphenyl (S)	77	%	50-150		1	10/21/08 00:00	10/23/08 00:55	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.3**	%	0.10	0.10	1		10/20/08 09:18		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: G-14 0.5-1.5 **Lab ID: 9228779094** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.4	9.3	1	10/21/08 00:00	10/23/08 01:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.4	17.5	1	10/21/08 00:00	10/23/08 01:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.4	17.5	1	10/21/08 00:00	10/23/08 01:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.4	17.5	1	10/21/08 00:00	10/23/08 01:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.4	17.5	1	10/21/08 00:00	10/23/08 01:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**2710**	ug/kg	769	350	20	10/21/08 00:00	10/23/08 13:49	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.4	5.8	1	10/21/08 00:00	10/23/08 01:09	11096-82-5	
Decachlorobiphenyl (S)	59	%	50-150		1	10/21/08 00:00	10/23/08 01:09	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.2**	%	0.10	0.10	1		10/20/08 09:19		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: G-15 0.5-1.5 **Lab ID: 9228779095** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.7	8.9	1	10/21/08 00:00	10/23/08 01:23	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.7	16.7	1	10/21/08 00:00	10/23/08 01:23	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.7	16.7	1	10/21/08 00:00	10/23/08 01:23	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.7	16.7	1	10/21/08 00:00	10/23/08 01:23	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.7	16.7	1	10/21/08 00:00	10/23/08 01:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**13400**	ug/kg	3670	1670	100	10/21/08 00:00	10/23/08 14:04	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	36.7	5.6	1	10/21/08 00:00	10/23/08 01:23	11096-82-5	
Decachlorobiphenyl (S)	60	%	50-150		1	10/21/08 00:00	10/23/08 01:23	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.2**	%	0.10	0.10	1		10/20/08 09:19		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: G-16 0.5-1.5 **Lab ID: 9228779096** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.7	9.6	1	10/21/08 00:00	10/23/08 01:37	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.7	18.1	1	10/21/08 00:00	10/23/08 01:37	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.7	18.1	1	10/21/08 00:00	10/23/08 01:37	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.7	18.1	1	10/21/08 00:00	10/23/08 01:37	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.7	18.1	1	10/21/08 00:00	10/23/08 01:37	12672-29-6	
PCB-1254 (Aroclor 1254)	**20600**	ug/kg	3970	1810	100	10/21/08 00:00	10/23/08 14:18	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.7	6.0	1	10/21/08 00:00	10/23/08 01:37	11096-82-5	
Decachlorobiphenyl (S)	57	%	50-150		1	10/21/08 00:00	10/23/08 01:37	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.0**	%	0.10	0.10	1		10/20/08 09:19		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: G-17 0.5-1.5 **Lab ID: 9228779097** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.1	9.0	1	10/21/08 00:00	10/23/08 01:51	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.1	16.9	1	10/21/08 00:00	10/23/08 01:51	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.1	16.9	1	10/21/08 00:00	10/23/08 01:51	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.1	16.9	1	10/21/08 00:00	10/23/08 01:51	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.1	16.9	1	10/21/08 00:00	10/23/08 01:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**174000**	ug/kg	37100	16900	1000	10/21/08 00:00	10/23/08 14:32	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.1	5.6	1	10/21/08 00:00	10/23/08 01:51	11096-82-5	
Decachlorobiphenyl (S)	60	%	50-150		1	10/21/08 00:00	10/23/08 01:51	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.0**	%	0.10	0.10	1		10/20/08 09:19		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: H-14 0.5-1.5 **Lab ID: 9228779098** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.5	8.4	1	10/23/08 00:00	10/28/08 19:08	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.5	15.7	1	10/23/08 00:00	10/28/08 19:08	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.5	15.7	1	10/23/08 00:00	10/28/08 19:08	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.5	15.7	1	10/23/08 00:00	10/28/08 19:08	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.5	15.7	1	10/23/08 00:00	10/28/08 19:08	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	34.5	15.7	1	10/23/08 00:00	10/28/08 19:08	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	34.5	5.2	1	10/23/08 00:00	10/28/08 19:08	11096-82-5	
Decachlorobiphenyl (S)	53	%	50-150		1	10/23/08 00:00	10/28/08 19:08	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.4**	%	0.10	0.10	1		10/20/08 09:19		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: H-15 0.5-1.5 **Lab ID: 9228779099** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	78800	19100	2000	10/23/08 00:00	10/28/08 19:22	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	78800	35800	2000	10/23/08 00:00	10/28/08 19:22	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	78800	35800	2000	10/23/08 00:00	10/28/08 19:22	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	78800	35800	2000	10/23/08 00:00	10/28/08 19:22	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	78800	35800	2000	10/23/08 00:00	10/28/08 19:22	12672-29-6	
PCB-1254 (Aroclor 1254)	**223000**	ug/kg	78800	35800	2000	10/23/08 00:00	10/28/08 19:22	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	78800	11900	2000	10/23/08 00:00	10/28/08 19:22	11096-82-5	
Decachlorobiphenyl (S)	0	%	50-150		2000	10/23/08 00:00	10/28/08 19:22	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.3**	%	0.10	0.10	1		10/20/08 09:20		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: H-16 0.5-1.5 **Lab ID: 9228779100** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	71700	17400	2000	10/23/08 00:00	10/28/08 19:36	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	71700	32600	2000	10/23/08 00:00	10/28/08 19:36	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	71700	32600	2000	10/23/08 00:00	10/28/08 19:36	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	71700	32600	2000	10/23/08 00:00	10/28/08 19:36	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	71700	32600	2000	10/23/08 00:00	10/28/08 19:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**156000**	ug/kg	71700	32600	2000	10/23/08 00:00	10/28/08 19:36	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	71700	10900	2000	10/23/08 00:00	10/28/08 19:36	11096-82-5	
Decachlorobiphenyl (S)	0	%	50-150		2000	10/23/08 00:00	10/28/08 19:36	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.9**	%	0.10	0.10	1		10/20/08 09:35		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: H-17 0.5-1.5 **Lab ID: 9228779101** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	2240	544	50	10/23/08 00:00	10/28/08 19:50	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	2240	1020	50	10/23/08 00:00	10/28/08 19:50	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	2240	1020	50	10/23/08 00:00	10/28/08 19:50	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	2240	1020	50	10/23/08 00:00	10/28/08 19:50	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	2240	1020	50	10/23/08 00:00	10/28/08 19:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**14200**	ug/kg	2240	1020	50	10/23/08 00:00	10/28/08 19:50	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	2240	340	50	10/23/08 00:00	10/28/08 19:50	11096-82-5	
Decachlorobiphenyl (S)	0	%	50-150		50	10/23/08 00:00	10/28/08 19:50	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**26.4**	%	0.10	0.10	1		10/20/08 09:35		

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ANALYTICAL RESULTS

Project: COPES - VULCAN
Pace Project No.: 9228779

Sample: G10,12,13 0-0.5 **Lab ID: 9228779134** Collected: 09/25/08 00:00 Received: 09/26/08 16:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.9	8.5	1	10/02/08 00:00	10/06/08 20:06	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.9	15.9	1	10/02/08 00:00	10/06/08 20:06	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.9	15.9	1	10/02/08 00:00	10/06/08 20:06	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.9	15.9	1	10/02/08 00:00	10/06/08 20:06	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.9	15.9	1	10/02/08 00:00	10/06/08 20:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**4460**	ug/kg	1750	794	50	10/02/08 00:00	10/08/08 01:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	34.9	5.3	1	10/02/08 00:00	10/06/08 20:06	11096-82-5	
Decachlorobiphenyl (S)	50	%	50-150		1	10/02/08 00:00	10/06/08 20:06	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.5**	%	0.10	0.10	1		10/01/08 15:26		

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QUALITY CONTROL DATA

Project: COPES - VULCAN
Pace Project No.: 9228779

QC Batch: PMST/1961 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228779001, 9228779002, 9228779003, 9228779004, 9228779005, 9228779006, 9228779007, 9228779008

SAMPLE DUPLICATE: 175025

Parameter	Units	9228779001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.8	9.8	.07	25	

SAMPLE DUPLICATE: 175026

Parameter	Units	9228806002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.8	18.8	.2	25	

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QUALITY CONTROL DATA

Project: COPES - VULCAN
Pace Project No.: 9228779

QC Batch: PMST/1962 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228779009, 9228779010, 9228779011, 9228779012, 9228779013, 9228779014, 9228779015, 9228779016, 9228779017, 9228779018, 9228779019, 9228779020, 9228779021, 9228779022, 9228779023

SAMPLE DUPLICATE: 175027

Parameter	Units	9228778002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.5	8.5	.6	25	

SAMPLE DUPLICATE: 175028

Parameter	Units	9228779023 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.6	23.6	4	25	

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QUALITY CONTROL DATA

Project: COPES - VULCAN
Pace Project No.: 9228779

QC Batch: PMST/1963
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228779134

SAMPLE DUPLICATE: 175131

Parameter	Units	9228768009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.3	16.3	.02	25	

SAMPLE DUPLICATE: 175132

Parameter	Units	9228779134 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.5	6.3	14	25	

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QUALITY CONTROL DATA

Project: COPES - VULCAN
Pace Project No.: 9228779

QC Batch: OEXT/4564 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9228779001, 9228779002, 9228779003, 9228779004, 9228779005, 9228779006

METHOD BLANK: 176065 Matrix: Solid
Associated Lab Samples: 9228779001, 9228779002, 9228779003, 9228779004, 9228779005, 9228779006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	10/02/08 18:05	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	10/02/08 18:05	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	10/02/08 18:05	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	10/02/08 18:05	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	10/02/08 18:05	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	10/02/08 18:05	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	10/02/08 18:05	
Decachlorobiphenyl (S)	%	80	50-150	10/02/08 18:05	

LABORATORY CONTROL SAMPLE: 176066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	122	73	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	106	63	50-150	
Decachlorobiphenyl (S)	%			79	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 176067 176068

Parameter	Units	9228686026 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				117	101				14	30	
PCB-1260 (Aroclor 1260)	ug/kg				90.1	69.8				25	30	
Decachlorobiphenyl (S)	%						113	97	50-150			

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QUALITY CONTROL DATA

Project: COPES - VULCAN
Pace Project No.: 9228779

QC Batch: MSV/4809 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 9228779006, 9228779007

METHOD BLANK: 176981 | Matrix: Water
Associated Lab Samples: 9228779006, 9228779007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	10/02/08 13:44	
1,2-Dichloroethane	ug/L	ND	5.0	10/02/08 13:44	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/02/08 13:44	
2-Butanone (MEK)	ug/L	ND	10.0	10/02/08 13:44	
Benzene	ug/L	ND	5.0	10/02/08 13:44	
Carbon tetrachloride	ug/L	ND	5.0	10/02/08 13:44	
Chlorobenzene	ug/L	ND	5.0	10/02/08 13:44	
Chloroform	ug/L	ND	5.0	10/02/08 13:44	
Tetrachloroethene	ug/L	ND	5.0	10/02/08 13:44	
Trichloroethene	ug/L	ND	5.0	10/02/08 13:44	
Vinyl chloride	ug/L	ND	5.0	10/02/08 13:44	
1,2-Dichloroethane-d4 (S)	%	98	79-120	10/02/08 13:44	
4-Bromofluorobenzene (S)	%	94	87-109	10/02/08 13:44	
Dibromofluoromethane (S)	%	96	85-115	10/02/08 13:44	
Toluene-d8 (S)	%	109	70-120	10/02/08 13:44	

LABORATORY CONTROL SAMPLE: 176982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	66.3	133	78-146	
1,2-Dichloroethane	ug/L	50	62.1	124	72-126	
1,4-Dichlorobenzene	ug/L	50	58.7	117	79-125	
2-Butanone (MEK)	ug/L	100	125	125	50-134	
Benzene	ug/L	50	61.3	123	78-128	
Carbon tetrachloride	ug/L	50	75.5	151	81-137	L3
Chlorobenzene	ug/L	50	56.2	112	82-126	
Chloroform	ug/L	50	62.2	124	77-129	
Tetrachloroethene	ug/L	50	54.8	110	78-128	
Trichloroethene	ug/L	50	62.0	124	79-127	
Vinyl chloride	ug/L	50	65.7	131	67-143	
1,2-Dichloroethane-d4 (S)	%			111	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			108	85-115	
Toluene-d8 (S)	%			99	70-120	

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QUALITY CONTROL DATA

Project: COPES - VULCAN
Pace Project No.: 9228779

QC Batch: OEXT/4581 — Analysis Method: EPA 8082
QC Batch Method: EPA 3546 — Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9228779007, 9228779008, 9228779009, 9228779010, 9228779011, 9228779012, 9228779013, 9228779014, 9228779015, 9228779016, 9228779017, 9228779018, 9228779019, 9228779020, 9228779021

METHOD BLANK: 177240 — Matrix: Solid
Associated Lab Samples: 9228779007, 9228779008, 9228779009, 9228779010, 9228779011, 9228779012, 9228779013, 9228779014, 9228779015, 9228779016, 9228779017, 9228779018, 9228779019, 9228779020, 9228779021, 9228779022, 9228779023, 9228779134

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	10/06/08 15:09	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	10/06/08 15:09	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	10/06/08 15:09	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	10/06/08 15:09	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	10/06/08 15:09	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	10/06/08 15:09	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	10/06/08 15:09	
Decachlorobiphenyl (S)	%	82	50-150	10/06/08 15:09	

LABORATORY CONTROL SAMPLE: 177241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	198	119	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	144	87	50-150	
Decachlorobiphenyl (S)	%			92	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 177242 177243

Parameter	Units	9228779022 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	216	216	203	208	94	97	50-150	2	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	216	216	1620	6280	751	2920	50-150	118	30	1g,R2
Decachlorobiphenyl (S)	%						50	59	50-150			

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: COPES - VULCAN
Pace Project No.: 9228779

QC Batch: PMST/2025 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9228779040, 9228779041, 9228779042, 9228779043, 9228779094, 9228779095, 9228779096, 9228779097, 9228779098, 9228779099, 9228779100, 9228779101

SAMPLE DUPLICATE: 184658

Parameter	Units	9228779040 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.6	13.7	13	25	

SAMPLE DUPLICATE: 184659

Parameter	Units	9229086091 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.1	11.4	40	25	R1

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: COPES - VULCAN
Pace Project No.: 9228779

QC Batch: OEXT/4767 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9228779040, 9228779041, 9228779042, 9228779043, 9228779094, 9228779095, 9228779096, 9228779097

METHOD BLANK: 185669 Matrix: Solid
Associated Lab Samples: 9228779040, 9228779041, 9228779042, 9228779043, 9228779094, 9228779095, 9228779096, 9228779097

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	10/22/08 20:29	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	10/22/08 20:29	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	10/22/08 20:29	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	10/22/08 20:29	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	10/22/08 20:29	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	10/22/08 20:29	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	10/22/08 20:29	
Decachlorobiphenyl (S)	%	82	50-150	10/22/08 20:29	

LABORATORY CONTROL SAMPLE: 185670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	110	66	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	132	79	50-150	
Decachlorobiphenyl (S)	%			76	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 185671 185672

Parameter	Units	9227814122 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	196	196	134	134	68	68	50-150	.1	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	196	196	126	125	64	64	50-150	.3	30	
Decachlorobiphenyl (S)	%						75	75	50-150			

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: COPES - VULCAN
Pace Project No.: 9228779

QC Batch: OEXT/4790 — Analysis Method: EPA 8082
QC Batch Method: EPA 3546 — Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9228779098, 9228779099, 9228779100, 9228779101

METHOD BLANK: 186647 — Matrix: Solid
Associated Lab Samples: 9228779098, 9228779099, 9228779100, 9228779101

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	10/28/08 12:34	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	10/28/08 12:34	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	10/28/08 12:34	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	10/28/08 12:34	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	10/28/08 12:34	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	10/28/08 12:34	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	10/28/08 12:34	
Decachlorobiphenyl (S)	%	75	50-150	10/28/08 12:34	

LABORATORY CONTROL SAMPLE: 186648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	126	75	50-150	
PCB-1260 (Aroclor 1260)	ug/kg	167	126	76	50-150	
Decachlorobiphenyl (S)	%			85	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 186649 186650

Parameter	Units	9230294002 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	188	188	642	598	342	318	50-150	7	30	1g
PCB-1260 (Aroclor 1260)	ug/kg	ND	188	188	198	180	105	96	50-150	9	30	
Decachlorobiphenyl (S)	%						101	84	50-150			

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: COPES - VULCAN
Pace Project No.: 9228779

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

ANALYTE QUALIFIERS

1g	The PCB spike recovery was outside acceptance limits for the MS and/or MSD due to high Aroclor concentration. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
R1	RPD value was outside control limits.
R2	RPD value was outside control limits due to matrix interference
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 10

1163214

Section A Required Client Information:

Company: Kelly Buck
Address: Cleveland OH
Email To: mike.lyden@[illegible]mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #: 1563-3

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N — TAPE 1a from each TAP from composite RN PCBS; Vap 1a in each TAP + HOLD

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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	F-10 (0-0.5)	SL	G	9/25/08					1	X										24 25
2	F-11 (0-0.5)																	X	001	25 26
3	F-12 (0-0.5)																			26 27
4	F-13 (0-0.5)																			27 28
5	F-14 (0-0.5)																			28 29
6	F-15 (0-0.5)																	X	002	29 30
7	F-16 (0-0.5)																			30 31
8	F-17 (0-0.5)																			31
9	G-10 (0-0.5)																			32
10	G-11 (0-0.5) *																	X	134	33
11	G-12 (0-0.5)																			34
12	G-13 (0-0.5)																			35

Residual Chlorine (Y/N): 928779

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
*Sample was accidently broken upon receipt. BRM	Andrew Street / KB	9/26/08		George Moody Pace	9-26-08	15:10
	George Moody	9-26-08	16:55	[illegible]	9/26	1655

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [illegible] Street
DATE Signed (MM/DD/YY): 9/26/08

ORIGINAL

*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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Page: 2 of 10

1163215

Section A Required Client Information:
Company: Kelly Buck
Address: Cleveland, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test I (Y/N) — SAME 10 ton each; JAR Form; Composite Run PCBs; Read 10 in Analytical; Start & Hold

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 I (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	F-10 (0.5-1.5)	SL	G	9/25/08					1	X								X		36 37
2	F-11 (0.5-1.5)																	X		37 38
3	F-12 (0.5-1.5)																	X		38 39
4	F-13 (0.5-1.5)																	X		39 40
5	F-14 (0.5-1.5)																	X		40 41
6	F-15 (0.5-1.5)																	X		41 42
7	F-16 (0.5-1.5)																	X		42 43
8	F-17 (0.5-1.5)																	X		43 44
9	G-10 (0.5-1.5)																	X		44 45
10	G-11 (0.5-1.5)																	X		45 46
11	G-12 (0.5-1.5)																	X		46
12	G-13 (0.5-1.5)																	X		47

3 4 5

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/26/08		George Moody - Pace	9-26-08	15:10				
	George Moody	9-26-08	16:55	[illegible]	9/26	1655	4.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/26/08

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 [illegible]ces not paid within 30 days.

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1163216

Section A Required Client Information:

Company: Kelly Beck
Address: Cleveland, OH
Email To: mike.lyden@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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 DATE	COLLECTED TIME	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	TAKE Portion from each Jar form Composite + Run PCBs	TAKE Portion from each Jar form Composite + Run TCLP RCRA VOCs	Keep portion original JAR + HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	F-10 (1.5-2.5)	SL	G	9/25/08							1	X												X	48
2	F-11 (1.5-2.5)																				X	X		X	49
3	F-12 (1.5-2.5)																							X	50
4	F-13 (1.5-2.5)																							X	51
5	F-14 (1.5-2.5)																							X	52
6	F-15 (1.5-2.5)																				X	X		X	53
7	F-16 (1.5-2.5)																							X	54
8	F-17 (1.5-2.5)																							X	55
9	G-10 (1.5-2.5)																							X	56
10	G-11 (1.5-2.5)																				X			X	57
11	G-12 (1.5-2.5)																							X	58
12	G-13 (1.5-2.5)																							X	59

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Andrew Street / KB	9/26/08		George Moody - Pace	9-26-08	15:10
	George Moody	9-26-08	16:55	[signature]	9/26	1655

SAMPLE CONDITIONS: Temp in °C: 4.6; Received on Ice (Y/N): Y; Custody Sealed Cooler (Y/N): N; Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/26/08

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1163217

Section A Required Client Information:

Company: Kelly Beck
Address: Cleveland, OH
Email To: mike.lyden@microspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Lopes - Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test (Y/N): MTBE 1/2 Form; Leach JAR Form; Compos. KETRA; PCBs; Keep 1/2 Jar; Bright JAR; Hold

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED 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)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	F-10 (2.5-3.5)	SL	G	9/25/08					1	X										60
2	F-11 (2.5-3.5)																	☒		61
3	F-12 (2.5-3.5)																			62
4	F-13 (2.5-3.5)																			63
5	F-14 (2.5-3.5)																			64
6	F-15 (2.5-3.5)																	☒		65
7	F-16 (2.5-3.5)																			66
8	F-17 (2.5-3.5)																			67
9	G-10 (2.5-3.5)																			68
10	G-11 (2.5-3.5)																	☒		69
11	G-12 (2.5-3.5)																			70
12	G-13 (2.5-3.5)																			71

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/26/08		George Moody - Pace	9-26-08	15:10				
	George Moody	9-26-08	16:55	[illegible]	9/26/08	1655	4.6	4	N	4
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/26/08

*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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1163218

Section A Required Client Information:

Company: Kelly, Buck
Address: Cleveland, OH
Email To: mike.lyden@minspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie-McKee
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

Section D Required Client Information

Matrix Codes: 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

F-10

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)	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	F-10 (3.5-4.5)	SL	G	9/25/08					1	X								X			70
2	F-11 (3.5-4.5)																	X			73
3	F-12 (3.5-4.5)																	X			74
4	F-13 (3.5-4.5)																	X			75
5	F-14 (3.5-4.5)																	X			76
6	F-15 (3.5-4.5)																	X			77
7	F-16 (3.5-4.5)																	X			78
8	F-17 (3.5-4.5)																	X			79
9	G-10 (3.5-4.5)																	X			80
10	G-11 (3.5-4.5)																	X			81
11	G-12 (3.5-4.5)																	X			82
12	G-13 (3.5-4.5)																	X			83

HOLD

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/26/08		George Moody	9-26-08	15:10				
	George Moody	9-26-08	16:55	J Moore	9/26/08	1655	4.6	Y	N	Y

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Street

SIGNATURE of SAMPLER: Andrew Street

DATE Signed (MM/DD/YY): 9/26/08

ORIGINAL

*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

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Page: 6 of 10

1163219

Section A Required Client Information:
Company: Kelly Buck
Address: Cleveland, OH
Email To: mike.lyden@mirkspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC
Site Location STATE: NC

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 DATE	COLLECTED TIME	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	TAKE 1 from each comp. Run PCB's	Keep 1 in original JAR HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	G-14 (0-0.5)	SL	G	9/25/08							1	X												84
2	G-15 (0-0.5)																			X	X	X		85
3	G-16 (0-0.5)																						12	86
4	G-17 (0-0.5)																							87
5	H-14 (0-0.5)																							88
6	H-15 (0-0.5)																			X	X	X	13	89
7	H-16 (0-0.5)																							90
8	H-17 (0-0.5)																							91
9	I-18 (0-2)																			X	X	X	14	92
10	I-19 (0-2)																							93
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	Andrew Street / KB	9/26/08		George Moody Pace	9-26-08 ~~9-26-08~~	15:10 ~~9-26-08~~			
	George Moody	9-26-08	16:53	JMOOD	9/26	1635	4.4	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/26/08

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

ORIGINAL

*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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1163220

Section A Required Client Information:
Company: Kelly Beck
Address: Cleveland, OH
Email To: mike.lyden@mirdspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: Copes Vulcan REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test: SVOC's from each; AR, form composite; Base PCBs; Keep to in each; HOLD

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)								Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	G-14 (0.5-1.5)	SL	G	9/25/08					1	X																	94
2	G-15 (0.5-1.5)																								5		95
3	G-16 (0.5-1.5)																										96
4	G-17 (0.5-1.5)																										97
5	H-14 (0.5-1.5)																										98
6	H-15 (0.5-1.5)																								10		99
7	H-16 (0.5-1.5)																										100
8	H-17 (0.5-1.5)																										101
9	I-18 (2-4)																										102
10	I-19 (2-4)																										103
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/26/08		George Moody - Pace	9-26-08	15:10				
	George Moody	9-26-08	16:55	J Moore	9/26	1655	4.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: Andrew Street
DATE Signed (MM/DD/YY): 9/26/08

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

*Important: 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 [illegible]es not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-[illegible]07

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1163222

Section A Required Client Information:

Company: Kelly Buck
Address: Cleveland, OH
Email To: mike.lyden@minspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N — CLHE 1/2 jar, Leach TAR Jar, Composite + RUN PCB's; Cyan 1/2 jar, Leach TAR, Original TAR, HOLD

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	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	G-14 (1.5-2.5)	SL	G	9/25/08					1	X										104
2	G-15 (1.5-2.5)																	☒ 18		105
3	G-16 (1.5-2.5)																			106
4	G-17 (1.5-2.5)																			107
5	H-14 (1.5-2.5)																			108
6	H-15 (1.5-2.5)																	☒ 19		109
7	H-16 (1.5-2.5)																			110
8	H-17 (1.5-2.5)																			111
9	I-18 (4-6)																	☒ 20		112
10	I-19 (4-6)																			113
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/26/08		George Moody - Pace	9-26-08	15:10				
	George Moody	9-26-08	16:55	Jim Guo	9/26/08	1655	4.6	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: Andrew Street
DATE Signed (MM/DD/YY): 9/26/08

*Important: 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 [illegible]s not paid within 30 days.

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1163223

Section A Required Client Information:
Company: Kelly Buck
Address: Cleveland OH
Email To: mike.lyon@mindspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: Copes-Vulcan REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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): Analysis Test Y/N: TAKE to Lamech; TAS Form (complete); TPH PCB's

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	TAKE to Lamech	TAS Form (complete)	TPH PCB's	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	G-14 (2.5-3.5)	SL	G	9/25/08				1	1	X													114
2	G-15 (2.5-3.5)																		X		01		115
3	G-16 (2.5-3.5)																						116
4	G-17 (2.5-3.5)																						117
5	H-14 (2.5-3.5)																						118
6	H-15 (2.5-3.5)																		X		02		119
7	H-16 (2.5-3.5)																						120
8	H-17 (2.5-3.5)																						121
9	I-18 ~~(2.5-3.5)~~ (6-8)																		X		03		122
10	I-19 ~~(2.5-3.5)~~ (6-8)																						123
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Street / KB	9/26/08		George Moody - Pace	9-26-08	15:10				
	George Moody	9-26-08	16:55	J Moore	9/26	1655	4.6	4	N	4

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: Andrew Street
DATE Signed (MM/DD/YY): 9/26/08

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

*Important: 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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1163224

Section A Required Client Information:
Company: Kelly Buck
Address: Cleveland, OH
Email To: Mike.Lyden@microspring.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: Capes-Vulcan REC
Project Number:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie McKee
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER REC

Site Location STATE: NC

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

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)	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	G-14 (3.5-4.5)	SL	G	9/25/08					1	X								HOLD			24
2	G-15 (3.5-4.5)																				25
3	G-16 (3.5-4.5)																				26
4	G-17 (3.5-4.5)																				27
5	H-14 (3.5-4.5)																				28
6	H-15 (3.5-4.5)																				29
7	H-16 (3.5-4.5)																				30
8	H-17 (3.5-4.5)																				31
9	I-18 (8-10)																				32
10	I-19 (8-10)																				33
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)
	Andrew Street / KB	9/26/08		George Moody Pace	9-26-08	15:10				
	George Moody	9-26-08	16:55	[illegible]	9/26	1655	4.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andrew Street
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 9/26/08

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Kellu Project # 9228779

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Optional:
Proj. Due Date: N/A
Proj. Name: N/A

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used T060 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 4.4 Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: 11/19/26

*Temp should be above freezing to 6°C

		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 Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	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: m9130	☑Yes ☐No ☐N/A	10. 611 (6-0.5) Broken by accident upon receipt.
Filtered volume received for Dissolved tests	☐Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
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)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): N/A		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: BKM Date: 9/29/08

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)