

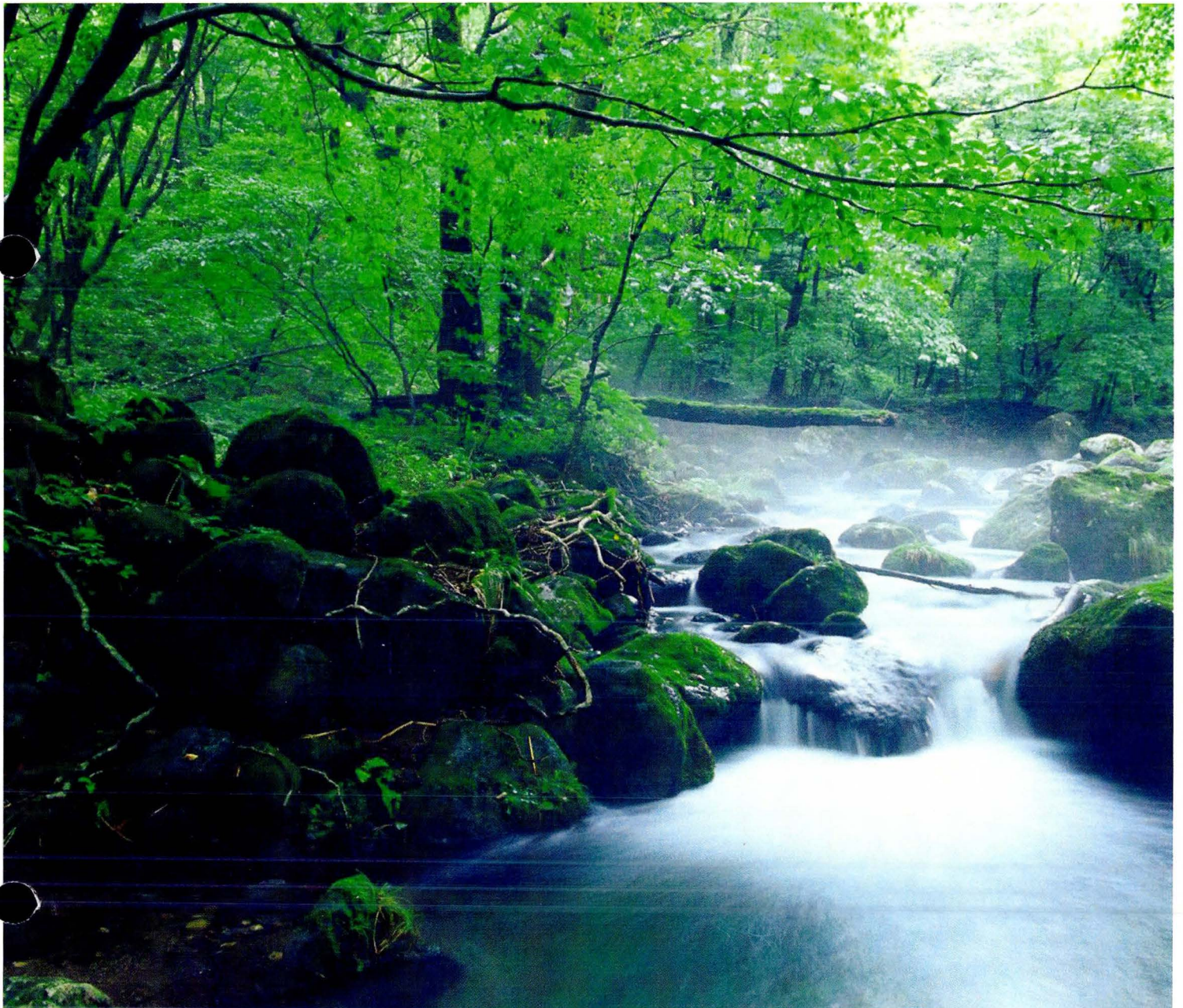


Submitted to:
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Manitowoc, Wisconsin

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Focused Phase II Environmental Site Assessment

Former Koenig & Vits, Inc. Property
2015 Mirro Drive – City of Manitowoc, Manitowoc County,
Wisconsin 53027



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1.0 Introduction

AECOM Environment (AECOM) was retained by Skana Aluminum to conduct a Focused Phase II Environmental Site Assessment (ESA) of the Former Koenig and Vits, Inc. facility located at 2015 Mirro Drive in the City of Manitowoc, Manitowoc County, Wisconsin (subject property). The location of the Subject Property is illustrated on Figure 1. The subject property consists of approximately 131.1 acres of land developed with approximately 575,000 square feet of manufacturing, warehousing, and office space.

This Phase II ESA presents an evaluation of the current subsurface conditions related to the select areas of potential concern identified in AECOM's December 2009 Phase I ESA report. The recognized environmental conditions identified in AECOM's Phase I ESA and the proposed investigative scope for this Phase II ESA include the following:

Area #	ESA Findings	Proposed Investigative Scope
1.	A lead porcelain setting pond and mixing area existed on the property from 1954 until the late 1970's. The settling pond was located northeast of Plant 5-C. This Wisconsin Environmental Repair Program (WI ERP) listing (BRRTS No. 02-35-550138) is currently open. Koenig & Vits submitted a Supplemental Site Investigation Work Plan on July 11, 2008, that called for five additional groundwater monitoring wells and three additional rounds of sampling. It was expected that completion of the supplemental work will allow closure of the site under appropriate industrial land-use restrictions. The WDNR issued a notice of noncompliance to Koenig & Vits, Inc. on January 26, 2009 for failing to proceed with the supplemental work.	Response actions necessary to address this concern have been outlined (and agreed to) by the WDNR. As such, no Phase II investigation is proposed.
2.	Contamination of soil and groundwater from polynuclear aromatic hydrocarbons, chlorinated solvents, arsenic, chromium, and other metals exists on the south-side of the building complex. The source is presumably from sump pits located in the basement of Plant 5-C. This WI ERP listing (BRRTS No. 02-36-544601) is currently open. Koenig & Vits submitted a Supplemental Site Investigation Work Plan on July 11, 2008, that called for five additional groundwater	Response actions necessary to address this concern have been outlined (and agreed to) by the WDNR. As such, no Phase II investigation is proposed.

monitoring wells and three additional rounds of sampling. It was expected that completion of the supplemental work will allow closure of the site under appropriate industrial land-use restrictions. The WDNR issued a notice of noncompliance to Koenig & Vits, Inc. on January 26, 2009 for failing to proceed with the supplemental work.

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| 3. | Reportedly PCB-contaminated materials were buried to the north of the building complex in the late 1970s. This area has not been assessed for possible soil/groundwater contamination. | <ul style="list-style-type: none"> a. Evaluate extent of burial area using a magnetometer. b. Install two groundwater monitoring wells, approximately 10-15 feet east and south of the burial area. c. Analyze soil samples from depths of 4' and immediately above the groundwater table for PAHs, DRO, and PCBs. d. Collect one groundwater sample from each monitoring well for analysis of PCBs and VOCs. |
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| 4. | PCBs from formerly used hydraulic oils have reportedly absorbed into the concrete walls of the oil collection and sump system under the scalper/re-heat oven conveyors. Historically, used oil that resided in the sump for extended periods (greater than one year) would have PCB concentrations exceeding 50 ppm. The sump was pressured washed in 2000. Since 2000, the facility has implemented a plan to remove used oil from the sump every six months. The used oil has reportedly not been analyzed for PCBs since 2000, prior to transport off-site. Remnant hydraulic oil contaminated with PCBs may also exist in other locations within the older portions of the buildings. | <ul style="list-style-type: none"> a. Use an oil-water interface probe to evaluate the potential for oil collection in existing groundwater monitoring wells located immediately surrounding Areas A and B of the building (MW-06.18, MW-06.12, MW-03.01). b. Install three groundwater monitoring wells, approximately 5-10 feet from the building walls, as follows: <ul style="list-style-type: none"> - North of the building (Area A), near the groundwater restriction area and the hot mill exhaust stain - East of the building (Area B) - South of the building (Area B), near the truck bay c. Analyze soil samples from depths of 4' and immediately above the groundwater table for PAHs, DRO, and PCBs. d. Collect one groundwater sample from each new and existing monitoring well for analysis of PCBs and VOCs. |
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5. In May 2002, a chemical washing solution (caustic) leaked under the foundation and discharged to a drainage ditch located along the north side of Plant 5-E (Activity No. 04-36-364051). Contaminated soil from the ditch was removed and placed on the ground surface to the southeast of Plant 5-E. The activity was closed by the WDNR in October 2002. The soil has not been analyzed since deposition in 2002 and has not been removed off-site.	a. Collect one composite soil sample for pH analysis.
6. AECOM observed that large portions of the concrete floor and walls of the basement beneath the hot mill are coated with cooling oil and cooling oil sludge. If there are any cracks in the concrete, the sub-surface could be contaminated.	Evaluation of potential impacts beneath the building will be evaluated in the scope for Item 4., above.
7. AECOM observed that portions of the concrete floor of the basement beneath the cold mill are coated with cooling oil. If there are any cracks in the concrete, the sub-surface could be contaminated.	Evaluation of potential impacts beneath the building will be evaluated in the scope for Item 4., above.
8. AECOM observed staining on the ground beneath the air exhaust vents in the vicinity of the hot roll mill. It is likely that the staining was caused by condensation of hot mill coolant vapor and may also contain metals that may have vaporized during the hot milling process. The stained area was approximately 5 feet by 12 feet and 0.5 inches deep and had stressed the grass (i.e., bare ground was present below the vent).	a. Analyze one soil sample from a depth of 6" for PAHs, DRO, and PCBs. Note that this soil sample will be collected from a boring outlined in Item 4., above.
9. AECOM observed staining on the ground beneath the air exhaust vents located on the north side of Plant 2 to the far west. It is likely that the staining was caused by kerosene associated with the cold mill cooling process. The stained area was approximately 3 feet by 7 feet and had stressed the grass (i.e., bare ground was present below the vent). Mr. Hetland indicated that kerosene had likely been "released" to this area for over 22 years.	a. Analyze one soil sample from a depth of 6" for PAHs, DRO, and PCBs. Note that this soil sample will be collected from a boring outlined in Item 4., above.
10. AECOM observed a clay-like sludge material approximately 30 feet west of the hot mill stains. The material covered an area of	a. Analyze one soil sample from a depth of 6" for PAHs, DRO, and PCBs.

approximately 2 feet by 2 feet.

11.	Remnants of the anodizing system remain in the basement at the south end of Plant 5-C. These tanks contained a variety of chemicals, including phosphoric acid, and were cleaned out in April 2003, but may have released chemicals to the underlying soil and groundwater prior to that date.	Evaluation of potential impacts beneath the building will be evaluated in the scope for item 2., above.
12.	A partially-flooded vault, located beneath a service elevator within the basement area of Plant 5-C, was identified in a site investigation conducted on December 14, 2005. Hydraulic oil may have been released to the subsurface.	Evaluation of potential impacts beneath the building will be evaluated in the scope for item 2., above.
13.	Antifreeze (ethylene and propylene glycol) was used in an underground pipe system to heat the truck docks located at the southwest end of Plants 5-B and 5-F. The use of this system was discontinued several years ago, but deterioration of the pipelines may have resulted in releases to the soil and groundwater in these areas.	<ul style="list-style-type: none"> a. Install one groundwater monitoring well, approximately 10-15 feet southeast of the antifreeze circulation system b. Analyze soil samples from depths of 4' and immediately above the groundwater table for ethylene glycol. c. Collect one groundwater sample from the monitoring well for analysis of ethylene glycol.

1.1 Subject property Location

The subject property is located at 2140 Mirro Drive in the City of Manitowoc, Manitowoc County, Wisconsin and consists of approximately 131.1 acres of land (3 parcels total) developed with approximately 575,000 square feet of manufacturing, warehousing, and office space. The subject property is located east of Mirro Drive and north of Wisconsin Central railroad tracks and is located in a semi-rural area mixed with agricultural, industrial, and residential properties, in the northwest portion of the City of Manitowoc. The location of the Subject Property is illustrated on Figure 1.

The subject property is currently owned by Koenig & Vits, Inc. who recently operated an aluminum rolling mill on a portion of the property. The rolling mill has been shut down since May 2009. A portion of the property is leased to an aluminum cookware manufacturing company (Tramontina U.S. Cookware, Inc.).

1.2 Subject property History

According to the December 2009 Phase I ESA, the subject property has historically consisted of agricultural land since at least 1873. Aluminum Goods Manufacturing Company originally developed the property in 1956 and changed its name to Mirro Aluminum Company in 1957 (Mirrow). Koenig & Vits, Inc. acquired the Mirro manufacturing facility in 2003 and closed its rolling mill operations in May 2009. The facility operated as an aluminum rolling mill during Mirro's and Kowning and Vit's operations. On-

subject property operations included press machines, painting/coating processes, paint lines, buffing processes and warehousing.

In 2006, Tramontina U.S. Cookware (Tramontina) began leasing portions of the larger building on the subject property. Tramontina manufactures aluminum cooking utensils and operates presses, porcelain, silverstone, and Teflon coating lines. Tramontina was present on-site during the Phase II ESA.

1.3 Physical Setting Information

The subject property is located in the City of Manitowoc located northeast of the intersection of Mirro Street and an existing railroad crossing at an elevation of approximately 600 feet above mean sea level. The United States Geological Survey (USGS) 7.5-minute quadrangle map was used to determine general land features in the area of the subject property, to evaluate the local topography, and to estimate shallow groundwater flow direction. The 7.5-minute topographic map of the Two Rivers, Wisconsin, quadrangle (dated 1978) shows the local area topography and surface water features in and around the subject property.

1.3.1 Subject Property Physiography

The topographic map shows the subject property as gently sloping with an approximate elevation of 610 feet above mean sea level (MSL) on the north side of the property and 600 feet above MSL on the southeast side of the property. The local area is generally sloping to the southeast towards Lake Michigan, located approximately 0.5 miles southeast of the subject property.

1.3.2 Geology

The native surficial soils in the vicinity of the subject property consist mainly of the Grandby-Oakville-Tedrow Association. The Grandby-Oakville-Tedrow Association consists of nearly level to sloping, well-drained to poorly drained soils that are dominantly sandy throughout. Specifically, the subject property is mapped as Manawa Silt Loam described as nearly level and gently sloping and somewhat poorly drained (USDA Soil Conservation Service, 1978).

Glacial till deposits found below the surficial soils in the subject property vicinity are mapped as the Valders Member of the Kewaunee Formation. The Valders Member of the Kewaunee Formation contains a pebbly and cobbly, sandy, silty till. The Valders till contains basal glacial till deposited by ice of the Lake Michigan Lobe and associated fluvial and lacustrine deposits (Mickelson, 1984). The underlying bedrock formation is dolomite. The depth to bedrock is anticipated to range between 50 and 100 feet below ground surface. (Trotta, 1973).

1.3.3 Hydrogeology

Regional bedrock groundwater flow in the area is to the east toward Lake Michigan (Skinner and Borman, 1973). In general, the shallow groundwater table is usually a reflection of surface topography, with the flow direction coinciding with the general subject property topography. Groundwater at the subject property is encountered at approximately 3 to 7 feet below grade. Shallow groundwater flow in the area of the subject property is likely to the south-southeast toward Lake Michigan, based on topography and previous investigations reviewed by AECOM. Lake Michigan is located approximately 0.5 miles southeast of the subject property.

2.0 Investigative Scope of Services

2.1 Objective

The purpose of the Focused Phase II ESA investigation was to address the RECs identified in AECOM's December 2009 Phase I ESA report and to evaluate the subsurface conditions in the areas of potential concern. The subsurface investigation was conducted to assess potential impacts to the subject property as part of a potential property transaction.

2.2 Field Activities

A site-specific Health and Safety Plan (in accordance with the Occupational Safety and Health Administration, OSHA 29 CFR 1910) was prepared for the field activities. AECOM reviewed the Health and Safety Plan with all field personnel prior to commencing the field activities. Diggers Hotline was contacted to locate public utilities.

2.2.1 Soil Borings and Groundwater Monitoring Well Installation

On January 4 and 5, 2009, six soil borings (ACM MW-3.1, ACM MW-3.2, ACM MW-4.1, ACM MW-4.2, ACM MW-4.3 and ACM MW-13.1) were advanced on the property, using an all terrain vehicle (ATV) mounted drilling rig. One hand auger (soil boring 9.1) and one composite soil sample were also collected. The boring locations are depicted on Figure 2. The six soil boring, hand auger sample and composite sample were advanced in the vicinity of the areas of concern identified AECOM's December 2009 Phase I ESA report. These areas were identified as follows:

- Area 3 – Suspect PCB Mound (ACM MW-3.1 and 3.2)
- Area 4 - Hot Mill exhaust stain (ACM MW-4.1)
- Area 4 - East side of building (ACM MW-4.2)
- Area 4 - South side of building near truck bay (ACM MW-4.3)
- Area 5 - Composite soil sample from soil stockpile (caustic wash solution spill – composite soil sample)
- Area 9 - Shallow soil sample from below exhaust vent (Soil Boring 9.1 - hand auger sample)
- Area 10 Shallow soil sample from clay-sludge west of Hot Mill stain area (Soil Boring 10.1 – hand auger sample)
- Area 13 - Dock 26 abandoned underground heating system (ACM MW-13.1)

The six soil borings were converted into groundwater monitoring wells in accordance with the WAC Ch. NR 141. The wells were installed to depths of approximately 13.5 feet below grade using 2-inch diameter, Schedule 40 PVC slotted well screen and riser. Soil boring logs are included in Appendix A. Soil boring/groundwater monitoring locations are depicted in Figure 2.

The monitoring wells were developed in accordance with the WAC Ch. NR 141. The purpose of development is to remove residual materials remaining in the wells after installation, and to establish the natural hydraulic flow conditions of the formations that may have been disturbed by the well construction. Each well was purged to remove as much sediment as possible and facilitate a hydraulic connection with the surrounding aquifer. The well construction and development forms are included in Appendix B.

Soil and groundwater samples were collected from the newly installed borings/monitoring wells. Two to three soil samples were collected from each soil boring including a surface sample (0-0.5 feet), one soil sample within the top four feet of the ground surface (direct contact evaluation) and one soil sample from the apparent soil/water table interface.

The existing groundwater monitoring wells were redeveloped by pumping dry several times and allowed to recover prior to collection of groundwater samples.

2.2.2 Magnetic Locator Survey

AECOM used a Chicago Steel Tape (CST) Magna-Trak 100 metal locator to conduct a survey of the reported suspect PCB moved area located northeast of the building. AECOM traversed the suspect drum burial area in approximate 5 foot spacings across the mound area.

2.2.3 Interface Probe Well Survey

AECOM used a Herron H-OIL interface probe to detect the presence of floating or sinking (heavy oils) in four existing monitoring wells (MW-03.03, MW-03.01, MW-06.18 and MW-06.12).

2.3 Sampling and Analysis

2.3.1 Soil

Soil samples collected from each boring were divided for field screening, laboratory analysis, and in-field classification (soil types, moisture, and staining or odors, if any). The portion of each soil sample collected for field-screening was screened for volatile organic compounds (VOCs) using a photoionization detector (PID) equipped with a 10.6 electron volt (eV) electrodeless discharge lamp, calibrated using 100 parts per million (ppm) isobutylene in air span gas.

One to three soil samples were collected from each boring for laboratory analysis. Soil samples were collected from the ground surface (0-0.5 feet), the interval exhibiting the highest concentration (based on PID screening) and/or from immediately above the saturated zone (to assess the potential for groundwater risk). The borings were advanced to depths of approximately 13.5 feet below grade. Copies of the boring logs are included in Appendix A.

Selected soil samples were placed in laboratory-provided containers and submitted to Pace Analytical, a Wisconsin-certified laboratory, for the chemical analysis of polycyclic aromatic hydrocarbons (PAHs, SW-846 Method 8310), diesel-range organics (DRO, Wisconsin Modified Method) and polychlorinated

biphenyls (PCBs, SW-846 Method 8082) (refer to table in Section 1.0). All samples were transferred to the laboratory under standard chain of custody control. Copies of all laboratory analytical reports are included in Appendix C.

2.3.2 Groundwater

Groundwater samples were collected from the six newly installed groundwater monitoring wells (ACM MW-3.1, ACM MW-3.2, ACM MW-4.1, ACM MW-4.2, ACM MW-4.3 and ACM MW-13.1) and from four existing wells installed by others (MW-03.03, MW-03.01, MW-06.18 and MW-06.12).

Ten groundwater samples were collected during this event. The groundwater samples were collected using a peristaltic pump and disposable tubing (low-flow sampling techniques) and were submitted to Pace Analytical, a Wisconsin-certified laboratory for the chemical analysis of VOCs by Method 8260 and PCBs by Method 8082. For quality control purposes, one trip blank sample was analyzed for VOCs, in accordance with the Wisconsin Administrative Code (WAC) Ch. NR 716. No equipment blanks were collected, as only dedicated sampling equipment was utilized for sample collection. All samples were transferred to the laboratory under standard chain of custody control. Copies of laboratory analytical reports are included in Appendix C.

3.0 Investigation Results

3.1.1 Field Observations

Generally, the soil observed during the field investigation consisted of silty clay fill over silty clay and silt to a maximum depth of approximately 13.5 feet below grade (borings termini). Saturated soils were encountered at depths of approximately 4 to 6 feet below grade. Visual or olfactory evidence of contamination (outside of the stained soil areas) was not noted during sample collection or classification. Elevated PID readings were not recorded during field activities.

3.1.2 Analytical Results

3.1.2.1 Soil

The soil analytical results are summarized in Table 1. The concentrations of the constituent of concerns (COCs) detected in the soil samples were compared to the Residual Contaminant Levels (RCLs) listed in the Wisconsin Administrative Code (WAC) NR Ch. 720. RCLs not listed in the WAC NR Ch. 720 were calculated using the United States Environmental Protection Agency (USEPA) Soil Screening Level (SSL) Guidance (with the industrial Wisconsin default values) for the direct contact and the soil to groundwater pathways. The subject property is currently zoned for industrial use.

Area 3 - Based on the laboratory results, soil analytical results from the suspect buried drum area (Area 3) indicate concentrations of DRO at two surface sample locations in that area above laboratory detection limits but generally less than 2.1 mg/kg. PAHs were not detected above laboratory detection limits with the exception of chrysene reported at an estimated concentration of 1.4 ug/kg. There were no detections of PCBs above laboratory detection limits.

Area 4 - Surface soil staining in the area of the Hot Mill exhaust stain (Area 4.1) reported concentrations of DRO at 5,270 mg/kg which exceeds the 250 mg/kg soil to groundwater pathway RCL. Seven PAH compounds were detected above laboratory detection limits but flagged by the laboratory (J flag) as being above the method detection limit and below the reporting limit. Two PCB aroclors were detected above laboratory detection limits including Aroclor 1248 (639 ug/kg) and Aroclor 1254 (1,300 ug/kg).

Deeper soil samples collected from Area 4.1 show a reduction in DRO concentration (33 mg/kg) and PCB concentrations (175 ug/kg and 115 ug/kg, respectively) DRO, PAHs and DRO were not detected in a soil sample collected from the apparent soil/water table interface (ACM MW 4.1, 4-6').

Soil samples collected from the surface and soil/water interface from MW 4.2 show similar results to MW 4.1 in that low concentrations of PCBs, DRO and PAHs were detected in the surface soils but no laboratory detections were present in the deeper, soil/groundwater interface soil sample analyzed.

There were no detections of PCBs, DRO or PAHs reported in the soil samples collected from MW 4.3.

Area 9 - One shallow hand auger collected from an area of surface staining reported concentrations of DRO at 54,800 mg/kg. Three PAH compounds were detected at estimated concentrations above

laboratory detection limits. Only phenanthrene, with a reported concentration of 7,210 ug/kg exceeded its respective soil to groundwater pathway RCL (1,800 ug/kg). One PCB aroclor (Aroclor 1248) was detected above laboratory detection limits (1,260 ug/kg).

Area 10 – Based on observations made during field activities, it was determined that the clay-like sludge observed during the Phase I ESA site reconnaissance was actually bentonite from a past soil boring. As such this material was not sampled as part of this Phase II ESA.

Area 13 – Two soil samples were collected from the surface soil (0-0.5') and the apparent soil/water table interface and analyzed for ethylene glycol. Ethylene glycol was not detected above laboratory detection limits.

Soil Stockpile – One composite soil sample was collected from three sub-soil samples collected from the soil stockpile generated from a cleanup of a caustic spill. The results of the composite sampling indicate the pH of the soil is 7.4.

Copies of the laboratory analytical reports are provided in Appendix C.

3.1.2.2 Groundwater

The groundwater analytical results are summarized in Table 2. Following receipt of laboratory analytical results, the parameter detected in the groundwater samples were compared to the WAC Ch. NR 140 preventive action limits (PAL) and enforcement standards (ES) criteria.

Area 3 Groundwater Wells – PCBs or VOCs were not detected in the groundwater samples collected from ACM MW 3.1 and 3.1 with the exception methylene chloride reported at 0.68 and 0.48 ug/l, respectively. Each sample was "J" flagged by the laboratory as being above the method detection limit and below the reporting limit. Additionally, methylene chloride is a common laboratory artifact.

Area 4 Groundwater Wells – PCBs or VOCs were not detected in the groundwater samples collected from ACM 4.1 and 4.3. Trichloroethene was detected in ACM MW 4.2 above laboratory detection limits (0.75 ug/l) and was "J" flagged by the laboratory. The detection of trichloroethene slightly exceeds the PAL, but is less than the ES. Cis-1,2-dichloroethene was detected in ACM MW 4.2 at a concentration of 5.1 ug/l which is below the PAL of 7.0 ug/l.

As part of Area 4, AECOM collected groundwater samples from four existing monitoring wells (MW-03.03, MW-03.01, MW-06.18 and MW-06.12) present on the subject property. PCBs and VOCs were not detected in existing well MW 03.01. 1-1, dichloroethane was detected in MW 06.18 just above the laboratory detection limit at a reported concentration of 0.78 ug/l ("J" flagged by the laboratory) and is well below the PAL of 85 ug/l.

PCBs were not detected in existing well MW-06.18, however, two VOC compounds (ethylbenzene and xylene) were detected above laboratory detection limits at concentrations of 1.5 and 3.0 ug/l, respectively. The reported concentrations are well below each of the compounds respective PAL.

Area 13 – One groundwater was sampled from ACM MW13.1 and an existing groundwater sample from existing well (MW-South) located south of Plant 5C building. Ethylene glycol was not detected at either well location.

3.1.3 Magnetic Locator Survey

The results of the magnetic locator survey indicate metallic anomalies in an area north of the northeast corner of the Rolling Mill building that corresponds with an area of mounded soil. The metallic anomalies were found in an estimated area of 40 feet by 60 feet.

3.1.4 Interface Probe Well Survey

Existing wells (MW-03.03, MW-03.01, MW-06.18 and MW-06.12) present on the subject property were measured for the presence of floating or heavy oil with an interface probe. Free product was not detected in the existing monitoring wells. In addition, free product was not observed during the installation or sampling of the wells installed as part of the current scope of work.

4.0 Conclusions and Recommendations

Area 3: Low concentrations of diesel range organics (DRO) and one polynuclear aromatic hydrocarbon (PAH) compound were detected in one of four soil samples each. These detections were well below NR 700 WAC Residual Contaminant Levels (RCLs). Groundwater was not impacted above NR140 WAC state groundwater standards (Enforcement Standards or Preventive Action Limits). Based on this data, it does not appear that the suspect PCB-mound area has adversely affected groundwater or soil outside the footprint of the mound. The magnetometer survey identified a metallic anomaly of approximately 40 feet by 60 feet, which coincided with the "mound" observed in the suspect area. Test pits would be required to confirm the source of the anomalies. The contents of the buried materials are unknown.

Area 4: Soil impacted with PCBs was detected in the shallow soil (locations 4.1 and 4.2) near the northeast corner of the building. The deeper soil samples at 4-6 feet below ground surface (bgs) were not impacted indicating the staining was related to a surface release. The soil sample at 4.3 had very low detections of DRO below RCLs. Groundwater was not impacted above state groundwater standards. A limited soil excavation and post-excavation confirmation soil sampling would be required in the two areas around 4.1 and 4.2.

Area 5: The pH in the soil stockpile was 7.4 and no further action is recommended.

Area 9: A shallow soil sample at the northwest corner of the building had elevated concentrations of DRO and PCBs. A limited soil excavation and post-excavation confirmation soil sampling would be required in the two stained areas around 9.1. Groundwater was not impacted above state groundwater standards.

Area 10: Based on visual observations it was apparent that this residual material was bentonite from former soil boring operations. No further action is recommended.

Area 13: Based on analytical test results, ethylene glycol was not detected in soil or groundwater in the two areas tested. Therefore, no further action is recommended.

5.0 General Qualifications

The purpose of this environmental assessment is to investigate possible soil and/or groundwater impacts, and related liabilities, associated with past and current property uses. The extent of the investigation is limited to the area and location described in this report.

The scope of the investigation described in this report was selected based upon available information regarding site operations, conditions, and test data. This information was obtained, in part, from the client, outside agents and third parties, including utility locations and record drawings. AECOM has assumed this information to be correct and complete. This report reflects the conditions, operations, and practices as observed on the date of the site investigation. Changes or modifications to these conditions, operations, and practices made after the site investigation have the potential to affect the conclusions of this report, and should therefore be brought to the attention of AECOM when they become known by the client.

AECOM has prepared this report at the request of its client. AECOM assumes responsibility for the accuracy of the report's content, subject to what is stated elsewhere in this section. AECOM recommends the report be used only for the purpose intended by the client and AECOM, as stated in the report. AECOM disclaims responsibility for the application or interpretation of the results by anyone other than the client. Reliance on the contents of this report by anyone other than the client, without the prior expressed written consent of AECOM, is done at the sole risk of the user.

The results, conclusions, and recommendations presented in this report are based on the data obtained from a limited number of soil boring locations and at the soil sample and groundwater sample locations as indicated in this report. Variations in conditions can occur between these boring, soil sample, and groundwater sample locations. In addition, seasonal and annual fluctuations of the groundwater table, which may influence the distribution of contaminants, can occur. Actual groundwater flow rates may vary from those estimated in this report based on soil conditions.

All opinions of cost are based on estimates from our experience with similar projects, subject to the limitations and accuracy identified in this report. Actual costs may vary depending on site conditions, weather, monitoring requirements, and changes in regulatory standards.

This report has been prepared in conformance with the care and skill ordinarily exercised by reputable members of the professional engineering community practicing under similar conditions at the same time in the same or similar locality. No other warranty of any kind, expressed or implied, at common law or created by statute, is extended, made, or intended.

Compliance with the recommendations and/or suggestions contained in this report in no way assures the elimination of hazards or the fulfillment of a property owner's obligation under local, state, or federal laws or any modifications or changes thereto. It is the responsibility of the property owner to notify authorities of any conditions that are in violation of current regulatory standards, laws or regulations. Your decision regarding the regulatory agency you notify and the selection of the cleanup program you enter, if appropriate, may affect your ability to seek cost recovery from responsible parties or to benefit from the proceeds of insurance policies. We recommend you contact legal counsel to obtain professional legal advice related to reporting.

Tables

Table 1 – Soil Sampling

**Table 2 – Groundwater
Sampling**

Figures

**Figure 1 – Site
Location Map**

**Figure 2 – Boring
Location Diagram**

TABLE 1
LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLING
KOENIG VITTS
AECOM PROJECT NO. 60142656



Parameters	Generic RCLs			Area 3				Area 4						Area 9	Area 13		Caustic Spill	
	Direct Contact Pathway		Groundwater Pathway	ACM MW 3.1	ACM MW 3.1	ACM MW 3.2	ACM MW 3.2	ACM MW 4.1	ACM MW 4.1	ACM MW 4.1	ACM MW 4.2	ACM MW 4.2	ACM MW 4.3	ACM MW 4.3	ACM SB 9.1	ACM MW 13.1	ACM MW 13.1	Stockpile Comp
	Non-Industrial	Industrial		2-4' 1/6/2010	4-6' 1/6/2010	2-4' 1/6/2010	6-8' 1/6/2010	0-0.5' 1/6/2010	2-4' 1/6/2010	4-6' 1/6/2010	0-2' 1/6/2010	4-6' 1/6/2010	0-2' 1/6/2010	4-6' 1/6/2010	0-0.5' 1/6/2010	2-4' 1/6/2010	6-8' 1/6/2010	
PID	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DRO (mg/kg)	--	--	100/250	2.1	<1.3	<1.1	1.2J	5,270	33	<0.98	5.9	<0.91	3.3	6.9	54,800	--	--	--
pH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.4
PAHs (µg/kg)																		
Acenaphthene	900,000	60,000,000	38,000	<5.3	<6.3	<5.2	<5.1	<92.1	<5.1	<5.2	<5.1	<5.2	<5.1	<5.7	<840	--	--	--
Acenaphthylene	18,000	350,000	700	<4.0	<4.8	<4.0	<3.9	<70.6	<3.9	<4.0	<3.9	<4.0	<3.9	<4.4	<844	--	--	--
Anthracene	5,000,000	300,000,000	3,000,000	<2.5	<2.9	<2.4	<2.4	<42.9	<2.4	<2.4	<2.4	<2.4	<2.4	<2.7	1,290J	--	--	--
Benzo(a)anthracene	88	3,900	17,000	<1.4	<1.6	<1.4	<1.3	29.4J	<1.3	<1.4	3.2J	<1.4	<1.3	<1.5	<220	--	--	--
Benzo(a)pyrene	8.8	390	48,000	<2.3	<2.7	<2.2	<2.2	<39.5	<2.2	<2.2	3.9J	<2.2	<2.2	<2.5	<360	--	--	--
Benzo(b)fluoranthene	88	3,900	350,000	<3.7	<4.5	<3.7	<3.6	<65.4	<3.6	<3.7	4.6J	<3.7	<3.6	<4.1	<597	--	--	--
Benzo(g,h,i)perylene	1,800	39,000	6,800,000	<1.2	<1.4	<1.1	<1.1	24.4J	<1.1	<1.1	4.7J	<1.1	<1.1	<1.3	<184	--	--	--
Benzo(k)fluoranthene	880	39,000	870,000	<2.7	<3.2	<2.6	<2.6	66.8J	<2.6	<2.6	3.7J	<2.6	<2.6	<2.9	<424	--	--	--
Indeno(1,2,3-cd)pyrene	--	--	--	<1.3	<1.5	<1.2	<1.2	22.0J	<1.2	<1.2	3.0J	<1.2	<1.2	<1.4	<201	--	--	--
Chrysene	8,800	390,000	37,000	<1.5	<1.8	<1.5	1.4J	84.2J	<1.4	<1.5	5.1J	<1.5	<1.4	<1.6	<235	--	--	--
Dibenzo(a,h)anthracene	8.8	390	38,000	<1.3	<1.6	<1.3	<1.3	<22.9	<1.3	<1.3	<1.3	<1.3	<1.4	<1.4	<209	--	--	--
Fluoranthene	600,000	40,000,000	500,000	<2.5	<3.0	<2.5	<2.4	120J	<2.4	<2.5	9.2J	<2.5	<2.5	<2.8	<404	--	--	--
Fluorene	800,000	40,000,000	100,000	<5.3	<6.3	<5.2	<5.1	<92.0	<5.1	<5.2	<5.1	<5.2	<5.1	<5.7	1,670J	--	--	--
1-Methylnaphthalene	--	--	--	<3.0	<3.5	<2.9	<2.9	<61.9	<2.9	<2.9	<2.9	<3.0	<2.9	<3.2	<473	--	--	--
2-Methylnaphthalene	--	--	--	<4.0	<4.8	<3.9	<3.8	<69.5	<3.8	<3.9	<3.9	<4.0	<3.8	<4.3	<634	--	--	--
Naphthalene	20,000	110,000	400	<10.4	<12.5	<10.3	<10.1	<182	<10	<10.3	<10.1	<10.4	<10.1	<11.3	<1,680	--	--	--
Phenanthrene	18,000	390,000	1,800	<6.7	<8.0	<6.6	<6.4	<116	<6.4	<6.6	<6.5	<6.6	<6.4	<7.2	7,210 ^C	--	--	--
Pyrene	500,000	30,000,000	8,700,000	<1.5	<1.7	<1.4	<1.4	66.8J	<1.4	<1.4	6.4J	<1.5	<1.4	<1.6	<233	--	--	--
PCBs (µg/kg)																		
Aroclor 1016	--	--	--	<26.7	<35.5	<29.3	<28.6	<130	<28.5	<29.3	<28.8	<29.6	<28.7	<32.2	<148	--	--	--
Aroclor 1221	--	--	--	<26.7	<35.5	<29.3	<28.6	<130	<28.5	<29.3	<28.8	<29.6	<28.7	<32.2	<148	--	--	--
Aroclor 1232	--	--	--	<29.7	<35.5	<29.3	<28.6	<130	<28.5	<29.3	<28.8	<29.6	<28.7	<32.2	<148	--	--	--
Aroclor 1242	--	--	--	<29.7	<35.5	<29.3	<28.6	<130	<28.5	<29.3	<28.8	<29.6	<28.7	<32.2	<148	--	--	--
Aroclor 1248	--	--	--	<29.7	<35.5	<29.3	<28.6	639	175	<29.3	81.3J	<29.6	<28.7	<32.2	1,260	--	--	--
Aroclor 1254	--	--	--	<29.7	<35.5	<29.3	<28.6	1,300	115J	<29.3	54.7J	<29.6	<28.7	<32.2	<148	--	--	--
Aroclor 1260	--	--	--	<29.7	<35.5	<29.3	<28.6	<130	<28.5	<29.3	<28.8	<29.6	<28.7	<32.2	<148	--	--	--
Ethylene Glycol (mg/kg)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<13.1	<12.7	--	--

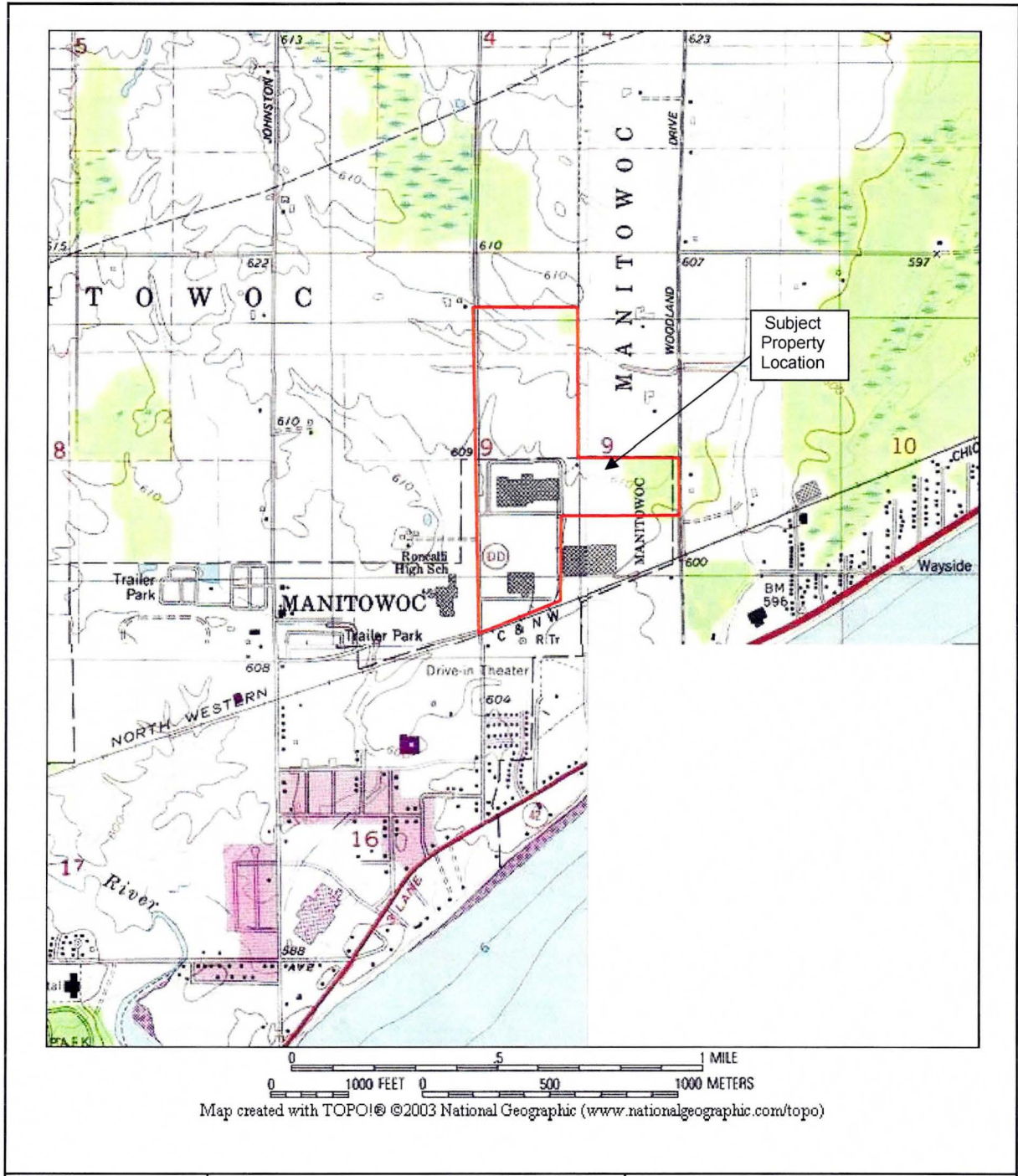
Notes:
DRO = Diesel Range Organics
PAHs = Polynuclear Aromatic Hydrocarbons
PCBs = Polychlorinated Biphenyls
A Parameter exceeds NR 720 Generic RCL for Non-Industrial Direct Contact.
B Parameter exceeds NR 720 Generic RCL for Industrial Direct Contact.
C Parameter exceeds NR 720 Generic RCL for Groundwater Pathway.
D Generic RCL is established under NR 720 or NR 746
E Generic RCLs provided in *Soil Cleanup Levels for PAHs Interim Guidance*, WDNR RR-5 1997
-- No Generic RCL established.
Generic RCLs not included in Wisconsin Administrative Code or Guidance are calculated from the US EPA Soil Screening Level Web Page and the default values contained in *Determining Residual Contaminant Levels using the EPA Soil Screening Level Web Site* WDNR PUB-RR-682 on May 12, 2006
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Figures

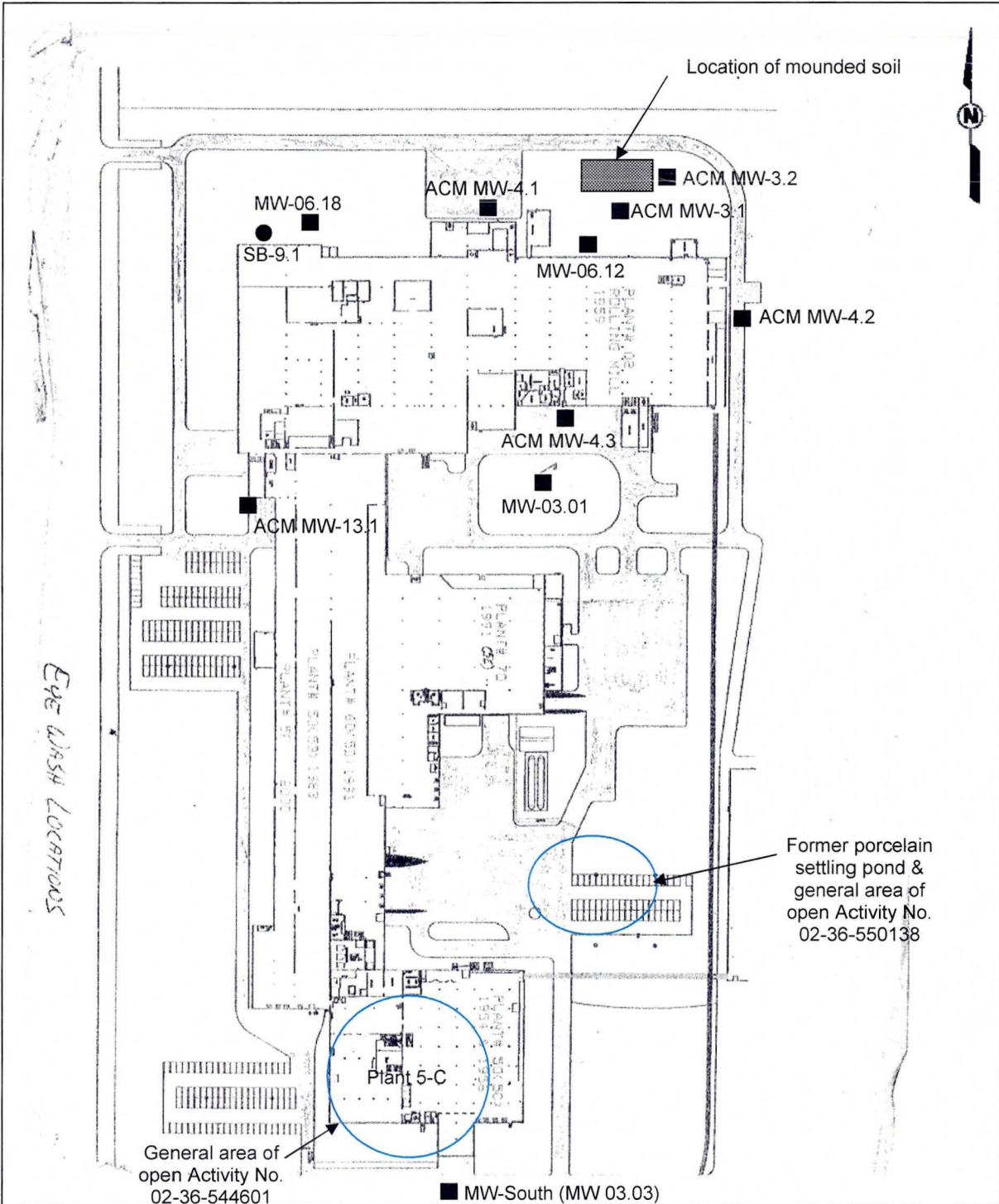
**Figure 1 – Site
Location Map**

**Figure 2 – Boring
Location Diagram**

Figure 1 - Site Location Map



	<p>Former Koenig & Vits Property 2015 Mirro Drive Manitowoc, WI</p>	<p>Site Location Map</p> <p style="text-align: right;">Figure 1</p>
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	<p>Former Koenig and Vits Facility Manitowoc, WI</p>	<p>Boring Location Diagram</p> <p>Figure 2</p>
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Appendix A
Boring Logs

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum		License/Permit/Monitoring Number		Boring Number ACM-MW3.1	
Boring Drilled By: Name of crew chief (first, last) and Firm AECOM - J. Denneau AECOM Project No. 60142656			Date Drilling Started 1/5/2010		Date Drilling Completed 1/5/2010
WI Unique Well No. VT763	DNR Well ID No.	Common Well Name ACM-MW3.1	Final Static Water Level Feet MSL		Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>	State Plane N, E S/C/N	1/4 of Section T N,R	Lat _____" Long _____"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
Facility ID		County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc	

Sample Number and Type	Length Art. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	24 6	23	1.5	Fill: Base course fine to coarse sand and gravel				<0.1						
2 SS	24 15	9	3.0	Brown silty clay (CL) - trace fine to medium sand - moist	CL			<0.1						
3 SS	24 24	12	4.5	Brown silty clay (CL) - fine sand - moist	CL			<0.1						
4 SS	24 24	13	6.0	Brown silty clay (CL) - fine sand - moist	CL			<0.1						
5 SS	24 24	33	7.5	Gray silt (SM) - some sand - moist to saturated	SM			<0.1						
6 SS	24 24	26	9.0	Gray silt (SM) - some fine sand - moist	SM			<0.1						
			10.5											
			12.0											
			13.5											
				End of Boring. Boring advanced from 0.0 feet to 13.5 feet with hollow-stem auger. Installed monitoring well at 13.0 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm AECOM 11425 W Lake Park Drive, Milwaukee, WI 53224	Tel: 414-359-3030 Fax: 414-359-0822
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum		License/Permit/Monitoring Number		Boring Number ACM-MW3.2	
Boring Drilled By: Name of crew chief (first, last) and Firm AECOM - J. Denneau AECOM Project No. 60142656			Date Drilling Started 1/5/2010	Date Drilling Completed 1/5/2010	Drilling Method hollow stem auger
WI Unique Well No. VT765	DNR Well ID No.	Common Well Name ACM-MW3.2	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 8.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Local Grid Location		
1/4 of Section T N,R			Lat ° ' "	Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	Long ° ' "
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 SS	24 12	9	1.5	Fill: Fine to coarse silty sandy gravel - silty clay in tip				<.1							
2 SS	24 24	13	3.0	Brown silty clay (CL) - trace fine to medium sand - moist	CL			<.1							
3 SS	24 24	15	4.5		CL			<.1							
4 SS	24 24	31	7.5	Brown to gray silty clay (CL) - some fine to medium sand seams - moist	CL			<.1							
5 SS	24 24	46	9.0	Gray silt (SM) - some clay - trace fine to medium sand - moist	SM			<.1							
6 SS	24 18	30	10.5		SM			<.1							
				End of Boring. Boring advanced from 0.0 feet to 13.5 feet with hollow-stem auger. Installed monitoring well at 13.0 feet.											

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum		License/Permit/Monitoring Number		Boring Number ACM-MW4.1	
Boring Drilled By: Name of crew chief (first, last) and Firm AECOM - J. Denneau AECOM Project No. 60142656			Date Drilling Started 1/4/2010	Date Drilling Completed 1/4/2010	Drilling Method hollow stem auger
WI Unique Well No. VT764	DNR Well ID No.	Common Well Name ACM-MW4.1	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 8.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N 1/4 of 1/4 of Section , T N,R			Local Grid Location Lat _____" Long _____" Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 SS	24 12	56	0.0 - 1.5	Fill: Brown gravel - surface stained				<0.1							
2 SS	24 12	7	1.5 - 3.0	Fill: Brown silty clayey sandy gravel mix - moist				<0.1							
3 SS	24 18	9	3.0 - 4.5	Reddish-brown silty clay - trace fine to medium sand - moist				<0.1							
4 SS	24 18	12	4.5 - 6.0		CL			<0.1							
5 SS	24 12	8	6.0 - 7.5	Gray silty clay (CL) - trace fine to medium sand - moist - soft	CL			<0.1							
6 SS	24 18	10	7.5 - 10.5	Gray silt (SM) - some fine to medium sand - wet	SM			<0.1							
				End of Boring. Boring advanced from 0.0 feet to 13.5 feet with hollow-stem auger. Installed monitoring well at 13.0 feet.											

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum		License/Permit/Monitoring Number		Boring Number ACM-MW4.2	
Boring Drilled By: Name of crew chief (first, last) and Firm AECOM - J. Denneau AECOM Project No. 60142656			Date Drilling Started 1/4/2010	Date Drilling Completed 1/4/2010	Drilling Method hollow stem auger
WI Unique Well No. VT762	DNR Well ID No.	Common Well Name ACM-MW4.2	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 8.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Local Grid Location Lat _____ " _____ " Long _____ " _____ "		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 SS	24 8	15	0.0 - 1.5	Topsoil Fill: Brown silty clay - trace fine to medium sand - trace fine metal shavings				<0.1							
2 SS	24 18	9	1.5 - 3.0					<0.1							
3 SS	24 24	16	3.0 - 4.5	Brown silty clay (CL) - trace fine to medium sand - occasional sand seams - moist to saturated	CL			<0.1							
4 SS	24 24	16	4.5 - 6.0	Reddish-brown silty clay (CL) - trace fine to medium sand - moist	CL			<0.1							
5 SS	24 24	17	6.0 - 7.5	Reddish-brown to gray silty sandy clay (CL) - fine to medium sand	CL			<0.1							
6 SS	24 18	38	7.5 - 10.5	Gray sandy silt (SM) - moist to saturated	SM			<0.1							
			10.5 - 13.5	End of Boring. Boring advanced from 0.0 feet to 13.5 feet with hollow-stem auger. Installed monitoring well at 13.0 feet.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum		License/Permit/Monitoring Number		Boring Number ACM-MW4.3	
Boring Drilled By: Name of crew chief (first, last) and Firm AECOM - J. Denneau AECOM Project No. 60142656			Date Drilling Started 1/4/2010	Date Drilling Completed 1/4/2010	Drilling Method hollow stem auger
WI Unique Well No. VT761	DNR Well ID No.	Common Well Name ACM-MW4.3	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 8.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc	

Sample Number and Type	Length Art. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 SS	24 18	10	0.0 - 1.5	Topsoil Fill: Brown clayey silt (SM) - trace fine to medium sand - little gravel - moist	SM			<0.1							
2 SS	24 24	21	1.5 - 3.0	Fill: Brown clayey silt (SM) - trace fine to medium sand - moist to saturated	SM			<0.1							
3 SS	24 24	6	3.0 - 4.5	Brown silty clay (CL) - trace fine to medium sand - moist to saturated	CL			<0.1							
4 SS	24 24	17	4.5 - 7.5	Brown to reddish-brown silty clay (CL) - trace fine to medium sand - moist - soft	CL			<0.1							
5 SS	24 24	12	7.5 - 9.0		CL			<0.1							
6 SS	24 24	10	9.0 - 10.5	Brown silt (SM) - some clay - moist to saturated	SM			<0.1							
				End of Boring. Boring advanced from 0.0 feet to 13.5 feet with hollow-stem auger. Installed monitoring well at 13.0 feet.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Skana Aluminuim		License/Permit/Monitoring Number		Boring Number ACM-MW13.1	
Boring Drilled By: Name of crew chief (first, last) and Firm AECOM - J. Denneau AECOM Project No. 60142656			Date Drilling Started 1/5/2010	Date Drilling Completed 1/5/2010	Drilling Method hollow stem auger
WI Unique Well No. VT766	DNR Well ID No.	Common Well Name ACM-MW13.1	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 8.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane N, E S/C/N			Lat _____ " _____ "		
1/4 of _____ 1/4 of Section _____, T _____ N,R _____			Long _____ " _____ "		
Facility ID		County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 SS	24 12	6	0.0 - 1.5	Topsoil				<0.1							
			1.5 - 3.0	Fill: Brown silty clay - trace fine to medium sand - moist											
2 SS	24 18	12	3.0 - 4.5	Brown silty clay (CL) - trace fine to medium sand - moist				<0.1							
3 SS	24 18	10	4.5 - 6.0		CL			<0.1							
4 SS	24 18	16	6.0 - 7.5					<0.1							
5 SS	24 24	17	7.5 - 9.0	Brown silt (SM) - some clay - moist				<0.1							
6 SS	24 24	14	9.0 - 10.5		SM			<0.1							
			10.5 - 12.0												
			12.0 - 13.5												
				End of Boring. Boring advanced from 0.0 feet to 13.5 feet with hollow-stem auger. Installed monitoring well at 13.0 feet.											

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Signature	Firm AECOM 11425 W Lake Park Drive Milwaukee, WI 53224	Tel: 414-359-3030 Fax: 414-359-0822
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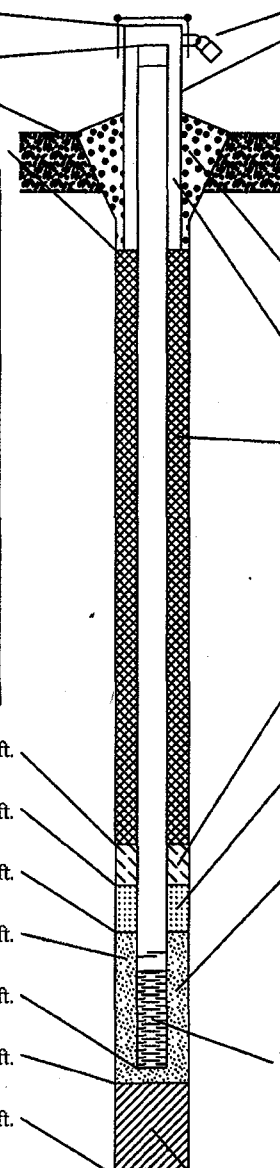
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Appendix B

Well Construction and Development Forms

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name ACM-MW3.1	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. VT763 DNR Well Number	
Facility ID		Lat. _____ " Long. _____ " or		Date Well Installed 01/05/2010	
Type of Well		St. Plane _____ ft. N, _____ ft. E. S/C/N		Well Installed By: (Person's Name and Firm) John Denneau	
Well Code 11/mw		Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Gov. Lot Number	
Distance from Waste/Source ft. _____		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		AECOM	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or <u>2.0</u> ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis, if required):</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>2.0</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or <u>2.0</u> ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>2.0</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>2.5</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>13.0</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>13.5</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>13.5</u> ft.</p> <p>L. Borehole, diameter <u>8.0</u> in.</p> <p>M. O.D. well casing <u>2.37</u> in.</p> <p>N. I.D. well casing <u>2.06</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>4.0</u> ft. c. Material: Steel <input type="checkbox"/> 0 4 Other <input checked="" type="checkbox"/></p> <p>d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>PVC cap</u></p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>Badger 40/70</u> b. Volume added _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>Badger 45/55</u> b. Volume added _____ ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> b. Manufacturer <u>Hole plug</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/></p>
--	--

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **AECOM** Tel: 414-359-3030
 11425 W Lake Park Drive Milwaukee, WI 53224 Fax: 414-359-0822

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

CERTIFICATIONS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
1241 Bellevue Street Green Bay, WI 54302

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4027159001	ACM MW 3.2 (2-4')	Solid	01/05/10 10:23	01/06/10 12:40
4027159002	ACM MW 3.2 (6-8')	Solid	01/05/10 10:40	01/06/10 12:40
4027159003	ACM MW 13.1 (2-4')	Solid	01/05/10 10:00	01/06/10 12:40
4027159004	ACM MW 13.1 (6-8')	Solid	01/05/10 13:15	01/06/10 12:40
4027159005	STOCKPILE COMP	Solid	01/05/10 14:15	01/06/10 12:40
4027159006	ACM-MW-4.3 (0-2')	Solid	01/04/10 10:30	01/06/10 12:40
4027159007	ACM-MW-4.3 (4-6')	Solid	01/04/10 10:40	01/06/10 12:40
4027159008	ACM-MW-4.2 (0-2')	Solid	01/04/10 12:30	01/06/10 12:40
4027159009	ACM-MW-4.2 (4-6')	Solid	01/04/10 12:50	01/06/10 12:40
4027159010	ACM SB 9.1 (0-0.5')	Solid	01/04/10 14:15	01/06/10 12:40
4027159011	ACM MW 4.1 (0-0.5')	Solid	01/04/10 14:55	01/06/10 12:40
4027159012	ACM MW 4.1 (2-4')	Solid	01/04/10 15:00	01/06/10 12:40
4027159013	ACM MW 4.1 (4-6')	Solid	01/04/10 15:17	01/06/10 12:40
4027159014	ACM MW 3.1 (2-4')	Solid	01/05/10 08:35	01/06/10 12:40
4027159015	ACM MW 3.1 (4-6')	Solid	01/05/10 08:45	01/06/10 12:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4027159001	ACM MW 3.2 (2-4')	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4027159002	ACM MW 3.2 (6-8')	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4027159005	STOCKPILE COMP	ASTM D2974-87	AME	1	PASI-G
		EPA 9040	MY	1	PASI-G
4027159006	ACM-MW-4.3 (0-2')	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4027159007	ACM-MW-4.3 (4-6')	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4027159008	ACM-MW-4.2 (0-2')	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4027159009	ACM-MW-4.2 (4-6')	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4027159010	ACM SB 9.1 (0-0.5')	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4027159011	ACM MW 4.1 (0-0.5')	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G
4027159012	ACM MW 4.1 (2-4')	EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4027159013	ACM MW 4.1 (4-6')	ASTM D2974-87	AME	1	PASI-G
		EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
4027159014	ACM MW 3.1 (2-4')	ASTM D2974-87	AME	1	PASI-G
		EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
4027159015	ACM MW 3.1 (4-6')	ASTM D2974-87	AME	1	PASI-G
		EPA 8082	CAH	10	PASI-G
		WI MOD DRO	DAL	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	AME	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS

Pace Project No.: 4027159

Sample: ACM MW 3.2 (2-4) Lab ID: 4027159001 Collected: 01/05/10 10:23 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3541							
PCB-1016 (Aroclor 1016)	<29.3 ug/kg		124	29.3	1	01/07/10 09:52	01/08/10 14:07	12674-11-2	
PCB-1221 (Aroclor 1221)	<29.3 ug/kg		124	29.3	1	01/07/10 09:52	01/08/10 14:07	11104-28-2	
PCB-1232 (Aroclor 1232)	<29.3 ug/kg		124	29.3	1	01/07/10 09:52	01/08/10 14:07	11141-16-5	
PCB-1242 (Aroclor 1242)	<29.3 ug/kg		124	29.3	1	01/07/10 09:52	01/08/10 14:07	53469-21-9	
PCB-1248 (Aroclor 1248)	<29.3 ug/kg		124	29.3	1	01/07/10 09:52	01/08/10 14:07	12672-29-6	
PCB-1254 (Aroclor 1254)	<29.3 ug/kg		124	29.3	1	01/07/10 09:52	01/08/10 14:07	11097-69-1	
PCB-1260 (Aroclor 1260)	<29.3 ug/kg		124	29.3	1	01/07/10 09:52	01/08/10 14:07	11096-82-5	
PCB, Total	<29.3 ug/kg		124	29.3	1	01/07/10 09:52	01/08/10 14:07	1336-36-3	
Tetrachloro-m-xylene (S)	77 %		50-137		1	01/07/10 09:52	01/08/10 14:07	877-09-8	
Decachlorobiphenyl (S)	82 %		56-130		1	01/07/10 09:52	01/08/10 14:07	2051-24-3	
WIDRO GCS		Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	<1.1 mg/kg		2.2	1.1	1	01/07/10 12:42	01/08/10 12:31		
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	<5.2 ug/kg		20.7	5.2	1	01/07/10 11:38	01/07/10 18:54	83-32-9	
Acenaphthylene	<4.0 ug/kg		20.7	4.0	1	01/07/10 11:38	01/07/10 18:54	208-96-8	
Anthracene	<2.4 ug/kg		20.7	2.4	1	01/07/10 11:38	01/07/10 18:54	120-12-7	
Benzo(a)anthracene	<1.4 ug/kg		20.7	1.4	1	01/07/10 11:38	01/07/10 18:54	56-55-3	
Benzo(a)pyrene	<2.2 ug/kg		20.7	2.2	1	01/07/10 11:38	01/07/10 18:54	50-32-8	
Benzo(b)fluoranthene	<3.7 ug/kg		20.7	3.7	1	01/07/10 11:38	01/07/10 18:54	205-99-2	
Benzo(g,h,i)perylene	<1.1 ug/kg		20.7	1.1	1	01/07/10 11:38	01/07/10 18:54	191-24-2	
Benzo(k)fluoranthene	<2.6 ug/kg		20.7	2.6	1	01/07/10 11:38	01/07/10 18:54	207-08-9	
Chrysene	<1.5 ug/kg		20.7	1.5	1	01/07/10 11:38	01/07/10 18:54	218-01-9	
Dibenz(a,h)anthracene	<1.3 ug/kg		20.7	1.3	1	01/07/10 11:38	01/07/10 18:54	53-70-3	
Fluoranthene	<2.5 ug/kg		20.7	2.5	1	01/07/10 11:38	01/07/10 18:54	206-44-0	
Fluorene	<5.2 ug/kg		20.7	5.2	1	01/07/10 11:38	01/07/10 18:54	86-73-7	
Indeno(1,2,3-cd)pyrene	<1.2 ug/kg		20.7	1.2	1	01/07/10 11:38	01/07/10 18:54	193-39-5	
1-Methylnaphthalene	<2.9 ug/kg		20.7	2.9	1	01/07/10 11:38	01/07/10 18:54	90-12-0	
2-Methylnaphthalene	<3.9 ug/kg		20.7	3.9	1	01/07/10 11:38	01/07/10 18:54	91-57-6	
Naphthalene	<10.3 ug/kg		20.7	10.3	1	01/07/10 11:38	01/07/10 18:54	91-20-3	
Phenanthrene	<6.6 ug/kg		20.7	6.6	1	01/07/10 11:38	01/07/10 18:54	85-01-8	
Pyrene	<1.4 ug/kg		20.7	1.4	1	01/07/10 11:38	01/07/10 18:54	129-00-0	
2-Fluorobiphenyl (S)	73 %		38-130		1	01/07/10 11:38	01/07/10 18:54	321-60-8	
Terphenyl-d14 (S)	76 %		41-130		1	01/07/10 11:38	01/07/10 18:54	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	19.5 %		0.10	0.10	1		01/07/10 07:41		

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Sample: **ACM MW 3.2 (6-8')** Lab ID: **4027159002** Collected: 01/05/10 10:40 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<28.6	ug/kg	121	28.6	1	01/07/10 09:52	01/08/10 14:25	12674-11-2	
PCB-1221 (Aroclor 1221)	<28.6	ug/kg	121	28.6	1	01/07/10 09:52	01/08/10 14:25	11104-28-2	
PCB-1232 (Aroclor 1232)	<28.6	ug/kg	121	28.6	1	01/07/10 09:52	01/08/10 14:25	11141-16-5	
PCB-1242 (Aroclor 1242)	<28.6	ug/kg	121	28.6	1	01/07/10 09:52	01/08/10 14:25	53469-21-9	
PCB-1248 (Aroclor 1248)	<28.6	ug/kg	121	28.6	1	01/07/10 09:52	01/08/10 14:25	12672-29-6	
PCB-1254 (Aroclor 1254)	<28.6	ug/kg	121	28.6	1	01/07/10 09:52	01/08/10 14:25	11097-69-1	
PCB-1260 (Aroclor 1260)	<28.6	ug/kg	121	28.6	1	01/07/10 09:52	01/08/10 14:25	11096-82-5	
PCB, Total	<28.6	ug/kg	121	28.6	1	01/07/10 09:52	01/08/10 14:25	1336-36-3	
Tetrachloro-m-xylene (S)	79 %		50-137		1	01/07/10 09:52	01/08/10 14:25	877-09-8	
Decachlorobiphenyl (S)	85 %		56-130		1	01/07/10 09:52	01/08/10 14:25	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	1.2J	mg/kg	2.1	1.0	1	01/07/10 12:42	01/08/10 12:40		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<5.1	ug/kg	20.2	5.1	1	01/07/10 11:38	01/07/10 19:11	83-32-9	
Acenaphthylene	<3.9	ug/kg	20.2	3.9	1	01/07/10 11:38	01/07/10 19:11	208-96-8	
Anthracene	<2.4	ug/kg	20.2	2.4	1	01/07/10 11:38	01/07/10 19:11	120-12-7	
Benzo(a)anthracene	<1.3	ug/kg	20.2	1.3	1	01/07/10 11:38	01/07/10 19:11	56-55-3	
Benzo(a)pyrene	<2.2	ug/kg	20.2	2.2	1	01/07/10 11:38	01/07/10 19:11	50-32-8	
Benzo(b)fluoranthene	<3.6	ug/kg	20.2	3.6	1	01/07/10 11:38	01/07/10 19:11	205-99-2	
Benzo(g,h,i)perylene	<1.1	ug/kg	20.2	1.1	1	01/07/10 11:38	01/07/10 19:11	191-24-2	
Benzo(k)fluoranthene	<2.6	ug/kg	20.2	2.6	1	01/07/10 11:38	01/07/10 19:11	207-08-9	
Chrysene	1.4J	ug/kg	20.2	1.4	1	01/07/10 11:38	01/07/10 19:11	218-01-9	
Dibenz(a,h)anthracene	<1.3	ug/kg	20.2	1.3	1	01/07/10 11:38	01/07/10 19:11	53-70-3	
Fluoranthene	<2.4	ug/kg	20.2	2.4	1	01/07/10 11:38	01/07/10 19:11	206-44-0	
Fluorene	<5.1	ug/kg	20.2	5.1	1	01/07/10 11:38	01/07/10 19:11	86-73-7	
Indeno(1,2,3-cd)pyrene	<1.2	ug/kg	20.2	1.2	1	01/07/10 11:38	01/07/10 19:11	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	20.2	2.9	1	01/07/10 11:38	01/07/10 19:11	90-12-0	
2-Methylnaphthalene	<3.8	ug/kg	20.2	3.8	1	01/07/10 11:38	01/07/10 19:11	91-57-6	
Naphthalene	<10.1	ug/kg	20.2	10.1	1	01/07/10 11:38	01/07/10 19:11	91-20-3	
Phenanthrene	<6.4	ug/kg	20.2	6.4	1	01/07/10 11:38	01/07/10 19:11	85-01-8	
Pyrene	<1.4	ug/kg	20.2	1.4	1	01/07/10 11:38	01/07/10 19:11	129-00-0	
2-Fluorobiphenyl (S)	81 %		38-130		1	01/07/10 11:38	01/07/10 19:11	321-60-8	
Terphenyl-d14 (S)	76 %		41-130		1	01/07/10 11:38	01/07/10 19:11	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.5	%	0.10	0.10	1		01/07/10 07:41		

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name ACM-MW3.2	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. VT765 DNR Well Number	
Facility ID		Lat. _____ " Long. _____ " or		Date Well Installed 01/05/2010	
Type of Well		St. Plane _____ ft. N, _____ ft. E. S/C/N		Well Installed By: (Person's Name and Firm) John Denneau	
Well Code 11/mw		Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Gov. Lot Number	
Distance from Waste/Source ft. _____		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		AECOM	

A. Protective pipe, top elevation _____ ft. MSL
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation _____ ft. MSL
 D. Surface seal, bottom _____ ft. MSL or 2.0 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis attached? Yes No

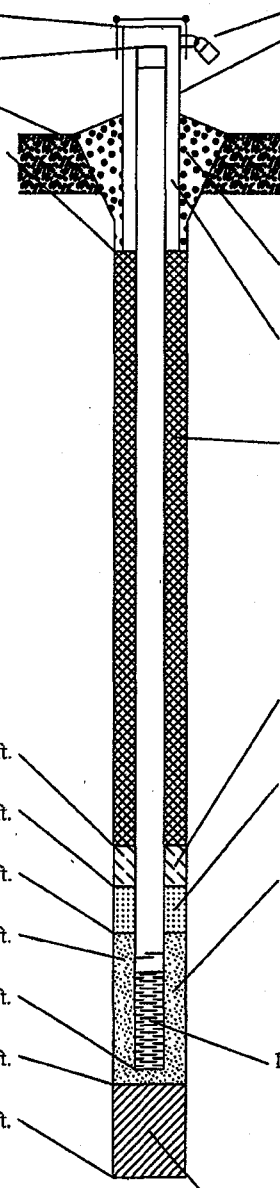
14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 _____ Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):



1. Cap and lock? Yes No
2. Protective cover pipe:
 a. Inside diameter: 4.0 in.
 b. Length: 4.0 ft.
 c. Material: Steel 0 4
 Other
- d. Additional protection? Yes No
 If yes, describe: PVC cap
3. Surface seal: Bentonite 3 0
 Concrete 0 1
 Other
4. Material between well casing and protective pipe:
 Bentonite 3 0
 Other
5. Annular space seal:
 a. Granular/Chipped Bentonite 3 3
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight ... Bentonite slurry 3 1
 d. _____ % Bentonite ... Bentonite-cement grout 5 0
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8
6. Bentonite seal:
 a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 c. _____ Other
7. Fine sand material: Manufacturer, product name & mesh size
 a. Badger 40/70
 b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name & mesh size
 a. Badger 45/55
 b. Volume added _____ ft³
9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other
10. Screen material: PVC
 a. Screen Type: Factory cut 1 1
 Continuous slot 0 1
 Other
 b. Manufacturer Hole plug
 c. Slot size: 0.010 in.
 d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None 1 4
 Other

E. Bentonite seal, top _____ ft. MSL or 2.0 ft.
 F. Fine sand, top _____ ft. MSL or 2.0 ft.
 G. Filter pack, top _____ ft. MSL or 2.0 ft.
 H. Screen joint, top _____ ft. MSL or 2.5 ft.
 I. Well bottom _____ ft. MSL or 13.0 ft.
 J. Filter pack, bottom _____ ft. MSL or 13.5 ft.
 K. Borehole, bottom _____ ft. MSL or 13.5 ft.
 L. Borehole, diameter 8.0 in.
 M. O.D. well casing 2.37 in.
 N. I.D. well casing 2.06 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **AECOM** 11425 W Lake Park Drive Milwaukee, WI 53224 Tel: 414-359-3030
 Fax: 414-359-0822

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name ACM-MW4.1	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. VT764 DNR Well Number	
Facility ID		Lat. _____ Long. _____ or		Date Well Installed 01/04/2010	
Type of Well		St. Plane _____ ft. N. _____ ft. E. S/C/N		Well Installed By: (Person's Name and Firm) John Denneau	
Well Code 11/mw		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Gov. Lot Number	
Distance from Waste/Source ft. _____		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		AECOM	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 2.0 ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis attached? Yes No

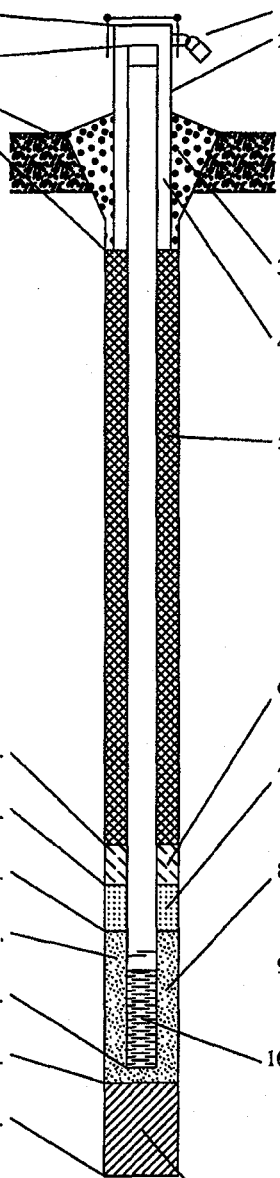
14. Drilling method used: Rotary 5 0
Hollow Stem Auger 4 1
Other

15. Drilling fluid used: Water 0 2 Air 0 1
Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):



1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: 12.0 in.
b. Length: 1.0 ft.
c. Material: Steel 0 4
Other

d. Additional protection? Yes No
If yes, describe: PVC cap

3. Surface seal: Bentonite 3 0
Concrete 0 1
Other

4. Material between well casing and protective pipe:
Bentonite 3 0
Other

5. Annular space seal: a. Granular/Chipped Bentonite 3 3
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 3 5
c. _____ Lbs/gal mud weight ... Bentonite slurry 3 1
d. _____ % Bentonite ... Bentonite-cement grout 5 0
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8

6. Bentonite seal: a. Bentonite granules 3 3
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger 40/70
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 45/55
b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
Flush threaded PVC schedule 80 2 4
Other

10. Screen material: PVC
a. Screen Type: Factory cut 1 1
Continuous slot 0 1
Other
b. Manufacturer Hole plug
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None 1 4
Other

E. Bentonite seal, top _____ ft. MSL or 2.0 ft.

F. Fine sand, top _____ ft. MSL or 2.0 ft.

G. Filter pack, top _____ ft. MSL or 2.0 ft.

H. Screen joint, top _____ ft. MSL or 2.5 ft.

I. Well bottom _____ ft. MSL or 13.0 ft.

J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **AECOM** Tel: 414-359-3030
11425 W Lake Park Drive Milwaukee, WI 53224 Fax: 414-359-0822

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name ACM-MW4.2
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	Wis. Unique Well No. VT762 DNR Well Number
Facility ID	Lat. _____ " Long. _____ " or _____	Date Well Installed 01/04/2010
Type of Well	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) John Denneau
Distance from Waste/Source ft. _____	Location of Well Relative to Waste/Source <input type="checkbox"/> u Upgradient <input type="checkbox"/> s Sidegradient <input type="checkbox"/> d Downgradient <input type="checkbox"/> n Not Known	AECOM

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ 12.0 in. b. Length: _____ 1.0 ft. c. Material: Steel <input type="checkbox"/> 04 Other <input checked="" type="checkbox"/>
C. Land surface elevation _____ ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____ PVC cap
D. Surface seal, bottom _____ ft. MSL or _____ 2.0 ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
<div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis, if required):</p> </div>	
E. Bentonite seal, top _____ ft. MSL or _____ 2.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
F. Fine sand, top _____ ft. MSL or _____ 2.0 ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
G. Filter pack, top _____ ft. MSL or _____ 2.0 ft.	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or _____ 2.5 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. _____ Badger 40/70 b. Volume added _____ ft ³
I. Well bottom _____ ft. MSL or _____ 13.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. _____ Badger 45/55 b. Volume added _____ ft ³
J. Filter pack, bottom _____ ft. MSL or _____ 13.5 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or _____ 13.5 ft.	10. Screen material: _____ PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole, diameter _____ 8.0 in.	b. Manufacturer _____ Hole plug
M. O.D. well casing _____ 2.37 in.	c. Slot size: _____ 0.010 in.
N. I.D. well casing _____ 2.06 in.	d. Slotted length: _____ 10.0 ft.
	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **AECOM** 11425 W Lake Park Drive Milwaukee, WI 53224 Tel: 414-359-3030 Fax: 414-359-0822

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name ACM-MW4.3	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. VT761 DNR Well Number	
Facility ID		Lat. _____ " Long. _____ " or		Date Well Installed 01/04/2010	
Type of Well		St. Plane _____ ft. N. _____ ft. E. S/C/N		Well Installed By: (Person's Name and Firm) John Denneau	
Well Code 11/mw		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Gov. Lot Number	
Distance from Waste/Source ft. _____		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		AECOM	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ 2.0 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis attached? Yes No

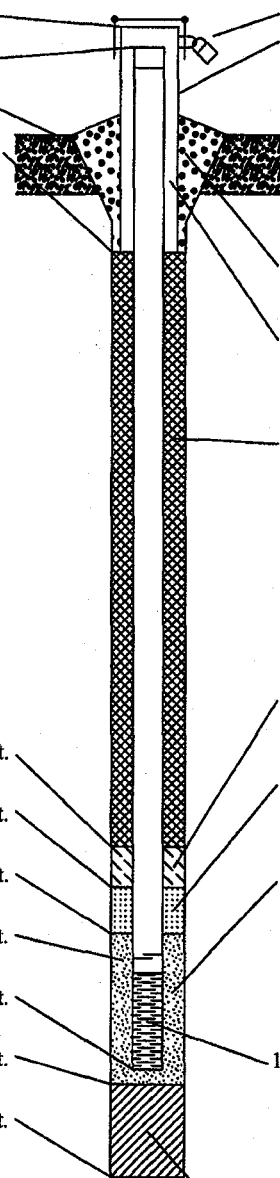
14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 _____ Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):



1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: _____ 4.0 in.
 b. Length: _____ 4.0 ft.
 c. Material: Steel 0 4
 Other

d. Additional protection? Yes No
 If yes, describe: _____ PVC cap

3. Surface seal: Bentonite 3 0
 Concrete 0 1
 Other

4. Material between well casing and protective pipe:
 Bentonite 3 0
 Other

5. Annular space seal:
 a. Granular/Chipped Bentonite 3 3
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight ... Bentonite slurry 3 1
 d. _____ % Bentonite ... Bentonite-cement grout 5 0
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8

6. Bentonite seal:
 a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. _____ Badger 40/70
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. _____ Badger 45/55
 b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other

10. Screen material: _____ PVC
 a. Screen Type: Factory cut 1 1
 Continuous slot 0 1
 Other

b. Manufacturer _____ Hole plug
 c. Slot size: _____ 0.010 in.
 d. Slotted length: _____ 10.0 ft.

11. Backfill material (below filter pack): None 1 4
 Other

E. Bentonite seal, top _____ ft. MSL or _____ 2.0 ft.

F. Fine sand, top _____ ft. MSL or _____ 2.0 ft.

G. Filter pack, top _____ ft. MSL or _____ 2.0 ft.

H. Screen joint, top _____ ft. MSL or _____ 2.5 ft.

I. Well bottom _____ ft. MSL or _____ 13.0 ft.

J. Filter pack, bottom _____ ft. MSL or _____ 13.5 ft.

K. Borehole, bottom _____ ft. MSL or _____ 13.5 ft.

L. Borehole, diameter _____ 8.0 in.

M. O.D. well casing _____ 2.37 in.

N. I.D. well casing _____ 2.06 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **AECOM** Tel: 414-359-3030
 11425 W Lake Park Drive Milwaukee, WI 53224 Fax: 414-359-0822

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name ACM-MW13.1
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	Wis. Unique Well No. VT766 DNR Well Number
Facility ID	Lat. _____ " Long. _____ " or	Date Well Installed 01/05/2010
Type of Well	St. Plane _____ ft. N. _____ ft. E. S/C/N	Well Installed By: (Person's Name and Firm) John Denneau
Well Code 11/mw	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	AECOM
Distance from Waste/Source ft. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
	Gov. Lot Number	

A. Protective pipe, top elevation _____ ft. MSL
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation _____ ft. MSL
 D. Surface seal, bottom _____ ft. MSL or 2.0 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

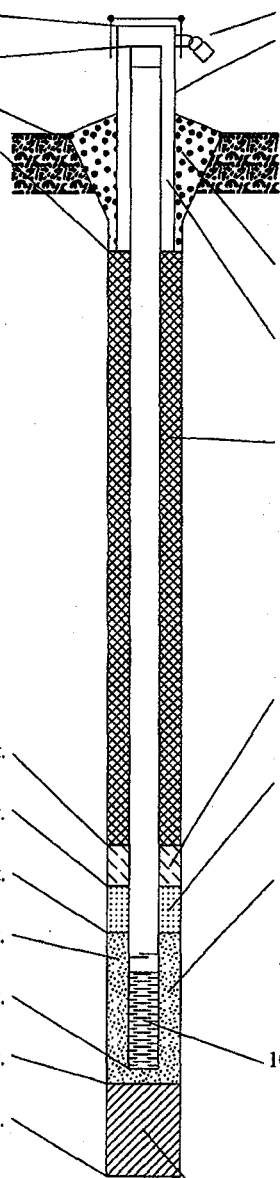
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 _____ Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):



1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: 12.0 in.
 b. Length: 1.0 ft.
 c. Material: Steel 0 4
 Other

d. Additional protection? Yes No
 If yes, describe: PVC cap

3. Surface seal: Bentonite 3 0
 Concrete 0 1
 Other

4. Material between well casing and protective pipe:
 Bentonite 3 0
 Other

5. Annular space seal:
 a. Granular/Chipped Bentonite 3 3
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight ... Bentonite slurry 3 1
 d. _____ % Bentonite ... Bentonite-cement grout 5 0
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8

6. Bentonite seal:
 a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. Badger 40/70
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. Badger 45/55
 b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other

10. Screen material: PVC
 a. Screen Type: Factory cut 1 1
 Continuous slot 0 1
 Other
 b. Manufacturer Hole plug
 c. Slot size: 0.010 in.
 d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None 1 4
 Other

E. Bentonite seal, top _____ ft. MSL or 2.0 ft.
 F. Fine sand, top _____ ft. MSL or 2.0 ft.
 G. Filter pack, top _____ ft. MSL or 2.0 ft.
 H. Screen joint, top _____ ft. MSL or 2.5 ft.
 I. Well bottom _____ ft. MSL or 13.0 ft.
 J. Filter pack, bottom _____ ft. MSL or 13.5 ft.
 K. Borehole, bottom _____ ft. MSL or 13.5 ft.
 L. Borehole, diameter 8.0 in.
 M. O.D. well casing 2.37 in.
 N. I.D. well casing 2.06 in.

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Signature _____ Firm **AECOM**
 11425 W Lake Park Drive Milwaukee, WI 53224
 Tel: 414-359-3030
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum	County Manitowoc	Well Name ACM-MW3.1
Facility License, Permit or Monitoring Number	County Code 36	Wis. Unique Well Number VT763
		DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other
3. Time spent developing well **0 min.**
4. Depth of well (from top of well casing) **15.4 ft.**
5. Inside diameter of well **2.06 in.**
6. Volume of water in filter pack and well casing **5.0 gal.**
7. Volume of water removed from well **11.0 gal.**
8. Volume of water added (if any) **0.0 gal.**
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 6.59 ft.	7.20 ft.
Date	b. 1/6/2010	1/6/2010
Time	c. 09:10 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	01:00 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5 (Describe)	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l
16. Well developed by: Person's Name and Firm		
David Markelz		
AECOM		

17. Additional comments on development:
 9:10 to 9:22 - removed 5 gallons, bailed dry, clear
 9:30 to 9:34 - removed 2 gallons, bailed dry, clear
 10:40 to 10:45 - removed 2 gallons, bailed dry, clear
 1:00 to 1:02 - removed 2 gallons, bailed dry, clear

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: _____	
Firm: _____	
Street: _____	
City/State/Zip: _____	
	Signature: _____
	Print Name: David Markelz
	Firm: AECOM

NOTE: See instructions for more information including a list of county codes and well type codes.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Skana Aluminuim	County Manitowoc	Well Name ACM-MW3.2
Facility License, Permit or Monitoring Number	County Code 36	Wis. Unique Well Number VT765
		DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other

3. Time spent developing well **0 min.**

4. Depth of well (from top of well casing) **15.4 ft.**

5. Inside diameter of well **2.06 in.**

6. Volume of water in filter pack and well casing **5.0 gal.**

7. Volume of water removed from well **12.0 gal.**

8. Volume of water added (if any) **0.0 gal.**

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 5.10 ft.	5.84 ft.
Date	b. 1/6/2010	1/6/2010
Time	c. <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. 09:00	<input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m. 01:00
12. Sediment in well bottom	0.0 inches	inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5 (Describe)	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids **mg/l** **mg/l**

15. COD **mg/l** **mg/l**

16. Well developed by: Person's Name and Firm
David Markelz
AECOM

17. Additional comments on development:
9:00 to 9:07 - removed 5 gallons, bailed dry, clear
9:24 to 9:28 - removed 2.5 gallons, bailed dry, clear
10:30 to 10:36 - removed 2.5 gallons, bailed dry, clear
1:04 to 1:06 - removed 2 gallons, bailed dry, clear

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: **David Markelz**

Firm: **AECOM**

NOTE: See instructions for more information including a list of county codes and well type codes.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Skana Aluminuim	County Manitowoc	Well Name ACM-MW4.1
Facility License, Permit or Monitoring Number	County Code 36	Wis. Unique Well Number VT764
		DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other

3. Time spent developing well **0 min.**
4. Depth of well (from top of well casing) **13.1 ft.**
5. Inside diameter of well **2.06 in.**
6. Volume of water in filter pack and well casing **5.0 gal.**
7. Volume of water removed from well **0.0 gal.**
8. Volume of water added (if any) **0.0 gal.**
9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:
1-5-10 - 4:10 pm bailed dry - removed 0.5 gallons, clear
1-6-10 - 8:00 am removed, 0.5 gallons, dry, clear

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 12.65 ft.	12.22 ft.
Date	b. 1/5/2010	1/6/2010
Time	c. 04:10 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	08:10 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	inches
13. Water clarity (Describe)	Clear <input checked="" type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids **mg/l** **mg/l**

15. COD **mg/l** **mg/l**

16. Well developed by: Person's Name and Firm
David Markelz
AECOM

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: _____	Signature: _____
Firm: _____	Print Name: David Markelz
Street: _____	Firm: AECOM
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Skana Aluminuim	County Manitowoc	Well Name ACM-MW4.2
Facility License, Permit or Monitoring Number	County Code 36	Wis. Unique Well Number VT762
		DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other
3. Time spent developing well **0 min.**
4. Depth of well (from top of well casing) **13.0 ft.**
5. Inside diameter of well **2.06 in.**
6. Volume of water in filter pack and well casing **5.0 gal.**
7. Volume of water removed from well **0.0 gal.**
8. Volume of water added (if any) **0.0 gal.**
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 3.30 ft.	3.30 ft.
Date	b. 1/5/2010	1/6/2010
Time	c. <input type="checkbox"/> a.m. 03:50 <input checked="" type="checkbox"/> p.m.	<input checked="" type="checkbox"/> a.m. 08:10 <input type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5 (Describe)	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l
16. Well developed by: Person's Name and Firm		
David Markelz		
AECOM		

17. Additional comments on development:
 3:50 to 4:00 - removed 5 gallons, bailed dry, clear
 1/5/2010 - 4:30 pm - removed 3 gallons, bailed dry, clear
 1/6/2010 - 8:00 am - removed 3 gallons, bailed dry, clear

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: _____	Signature: _____
Firm: _____	Print Name: David Markelz
Street: _____	Firm: AECOM
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Skana Aluminum	County Manitowoc	Well Name ACM-MW4.3
Facility License, Permit or Monitoring Number	County Code 36	Wis. Unique Well Number VT761
		DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed, and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - other
3. Time spent developing well **0 min.**
4. Depth of well (from top of well casing) **15.2 ft.**
5. Inside diameter of well **2.06 in.**
6. Volume of water in filter pack and well casing **2.0 gal.**
7. Volume of water removed from well **8.0 gal.**
8. Volume of water added (if any) **0.0 gal.**
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 9.51 ft.	10.44 ft.
Date	b. 1/5/2010	1/6/2010
Time	c. 03:30 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	08:00 <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	inches
13. Water clarity (Describe)	Clear <input checked="" type="checkbox"/> 10 Turbid <input type="checkbox"/> 15	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25
	_____	_____
	_____	_____
	_____	_____
	_____	_____

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
David Markelz
AECOM

17. Additional comments on development:
1/5/10 - 3:30 pm - bailed dry twice, removed 4 gallons, clear
1/5/10 - 4:24 pm - removed 2 gallons, bailed dry, clear
1/6/10 - 7:45 am - removed 2 gallons, bailed dry, clear

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: **David Markelz**

Firm: **AECOM**

NOTE: See instructions for more information including a list of county codes and well type codes.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Skana Aluminuim	County Manitowoc	Well Name ACM-MW13.1
Facility License, Permit or Monitoring Number	County Code 36	Wis. Unique Well Number VT766
		DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method:

- surged with bailer and bailed 4 1
- surged with bailer and pumped 6 1
- surged with block and bailed 4 2
- surged with block and pumped 6 2
- surged with block, bailed, and pumped 7 0
- compressed air 2 0
- bailed only 1 0
- pumped only 5 1
- pumped slowly 5 0
- other

3. Time spent developing well **0 min.**

4. Depth of well (from top of well casing) **13.0 ft.**

5. Inside diameter of well **2.06 in.**

6. Volume of water in filter pack and well casing **5.0 gal.**

7. Volume of water removed from well **13.0 gal.**

8. Volume of water added (if any) **0.0 gal.**

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 2.72 ft.	3.44 ft.
Date	b. 1/6/2010	1/6/2010
Time	c. 08:30 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	01:15 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5 (Describe)	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids **mg/l** **mg/l**

15. COD **mg/l** **mg/l**

16. Well developed by: Person's Name and Firm
David Markelz
AECOM

17. Additional comments on development:
8:30 to 8:40 - removed 7 gallons, bailed dry after 5, clear
9:47 to 9:52 - removed 2 gallons, bailed dry, clear
10:10 to 10:12 - removed 2 gallons, bailed dry, clear
1:15 to 1:17 - removed 2 gallons, bailed dry, clear

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: **David Markelz**

Firm: **AECOM**

NOTE: See instructions for more information including a list of county codes and well type codes.

Appendix C

Laboratory Analytical Reports

January 13, 2010

Dave Markelz
AECOM, Inc.- MILWAUKEE
11425 W. Lake Park Drive
Milwaukee, WI 53224

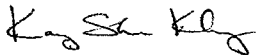
RE: Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Dear Dave Markelz:

Enclosed are the analytical results for sample(s) received by the laboratory on January 06, 2010. 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.

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

Sincerely,



Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 31

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ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Sample: STOCKPILE COMP Lab ID: 4027159005 Collected: 01/05/10 14:15 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	25.2 %		0.10	0.10	1		01/07/10 07:41		
9040 pH	Analytical Method: EPA 9040								
pH	7.4 Std. Units		0.10	0.010	1		01/07/10 11:45		H1

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Sample: ACM-MW-4.3 (0-2') Lab ID: 4027159006 Collected: 01/04/10 10:30 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<28.7 ug/kg		122	28.7	1	01/07/10 09:52	01/08/10 14:42	12674-11-2	
PCB-1221 (Aroclor 1221)	<28.7 ug/kg		122	28.7	1	01/07/10 09:52	01/08/10 14:42	11104-28-2	
PCB-1232 (Aroclor 1232)	<28.7 ug/kg		122	28.7	1	01/07/10 09:52	01/08/10 14:42	11141-16-5	
PCB-1242 (Aroclor 1242)	<28.7 ug/kg		122	28.7	1	01/07/10 09:52	01/08/10 14:42	53469-21-9	
PCB-1248 (Aroclor 1248)	<28.7 ug/kg		122	28.7	1	01/07/10 09:52	01/08/10 14:42	12672-29-6	
PCB-1254 (Aroclor 1254)	<28.7 ug/kg		122	28.7	1	01/07/10 09:52	01/08/10 14:42	11097-69-1	
PCB-1260 (Aroclor 1260)	<28.7 ug/kg		122	28.7	1	01/07/10 09:52	01/08/10 14:42	11096-82-5	
PCB, Total	<28.7 ug/kg		122	28.7	1	01/07/10 09:52	01/08/10 14:42	1336-36-3	
Tetrachloro-m-xylene (S)	80 %		50-137		1	01/07/10 09:52	01/08/10 14:42	877-09-8	
Decachlorobiphenyl (S)	86 %		56-130		1	01/07/10 09:52	01/08/10 14:42	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	3.3 mg/kg		2.0	0.97	1	01/07/10 12:42	01/08/10 12:49		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<5.1 ug/kg		20.3	5.1	1	01/07/10 11:38	01/07/10 14:23	83-32-9	
Acenaphthylene	<3.9 ug/kg		20.3	3.9	1	01/07/10 11:38	01/07/10 14:23	208-96-8	
Anthracene	<2.4 ug/kg		20.3	2.4	1	01/07/10 11:38	01/07/10 14:23	120-12-7	
Benzo(a)anthracene	<1.3 ug/kg		20.3	1.3	1	01/07/10 11:38	01/07/10 14:23	56-55-3	
Benzo(a)pyrene	<2.2 ug/kg		20.3	2.2	1	01/07/10 11:38	01/07/10 14:23	50-32-8	
Benzo(b)fluoranthene	<3.6 ug/kg		20.3	3.6	1	01/07/10 11:38	01/07/10 14:23	205-99-2	
Benzo(g,h,i)perylene	<1.1 ug/kg		20.3	1.1	1	01/07/10 11:38	01/07/10 14:23	191-24-2	
Benzo(k)fluoranthene	<2.6 ug/kg		20.3	2.6	1	01/07/10 11:38	01/07/10 14:23	207-08-9	
Chrysene	<1.4 ug/kg		20.3	1.4	1	01/07/10 11:38	01/07/10 14:23	218-01-9	
Dibenz(a,h)anthracene	<1.3 ug/kg		20.3	1.3	1	01/07/10 11:38	01/07/10 14:23	53-70-3	
Fluoranthene	<2.5 ug/kg		20.3	2.5	1	01/07/10 11:38	01/07/10 14:23	206-44-0	
Fluorene	<5.1 ug/kg		20.3	5.1	1	01/07/10 11:38	01/07/10 14:23	86-73-7	
Indeno(1,2,3-cd)pyrene	<1.2 ug/kg		20.3	1.2	1	01/07/10 11:38	01/07/10 14:23	193-39-5	
1-Methylnaphthalene	<2.9 ug/kg		20.3	2.9	1	01/07/10 11:38	01/07/10 14:23	90-12-0	
2-Methylnaphthalene	<3.8 ug/kg		20.3	3.8	1	01/07/10 11:38	01/07/10 14:23	91-57-6	
Naphthalene	<10.1 ug/kg		20.3	10.1	1	01/07/10 11:38	01/07/10 14:23	91-20-3	
Phenanthrene	<6.4 ug/kg		20.3	6.4	1	01/07/10 11:38	01/07/10 14:23	85-01-8	
Pyrene	<1.4 ug/kg		20.3	1.4	1	01/07/10 11:38	01/07/10 14:23	129-00-0	
2-Fluorobiphenyl (S)	84 %		38-130		1	01/07/10 11:38	01/07/10 14:23	321-60-8	
Terphenyl-d14 (S)	87 %		41-130		1	01/07/10 11:38	01/07/10 14:23	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.7 %		0.10	0.10	1		01/07/10 07:41		

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Sample: ACM-MW-4.3 (4-6') Lab ID: 4027159007 Collected: 01/04/10 10:40 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<32.2 ug/kg		136	32.2	1	01/07/10 09:52	01/08/10 15:00	12674-11-2	
PCB-1221 (Aroclor 1221)	<32.2 ug/kg		136	32.2	1	01/07/10 09:52	01/08/10 15:00	11104-28-2	
PCB-1232 (Aroclor 1232)	<32.2 ug/kg		136	32.2	1	01/07/10 09:52	01/08/10 15:00	11141-16-5	
PCB-1242 (Aroclor 1242)	<32.2 ug/kg		136	32.2	1	01/07/10 09:52	01/08/10 15:00	53469-21-9	
PCB-1248 (Aroclor 1248)	<32.2 ug/kg		136	32.2	1	01/07/10 09:52	01/08/10 15:00	12672-29-6	
PCB-1254 (Aroclor 1254)	<32.2 ug/kg		136	32.2	1	01/07/10 09:52	01/08/10 15:00	11097-69-1	
PCB-1260 (Aroclor 1260)	<32.2 ug/kg		136	32.2	1	01/07/10 09:52	01/08/10 15:00	11096-82-5	
PCB, Total	<32.2 ug/kg		136	32.2	1	01/07/10 09:52	01/08/10 15:00	1336-36-3	
Tetrachloro-m-xylene (S)	85 %		50-137		1	01/07/10 09:52	01/08/10 15:00	877-09-8	
Decachlorobiphenyl (S)	92 %		56-130		1	01/07/10 09:52	01/08/10 15:00	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	6.9 mg/kg		2.0	1.0	1	01/07/10 12:42	01/08/10 12:58		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<5.7 ug/kg		22.7	5.7	1	01/07/10 11:38	01/07/10 19:28	83-32-9	
Acenaphthylene	<4.4 ug/kg		22.7	4.4	1	01/07/10 11:38	01/07/10 19:28	208-96-8	
Anthracene	<2.7 ug/kg		22.7	2.7	1	01/07/10 11:38	01/07/10 19:28	120-12-7	
Benzo(a)anthracene	<1.5 ug/kg		22.7	1.5	1	01/07/10 11:38	01/07/10 19:28	56-55-3	
Benzo(a)pyrene	<2.5 ug/kg		22.7	2.5	1	01/07/10 11:38	01/07/10 19:28	50-32-8	
Benzo(b)fluoranthene	<4.1 ug/kg		22.7	4.1	1	01/07/10 11:38	01/07/10 19:28	205-99-2	
Benzo(g,h,i)perylene	<1.3 ug/kg		22.7	1.3	1	01/07/10 11:38	01/07/10 19:28	191-24-2	
Benzo(k)fluoranthene	<2.9 ug/kg		22.7	2.9	1	01/07/10 11:38	01/07/10 19:28	207-08-9	
Chrysene	<1.6 ug/kg		22.7	1.6	1	01/07/10 11:38	01/07/10 19:28	218-01-9	
Dibenz(a,h)anthracene	<1.4 ug/kg		22.7	1.4	1	01/07/10 11:38	01/07/10 19:28	53-70-3	
Fluoranthene	<2.8 ug/kg		22.7	2.8	1	01/07/10 11:38	01/07/10 19:28	206-44-0	
Fluorene	<5.7 ug/kg		22.7	5.7	1	01/07/10 11:38	01/07/10 19:28	86-73-7	
Indeno(1,2,3-cd)pyrene	<1.4 ug/kg		22.7	1.4	1	01/07/10 11:38	01/07/10 19:28	193-39-5	
1-Methylnaphthalene	<3.2 ug/kg		22.7	3.2	1	01/07/10 11:38	01/07/10 19:28	90-12-0	
2-Methylnaphthalene	<4.3 ug/kg		22.7	4.3	1	01/07/10 11:38	01/07/10 19:28	91-57-6	
Naphthalene	<11.3 ug/kg		22.7	11.3	1	01/07/10 11:38	01/07/10 19:28	91-20-3	
Phenanthrene	<7.2 ug/kg		22.7	7.2	1	01/07/10 11:38	01/07/10 19:28	85-01-8	
Pyrene	<1.6 ug/kg		22.7	1.6	1	01/07/10 11:38	01/07/10 19:28	129-00-0	
2-Fluorobiphenyl (S)	68 %		38-130		1	01/07/10 11:38	01/07/10 19:28	321-60-8	
Terphenyl-d14 (S)	63 %		41-130		1	01/07/10 11:38	01/07/10 19:28	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	26.7 %		0.10	0.10	1		01/07/10 07:41		



ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
 Pace Project No.: 4027159

Sample: ACM-MW-4.2 (0-2') Lab ID: 4027159008 Collected: 01/04/10 12:30 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<28.8	ug/kg	122	28.8	1	01/07/10 09:52	01/08/10 15:17	12674-11-2	
PCB-1221 (Aroclor 1221)	<28.8	ug/kg	122	28.8	1	01/07/10 09:52	01/08/10 15:17	11104-28-2	
PCB-1232 (Aroclor 1232)	<28.8	ug/kg	122	28.8	1	01/07/10 09:52	01/08/10 15:17	11141-16-5	
PCB-1242 (Aroclor 1242)	<28.8	ug/kg	122	28.8	1	01/07/10 09:52	01/08/10 15:17	53469-21-9	
PCB-1248 (Aroclor 1248)	81.3J	ug/kg	122	28.8	1	01/07/10 09:52	01/08/10 15:17	12672-29-6	
PCB-1254 (Aroclor 1254)	54.7J	ug/kg	122	28.8	1	01/07/10 09:52	01/08/10 15:17	11097-69-1	
PCB-1260 (Aroclor 1260)	<28.8	ug/kg	122	28.8	1	01/07/10 09:52	01/08/10 15:17	11096-82-5	
PCB, Total	136	ug/kg	122	28.8	1	01/07/10 09:52	01/08/10 15:17	1336-36-3	
Tetrachloro-m-xylene (S)	81	%	50-137		1	01/07/10 09:52	01/08/10 15:17	877-09-8	
Decachlorobiphenyl (S)	83	%	56-130		1	01/07/10 09:52	01/08/10 15:17	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	5.9	mg/kg	2.0	0.98	1	01/07/10 12:42	01/08/10 13:07		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<5.1	ug/kg	20.3	5.1	1	01/11/10 13:43	01/12/10 12:16	83-32-9	
Acenaphthylene	<3.9	ug/kg	20.3	3.9	1	01/11/10 13:43	01/12/10 12:16	208-96-8	
Anthracene	<2.4	ug/kg	20.3	2.4	1	01/11/10 13:43	01/12/10 12:16	120-12-7	
Benzo(a)anthracene	3.2J	ug/kg	20.3	1.3	1	01/11/10 13:43	01/12/10 12:16	56-55-3	
Benzo(a)pyrene	3.9J	ug/kg	20.3	2.2	1	01/11/10 13:43	01/12/10 12:16	50-32-8	
Benzo(b)fluoranthene	4.6J	ug/kg	20.3	3.6	1	01/11/10 13:43	01/12/10 12:16	205-99-2	
Benzo(g,h,i)perylene	4.7J	ug/kg	20.3	1.1	1	01/11/10 13:43	01/12/10 12:16	191-24-2	
Benzo(k)fluoranthene	3.7J	ug/kg	20.3	2.6	1	01/11/10 13:43	01/12/10 12:16	207-08-9	
Chrysene	5.1J	ug/kg	20.3	1.4	1	01/11/10 13:43	01/12/10 12:16	218-01-9	
Dibenz(a,h)anthracene	<1.3	ug/kg	20.3	1.3	1	01/11/10 13:43	01/12/10 12:16	53-70-3	
Fluoranthene	9.2J	ug/kg	20.3	2.5	1	01/11/10 13:43	01/12/10 12:16	206-44-0	
Fluorene	<5.1	ug/kg	20.3	5.1	1	01/11/10 13:43	01/12/10 12:16	86-73-7	
Indeno(1,2,3-cd)pyrene	3.0J	ug/kg	20.3	1.2	1	01/11/10 13:43	01/12/10 12:16	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	20.3	2.9	1	01/11/10 13:43	01/12/10 12:16	90-12-0	
2-Methylnaphthalene	<3.9	ug/kg	20.3	3.9	1	01/11/10 13:43	01/12/10 12:16	91-57-6	
Naphthalene	<10.1	ug/kg	20.3	10.1	1	01/11/10 13:43	01/12/10 12:16	91-20-3	
Phenanthrene	<6.5	ug/kg	20.3	6.5	1	01/11/10 13:43	01/12/10 12:16	85-01-8	
Pyrene	6.4J	ug/kg	20.3	1.4	1	01/11/10 13:43	01/12/10 12:16	129-00-0	
2-Fluorobiphenyl (S)	67	%	38-130		1	01/11/10 13:43	01/12/10 12:16	321-60-8	
Terphenyl-d14 (S)	64	%	41-130		1	01/11/10 13:43	01/12/10 12:16	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.9	%	0.10	0.10	1		01/07/10 07:41		



ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Sample: ACM-MW-4.2 (4-6') Lab ID: 4027159009 Collected: 01/04/10 12:50 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<29.6 ug/kg		125	29.6	1	01/07/10 09:52	01/08/10 15:35	12674-11-2	
PCB-1221 (Aroclor 1221)	<29.6 ug/kg		125	29.6	1	01/07/10 09:52	01/08/10 15:35	11104-28-2	
PCB-1232 (Aroclor 1232)	<29.6 ug/kg		125	29.6	1	01/07/10 09:52	01/08/10 15:35	11141-16-5	
PCB-1242 (Aroclor 1242)	<29.6 ug/kg		125	29.6	1	01/07/10 09:52	01/08/10 15:35	53469-21-9	
PCB-1248 (Aroclor 1248)	<29.6 ug/kg		125	29.6	1	01/07/10 09:52	01/08/10 15:35	12672-29-6	
PCB-1254 (Aroclor 1254)	<29.6 ug/kg		125	29.6	1	01/07/10 09:52	01/08/10 15:35	11097-69-1	
PCB-1260 (Aroclor 1260)	<29.6 ug/kg		125	29.6	1	01/07/10 09:52	01/08/10 15:35	11096-82-5	
PCB, Total	<29.6 ug/kg		125	29.6	1	01/07/10 09:52	01/08/10 15:35	1336-36-3	
Tetrachloro-m-xylene (S)	87 %		50-137		1	01/07/10 09:52	01/08/10 15:35	877-09-8	
Decachlorobiphenyl (S)	95 %		56-130		1	01/07/10 09:52	01/08/10 15:35	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	<0.91 mg/kg		1.8	0.91	1	01/07/10 12:42	01/08/10 13:16		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<5.2 ug/kg		20.8	5.2	1	01/07/10 11:38	01/07/10 19:45	83-32-9	
Acenaphthylene	<4.0 ug/kg		20.8	4.0	1	01/07/10 11:38	01/07/10 19:45	208-96-8	
Anthracene	<2.4 ug/kg		20.8	2.4	1	01/07/10 11:38	01/07/10 19:45	120-12-7	
Benzo(a)anthracene	<1.4 ug/kg		20.8	1.4	1	01/07/10 11:38	01/07/10 19:45	56-55-3	
Benzo(a)pyrene	<2.2 ug/kg		20.8	2.2	1	01/07/10 11:38	01/07/10 19:45	50-32-8	
Benzo(b)fluoranthene	<3.7 ug/kg		20.8	3.7	1	01/07/10 11:38	01/07/10 19:45	205-99-2	
Benzo(g,h,i)perylene	<1.2 ug/kg		20.8	1.2	1	01/07/10 11:38	01/07/10 19:45	191-24-2	
Benzo(k)fluoranthene	<2.6 ug/kg		20.8	2.6	1	01/07/10 11:38	01/07/10 19:45	207-08-9	
Chrysene	<1.5 ug/kg		20.8	1.5	1	01/07/10 11:38	01/07/10 19:45	218-01-9	
Dibenz(a,h)anthracene	<1.3 ug/kg		20.8	1.3	1	01/07/10 11:38	01/07/10 19:45	53-70-3	
Fluoranthene	<2.5 ug/kg		20.8	2.5	1	01/07/10 11:38	01/07/10 19:45	206-44-0	
Fluorene	<5.2 ug/kg		20.8	5.2	1	01/07/10 11:38	01/07/10 19:45	86-73-7	
Indeno(1,2,3-cd)pyrene	<1.3 ug/kg		20.8	1.3	1	01/07/10 11:38	01/07/10 19:45	193-39-5	
1-Methylnaphthalene	<3.0 ug/kg		20.8	3.0	1	01/07/10 11:38	01/07/10 19:45	90-12-0	
2-Methylnaphthalene	<4.0 ug/kg		20.8	4.0	1	01/07/10 11:38	01/07/10 19:45	91-57-6	
Naphthalene	<10.4 ug/kg		20.8	10.4	1	01/07/10 11:38	01/07/10 19:45	91-20-3	
Phenanthrene	<6.6 ug/kg		20.8	6.6	1	01/07/10 11:38	01/07/10 19:45	85-01-8	
Pyrene	<1.5 ug/kg		20.8	1.5	1	01/07/10 11:38	01/07/10 19:45	129-00-0	
2-Fluorobiphenyl (S)	73 %		38-130		1	01/07/10 11:38	01/07/10 19:45	321-60-8	
Terphenyl-d14 (S)	77 %		41-130		1	01/07/10 11:38	01/07/10 19:45	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	20.0 %		0.10	0.10	1		01/07/10 07:41		



ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
 Pace Project No.: 4027159

Sample: ACM SB 9.1 (0-0.5') Lab ID: 4027159010 Collected: 01/04/10 14:15 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<148	ug/kg	626	148	5	01/07/10 09:52	01/08/10 15:52	12674-11-2	
PCB-1221 (Aroclor 1221)	<148	ug/kg	626	148	5	01/07/10 09:52	01/08/10 15:52	11104-28-2	
PCB-1232 (Aroclor 1232)	<148	ug/kg	626	148	5	01/07/10 09:52	01/08/10 15:52	11141-16-5	
PCB-1242 (Aroclor 1242)	<148	ug/kg	626	148	5	01/07/10 09:52	01/08/10 15:52	53469-21-9	
PCB-1248 (Aroclor 1248)	1260	ug/kg	626	148	5	01/07/10 09:52	01/08/10 15:52	12672-29-6	
PCB-1254 (Aroclor 1254)	<148	ug/kg	626	148	5	01/07/10 09:52	01/08/10 15:52	11097-69-1	
PCB-1260 (Aroclor 1260)	<148	ug/kg	626	148	5	01/07/10 09:52	01/08/10 15:52	11096-82-5	
PCB, Total	1260	ug/kg	626	148	5	01/07/10 09:52	01/08/10 15:52	1336-36-3	
Tetrachloro-m-xylene (S)	58	%	50-137		5	01/07/10 09:52	01/08/10 15:52	877-09-8	
Decachlorobiphenyl (S)	72	%	56-130		5	01/07/10 09:52	01/08/10 15:52	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	54800	mg/kg	4470	2220	500	01/07/10 12:42	01/08/10 13:25		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<840	ug/kg	3340	840	40	01/07/10 11:38	01/08/10 09:36	83-32-9	
Acenaphthylene	<644	ug/kg	3340	644	40	01/07/10 11:38	01/08/10 09:36	208-96-8	
Anthracene	1290J	ug/kg	3340	391	40	01/07/10 11:38	01/08/10 09:36	120-12-7	
Benzo(a)anthracene	<220	ug/kg	3340	220	40	01/07/10 11:38	01/08/10 09:36	56-55-3	
Benzo(a)pyrene	<360	ug/kg	3340	360	40	01/07/10 11:38	01/08/10 09:36	50-32-8	
Benzo(b)fluoranthene	<597	ug/kg	3340	597	40	01/07/10 11:38	01/08/10 09:36	205-99-2	
Benzo(g,h,i)perylene	<184	ug/kg	3340	184	40	01/07/10 11:38	01/08/10 09:36	191-24-2	
Benzo(k)fluoranthene	<424	ug/kg	3340	424	40	01/07/10 11:38	01/08/10 09:36	207-08-9	
Chrysene	<235	ug/kg	3340	235	40	01/07/10 11:38	01/08/10 09:36	218-01-9	
Dibenz(a,h)anthracene	<209	ug/kg	3340	209	40	01/07/10 11:38	01/08/10 09:36	53-70-3	
Fluoranthene	<404	ug/kg	3340	404	40	01/07/10 11:38	01/08/10 09:36	206-44-0	
Fluorene	1670J	ug/kg	3340	839	40	01/07/10 11:38	01/08/10 09:36	86-73-7	
Indeno(1,2,3-cd)pyrene	<201	ug/kg	3340	201	40	01/07/10 11:38	01/08/10 09:36	193-39-5	
1-Methylnaphthalene	<473	ug/kg	3340	473	40	01/07/10 11:38	01/08/10 09:36	90-12-0	
2-Methylnaphthalene	<634	ug/kg	3340	634	40	01/07/10 11:38	01/08/10 09:36	91-57-6	
Naphthalene	<1660	ug/kg	3340	1660	40	01/07/10 11:38	01/08/10 09:36	91-20-3	
Phenanthrene	7210	ug/kg	3340	1060	40	01/07/10 11:38	01/08/10 09:36	85-01-8	
Pyrene	<233	ug/kg	3340	233	40	01/07/10 11:38	01/08/10 09:36	129-00-0	
2-Fluorobiphenyl (S)	0	%	38-130		40	01/07/10 11:38	01/08/10 09:36	321-60-8	S4
Terphenyl-d14 (S)	0	%	41-130		40	01/07/10 11:38	01/08/10 09:36	1718-51-0	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	20.1	%	0.10	0.10	1		01/07/10 07:41		



ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Sample: ACM MW 4.1 (0-0.5') Lab ID: 4027159011 Collected: 01/04/10 14:55 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<130	ug/kg	549	130	5	01/07/10 09:52	01/08/10 16:10	12674-11-2	
PCB-1221 (Aroclor 1221)	<130	ug/kg	549	130	5	01/07/10 09:52	01/08/10 16:10	11104-28-2	
PCB-1232 (Aroclor 1232)	<130	ug/kg	549	130	5	01/07/10 09:52	01/08/10 16:10	11141-16-5	
PCB-1242 (Aroclor 1242)	<130	ug/kg	549	130	5	01/07/10 09:52	01/08/10 16:10	53469-21-9	
PCB-1248 (Aroclor 1248)	639	ug/kg	549	130	5	01/07/10 09:52	01/08/10 16:10	12672-29-6	
PCB-1254 (Aroclor 1254)	1300	ug/kg	549	130	5	01/07/10 09:52	01/08/10 16:10	11097-69-1	
PCB-1260 (Aroclor 1260)	<130	ug/kg	549	130	5	01/07/10 09:52	01/08/10 16:10	11096-82-5	
PCB, Total	1940	ug/kg	549	130	5	01/07/10 09:52	01/08/10 16:10	1336-36-3	
Tetrachloro-m-xylene (S)	72	%	50-137		5	01/07/10 09:52	01/08/10 16:10	877-09-8	
Decachlorobiphenyl (S)	77	%	56-130		5	01/07/10 09:52	01/08/10 16:10	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	5270	mg/kg	380	189	100	01/07/10 12:42	01/08/10 13:34		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<92.1	ug/kg	366	92.1	10	01/07/10 11:38	01/08/10 11:43	83-32-9	
Acenaphthylene	<70.6	ug/kg	366	70.6	10	01/07/10 11:38	01/08/10 11:43	208-96-8	
Anthracene	<42.9	ug/kg	366	42.9	10	01/07/10 11:38	01/08/10 11:43	120-12-7	
Benzo(a)anthracene	29.4J	ug/kg	366	24.1	10	01/07/10 11:38	01/08/10 11:43	56-55-3	
Benzo(a)pyrene	<39.5	ug/kg	366	39.5	10	01/07/10 11:38	01/08/10 11:43	50-32-8	
Benzo(b)fluoranthene	<65.4	ug/kg	366	65.4	10	01/07/10 11:38	01/08/10 11:43	205-99-2	
Benzo(g,h,i)perylene	24.4J	ug/kg	366	20.2	10	01/07/10 11:38	01/08/10 11:43	191-24-2	
Benzo(k)fluoranthene	66.8J	ug/kg	366	46.5	10	01/07/10 11:38	01/08/10 11:43	207-08-9	
Chrysene	84.2J	ug/kg	366	25.8	10	01/07/10 11:38	01/08/10 11:43	218-01-9	
Dibenz(a,h)anthracene	<22.9	ug/kg	366	22.9	10	01/07/10 11:38	01/08/10 11:43	53-70-3	
Fluoranthene	120J	ug/kg	366	44.3	10	01/07/10 11:38	01/08/10 11:43	206-44-0	
Fluorene	<92.0	ug/kg	366	92.0	10	01/07/10 11:38	01/08/10 11:43	86-73-7	
Indeno(1,2,3-cd)pyrene	22.0J	ug/kg	366	22.0	10	01/07/10 11:38	01/08/10 11:43	193-39-5	
1-Methylnaphthalene	<51.9	ug/kg	366	51.9	10	01/07/10 11:38	01/08/10 11:43	90-12-0	
2-Methylnaphthalene	<69.5	ug/kg	366	69.5	10	01/07/10 11:38	01/08/10 11:43	91-57-6	
Naphthalene	<182	ug/kg	366	182	10	01/07/10 11:38	01/08/10 11:43	91-20-3	D3
Phenanthrene	<116	ug/kg	366	116	10	01/07/10 11:38	01/08/10 11:43	85-01-8	
Pyrene	66.8J	ug/kg	366	25.5	10	01/07/10 11:38	01/08/10 11:43	129-00-0	
2-Fluorobiphenyl (S)	0	%	38-130		10	01/07/10 11:38	01/08/10 11:43	321-60-8	S4
Terphenyl-d14 (S)	0	%	41-130		10	01/07/10 11:38	01/08/10 11:43	1718-51-0	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	8.9	%	0.10	0.10	1		01/07/10 07:41		

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Sample: ACM MW 4.1 (2-4') Lab ID: 4027159012 Collected: 01/04/10 15:00 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<28.5	ug/kg	121	28.5	1	01/07/10 09:52	01/08/10 16:27	12674-11-2	
PCB-1221 (Aroclor 1221)	<28.5	ug/kg	121	28.5	1	01/07/10 09:52	01/08/10 16:27	11104-28-2	
PCB-1232 (Aroclor 1232)	<28.5	ug/kg	121	28.5	1	01/07/10 09:52	01/08/10 16:27	11141-16-5	
PCB-1242 (Aroclor 1242)	<28.5	ug/kg	121	28.5	1	01/07/10 09:52	01/08/10 16:27	53469-21-9	
PCB-1248 (Aroclor 1248)	175	ug/kg	121	28.5	1	01/07/10 09:52	01/08/10 16:27	12672-29-6	
PCB-1254 (Aroclor 1254)	115J	ug/kg	121	28.5	1	01/07/10 09:52	01/08/10 16:27	11097-69-1	
PCB-1260 (Aroclor 1260)	<28.5	ug/kg	121	28.5	1	01/07/10 09:52	01/08/10 16:27	11096-82-5	
PCB, Total	290	ug/kg	121	28.5	1	01/07/10 09:52	01/08/10 16:27	1336-36-3	
Tetrachloro-m-xylene (S)	68 %		50-137		1	01/07/10 09:52	01/08/10 16:27	877-09-8	
Decachlorobiphenyl (S)	74 %		56-130		1	01/07/10 09:52	01/08/10 16:27	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	33.0	mg/kg	1.9	0.92	1	01/07/10 12:42	01/11/10 12:26		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<5.1	ug/kg	20.1	5.1	1	01/08/10 12:17	01/08/10 15:26	83-32-9	
Acenaphthylene	<3.9	ug/kg	20.1	3.9	1	01/08/10 12:17	01/08/10 15:26	208-96-8	
Anthracene	<2.4	ug/kg	20.1	2.4	1	01/08/10 12:17	01/08/10 15:26	120-12-7	
Benzo(a)anthracene	<1.3	ug/kg	20.1	1.3	1	01/08/10 12:17	01/08/10 15:26	56-55-3	
Benzo(a)pyrene	<2.2	ug/kg	20.1	2.2	1	01/08/10 12:17	01/08/10 15:26	50-32-8	
Benzo(b)fluoranthene	<3.6	ug/kg	20.1	3.6	1	01/08/10 12:17	01/08/10 15:26	205-99-2	
Benzo(g,h,i)perylene	<1.1	ug/kg	20.1	1.1	1	01/08/10 12:17	01/08/10 15:26	191-24-2	
Benzo(k)fluoranthene	<2.6	ug/kg	20.1	2.6	1	01/08/10 12:17	01/08/10 15:26	207-08-9	
Chrysene	<1.4	ug/kg	20.1	1.4	1	01/08/10 12:17	01/08/10 15:26	218-01-9	
Dibenz(a,h)anthracene	<1.3	ug/kg	20.1	1.3	1	01/08/10 12:17	01/08/10 15:26	53-70-3	
Fluoranthene	<2.4	ug/kg	20.1	2.4	1	01/08/10 12:17	01/08/10 15:26	206-44-0	
Fluorene	<5.1	ug/kg	20.1	5.1	1	01/08/10 12:17	01/08/10 15:26	86-73-7	
Indeno(1,2,3-cd)pyrene	<1.2	ug/kg	20.1	1.2	1	01/08/10 12:17	01/08/10 15:26	193-39-5	
1-Methylnaphthalene	<2.8	ug/kg	20.1	2.8	1	01/08/10 12:17	01/08/10 15:26	90-12-0	
2-Methylnaphthalene	<3.8	ug/kg	20.1	3.8	1	01/08/10 12:17	01/08/10 15:26	91-57-6	
Naphthalene	<10	ug/kg	20.1	10	1	01/08/10 12:17	01/08/10 15:26	91-20-3	
Phenanthrene	<6.4	ug/kg	20.1	6.4	1	01/08/10 12:17	01/08/10 15:26	85-01-8	
Pyrene	<1.4	ug/kg	20.1	1.4	1	01/08/10 12:17	01/08/10 15:26	129-00-0	
2-Fluorobiphenyl (S)	66 %		38-130		1	01/08/10 12:17	01/08/10 15:26	321-60-8	
Terphenyl-d14 (S)	64 %		41-130		1	01/08/10 12:17	01/08/10 15:26	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.0	%	0.10	0.10	1		01/07/10 07:41		

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Sample: ACM MW 4.1 (4-6') Lab ID: 4027159013 Collected: 01/04/10 15:17 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<29.3	ug/kg	124	29.3	1	01/07/10 09:52	01/08/10 16:45	12674-11-2	
PCB-1221 (Aroclor 1221)	<29.3	ug/kg	124	29.3	1	01/07/10 09:52	01/08/10 16:45	11104-28-2	
PCB-1232 (Aroclor 1232)	<29.3	ug/kg	124	29.3	1	01/07/10 09:52	01/08/10 16:45	11141-16-5	
PCB-1242 (Aroclor 1242)	<29.3	ug/kg	124	29.3	1	01/07/10 09:52	01/08/10 16:45	53469-21-9	
PCB-1248 (Aroclor 1248)	<29.3	ug/kg	124	29.3	1	01/07/10 09:52	01/08/10 16:45	12672-29-6	
PCB-1254 (Aroclor 1254)	<29.3	ug/kg	124	29.3	1	01/07/10 09:52	01/08/10 16:45	11097-69-1	
PCB-1260 (Aroclor 1260)	<29.3	ug/kg	124	29.3	1	01/07/10 09:52	01/08/10 16:45	11096-82-5	
PCB, Total	<29.3	ug/kg	124	29.3	1	01/07/10 09:52	01/08/10 16:45	1336-36-3	
Tetrachloro-m-xylene (S)	81 %		50-137		1	01/07/10 09:52	01/08/10 16:45	877-09-8	
Decachlorobiphenyl (S)	83 %		56-130		1	01/07/10 09:52	01/08/10 16:45	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	<0.98	mg/kg	2.0	0.98	1	01/07/10 12:42	01/11/10 12:35		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<5.2	ug/kg	20.7	5.2	1	01/08/10 12:17	01/08/10 15:42	83-32-9	
Acenaphthylene	<4.0	ug/kg	20.7	4.0	1	01/08/10 12:17	01/08/10 15:42	208-96-8	
Anthracene	<2.4	ug/kg	20.7	2.4	1	01/08/10 12:17	01/08/10 15:42	120-12-7	
Benzo(a)anthracene	<1.4	ug/kg	20.7	1.4	1	01/08/10 12:17	01/08/10 15:42	56-55-3	
Benzo(a)pyrene	<2.2	ug/kg	20.7	2.2	1	01/08/10 12:17	01/08/10 15:42	50-32-8	
Benzo(b)fluoranthene	<3.7	ug/kg	20.7	3.7	1	01/08/10 12:17	01/08/10 15:42	205-99-2	
Benzo(g,h,i)perylene	<1.1	ug/kg	20.7	1.1	1	01/08/10 12:17	01/08/10 15:42	191-24-2	
Benzo(k)fluoranthene	<2.6	ug/kg	20.7	2.6	1	01/08/10 12:17	01/08/10 15:42	207-08-9	
Chrysene	<1.5	ug/kg	20.7	1.5	1	01/08/10 12:17	01/08/10 15:42	218-01-9	
Dibenz(a,h)anthracene	<1.3	ug/kg	20.7	1.3	1	01/08/10 12:17	01/08/10 15:42	53-70-3	
Fluoranthene	<2.5	ug/kg	20.7	2.5	1	01/08/10 12:17	01/08/10 15:42	206-44-0	
Fluorene	<5.2	ug/kg	20.7	5.2	1	01/08/10 12:17	01/08/10 15:42	86-73-7	
Indeno(1,2,3-cd)pyrene	<1.2	ug/kg	20.7	1.2	1	01/08/10 12:17	01/08/10 15:42	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	20.7	2.9	1	01/08/10 12:17	01/08/10 15:42	90-12-0	
2-Methylnaphthalene	<3.9	ug/kg	20.7	3.9	1	01/08/10 12:17	01/08/10 15:42	91-57-6	
Naphthalene	<10.3	ug/kg	20.7	10.3	1	01/08/10 12:17	01/08/10 15:42	91-20-3	
Phenanthrene	<6.6	ug/kg	20.7	6.6	1	01/08/10 12:17	01/08/10 15:42	85-01-8	
Pyrene	<1.4	ug/kg	20.7	1.4	1	01/08/10 12:17	01/08/10 15:42	129-00-0	
2-Fluorobiphenyl (S)	63 %		38-130		1	01/08/10 12:17	01/08/10 15:42	321-60-8	
Terphenyl-d14 (S)	67 %		41-130		1	01/08/10 12:17	01/08/10 15:42	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	19.5 %		0.10	0.10	1		01/07/10 07:41		

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Sample: ACM MW 3.1 (2-4) Lab ID: 4027159014 Collected: 01/05/10 08:35 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<29.7 ug/kg		126	29.7	1	01/07/10 09:52	01/08/10 17:02	12674-11-2	
PCB-1221 (Aroclor 1221)	<29.7 ug/kg		126	29.7	1	01/07/10 09:52	01/08/10 17:02	11104-28-2	
PCB-1232 (Aroclor 1232)	<29.7 ug/kg		126	29.7	1	01/07/10 09:52	01/08/10 17:02	11141-16-5	
PCB-1242 (Aroclor 1242)	<29.7 ug/kg		126	29.7	1	01/07/10 09:52	01/08/10 17:02	53469-21-9	
PCB-1248 (Aroclor 1248)	<29.7 ug/kg		126	29.7	1	01/07/10 09:52	01/08/10 17:02	12672-29-6	
PCB-1254 (Aroclor 1254)	<29.7 ug/kg		126	29.7	1	01/07/10 09:52	01/08/10 17:02	11097-69-1	
PCB-1260 (Aroclor 1260)	<29.7 ug/kg		126	29.7	1	01/07/10 09:52	01/08/10 17:02	11096-82-5	
PCB, Total	<29.7 ug/kg		126	29.7	1	01/07/10 09:52	01/08/10 17:02	1336-36-3	
Tetrachloro-m-xylene (S)	82 %		50-137		1	01/07/10 09:52	01/08/10 17:02	877-09-8	
Decachlorobiphenyl (S)	88 %		56-130		1	01/07/10 09:52	01/08/10 17:02	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	2.1 mg/kg		2.1	1.0	1	01/07/10 12:42	01/11/10 12:44		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<5.3 ug/kg		20.9	5.3	1	01/08/10 12:17	01/08/10 15:59	83-32-9	
Acenaphthylene	<4.0 ug/kg		20.9	4.0	1	01/08/10 12:17	01/08/10 15:59	208-96-8	
Anthracene	<2.5 ug/kg		20.9	2.5	1	01/08/10 12:17	01/08/10 15:59	120-12-7	
Benzo(a)anthracene	<1.4 ug/kg		20.9	1.4	1	01/08/10 12:17	01/08/10 15:59	56-55-3	
Benzo(a)pyrene	<2.3 ug/kg		20.9	2.3	1	01/08/10 12:17	01/08/10 15:59	50-32-8	
Benzo(b)fluoranthene	<3.7 ug/kg		20.9	3.7	1	01/08/10 12:17	01/08/10 15:59	205-99-2	
Benzo(g,h,i)perylene	<1.2 ug/kg		20.9	1.2	1	01/08/10 12:17	01/08/10 15:59	191-24-2	
Benzo(k)fluoranthene	<2.7 ug/kg		20.9	2.7	1	01/08/10 12:17	01/08/10 15:59	207-08-9	
Chrysene	<1.5 ug/kg		20.9	1.5	1	01/08/10 12:17	01/08/10 15:59	218-01-9	
Dibenz(a,h)anthracene	<1.3 ug/kg		20.9	1.3	1	01/08/10 12:17	01/08/10 15:59	53-70-3	
Fluoranthene	<2.5 ug/kg		20.9	2.5	1	01/08/10 12:17	01/08/10 15:59	206-44-0	
Fluorene	<5.3 ug/kg		20.9	5.3	1	01/08/10 12:17	01/08/10 15:59	86-73-7	
Indeno(1,2,3-cd)pyrene	<1.3 ug/kg		20.9	1.3	1	01/08/10 12:17	01/08/10 15:59	193-39-5	
1-Methylnaphthalene	<3.0 ug/kg		20.9	3.0	1	01/08/10 12:17	01/08/10 15:59	90-12-0	
2-Methylnaphthalene	<4.0 ug/kg		20.9	4.0	1	01/08/10 12:17	01/08/10 15:59	91-57-6	
Naphthalene	<10.4 ug/kg		20.9	10.4	1	01/08/10 12:17	01/08/10 15:59	91-20-3	
Phenanthrene	<6.7 ug/kg		20.9	6.7	1	01/08/10 12:17	01/08/10 15:59	85-01-8	
Pyrene	<1.5 ug/kg		20.9	1.5	1	01/08/10 12:17	01/08/10 15:59	129-00-0	
2-Fluorobiphenyl (S)	61 %		38-130		1	01/08/10 12:17	01/08/10 15:59	321-60-8	
Terphenyl-d14 (S)	61 %		41-130		1	01/08/10 12:17	01/08/10 15:59	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	20.4 %		0.10	0.10	1		01/07/10 07:41		

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Sample: ACM MW 3.1 (4-6') Lab ID: 4027159015 Collected: 01/05/10 08:45 Received: 01/06/10 12:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<35.5 ug/kg		150	35.5	1	01/07/10 09:52	01/08/10 17:19	12674-11-2	
PCB-1221 (Aroclor 1221)	<35.5 ug/kg		150	35.5	1	01/07/10 09:52	01/08/10 17:19	11104-28-2	
PCB-1232 (Aroclor 1232)	<35.5 ug/kg		150	35.5	1	01/07/10 09:52	01/08/10 17:19	11141-16-5	
PCB-1242 (Aroclor 1242)	<35.5 ug/kg		150	35.5	1	01/07/10 09:52	01/08/10 17:19	53469-21-9	
PCB-1248 (Aroclor 1248)	<35.5 ug/kg		150	35.5	1	01/07/10 09:52	01/08/10 17:19	12672-29-6	
PCB-1254 (Aroclor 1254)	<35.5 ug/kg		150	35.5	1	01/07/10 09:52	01/08/10 17:19	11097-69-1	
PCB-1260 (Aroclor 1260)	<35.5 ug/kg		150	35.5	1	01/07/10 09:52	01/08/10 17:19	11096-82-5	
PCB, Total	<35.5 ug/kg		150	35.5	1	01/07/10 09:52	01/08/10 17:19	1336-36-3	
Tetrachloro-m-xylene (S)	85 %		50-137		1	01/07/10 09:52	01/08/10 17:19	877-09-8	
Decachlorobiphenyl (S)	89 %		56-130		1	01/07/10 09:52	01/08/10 17:19	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	<1.3 mg/kg		2.6	1.3	1	01/07/10 12:42	01/11/10 12:52		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<6.3 ug/kg		25.0	6.3	1	01/08/10 12:17	01/08/10 16:16	83-32-9	
Acenaphthylene	<4.8 ug/kg		25.0	4.8	1	01/08/10 12:17	01/08/10 16:16	208-96-8	
Anthracene	<2.9 ug/kg		25.0	2.9	1	01/08/10 12:17	01/08/10 16:16	120-12-7	
Benzo(a)anthracene	<1.6 ug/kg		25.0	1.6	1	01/08/10 12:17	01/08/10 16:16	56-55-3	
Benzo(a)pyrene	<2.7 ug/kg		25.0	2.7	1	01/08/10 12:17	01/08/10 16:16	50-32-8	
Benzo(b)fluoranthene	<4.5 ug/kg		25.0	4.5	1	01/08/10 12:17	01/08/10 16:16	205-99-2	
Benzo(g,h,i)perylene	<1.4 ug/kg		25.0	1.4	1	01/08/10 12:17	01/08/10 16:16	191-24-2	
Benzo(k)fluoranthene	<3.2 ug/kg		25.0	3.2	1	01/08/10 12:17	01/08/10 16:16	207-08-9	
Chrysene	<1.8 ug/kg		25.0	1.8	1	01/08/10 12:17	01/08/10 16:16	218-01-9	
Dibenz(a,h)anthracene	<1.6 ug/kg		25.0	1.6	1	01/08/10 12:17	01/08/10 16:16	53-70-3	
Fluoranthene	<3.0 ug/kg		25.0	3.0	1	01/08/10 12:17	01/08/10 16:16	206-44-0	
Fluorene	<6.3 ug/kg		25.0	6.3	1	01/08/10 12:17	01/08/10 16:16	86-73-7	
Indeno(1,2,3-cd)pyrene	<1.5 ug/kg		25.0	1.5	1	01/08/10 12:17	01/08/10 16:16	193-39-5	
1-Methylnaphthalene	<3.5 ug/kg		25.0	3.5	1	01/08/10 12:17	01/08/10 16:16	90-12-0	
2-Methylnaphthalene	<4.8 ug/kg		25.0	4.8	1	01/08/10 12:17	01/08/10 16:16	91-57-6	
Naphthalene	<12.5 ug/kg		25.0	12.5	1	01/08/10 12:17	01/08/10 16:16	91-20-3	
Phenanthrene	<8.0 ug/kg		25.0	8.0	1	01/08/10 12:17	01/08/10 16:16	85-01-8	
Pyrene	<1.7 ug/kg		25.0	1.7	1	01/08/10 12:17	01/08/10 16:16	129-00-0	
2-Fluorobiphenyl (S)	68 %		38-130		1	01/08/10 12:17	01/08/10 16:16	321-60-8	
Terphenyl-d14 (S)	67 %		41-130		1	01/08/10 12:17	01/08/10 16:16	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	33.4 %		0.10	0.10	1		01/07/10 07:41		

QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

QC Batch: OEXT/6529 Analysis Method: EPA 8082
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 4027159001, 4027159002, 4027159006, 4027159007, 4027159008, 4027159009, 4027159010, 4027159011, 4027159012, 4027159013, 4027159014, 4027159015

METHOD BLANK: 252907 Matrix: Solid
Associated Lab Samples: 4027159001, 4027159002, 4027159006, 4027159007, 4027159008, 4027159009, 4027159010, 4027159011, 4027159012, 4027159013, 4027159014, 4027159015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<23.6	100	01/08/10 12:23	
PCB-1221 (Aroclor 1221)	ug/kg	<23.6	100	01/08/10 12:23	
PCB-1232 (Aroclor 1232)	ug/kg	<23.6	100	01/08/10 12:23	
PCB-1242 (Aroclor 1242)	ug/kg	<23.6	100	01/08/10 12:23	
PCB-1248 (Aroclor 1248)	ug/kg	<23.6	100	01/08/10 12:23	
PCB-1254 (Aroclor 1254)	ug/kg	<23.6	100	01/08/10 12:23	
PCB-1260 (Aroclor 1260)	ug/kg	<23.6	100	01/08/10 12:23	
Decachlorobiphenyl (S)	%	84	56-130	01/08/10 12:23	
Tetrachloro-m-xylene (S)	%	78	50-137	01/08/10 12:23	

LABORATORY CONTROL SAMPLE: 252908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<23.6			
PCB-1221 (Aroclor 1221)	ug/kg		<23.6			
PCB-1232 (Aroclor 1232)	ug/kg		<23.6			
PCB-1242 (Aroclor 1242)	ug/kg		<23.6			
PCB-1248 (Aroclor 1248)	ug/kg		<23.6			
PCB-1254 (Aroclor 1254)	ug/kg		<23.6			
PCB-1260 (Aroclor 1260)	ug/kg	500	411	82	53-109	
Decachlorobiphenyl (S)	%			88	56-130	
Tetrachloro-m-xylene (S)	%			83	50-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 252909 252910

Parameter	Units	4027159001		MS	MSD	MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
PCB-1016 (Aroclor 1016)	ug/kg	<29.3				<29.3	<29.3						21
PCB-1221 (Aroclor 1221)	ug/kg	<29.3				<29.3	<29.3						21
PCB-1232 (Aroclor 1232)	ug/kg	<29.3				<29.3	<29.3						21
PCB-1242 (Aroclor 1242)	ug/kg	<29.3				<29.3	<29.3						21
PCB-1248 (Aroclor 1248)	ug/kg	<29.3				<29.3	<29.3						21
PCB-1254 (Aroclor 1254)	ug/kg	<29.3				<29.3	<29.3						21
PCB-1260 (Aroclor 1260)	ug/kg	<29.3	621	621	511	524	82	84	38-110	3	21		
Decachlorobiphenyl (S)	%						86	87	56-130				
Tetrachloro-m-xylene (S)	%						81	83	50-137				

QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

QC Batch: OEXT/6527 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 4027159001, 4027159002, 4027159006, 4027159007, 4027159008, 4027159009, 4027159010, 4027159011,
4027159012, 4027159013, 4027159014, 4027159015

METHOD BLANK: 252873 Matrix: Solid
Associated Lab Samples: 4027159001, 4027159002, 4027159006, 4027159007, 4027159008, 4027159009, 4027159010, 4027159011,
4027159012, 4027159013, 4027159014, 4027159015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<0.99	2.0	01/08/10 11:29	

LABORATORY CONTROL SAMPLE & LCSD: 252874 252875

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	20	15.8	17.0	79	85	70-120	8	20	

QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

QC Batch: OEXT/6528 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 4027159001, 4027159002, 4027159006, 4027159007, 4027159009, 4027159010, 4027159011

METHOD BLANK: 252876 Matrix: Solid
Associated Lab Samples: 4027159001, 4027159002, 4027159006, 4027159007, 4027159009, 4027159010, 4027159011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	01/07/10 13:44	
2-Methylnaphthalene	ug/kg	<3.2	16.7	01/07/10 13:44	
Acenaphthene	ug/kg	<4.2	16.7	01/07/10 13:44	
Acenaphthylene	ug/kg	<3.2	16.7	01/07/10 13:44	
Anthracene	ug/kg	<2.0	16.7	01/07/10 13:44	
Benzo(a)anthracene	ug/kg	<1.1	16.7	01/07/10 13:44	
Benzo(a)pyrene	ug/kg	<1.8	16.7	01/07/10 13:44	
Benzo(b)fluoranthene	ug/kg	<3.0	16.7	01/07/10 13:44	
Benzo(g,h,i)perylene	ug/kg	<0.92	16.7	01/07/10 13:44	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	01/07/10 13:44	
Chrysene	ug/kg	<1.2	16.7	01/07/10 13:44	
Dibenz(a,h)anthracene	ug/kg	<1.0	16.7	01/07/10 13:44	
Fluoranthene	ug/kg	<2.0	16.7	01/07/10 13:44	
Fluorene	ug/kg	<4.2	16.7	01/07/10 13:44	
Indeno(1,2,3-cd)pyrene	ug/kg	<1.0	16.7	01/07/10 13:44	
Naphthalene	ug/kg	<8.3	16.7	01/07/10 13:44	
Phenanthrene	ug/kg	<5.3	16.7	01/07/10 13:44	
Pyrene	ug/kg	<1.2	16.7	01/07/10 13:44	
2-Fluorobiphenyl (S)	%	72	38-130	01/07/10 13:44	
Terphenyl-d14 (S)	%	83	41-130	01/07/10 13:44	

LABORATORY CONTROL SAMPLE: 252877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	281	84	50-130	
2-Methylnaphthalene	ug/kg	333	283	85	48-130	
Acenaphthene	ug/kg	333	289	87	51-130	
Acenaphthylene	ug/kg	333	288	86	51-130	
Anthracene	ug/kg	333	293	88	55-130	
Benzo(a)anthracene	ug/kg	333	295	88	37-130	
Benzo(a)pyrene	ug/kg	333	288	86	56-130	
Benzo(b)fluoranthene	ug/kg	333	315	94	55-130	
Benzo(g,h,i)perylene	ug/kg	333	322	97	49-130	
Benzo(k)fluoranthene	ug/kg	333	302	91	61-130	
Chrysene	ug/kg	333	301	90	43-130	
Dibenz(a,h)anthracene	ug/kg	333	311	93	51-130	
Fluoranthene	ug/kg	333	311	93	57-130	
Fluorene	ug/kg	333	297	89	51-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	313	94	52-130	
Naphthalene	ug/kg	333	277	83	49-130	
Phenanthrene	ug/kg	333	295	88	52-130	

QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

LABORATORY CONTROL SAMPLE: 252877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	282	85	35-130	
2-Fluorobiphenyl (S)	%			78	38-130	
Terphenyl-d14 (S)	%			87	41-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 252878 252879

Parameter	Units	4027159006		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
1-Methylnaphthalene	ug/kg	<2.9	405	405	405	331	331	82	82	38-130	.1	42
2-Methylnaphthalene	ug/kg	<3.8	405	405	405	332	332	82	82	20-139	.06	39
Acenaphthene	ug/kg	<5.1	405	405	405	334	320	82	79	42-130	4	32
Acenaphthylene	ug/kg	<3.9	405	405	405	335	340	83	84	47-130	1	31
Anthracene	ug/kg	<2.4	405	405	405	333	341	82	84	33-134	2	30
Benzo(a)anthracene	ug/kg	<1.3	405	405	405	330	331	81	82	27-130	.2	25
Benzo(a)pyrene	ug/kg	<2.2	405	405	405	329	331	81	82	35-132	.5	33
Benzo(b)fluoranthene	ug/kg	<3.6	405	405	405	344	360	85	89	27-141	5	39
Benzo(g,h,i)perylene	ug/kg	<1.1	405	405	405	379	382	94	94	13-146	.8	47
Benzo(k)fluoranthene	ug/kg	<2.6	405	405	405	332	328	82	81	18-155	1	31
Chrysene	ug/kg	<1.4	405	405	405	343	343	85	85	30-130	.02	24
Dibenz(a,h)anthracene	ug/kg	<1.3	405	405	405	364	366	90	90	33-130	.5	39
Fluoranthene	ug/kg	<2.5	405	405	405	332	337	82	83	37-138	2	31
Fluorene	ug/kg	<5.1	405	405	405	340	347	84	86	42-130	2	32
Indeno(1,2,3-cd)pyrene	ug/kg	<1.2	405	405	405	364	367	90	91	25-134	.8	39
Naphthalene	ug/kg	<10.1	405	405	405	319	314	79	77	39-130	2	43
Phenanthrene	ug/kg	<6.4	405	405	405	333	340	82	84	32-135	2	32
Pyrene	ug/kg	<1.4	405	405	405	329	319	81	79	31-130	3	26
2-Fluorobiphenyl (S)	%							74	80	38-130		
Terphenyl-d14 (S)	%							77	82	41-130		

QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

QC Batch: OEXT/6531 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 4027159012, 4027159013, 4027159014, 4027159015

METHOD BLANK: 253279 Matrix: Solid
Associated Lab Samples: 4027159012, 4027159013, 4027159014, 4027159015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	01/08/10 12:36	
2-Methylnaphthalene	ug/kg	<3.2	16.7	01/08/10 12:36	
Acenaphthene	ug/kg	<4.2	16.7	01/08/10 12:36	
Acenaphthylene	ug/kg	<3.2	16.7	01/08/10 12:36	
Anthracene	ug/kg	<2.0	16.7	01/08/10 12:36	
Benzo(a)anthracene	ug/kg	<1.1	16.7	01/08/10 12:36	
Benzo(a)pyrene	ug/kg	<1.8	16.7	01/08/10 12:36	
Benzo(b)fluoranthene	ug/kg	<3.0	16.7	01/08/10 12:36	
Benzo(g,h,i)perylene	ug/kg	<0.92	16.7	01/08/10 12:36	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	01/08/10 12:36	
Chrysene	ug/kg	<1.2	16.7	01/08/10 12:36	
Dibenz(a,h)anthracene	ug/kg	<1.0	16.7	01/08/10 12:36	
Fluoranthene	ug/kg	<2.0	16.7	01/08/10 12:36	
Fluorene	ug/kg	<4.2	16.7	01/08/10 12:36	
Indeno(1,2,3-cd)pyrene	ug/kg	<1.0	16.7	01/08/10 12:36	
Naphthalene	ug/kg	<8.3	16.7	01/08/10 12:36	
Phenanthrene	ug/kg	<5.3	16.7	01/08/10 12:36	
Pyrene	ug/kg	<1.2	16.7	01/08/10 12:36	
2-Fluorobiphenyl (S)	%	68	38-130	01/08/10 12:36	
Terphenyl-d14 (S)	%	75	41-130	01/08/10 12:36	

LABORATORY CONTROL SAMPLE: 253280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	244	73	50-130	
2-Methylnaphthalene	ug/kg	333	244	73	48-130	
Acenaphthene	ug/kg	333	267	80	51-130	
Acenaphthylene	ug/kg	333	257	77	51-130	
Anthracene	ug/kg	333	255	76	55-130	
Benzo(a)anthracene	ug/kg	333	253	76	37-130	
Benzo(a)pyrene	ug/kg	333	255	76	56-130	
Benzo(b)fluoranthene	ug/kg	333	299	90	55-130	
Benzo(g,h,i)perylene	ug/kg	333	183	55	49-130	
Benzo(k)fluoranthene	ug/kg	333	247	74	61-130	
Chrysene	ug/kg	333	237	71	43-130	
Dibenz(a,h)anthracene	ug/kg	333	219	66	51-130	
Fluoranthene	ug/kg	333	284	85	57-130	
Fluorene	ug/kg	333	270	81	51-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	211	63	52-130	
Naphthalene	ug/kg	333	253	76	49-130	
Phenanthrene	ug/kg	333	267	80	52-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

LABORATORY CONTROL SAMPLE: 253280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	228	69	35-130	
2-Fluorobiphenyl (S)	%			72	38-130	
Terphenyl-d14 (S)	%			69	41-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 253281 253282

Parameter	Units	4027034004		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.							
1-Methylnaphthalene	ug/kg	19.0	365	365	296	336	76	87	38-130	13	42	
2-Methylnaphthalene	ug/kg	27.0	365	365	280	323	69	81	20-139	14	39	
Acenaphthene	ug/kg	11.2J	365	365	304	331	80	87	42-130	9	32	
Acenaphthylene	ug/kg	34.3	365	365	326	347	80	85	47-130	6	31	
Anthracene	ug/kg	16.6J	365	365	279	290	72	75	33-134	4	30	
Benzo(a)anthracene	ug/kg	<1.2	365	365	256	288	70	79	27-130	12	25	
Benzo(a)pyrene	ug/kg	<2.0	365	365	257	309	70	84	35-132	19	33	
Benzo(b)fluoranthene	ug/kg	<3.3	365	365	373	373	101	101	27-141	09	39	
Benzo(g,h,i)perylene	ug/kg	3.6J	365	365	149	155	40	42	13-146	4	47	
Benzo(k)fluoranthene	ug/kg	<2.3	365	365	201	285	54	77	18-155	35	31	R1
Chrysene	ug/kg	2.3J	365	365	248	290	67	79	30-130	16	24	
Dibenz(a,h)anthracene	ug/kg	<1.1	365	365	194	212	53	58	33-130	9	39	
Fluoranthene	ug/kg	<2.2	365	365	284	320	77	87	37-138	12	31	
Fluorene	ug/kg	10.3J	365	365	318	350	84	93	42-130	10	32	
Indeno(1,2,3-cd)pyrene	ug/kg	1.5J	365	365	185	201	50	55	25-134	8	39	
Naphthalene	ug/kg	<9.1	365	365	251	283	68	77	39-130	12	43	
Phenanthrene	ug/kg	6.0J	365	365	278	310	74	83	32-135	11	32	
Pyrene	ug/kg	3.0J	365	365	212	230	57	62	31-130	8	26	
2-Fluorobiphenyl (S)	%						72	79	38-130			
Terphenyl-d14 (S)	%						58	66	41-130			

QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

QC Batch: OEXT/6538 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 4027159008

METHOD BLANK: 254001 Matrix: Solid
Associated Lab Samples: 4027159008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	01/11/10 14:19	
2-Methylnaphthalene	ug/kg	<3.2	16.7	01/11/10 14:19	
Acenaphthene	ug/kg	<4.2	16.7	01/11/10 14:19	
Acenaphthylene	ug/kg	<3.2	16.7	01/11/10 14:19	
Anthracene	ug/kg	<2.0	16.7	01/11/10 14:19	
Benzo(a)anthracene	ug/kg	<1.1	16.7	01/11/10 14:19	
Benzo(a)pyrene	ug/kg	<1.8	16.7	01/11/10 14:19	
Benzo(b)fluoranthene	ug/kg	<3.0	16.7	01/11/10 14:19	
Benzo(g,h,i)perylene	ug/kg	<0.92	16.7	01/11/10 14:19	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	01/11/10 14:19	
Chrysene	ug/kg	<1.2	16.7	01/11/10 14:19	
Dibenz(a,h)anthracene	ug/kg	<1.0	16.7	01/11/10 14:19	
Fluoranthene	ug/kg	<2.0	16.7	01/11/10 14:19	
Fluorene	ug/kg	<4.2	16.7	01/11/10 14:19	
Indeno(1,2,3-cd)pyrene	ug/kg	<1.0	16.7	01/11/10 14:19	
Naphthalene	ug/kg	<8.3	16.7	01/11/10 14:19	
Phenanthrene	ug/kg	<5.3	16.7	01/11/10 14:19	
Pyrene	ug/kg	<1.2	16.7	01/11/10 14:19	
2-Fluorobiphenyl (S)	%	73	38-130	01/11/10 14:19	
Terphenyl-d14 (S)	%	72	41-130	01/11/10 14:19	

LABORATORY CONTROL SAMPLE: 254002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	289	87	50-130	
2-Methylnaphthalene	ug/kg	333	290	87	48-130	
Acenaphthene	ug/kg	333	291	87	51-130	
Acenaphthylene	ug/kg	333	283	85	51-130	
Anthracene	ug/kg	333	278	83	55-130	
Benzo(a)anthracene	ug/kg	333	289	87	37-130	
Benzo(a)pyrene	ug/kg	333	279	84	56-130	
Benzo(b)fluoranthene	ug/kg	333	319	96	55-130	
Benzo(g,h,i)perylene	ug/kg	333	316	95	49-130	
Benzo(k)fluoranthene	ug/kg	333	270	81	61-130	
Chrysene	ug/kg	333	304	91	43-130	
Dibenz(a,h)anthracene	ug/kg	333	311	93	51-130	
Fluoranthene	ug/kg	333	299	90	57-130	
Fluorene	ug/kg	333	298	90	51-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	311	93	52-130	
Naphthalene	ug/kg	333	280	84	49-130	
Phenanthrene	ug/kg	333	275	82	52-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

LABORATORY CONTROL SAMPLE: 254002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	326	98	35-130	
2-Fluorobiphenyl (S)	%			71	38-130	
Terphenyl-d14 (S)	%			95	41-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 254003 254004

Parameter	Units	4027202014		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
1-Methylnaphthalene	ug/kg	<18.6	371	371	327	322	88	87	38-130	1	42	
2-Methylnaphthalene	ug/kg	<18.6	371	371	297	313	80	84	20-139	5	39	
Acenaphthene	ug/kg	<18.6	371	371	305	327	82	88	42-130	7	32	
Acenaphthylene	ug/kg	<18.6	371	371	299	320	80	86	47-130	7	31	
Anthracene	ug/kg	<18.6	371	371	290	301	78	81	33-134	4	30	
Benzo(a)anthracene	ug/kg	<18.6	371	371	293	305	79	82	27-130	4	25	
Benzo(a)pyrene	ug/kg	<18.6	371	371	287	300	77	81	35-132	4	33	
Benzo(b)fluoranthene	ug/kg	<18.6	371	371	321	346	86	93	27-141	7	39	
Benzo(g,h,i)perylene	ug/kg	<18.6	371	371	328	333	88	90	13-146	2	47	
Benzo(k)fluoranthene	ug/kg	<18.6	371	371	282	288	76	77	18-155	2	31	
Chrysene	ug/kg	<18.6	371	371	315	328	85	88	30-130	4	24	
Dibenz(a,h)anthracene	ug/kg	<18.6	371	371	318	330	86	89	33-130	4	39	
Fluoranthene	ug/kg	<18.6	371	371	282	315	76	85	37-138	11	31	
Fluorene	ug/kg	<18.6	371	371	308	332	83	89	42-130	7	32	
Indeno(1,2,3-cd)pyrene	ug/kg	<18.6	371	371	321	330	86	89	25-134	3	39	
Naphthalene	ug/kg	<18.6	371	371	286	298	77	80	39-130	4	43	
Phenanthrene	ug/kg	<18.6	371	371	285	296	77	80	32-135	4	32	
Pyrene	ug/kg	<18.6	371	371	293	337	79	91	31-130	14	26	
2-Fluorobiphenyl (S)	%						72	75	38-130			
Terphenyl-d14 (S)	%						76	88	41-130			

QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

QC Batch:	PMST/3486	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	4027159001, 4027159002, 4027159005, 4027159006, 4027159007, 4027159008, 4027159009, 4027159010, 4027159011, 4027159012, 4027159013, 4027159014, 4027159015		

SAMPLE DUPLICATE: 252767

Parameter	Units	4027126001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.9	5.5	8	10	

QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

QC Batch: WET/5310 Analysis Method: EPA 9040
QC Batch Method: EPA 9040 Analysis Description: 9040 pH
Associated Lab Samples: 4027159005

SAMPLE DUPLICATE: 253232

Parameter	Units	4027159005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.4	7.3	1	20	H1

QUALIFIERS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

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.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H1 Analysis conducted outside the recognized method holding time.

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4027159001	ACM MW 3.2 (2-4')	EPA 3541	OEXT/6529	EPA 8082	GCSV/3870
4027159002	ACM MW 3.2 (6-8')	EPA 3541	OEXT/6529	EPA 8082	GCSV/3870
4027159006	ACM-MW-4.3 (0-2')	EPA 3541	OEXT/6529	EPA 8082	GCSV/3870
4027159007	ACM-MW-4.3 (4-6')	EPA 3541	OEXT/6529	EPA 8082	GCSV/3870
4027159008	ACM-MW-4.2 (0-2')	EPA 3541	OEXT/6529	EPA 8082	GCSV/3870
4027159009	ACM-MW-4.2 (4-6')	EPA 3541	OEXT/6529	EPA 8082	GCSV/3870
4027159010	ACM SB 9.1 (0-0.5')	EPA 3541	OEXT/6529	EPA 8082	GCSV/3870
4027159011	ACM MW 4.1 (0-0.5')	EPA 3541	OEXT/6529	EPA 8082	GCSV/3870
4027159012	ACM MW 4.1 (2-4')	EPA 3541	OEXT/6529	EPA 8082	GCSV/3870
4027159013	ACM MW 4.1 (4-6')	EPA 3541	OEXT/6529	EPA 8082	GCSV/3870
4027159014	ACM MW 3.1 (2-4')	EPA 3541	OEXT/6529	EPA 8082	GCSV/3870
4027159015	ACM MW 3.1 (4-6')	EPA 3541	OEXT/6529	EPA 8082	GCSV/3870
4027159001	ACM MW 3.2 (2-4')	WI MOD DRO	OEXT/6527	WI MOD DRO	GCSV/3871
4027159002	ACM MW 3.2 (6-8')	WI MOD DRO	OEXT/6527	WI MOD DRO	GCSV/3871
4027159006	ACM-MW-4.3 (0-2')	WI MOD DRO	OEXT/6527	WI MOD DRO	GCSV/3871
4027159007	ACM-MW-4.3 (4-6')	WI MOD DRO	OEXT/6527	WI MOD DRO	GCSV/3871
4027159008	ACM-MW-4.2 (0-2')	WI MOD DRO	OEXT/6527	WI MOD DRO	GCSV/3871
4027159009	ACM-MW-4.2 (4-6')	WI MOD DRO	OEXT/6527	WI MOD DRO	GCSV/3871
4027159010	ACM SB 9.1 (0-0.5')	WI MOD DRO	OEXT/6527	WI MOD DRO	GCSV/3871
4027159011	ACM MW 4.1 (0-0.5')	WI MOD DRO	OEXT/6527	WI MOD DRO	GCSV/3871
4027159012	ACM MW 4.1 (2-4')	WI MOD DRO	OEXT/6527	WI MOD DRO	GCSV/3871
4027159013	ACM MW 4.1 (4-6')	WI MOD DRO	OEXT/6527	WI MOD DRO	GCSV/3871
4027159014	ACM MW 3.1 (2-4')	WI MOD DRO	OEXT/6527	WI MOD DRO	GCSV/3871
4027159015	ACM MW 3.1 (4-6')	WI MOD DRO	OEXT/6527	WI MOD DRO	GCSV/3871
4027159001	ACM MW 3.2 (2-4')	EPA 3546	OEXT/6528	EPA 8270 by SIM	MSSV/2344
4027159002	ACM MW 3.2 (6-8')	EPA 3546	OEXT/6528	EPA 8270 by SIM	MSSV/2344
4027159006	ACM-MW-4.3 (0-2')	EPA 3546	OEXT/6528	EPA 8270 by SIM	MSSV/2344
4027159007	ACM-MW-4.3 (4-6')	EPA 3546	OEXT/6528	EPA 8270 by SIM	MSSV/2344
4027159008	ACM-MW-4.2 (0-2')	EPA 3546	OEXT/6538	EPA 8270 by SIM	MSSV/2348
4027159009	ACM-MW-4.2 (4-6')	EPA 3546	OEXT/6528	EPA 8270 by SIM	MSSV/2344
4027159010	ACM SB 9.1 (0-0.5')	EPA 3546	OEXT/6528	EPA 8270 by SIM	MSSV/2344
4027159011	ACM MW 4.1 (0-0.5')	EPA 3546	OEXT/6528	EPA 8270 by SIM	MSSV/2344
4027159012	ACM MW 4.1 (2-4')	EPA 3546	OEXT/6531	EPA 8270 by SIM	MSSV/2346
4027159013	ACM MW 4.1 (4-6')	EPA 3546	OEXT/6531	EPA 8270 by SIM	MSSV/2346
4027159014	ACM MW 3.1 (2-4')	EPA 3546	OEXT/6531	EPA 8270 by SIM	MSSV/2346
4027159015	ACM MW 3.1 (4-6')	EPA 3546	OEXT/6531	EPA 8270 by SIM	MSSV/2346
4027159001	ACM MW 3.2 (2-4')	ASTM D2974-87	PMST/3486		
4027159002	ACM MW 3.2 (6-8')	ASTM D2974-87	PMST/3486		
4027159005	STOCKPILE COMP	ASTM D2974-87	PMST/3486		
4027159006	ACM-MW-4.3 (0-2')	ASTM D2974-87	PMST/3486		
4027159007	ACM-MW-4.3 (4-6')	ASTM D2974-87	PMST/3486		
4027159008	ACM-MW-4.2 (0-2')	ASTM D2974-87	PMST/3486		
4027159009	ACM-MW-4.2 (4-6')	ASTM D2974-87	PMST/3486		
4027159010	ACM SB 9.1 (0-0.5')	ASTM D2974-87	PMST/3486		
4027159011	ACM MW 4.1 (0-0.5')	ASTM D2974-87	PMST/3486		
4027159012	ACM MW 4.1 (2-4')	ASTM D2974-87	PMST/3486		

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027159

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4027159013	ACM MW 4.1 (4-6')	ASTM D2974-87	PMST/3486		
4027159014	ACM MW 3.1 (2-4')	ASTM D2974-87	PMST/3486		
4027159015	ACM MW 3.1 (4-6')	ASTM D2974-87	PMST/3486		
4027159005	STOCKPILE COMP	EPA 9040	WET/5310		

January 12, 2010

Client:

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Work Order: CTA0204
Project Name: Ethylene Glycol
Project Number: WO #4027159

Attn: Kang Khang

Date Received: 01/07/10

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
ACM MW 13.1 2-4'	CTA0204-01	01/05/10 10:00
ACM MW 13.1 6-8'	CTA0204-02	01/05/10 13:15

Samples were received into laboratory at a temperature of 3.10 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

Please refer to the Temperature and Sample Receipt form that is included with this report for additional information regarding the condition of samples at the time of receipt by the laboratory.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the specific sample analyzed.

Approved By:



TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
 1241 Bellevue Street, Suite 9
 Green Bay, WI 54302
 Kang Khang

Work Order: CTA0204
 Project: Ethylene Glycol
 Project Number: WO #4027159

Received: 01/07/10
 Reported: 01/12/10 16:03

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTA0204-01 (ACM MW 13.1 2-4' - Soil)				Sampled: 01/05/10 10:00			Recvd: 01/07/10 10:15		
General Chemistry Parameters									
% Solids	76.3		%	0.100	1	01/08/10 09:28	sas	10A0171	SM 2540 G
Alcohols/Gycols by GC									
Ethylene Glycol	<13.1		mg/kg dry	13.1	0.971	01/08/10 15:19	tjt	10A0167	SW 8015m
Sample ID: CTA0204-02 (ACM MW 13.1 6-8' - Soil)				Sampled: 01/05/10 13:15			Recvd: 01/07/10 10:15		
General Chemistry Parameters									
% Solids	78.6		%	0.100	1	01/08/10 09:28	sas	10A0171	SM 2540 G
Alcohols/Gycols by GC									
Ethylene Glycol	<12.7		mg/kg dry	12.7	0.968	01/08/10 15:54	tjt	10A0167	SW 8015m

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Kang Khang

Work Order: CTA0204
Project: Ethylene Glycol
Project Number: WO #4027159

Received: 01/07/10
Reported: 01/12/10 16:03

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Alcohols/Gycols by GC							
SW 8015m	10A0167	CTA0204-01	10.30	10.00	01/08/10 08:30	TJT	Direct Inject Prep
SW 8015m	10A0167	CTA0204-02	10.33	10.00	01/08/10 08:30	TJT	Direct Inject Prep

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Kang Khang

Work Order: CTA0204
Project: Ethylene Glycol
Project Number: WO #4027159

Received: 01/07/10
Reported: 01/12/10 16:03

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Alcohols/Gycols by GC														
Ethylene Glycol	10A0167			mg/kg wet	N/A	10.0	<10.0							

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
 1241 Bellevue Street, Suite 9
 Green Bay, WI 54302
 Kang Khang

Work Order: CTA0204
 Project: Ethylene Glycol
 Project Number: WO #4027159

Received: 01/07/10
 Reported: 01/12/10 16:03

LABORATORY DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
General Chemistry Parameters													
QC Source Sample: CTA0167-02													
% Solids	10A0171	65.6		%	N/A	0.100	69.0				5	10	
QC Source Sample: CTA0214-01													
% Solids	10A0171	25.6		%	N/A	0.100	25.8				1	10	

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Kang Khang

Work Order: CTA0204
Project: Ethylene Glycol
Project Number: WO #4027159

Received: 01/07/10
Reported: 01/12/10 16:03

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Alcohols/Gycols by GC Ethylene Glycol	10A0167		182	mg/kg wet	N/A	10.0	173		95		80-120			

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
 1241 Bellevue Street, Suite 9
 Green Bay, WI 54302
 Kang Khang

Work Order: CTA0204
 Project: Ethylene Glycol
 Project Number: WO #4027159

Received: 01/07/10
 Reported: 01/12/10 16:03

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Alcohols/Gycols by GC														
QC Source Sample: CTA0204-01														
Ethylene Glycol	10A0167	<13.1	231	mg/kg dry	N/A	13.1	194	192	84	82	80-120	1	20	

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Kang Khang

Work Order: CTA0204
Project: Ethylene Glycol
Project Number: WO #4027159

Received: 01/07/10
Reported: 01/12/10 16:03

DATA QUALIFIERS AND DEFINITIONS

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

Chain of Custody



Workorder: 4027159

Workorder Name: 60142656 KOENING & VITTS

Results Requested 1/13/2010

Report Invoice To		Subcontract To			Requested Analysis																	
Kang Khang Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436 Email: kang.khang@pacelabs.com		Test America P.O. 704 Enterprise Dr. Cedar Falls, IA 52603 319-277-2401																				
Item	Sample ID	Date/Time	Lab ID	Matrix	Preserved Containers										LAB USE ONLY							
					Unpreserved																	
1	ACM MW 13.1 (2-4')	1/5/2010 10:00	4027159003	Solid	1																	
2	ACM MW 13.1 (6-8')	1/5/2010 13:15	4027159004	Solid	1																	
3																						
4																						
5																						
Transfers		Released By	Date/Time	Received By	Date/Time	Comments																
1		L. Sh... Pace	1/6/10 4:30	Fed Ex																		
2				Delana... [Signature]	1/7/10 10:15																	
3																						
4																						
5																						

TestAmerica

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613
800-750-2401 • 319-277-2425 FAX

THE LEADER IN ENVIRONMENTAL TESTING

Sample Receipt and Temperature Log Form

Client: Pace Analytical Project: _____

City: _____

Date: 1-7-10 Receiver's Initials: LF Time (Delivered): 10:15

Temperature Record:

Cooler ID# (If Applicable)
Client
3.1 °C / On Ice

- Temp Blank
 Temperature out of compliance

Thermometer:

- IR - 90876942 'C'
 IR - 61997671 'B'
 IR - 61854108
 22126775

Courier:

<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> TA Field Services
<input type="checkbox"/> FedEx Ground	<input type="checkbox"/> Client
<input type="checkbox"/> US Postal Service	<input type="checkbox"/> Other
<input type="checkbox"/> Spee-Dee	

*2 No Temp Blank
Samples Bottle Temp*

Exceptions Noted

<input type="checkbox"/> Sample(s) not received in a cooler.
<input type="checkbox"/> Samples(s) received same day of sampling.
<input type="checkbox"/> Evidence of a chilling process
<input type="checkbox"/> Temperature not taken:

(Please Print Clearly)

Company Name: **Aecom**
 Branch/Location: **Milwaukee**
 Project Contact: **Dave Markiz**
 Phone: **414 577 1315**
 Project Number: **6042656**
 Project Name: **Koenig + VITS**
 Project State: **WI**
 Sampled By (Print): **David Markiz**
 Sampled By (Sign): **David Markiz**



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

4027159

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analysis Requested	PCB	PAH	PFO	Ethylene Glycol	PH
			X	X	X		
			X	X	X		
						X	
						X	
							X

Quote #: **k5k 122909.01**
 Mail To Contact: **Dave Markiz**
 Mail To Company: **Aecom**
 Mail To Address: **11425 W. Lake Park Dr Milwaukee, WI 53224**
 Invoice To Contact: **Same**
 Invoice To Company: **[Blank]**
 Invoice To Address: **[Blank]**
 Invoice To Phone: **[Blank]**

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD (billable)
 On your sample
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	Acm mw 3.2 (2-4)	1/5/10	10:23	Soil
002	Acm mw 3.2 (6-8)	1/5/10	10:40	Soil
003	Acm mw 13.1 (2-4)	1/5/10	10:50	Soil
004	Acm mw 13.1 (6-8)	1/5/10	1:15p	Soil
005	Stack pile comp	1/5/10	2:15p	Soil

*Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: **5 DAY TAT**

Transmit Prelim Rush Results by (complete what you want):

Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: **D. Markiz** Date/Time: **1/6/10**
 Relinquished By: **[Signature]** Date/Time: **1-6-10 12:40**
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: **[Signature]** Date/Time: **1-6-10 7:40**
 Received By: **[Signature]** Date/Time: **1/6/10 1240**
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

PACE Project No. **4027159**
 Receipt Temp = **201 °C**
 Sample Receipt pH **OK / Adjusted N/A**
 Cooler Custody Seal Present / Not Present **Intact / Not Intact**

(Please Print Clearly)

Company Name: Aecom
 Branch/Location: Milwaukee
 Project Contact: Dave Markelz
 Phone: 414 511 1315
 Project Number: 60142656
 Project Name: Koenig + V. H.S.
 Project State: WI
 Sampled By (Print): David Markelz
 Sampled By (Sign): David Markelz
 PO #:
 Regulatory Program:



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

4027159

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #: KSK 122909.01
 Mail To Contact: Dave Markelz
 Mail To Company: Aecom
 Mail To Address: 11425 W. Lake Park Dr Milwaukee, WI
 Invoice To Contact: Dave Markelz
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD (billable)
 On your sample
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

Filtered? (YES/NO)	Y/N	Preservation (CODE)*	Pick Letter	Analysis Requested														
				PCB														
				PAH														
				DRD														

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Filtered?	Y/N	Preservation	Pick Letter	Analysis Requested										
		DATE	TIME																
006	Acm-mw-4.3 (0-2')	11/4/10	10:50	Soil					X	X	X								
007	Acm-mw 4.3 (4-6')	11/4/10	10:40	Soil					X	X	X								
008	Acm-mw 4.2 (0-2')	11/4/10	12:30	Soil					X	X	X								
009	Acm mw 4.2 (4-6')	11/4/10	12:50	Soil					X	X	X								
010	Acm SB 9.1 (0-0.5')	11/4/10	2:15	Soil					X	X	X								
	Acm SB 10.1 (0-0.5')	11/4/10	2:20	Soil					X	X	X								
011	Acm mw 4.1 (0-0.5')	11/4/10	2:55	Soil					X	X	X								
012	Acm mw 4.1 (2-4')	11/4/10	3:00	Soil					X	X	X								
013	Acm mw 4.1 (4-6')	11/4/10	3:17	Soil					X	X	X								
014	Acm mw 3.1 (2-4')	11/5/10	8:35	Soil					X	X	X								
015	Acm mw 3.1 (4-6')	11/5/10	8:45	Soil					X	X	X								

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: 5 DAY TAT

Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: P. Man Date/Time: 11/6/10
 Relinquished By: [Signature] Date/Time: 11-6-10 12:40
 Relinquished By:
 Relinquished By:
 Relinquished By:

Received By: [Signature] Date/Time: 1-6-10 9:40
 Received By: [Signature] Date/Time: 11/6/10 1240
 Received By:
 Received By:
 Received By:

PACE Project No.
 Receipt Temp = 201 °C
 Sample Receipt pH
 OK / Adjusted N/A
 Cooler Custody Seal
 Present / Not Present
 Intact / Not Intact



Sample Condition Upon Receipt

Client Name: AECOM Project # 4027159

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

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

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature 201 Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

Optional
Proj. Due Date
Proj. Name

Person examining contents:
Date: <u>1/6/10</u>
Initials: <u>AE</u>

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix: <u>S</u>			
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): _____			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 1/6/10

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)



Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 14, 2010

Dave Markelz
AECOM, Inc.- MILWAUKEE
11425 W. Lake Park Drive
Milwaukee, WI 53224

RE: Project: 60142656 KOENING & VITTS
Pace Project No.: 4027173

Dear Dave Markelz:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2010. 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.

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

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 2

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SAMPLE SUMMARY

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027173

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4027173001	MW-SOUTH	Solid	01/06/10 14:00	01/07/10 08:40
4027173003	MW 13.1	Solid	01/06/10 14:30	01/07/10 08:40

REPORT OF LABORATORY ANALYSIS

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January 12, 2010

Client:

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Work Order: CTA0263
Project Name: Ethylene Glycol
Project Number: 4027173

Attn: Kang Khang

Date Received: 01/08/10

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW-South	CTA0263-01	01/06/10 14:00
MW 13.1	CTA0263-02	01/06/10 14:30

Samples were received into laboratory at a temperature of 2.10 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

Please refer to the Temperature and Sample Receipt form that is included with this report for additional information regarding the condition of samples at the time of receipt by the laboratory.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the specific sample analyzed.

Approved By:



TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Kang Khang

Work Order: CTA0263
Project: Ethylene Glycol
Project Number: 4027173

Received: 01/08/10
Reported: 01/12/10 16:05

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTA0263-01 (MW-South - Ground Water)						Sampled: 01/06/10 14:00		Recvd: 01/08/10 10:10	
Alcohols/Gycols by GC									
Ethylene Glycol	<10.0		mg/L	10.0	1	01/08/10 19:04	tjt	10A0207	SW 8015m
Sample ID: CTA0263-02 (MW 13.1 - Ground Water)						Sampled: 01/06/10 14:30		Recvd: 01/08/10 10:10	
Alcohols/Gycols by GC									
Ethylene Glycol	<10.0		mg/L	10.0	1	01/08/10 19:38	tjt	10A0207	SW 8015m

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Kang Khang

Work Order: CTA0263
Project: Ethylene Glycol
Project Number: 4027173

Received: 01/08/10
Reported: 01/12/10 16:05

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Alcohols/Gycols by GC							
SW 8015m	10A0207	CTA0263-01	1.00	1.00	01/08/10 15:00	TJT	Direct Inject Prep
SW 8015m	10A0207	CTA0263-02	1.00	1.00	01/08/10 15:00	TJT	Direct Inject Prep

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Kang Khang

Work Order: CTA0263
Project: Ethylene Glycol
Project Number: 4027173

Received: 01/08/10
Reported: 01/12/10 16:05

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	Limit	Q
Alcohols/Gycols by GC														
Ethylene Glycol	10A0207			mg/L	N/A	10.0	<10.0							

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Kang Khang

Work Order: CTA0263
Project: Ethylene Glycol
Project Number: 4027173

Received: 01/08/10
Reported: 01/12/10 16:05

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Alcohols/Gycols by GC														
Ethylene Glycol	10A0207		182	mg/L	N/A	10.0	148		81		80-120			

PACE ANALYTICAL SERVICES, INC. - GREEN BAY
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Kang Khang

Work Order: CTA0263
Project: Ethylene Glycol
Project Number: 4027173

Received: 01/08/10
Reported: 01/12/10 16:05

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Alcohols/Gycols by GC QC Source Sample: CTA0263-01 Ethylene Glycol	10A0207	7.54	182	mg/L	N/A	10.0	182	187	96	99	80-120	3	20	

Chain of Custody



Workorder: 4027173

Workorder Name: 60142656 KOENING & VITTS

Results Requested 1/14/2010

Report Invoice To:		Subcontractor:			Requested Analysis																
Kang Khang Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436 Email: kang.khang@pacelabs.com		Test America 704 Enterprise RD. Cedar Fall, IA 50613 319-277-2401			<div style="text-align: center;"> <p>LAB USE ONLY</p> </div>																
					Unprocessed																
1	MW-SOUTH	1/6/2010 14:00	4027173001	Solid-H ₂ O																	
2	DOCK 26 ANIT-FREEZE	1/6/2010 14:15	4027173002	Water																	
3	MW 13.1	1/6/2010 14:30	4027173003	Solid-H ₂ O																	
4																					
5																					
Transfers		Released By	Date/Time	Received By	Date/Time	Comments															
1		[Signature]	1-7-10 1700	[Signature]	1/8/10 10:00																
2																					
3																					
4																					
5																					

TestAmerica

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613
800-750-2401 • 319-277-2425 FAX

THE LEADER IN ENVIRONMENTAL TESTING

Sample Receipt and Temperature Log Form

Client: Pace Project: _____

City: Green Bay

Date: 1-8-10 Receiver's Initials: CH Time (Delivered): 10:10

Temperature Record:

Cooler ID# (If Applicable)

Client

2.1 °C / On Ice

NO
Temp Blank

Temperature out of compliance

Thermometer:

IR - 90876942 'C'

IR - 61997671 'B'

IR - 61854108

~~22126775~~

MW 13.1 vial

Courier:

UPS

~~FedEx~~

FedEx Ground

US Postal Service

Spee-Dee

TA Courier

TA Field Services

Client

Other

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

Sample(s) not received in a cooler.

Sample(s) received same day of sampling.

Evidence of a chilling process

Temperature not taken:

*Refer to SOP CF-SS-01 for Temperature Criteria

P:\QA Forms & Log Book pgs\Cooler Receipt rev15.doc

(Please Print Clearly)

Company Name: Accom
Branch/Location: Milwaukee, WI
Project Contact: Dave Markertz
Phone: 414 577 1319
Project Number: 60142656
Project Name: Koening + Vitts
Project State: WI
Sampled By (Print): David Markertz
Sampled By (Sign): *David M*
PO #:
Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

MAN Page 1 of

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)	Y/N
PRESERVATION (CODE)*	Pick Letter
	Analyses Requested
	Ethylene Glycol

Quote #:
Mail To Contact: Dave Markertz
Mail To Company: Accom
Mail To Address: 11425 W. Lake Park Dr Milwaukee WI 53224
Invoice To Contact: Same
Invoice To Company:
Invoice To Address:
Invoice To Phone:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD (billable)
 On your sample
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested
		DATE	TIME		
001	MW - South	11/16/10	2:00p	GW	X
002	Dock 26 Anti-Freeze	11/16/10	2:15p		X
003	MW 13.1	11/16/10	2:30p	GW	X

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
3 - 40 ml ^{no pres}	3-40ml ^{LA}	
2 - 40 ml ^{no pres}	2-40ml ^{LA}	
3 - 40 ml ^{no pres}	3-40ml ^{LA}	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: 5 DAY TAT
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Relinquished By: <i>David Markertz</i>	Date/Time: 11/1/2010	Received By: <i>Apporweletz</i>	Date/Time: 1/1/10 0840
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. **4027173**
 Receipt Temp = **907** °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact



Sample Condition Upon Receipt

Client Name: Aecom

Project # 4027173

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

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

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature ROT Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

Comments: _____

Person examining contents:

Date: 1/7/10

Initials: mer

Optional
Proj. Due Date
Proj. Name

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	_____	

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: W

Date: 1/7/10

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)



Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 14, 2010

Dave Markelz
AECOM, Inc.- MILWAUKEE
11425 W. Lake Park Drive
Milwaukee, WI 53224

RE: Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Dear Dave Markelz:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2010. 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.

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

Sincerely,

Kang Khang

kang.khang@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 29

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CERTIFICATIONS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
1241 Bellevue Street Green Bay, WI 54302

REPORT OF LABORATORY ANALYSIS

Page 2 of 29

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SAMPLE SUMMARY

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4027175001	MW 03.01	Water	01/06/10 15:00	01/07/10 08:40
4027175002	ACM MW 4.3	Water	01/06/10 15:30	01/07/10 08:40
4027175003	ACM MW 4.2	Water	01/06/10 15:45	01/07/10 08:40
4027175004	MW 06.18	Water	01/06/10 16:15	01/07/10 08:40
4027175005	MW 06.12	Water	01/06/10 16:45	01/07/10 08:40
4027175006	ACM MW 3.1	Water	01/07/10 06:40	01/07/10 08:40
4027175007	ACM MW 3.2	Water	01/07/10 07:10	01/07/10 08:40
4027175008	ACM MW 4.1	Water	01/07/10 07:30	01/07/10 08:40
4027175009	TRIP BLANK	Water	01/07/10 00:00	01/07/10 08:40

REPORT OF LABORATORY ANALYSIS

Page 3 of 29

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SAMPLE ANALYTE COUNT

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4027175001	MW 03.01	EPA 8082	BDS	10	PASI-G
		EPA 8260	SMT	64	PASI-G
4027175002	ACM MW 4.3	EPA 8082	BDS	10	PASI-G
		EPA 8260	SMT	64	PASI-G
4027175003	ACM MW 4.2	EPA 8082	BDS	10	PASI-G
		EPA 8260	SMT	64	PASI-G
4027175004	MW 06.18	EPA 8082	BDS	10	PASI-G
		EPA 8260	SMT	64	PASI-G
4027175005	MW 06.12	EPA 8082	BDS	10	PASI-G
		EPA 8260	SMT	64	PASI-G
4027175006	ACM MW 3.1	EPA 8082	BDS	10	PASI-G
		EPA 8260	SMT	64	PASI-G
4027175007	ACM MW 3.2	EPA 8082	BDS	10	PASI-G
		EPA 8260	SMT	64	PASI-G
4027175008	ACM MW 4.1	EPA 8082	BDS	10	PASI-G
		EPA 8260	SMT	64	PASI-G
4027175009	TRIP BLANK	EPA 8260	SMT	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: MW 03.01 Lab ID: 4027175001 Collected: 01/06/10 15:00 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:21	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:21	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:21	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:21	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:21	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:21	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:21	11096-82-5	
PCB, Total	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:21	1336-36-3	
Tetrachloro-m-xylene (S)	75 %		51-130		1	01/12/10 10:00	01/13/10 17:21	877-09-8	
Decachlorobiphenyl (S)	92 %		18-150		1	01/12/10 10:00	01/13/10 17:21	2051-24-3	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.41	ug/L	1.0	0.41	1		01/08/10 12:34	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		01/08/10 12:34	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		01/08/10 12:34	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		01/08/10 12:34	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		01/08/10 12:34	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		01/08/10 12:34	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		01/08/10 12:34	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		01/08/10 12:34	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 12:34	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		01/08/10 12:34	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		01/08/10 12:34	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		01/08/10 12:34	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/08/10 12:34	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		01/08/10 12:34	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		01/08/10 12:34	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		01/08/10 12:34	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		01/08/10 12:34	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		01/08/10 12:34	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		01/08/10 12:34	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		01/08/10 12:34	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 12:34	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		01/08/10 12:34	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		01/08/10 12:34	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		01/08/10 12:34	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		01/08/10 12:34	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		01/08/10 12:34	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		01/08/10 12:34	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		01/08/10 12:34	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		01/08/10 12:34	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		01/08/10 12:34	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		01/08/10 12:34	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		01/08/10 12:34	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		01/08/10 12:34	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		01/08/10 12:34	10061-01-5	

Date: 01/14/2010 02:02 PM

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ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: MW 03.01 Lab ID: 4027175001 Collected: 01/06/10 15:00 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		01/08/10 12:34	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		01/08/10 12:34	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		01/08/10 12:34	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		01/08/10 12:34	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		01/08/10 12:34	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		01/08/10 12:34	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		01/08/10 12:34	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		01/08/10 12:34	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		01/08/10 12:34	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		01/08/10 12:34	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		01/08/10 12:34	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		01/08/10 12:34	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		01/08/10 12:34	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		01/08/10 12:34	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		01/08/10 12:34	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		01/08/10 12:34	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 12:34	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		01/08/10 12:34	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		01/08/10 12:34	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		01/08/10 12:34	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		01/08/10 12:34	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		01/08/10 12:34	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 12:34	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 12:34	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/08/10 12:34	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		01/08/10 12:34	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		01/08/10 12:34	95-47-6	
4-Bromofluorobenzene (S)	99 %		70-130		1		01/08/10 12:34	460-00-4	
Dibromofluoromethane (S)	85 %		70-130		1		01/08/10 12:34	1868-53-7	
Toluene-d8 (S)	95 %		70-130		1		01/08/10 12:34	2037-26-5	

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: ACM MW 4.3 Lab ID: 4027175002 Collected: 01/06/10 15:30 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:39	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:39	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:39	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:39	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:39	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:39	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:39	11096-82-5	
PCB, Total	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:39	1336-36-3	
Tetrachloro-m-xylene (S)	112	%	51-130		1	01/12/10 10:00	01/13/10 17:39	877-09-8	
Decachlorobiphenyl (S)	116	%	18-150		1	01/12/10 10:00	01/13/10 17:39	2051-24-3	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.41	ug/L	1.0	0.41	1		01/08/10 12:57	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		01/08/10 12:57	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		01/08/10 12:57	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		01/08/10 12:57	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		01/08/10 12:57	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		01/08/10 12:57	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		01/08/10 12:57	104-51-8	
nec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		01/08/10 12:57	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 12:57	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		01/08/10 12:57	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		01/08/10 12:57	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		01/08/10 12:57	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/08/10 12:57	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		01/08/10 12:57	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		01/08/10 12:57	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		01/08/10 12:57	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		01/08/10 12:57	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		01/08/10 12:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		01/08/10 12:57	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		01/08/10 12:57	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 12:57	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		01/08/10 12:57	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		01/08/10 12:57	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		01/08/10 12:57	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		01/08/10 12:57	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		01/08/10 12:57	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		01/08/10 12:57	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		01/08/10 12:57	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		01/08/10 12:57	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		01/08/10 12:57	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		01/08/10 12:57	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		01/08/10 12:57	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		01/08/10 12:57	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		01/08/10 12:57	10061-01-5	

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ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS

Pace Project No.: 4027175

Sample: **ACM MW 4.3** Lab ID: **4027175002** Collected: 01/06/10 15:30 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		01/08/10 12:57	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		01/08/10 12:57	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		01/08/10 12:57	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		01/08/10 12:57	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		01/08/10 12:57	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		01/08/10 12:57	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		01/08/10 12:57	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		01/08/10 12:57	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		01/08/10 12:57	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		01/08/10 12:57	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		01/08/10 12:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		01/08/10 12:57	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		01/08/10 12:57	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		01/08/10 12:57	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		01/08/10 12:57	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		01/08/10 12:57	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 12:57	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		01/08/10 12:57	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		01/08/10 12:57	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		01/08/10 12:57	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		01/08/10 12:57	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		01/08/10 12:57	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 12:57	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 12:57	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/08/10 12:57	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		01/08/10 12:57	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		01/08/10 12:57	95-47-6	
4-Bromofluorobenzene (S)	99 %		70-130		1		01/08/10 12:57	460-00-4	
Dibromofluoromethane (S)	84 %		70-130		1		01/08/10 12:57	1868-53-7	
Toluene-d8 (S)	95 %		70-130		1		01/08/10 12:57	2037-26-5	

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS

Pace Project No.: 4027175

Sample: **ACM MW 4.2** Lab ID: **4027175003** Collected: 01/06/10 15:45 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:56	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:56	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:56	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:56	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:56	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:56	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:56	11096-82-5	
PCB, Total	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 17:56	1336-36-3	
Tetrachloro-m-xylene (S)	103	%	51-130		1	01/12/10 10:00	01/13/10 17:56	877-09-8	
Decachlorobiphenyl (S)	107	%	18-150		1	01/12/10 10:00	01/13/10 17:56	2051-24-3	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.41	ug/L	1.0	0.41	1		01/08/10 13:21	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		01/08/10 13:21	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		01/08/10 13:21	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		01/08/10 13:21	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		01/08/10 13:21	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		01/08/10 13:21	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		01/08/10 13:21	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		01/08/10 13:21	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 13:21	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		01/08/10 13:21	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		01/08/10 13:21	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		01/08/10 13:21	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/08/10 13:21	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		01/08/10 13:21	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		01/08/10 13:21	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		01/08/10 13:21	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		01/08/10 13:21	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		01/08/10 13:21	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		01/08/10 13:21	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		01/08/10 13:21	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 13:21	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		01/08/10 13:21	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		01/08/10 13:21	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		01/08/10 13:21	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		01/08/10 13:21	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		01/08/10 13:21	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		01/08/10 13:21	75-35-4	
cis-1,2-Dichloroethene	5.1	ug/L	1.0	0.83	1		01/08/10 13:21	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		01/08/10 13:21	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		01/08/10 13:21	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		01/08/10 13:21	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		01/08/10 13:21	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		01/08/10 13:21	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		01/08/10 13:21	10061-01-5	

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ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: ACM MW 4.2 Lab ID: 4027175003 Collected: 01/06/10 15:45 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		01/08/10 13:21	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		01/08/10 13:21	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		01/08/10 13:21	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		01/08/10 13:21	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		01/08/10 13:21	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		01/08/10 13:21	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		01/08/10 13:21	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		01/08/10 13:21	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		01/08/10 13:21	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		01/08/10 13:21	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		01/08/10 13:21	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		01/08/10 13:21	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		01/08/10 13:21	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		01/08/10 13:21	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		01/08/10 13:21	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		01/08/10 13:21	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 13:21	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		01/08/10 13:21	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		01/08/10 13:21	79-00-5	
Trichloroethene	0.75J	ug/L	1.0	0.48	1		01/08/10 13:21	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		01/08/10 13:21	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		01/08/10 13:21	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 13:21	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 13:21	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/08/10 13:21	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		01/08/10 13:21	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		01/08/10 13:21	95-47-6	
4-Bromofluorobenzene (S)	98 %		70-130		1		01/08/10 13:21	460-00-4	
Dibromofluoromethane (S)	85 %		70-130		1		01/08/10 13:21	1868-53-7	
Toluene-d8 (S)	97 %		70-130		1		01/08/10 13:21	2037-26-5	

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: MW 06.18 Lab ID: 4027175004 Collected: 01/06/10 16:15 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	<0.23 ug/L		0.94	0.23	1	01/12/10 10:00	01/13/10 18:14	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.23 ug/L		0.94	0.23	1	01/12/10 10:00	01/13/10 18:14	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.23 ug/L		0.94	0.23	1	01/12/10 10:00	01/13/10 18:14	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.23 ug/L		0.94	0.23	1	01/12/10 10:00	01/13/10 18:14	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.23 ug/L		0.94	0.23	1	01/12/10 10:00	01/13/10 18:14	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.23 ug/L		0.94	0.23	1	01/12/10 10:00	01/13/10 18:14	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.23 ug/L		0.94	0.23	1	01/12/10 10:00	01/13/10 18:14	11096-82-5	
PCB, Total	<0.23 ug/L		0.94	0.23	1	01/12/10 10:00	01/13/10 18:14	1336-36-3	
Tetrachloro-m-xylene (S)	112 %		51-130		1	01/12/10 10:00	01/13/10 18:14	877-09-8	
Decachlorobiphenyl (S)	114 %		18-150		1	01/12/10 10:00	01/13/10 18:14	2051-24-3	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.41 ug/L		1.0	0.41	1		01/08/10 11:23	71-43-2	
Bromobenzene	<0.82 ug/L		1.0	0.82	1		01/08/10 11:23	108-86-1	
Bromochloromethane	<0.97 ug/L		1.0	0.97	1		01/08/10 11:23	74-97-5	
Bromodichloromethane	<0.56 ug/L		1.0	0.56	1		01/08/10 11:23	75-27-4	
Bromoform	<0.94 ug/L		1.0	0.94	1		01/08/10 11:23	75-25-2	
Bromomethane	<0.91 ug/L		1.0	0.91	1		01/08/10 11:23	74-83-9	
n-Butylbenzene	<0.93 ug/L		1.0	0.93	1		01/08/10 11:23	104-51-8	
sec-Butylbenzene	<0.89 ug/L		5.0	0.89	1		01/08/10 11:23	135-98-8	
tert-Butylbenzene	<0.97 ug/L		1.0	0.97	1		01/08/10 11:23	98-06-6	
Carbon tetrachloride	<0.49 ug/L		1.0	0.49	1		01/08/10 11:23	56-23-5	
Chlorobenzene	<0.41 ug/L		1.0	0.41	1		01/08/10 11:23	108-90-7	
Chloroethane	<0.97 ug/L		1.0	0.97	1		01/08/10 11:23	75-00-3	
Chloroform	<1.3 ug/L		5.0	1.3	1		01/08/10 11:23	67-66-3	
Chloromethane	<0.24 ug/L		1.0	0.24	1		01/08/10 11:23	74-87-3	
2-Chlorotoluene	<0.85 ug/L		1.0	0.85	1		01/08/10 11:23	95-49-8	
4-Chlorotoluene	<0.74 ug/L		1.0	0.74	1		01/08/10 11:23	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7 ug/L		5.0	1.7	1		01/08/10 11:23	96-12-8	
Dibromochloromethane	<0.81 ug/L		1.0	0.81	1		01/08/10 11:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.56 ug/L		1.0	0.56	1		01/08/10 11:23	106-93-4	
Dibromomethane	<0.60 ug/L		1.0	0.60	1		01/08/10 11:23	74-95-3	
1,2-Dichlorobenzene	<0.83 ug/L		1.0	0.83	1		01/08/10 11:23	95-50-1	
1,3-Dichlorobenzene	<0.87 ug/L		1.0	0.87	1		01/08/10 11:23	541-73-1	
1,4-Dichlorobenzene	<0.95 ug/L		1.0	0.95	1		01/08/10 11:23	106-46-7	
Dichlorodifluoromethane	<0.99 ug/L		1.0	0.99	1		01/08/10 11:23	75-71-8	
1,1-Dichloroethane	<0.75 ug/L		1.0	0.75	1		01/08/10 11:23	75-34-3	
1,2-Dichloroethane	<0.36 ug/L		1.0	0.36	1		01/08/10 11:23	107-06-2	
1,1-Dichloroethene	<0.57 ug/L		1.0	0.57	1		01/08/10 11:23	75-35-4	
cis-1,2-Dichloroethene	<0.83 ug/L		1.0	0.83	1		01/08/10 11:23	156-59-2	
trans-1,2-Dichloroethene	<0.89 ug/L		1.0	0.89	1		01/08/10 11:23	156-60-5	
1,2-Dichloropropane	<0.49 ug/L		1.0	0.49	1		01/08/10 11:23	78-87-5	
1,3-Dichloropropane	<0.61 ug/L		1.0	0.61	1		01/08/10 11:23	142-28-9	
2,2-Dichloropropane	<0.62 ug/L		1.0	0.62	1		01/08/10 11:23	594-20-7	
1,1-Dichloropropene	<0.75 ug/L		1.0	0.75	1		01/08/10 11:23	563-58-6	
cis-1,3-Dichloropropene	<0.20 ug/L		1.0	0.20	1		01/08/10 11:23	10061-01-5	

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ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: MW 06.18 Lab ID: 4027175004 Collected: 01/06/10 16:15 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		01/08/10 11:23	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		01/08/10 11:23	108-20-3	
Ethylbenzene	1.5	ug/L	1.0	0.54	1		01/08/10 11:23	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		01/08/10 11:23	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		01/08/10 11:23	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		01/08/10 11:23	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		01/08/10 11:23	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		01/08/10 11:23	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		01/08/10 11:23	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		01/08/10 11:23	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		01/08/10 11:23	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		01/08/10 11:23	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		01/08/10 11:23	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		01/08/10 11:23	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		01/08/10 11:23	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		01/08/10 11:23	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 11:23	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		01/08/10 11:23	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		01/08/10 11:23	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		01/08/10 11:23	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		01/08/10 11:23	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		01/08/10 11:23	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 11:23	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 11:23	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/08/10 11:23	75-01-4	
m&p-Xylene	3.0	ug/L	2.0	1.8	1		01/08/10 11:23	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		01/08/10 11:23	95-47-6	
4-Bromofluorobenzene (S)	99 %		70-130		1		01/08/10 11:23	460-00-4	
Dibromofluoromethane (S)	82 %		70-130		1		01/08/10 11:23	1868-53-7	
Toluene-d8 (S)	95 %		70-130		1		01/08/10 11:23	2037-26-5	

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: **MW 06.12** Lab ID: **4027175005** Collected: 01/06/10 16:45 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:31	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:31	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:31	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:31	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:31	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:31	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:31	11096-82-5	
PCB, Total	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:31	1336-36-3	
Tetrachloro-m-xylene (S)	112	%	51-130		1	01/12/10 10:00	01/13/10 18:31	877-09-8	
Decachlorobiphenyl (S)	114	%	18-150		1	01/12/10 10:00	01/13/10 18:31	2051-24-3	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.41	ug/L	1.0	0.41	1		01/08/10 13:44	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		01/08/10 13:44	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		01/08/10 13:44	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		01/08/10 13:44	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		01/08/10 13:44	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		01/08/10 13:44	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		01/08/10 13:44	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		01/08/10 13:44	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 13:44	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		01/08/10 13:44	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		01/08/10 13:44	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		01/08/10 13:44	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/08/10 13:44	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		01/08/10 13:44	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		01/08/10 13:44	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		01/08/10 13:44	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		01/08/10 13:44	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		01/08/10 13:44	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		01/08/10 13:44	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		01/08/10 13:44	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 13:44	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		01/08/10 13:44	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		01/08/10 13:44	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		01/08/10 13:44	75-71-8	
1,1-Dichloroethane	0.78J	ug/L	1.0	0.75	1		01/08/10 13:44	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		01/08/10 13:44	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		01/08/10 13:44	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		01/08/10 13:44	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		01/08/10 13:44	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		01/08/10 13:44	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		01/08/10 13:44	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		01/08/10 13:44	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		01/08/10 13:44	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		01/08/10 13:44	10061-01-5	

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ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: MW 06.12 Lab ID: 4027175005 Collected: 01/06/10 16:45 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		01/08/10 13:44	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		01/08/10 13:44	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		01/08/10 13:44	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		01/08/10 13:44	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		01/08/10 13:44	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		01/08/10 13:44	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		01/08/10 13:44	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		01/08/10 13:44	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		01/08/10 13:44	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		01/08/10 13:44	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		01/08/10 13:44	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		01/08/10 13:44	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		01/08/10 13:44	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		01/08/10 13:44	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		01/08/10 13:44	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		01/08/10 13:44	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 13:44	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		01/08/10 13:44	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		01/08/10 13:44	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		01/08/10 13:44	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		01/08/10 13:44	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		01/08/10 13:44	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 13:44	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 13:44	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/08/10 13:44	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		01/08/10 13:44	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		01/08/10 13:44	95-47-6	
4-Bromofluorobenzene (S)	98 %		70-130		1		01/08/10 13:44	460-00-4	
Dibromofluoromethane (S)	83 %		70-130		1		01/08/10 13:44	1868-53-7	
Toluene-d8 (S)	95 %		70-130		1		01/08/10 13:44	2037-26-5	

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: **ACM MW 3.1** Lab ID: **4027175006** Collected: 01/07/10 06:40 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:49	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:49	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:49	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:49	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:49	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:49	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:49	11096-82-5	
PCB, Total	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 18:49	1336-36-3	
Tetrachloro-m-xylene (S)	107	%	51-130		1	01/12/10 10:00	01/13/10 18:49	877-09-8	
Decachlorobiphenyl (S)	100	%	18-150		1	01/12/10 10:00	01/13/10 18:49	2051-24-3	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.41	ug/L	1.0	0.41	1		01/08/10 14:08	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		01/08/10 14:08	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		01/08/10 14:08	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		01/08/10 14:08	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		01/08/10 14:08	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		01/08/10 14:08	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		01/08/10 14:08	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		01/08/10 14:08	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 14:08	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		01/08/10 14:08	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		01/08/10 14:08	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		01/08/10 14:08	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/08/10 14:08	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		01/08/10 14:08	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		01/08/10 14:08	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		01/08/10 14:08	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		01/08/10 14:08	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		01/08/10 14:08	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		01/08/10 14:08	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		01/08/10 14:08	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 14:08	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		01/08/10 14:08	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		01/08/10 14:08	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		01/08/10 14:08	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		01/08/10 14:08	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		01/08/10 14:08	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		01/08/10 14:08	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		01/08/10 14:08	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		01/08/10 14:08	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		01/08/10 14:08	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		01/08/10 14:08	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		01/08/10 14:08	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		01/08/10 14:08	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		01/08/10 14:08	10061-01-5	

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ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: ACM MW 3.1 Lab ID: 4027175006 Collected: 01/07/10 06:40 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		01/08/10 14:08	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		01/08/10 14:08	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		01/08/10 14:08	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		01/08/10 14:08	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		01/08/10 14:08	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		01/08/10 14:08	99-87-6	
Methylene Chloride	0.68J	ug/L	1.0	0.43	1		01/08/10 14:08	75-09-2	Z3
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		01/08/10 14:08	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		01/08/10 14:08	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		01/08/10 14:08	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		01/08/10 14:08	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		01/08/10 14:08	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		01/08/10 14:08	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		01/08/10 14:08	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		01/08/10 14:08	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		01/08/10 14:08	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 14:08	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		01/08/10 14:08	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		01/08/10 14:08	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		01/08/10 14:08	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		01/08/10 14:08	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		01/08/10 14:08	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 14:08	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 14:08	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/08/10 14:08	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		01/08/10 14:08	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		01/08/10 14:08	95-47-6	
4-Bromofluorobenzene (S)	101 %		70-130		1		01/08/10 14:08	460-00-4	
Dibromofluoromethane (S)	85 %		70-130		1		01/08/10 14:08	1868-53-7	
Toluene-d8 (S)	95 %		70-130		1		01/08/10 14:08	2037-26-5	

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: ACM MW 3.2 Lab ID: 4027175007 Collected: 01/07/10 07:10 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1016 (Aroclor 1016)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 19:06	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 19:06	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 19:06	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 19:06	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 19:06	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 19:06	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 19:06	11096-82-5	
PCB, Total	<0.23	ug/L	0.94	0.23	1	01/12/10 10:00	01/13/10 19:06	1336-36-3	
Tetrachloro-m-xylene (S)	99	%	51-130		1	01/12/10 10:00	01/13/10 19:06	877-09-8	
Decachlorobiphenyl (S)	113	%	18-150		1	01/12/10 10:00	01/13/10 19:06	2051-24-3	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.41	ug/L	1.0	0.41	1		01/08/10 14:31	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		01/08/10 14:31	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		01/08/10 14:31	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		01/08/10 14:31	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		01/08/10 14:31	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		01/08/10 14:31	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		01/08/10 14:31	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		01/08/10 14:31	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 14:31	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		01/08/10 14:31	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		01/08/10 14:31	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		01/08/10 14:31	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/08/10 14:31	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		01/08/10 14:31	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		01/08/10 14:31	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		01/08/10 14:31	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		01/08/10 14:31	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		01/08/10 14:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		01/08/10 14:31	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		01/08/10 14:31	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 14:31	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		01/08/10 14:31	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		01/08/10 14:31	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		01/08/10 14:31	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		01/08/10 14:31	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		01/08/10 14:31	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		01/08/10 14:31	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		01/08/10 14:31	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		01/08/10 14:31	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		01/08/10 14:31	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		01/08/10 14:31	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		01/08/10 14:31	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		01/08/10 14:31	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		01/08/10 14:31	10061-01-5	

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ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: **ACM MW 3.2** Lab ID: **4027175007** Collected: 01/07/10 07:10 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		01/08/10 14:31	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		01/08/10 14:31	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		01/08/10 14:31	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		01/08/10 14:31	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		01/08/10 14:31	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		01/08/10 14:31	99-87-6	
Methylene Chloride	0.48J	ug/L	1.0	0.43	1		01/08/10 14:31	75-09-2	Z3
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		01/08/10 14:31	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		01/08/10 14:31	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		01/08/10 14:31	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		01/08/10 14:31	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		01/08/10 14:31	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		01/08/10 14:31	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		01/08/10 14:31	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		01/08/10 14:31	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		01/08/10 14:31	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 14:31	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		01/08/10 14:31	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		01/08/10 14:31	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		01/08/10 14:31	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		01/08/10 14:31	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		01/08/10 14:31	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 14:31	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 14:31	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/08/10 14:31	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		01/08/10 14:31	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		01/08/10 14:31	95-47-6	
4-Bromofluorobenzene (S)	100 %		70-130		1		01/08/10 14:31	460-00-4	
Dibromofluoromethane (S)	86 %		70-130		1		01/08/10 14:31	1868-53-7	
Toluene-d8 (S)	102 %		70-130		1		01/08/10 14:31	2037-26-5	

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: ACM MW 4.1 Lab ID: 4027175008 Collected: 01/07/10 07:30 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	<0.23	ug/L	0.96	0.23	1	01/12/10 10:00	01/13/10 19:23	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.23	ug/L	0.96	0.23	1	01/12/10 10:00	01/13/10 19:23	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.23	ug/L	0.96	0.23	1	01/12/10 10:00	01/13/10 19:23	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.23	ug/L	0.96	0.23	1	01/12/10 10:00	01/13/10 19:23	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.23	ug/L	0.96	0.23	1	01/12/10 10:00	01/13/10 19:23	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.23	ug/L	0.96	0.23	1	01/12/10 10:00	01/13/10 19:23	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.23	ug/L	0.96	0.23	1	01/12/10 10:00	01/13/10 19:23	11096-82-5	
PCB, Total	<0.23	ug/L	0.96	0.23	1	01/12/10 10:00	01/13/10 19:23	1336-36-3	
Tetrachloro-m-xylene (S)	112	%	51-130		1	01/12/10 10:00	01/13/10 19:23	877-09-8	
Decachlorobiphenyl (S)	107	%	18-150		1	01/12/10 10:00	01/13/10 19:23	2051-24-3	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.41	ug/L	1.0	0.41	1		01/08/10 14:55	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		01/08/10 14:55	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		01/08/10 14:55	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		01/08/10 14:55	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		01/08/10 14:55	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		01/08/10 14:55	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		01/08/10 14:55	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		01/08/10 14:55	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 14:55	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		01/08/10 14:55	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		01/08/10 14:55	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		01/08/10 14:55	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/08/10 14:55	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		01/08/10 14:55	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		01/08/10 14:55	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		01/08/10 14:55	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		01/08/10 14:55	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		01/08/10 14:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		01/08/10 14:55	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		01/08/10 14:55	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 14:55	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		01/08/10 14:55	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		01/08/10 14:55	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		01/08/10 14:55	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		01/08/10 14:55	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		01/08/10 14:55	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		01/08/10 14:55	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		01/08/10 14:55	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		01/08/10 14:55	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		01/08/10 14:55	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		01/08/10 14:55	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		01/08/10 14:55	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		01/08/10 14:55	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		01/08/10 14:55	10061-01-5	

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: ACM MW 4.1 Lab ID: 4027175008 Collected: 01/07/10 07:30 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		01/08/10 14:55	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		01/08/10 14:55	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		01/08/10 14:55	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		01/08/10 14:55	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		01/08/10 14:55	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		01/08/10 14:55	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		01/08/10 14:55	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		01/08/10 14:55	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		01/08/10 14:55	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		01/08/10 14:55	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		01/08/10 14:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		01/08/10 14:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		01/08/10 14:55	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		01/08/10 14:55	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		01/08/10 14:55	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		01/08/10 14:55	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 14:55	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		01/08/10 14:55	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		01/08/10 14:55	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		01/08/10 14:55	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		01/08/10 14:55	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		01/08/10 14:55	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 14:55	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 14:55	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/08/10 14:55	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		01/08/10 14:55	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		01/08/10 14:55	95-47-6	
4-Bromofluorobenzene (S)	99 %		70-130		1		01/08/10 14:55	460-00-4	
Dibromofluoromethane (S)	84 %		70-130		1		01/08/10 14:55	1868-53-7	
Toluene-d8 (S)	96 %		70-130		1		01/08/10 14:55	2037-26-5	

ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: TRIP BLANK Lab ID: 4027175009 Collected: 01/07/10 00:00 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.41	ug/L	1.0	0.41	1		01/08/10 12:10	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		01/08/10 12:10	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		01/08/10 12:10	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		01/08/10 12:10	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		01/08/10 12:10	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		01/08/10 12:10	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		01/08/10 12:10	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		01/08/10 12:10	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 12:10	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		01/08/10 12:10	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		01/08/10 12:10	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		01/08/10 12:10	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/08/10 12:10	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		01/08/10 12:10	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		01/08/10 12:10	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		01/08/10 12:10	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		01/08/10 12:10	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		01/08/10 12:10	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		01/08/10 12:10	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		01/08/10 12:10	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 12:10	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		01/08/10 12:10	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		01/08/10 12:10	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		01/08/10 12:10	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		01/08/10 12:10	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		01/08/10 12:10	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		01/08/10 12:10	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		01/08/10 12:10	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		01/08/10 12:10	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		01/08/10 12:10	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		01/08/10 12:10	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		01/08/10 12:10	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		01/08/10 12:10	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		01/08/10 12:10	10061-01-5	
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		01/08/10 12:10	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		01/08/10 12:10	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		01/08/10 12:10	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		01/08/10 12:10	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		01/08/10 12:10	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		01/08/10 12:10	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		01/08/10 12:10	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		01/08/10 12:10	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		01/08/10 12:10	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		01/08/10 12:10	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		01/08/10 12:10	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		01/08/10 12:10	630-20-6	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Sample: TRIP BLANK Lab ID: 4027175009 Collected: 01/07/10 00:00 Received: 01/07/10 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		01/08/10 12:10	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		01/08/10 12:10	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		01/08/10 12:10	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		01/08/10 12:10	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 12:10	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		01/08/10 12:10	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		01/08/10 12:10	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		01/08/10 12:10	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		01/08/10 12:10	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		01/08/10 12:10	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		01/08/10 12:10	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		01/08/10 12:10	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/08/10 12:10	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		01/08/10 12:10	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		01/08/10 12:10	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		1		01/08/10 12:10	460-00-4	
Dibromofluoromethane (S)	85	%	70-130		1		01/08/10 12:10	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		01/08/10 12:10	2037-26-5	

QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

QC Batch: OEXT/6540 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 4027175001, 4027175002, 4027175003, 4027175004, 4027175005, 4027175006, 4027175007, 4027175008

METHOD BLANK: 254135 Matrix: Water
Associated Lab Samples: 4027175001, 4027175002, 4027175003, 4027175004, 4027175005, 4027175006, 4027175007, 4027175008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<0.24	1.0	01/13/10 16:12	
PCB-1221 (Aroclor 1221)	ug/L	<0.24	1.0	01/13/10 16:12	
PCB-1232 (Aroclor 1232)	ug/L	<0.24	1.0	01/13/10 16:12	
PCB-1242 (Aroclor 1242)	ug/L	<0.24	1.0	01/13/10 16:12	
PCB-1248 (Aroclor 1248)	ug/L	<0.24	1.0	01/13/10 16:12	
PCB-1254 (Aroclor 1254)	ug/L	<0.24	1.0	01/13/10 16:12	
PCB-1260 (Aroclor 1260)	ug/L	<0.24	1.0	01/13/10 16:12	
Decachlorobiphenyl (S)	%	78	18-150	01/13/10 16:12	
Tetrachloro-m-xylene (S)	%	65	51-130	01/13/10 16:12	

Parameter	Units	254136		254137		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec				
PCB-1016 (Aroclor 1016)	ug/L		<0.24	<0.24				20	
PCB-1221 (Aroclor 1221)	ug/L		<0.24	<0.24				20	
PCB-1232 (Aroclor 1232)	ug/L		<0.24	<0.24				20	
PCB-1242 (Aroclor 1242)	ug/L		<0.24	<0.24				20	
PCB-1248 (Aroclor 1248)	ug/L		<0.24	<0.24				20	
PCB-1254 (Aroclor 1254)	ug/L		<0.24	<0.24				20	
PCB-1260 (Aroclor 1260)	ug/L	5	3.6	3.9	71	78	62-130	9	20
Decachlorobiphenyl (S)	%				85	87	18-150		
Tetrachloro-m-xylene (S)	%				74	87	51-130		

QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

QC Batch: MSV/6575 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4027175001, 4027175002, 4027175003, 4027175004, 4027175005, 4027175006, 4027175007, 4027175008, 4027175009

METHOD BLANK: 253256 Matrix: Water
Associated Lab Samples: 4027175001, 4027175002, 4027175003, 4027175004, 4027175005, 4027175006, 4027175007, 4027175008, 4027175009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	01/08/10 08:25	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	01/08/10 08:25	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	01/08/10 08:25	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	01/08/10 08:25	
1,1-Dichloroethane	ug/L	<0.75	1.0	01/08/10 08:25	
1,1-Dichloroethene	ug/L	<0.57	1.0	01/08/10 08:25	
1,1-Dichloropropene	ug/L	<0.75	1.0	01/08/10 08:25	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	01/08/10 08:25	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	01/08/10 08:25	
1,2,4-Trichlorobenzene	ug/L	<0.97	1.0	01/08/10 08:25	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	01/08/10 08:25	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	01/08/10 08:25	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	01/08/10 08:25	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	01/08/10 08:25	
1,2-Dichloroethane	ug/L	<0.36	1.0	01/08/10 08:25	
1,2-Dichloropropane	ug/L	<0.49	1.0	01/08/10 08:25	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	01/08/10 08:25	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	01/08/10 08:25	
1,3-Dichloropropane	ug/L	<0.61	1.0	01/08/10 08:25	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	01/08/10 08:25	
2,2-Dichloropropane	ug/L	<0.62	1.0	01/08/10 08:25	
2-Chlorotoluene	ug/L	<0.85	1.0	01/08/10 08:25	
4-Chlorotoluene	ug/L	<0.74	1.0	01/08/10 08:25	
Benzene	ug/L	<0.41	1.0	01/08/10 08:25	
Bromobenzene	ug/L	<0.82	1.0	01/08/10 08:25	
Bromochloromethane	ug/L	<0.97	1.0	01/08/10 08:25	
Bromodichloromethane	ug/L	<0.56	1.0	01/08/10 08:25	
Bromoform	ug/L	<0.94	1.0	01/08/10 08:25	
Bromomethane	ug/L	<0.91	1.0	01/08/10 08:25	
Carbon tetrachloride	ug/L	<0.49	1.0	01/08/10 08:25	
Chlorobenzene	ug/L	<0.41	1.0	01/08/10 08:25	
Chloroethane	ug/L	<0.97	1.0	01/08/10 08:25	
Chloroform	ug/L	<1.3	5.0	01/08/10 08:25	
Chloromethane	ug/L	<0.24	1.0	01/08/10 08:25	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	01/08/10 08:25	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	01/08/10 08:25	
Dibromochloromethane	ug/L	<0.81	1.0	01/08/10 08:25	
Dibromomethane	ug/L	<0.60	1.0	01/08/10 08:25	
Dichlorodifluoromethane	ug/L	<0.99	1.0	01/08/10 08:25	
Diisopropyl ether	ug/L	<0.76	1.0	01/08/10 08:25	
Ethylbenzene	ug/L	<0.54	1.0	01/08/10 08:25	

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QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

METHOD BLANK: 253256 Matrix: Water
Associated Lab Samples: 4027175001, 4027175002, 4027175003, 4027175004, 4027175005, 4027175006, 4027175007, 4027175008, 4027175009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	01/08/10 08:25	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	01/08/10 08:25	
m&p-Xylene	ug/L	<1.8	2.0	01/08/10 08:25	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	01/08/10 08:25	
Methylene Chloride	ug/L	<0.43	1.0	01/08/10 08:25	
n-Butylbenzene	ug/L	<0.93	1.0	01/08/10 08:25	
n-Propylbenzene	ug/L	<0.81	1.0	01/08/10 08:25	
Naphthalene	ug/L	<0.89	5.0	01/08/10 08:25	
o-Xylene	ug/L	<0.83	1.0	01/08/10 08:25	
p-Isopropyltoluene	ug/L	<0.67	1.0	01/08/10 08:25	
sec-Butylbenzene	ug/L	<0.89	5.0	01/08/10 08:25	
Styrene	ug/L	<0.86	1.0	01/08/10 08:25	
tert-Butylbenzene	ug/L	<0.97	1.0	01/08/10 08:25	
Tetrachloroethene	ug/L	<0.45	1.0	01/08/10 08:25	
Toluene	ug/L	<0.67	1.0	01/08/10 08:25	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	01/08/10 08:25	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	01/08/10 08:25	
Trichloroethene	ug/L	<0.48	1.0	01/08/10 08:25	
Trichlorofluoromethane	ug/L	<0.79	1.0	01/08/10 08:25	
Vinyl chloride	ug/L	<0.18	1.0	01/08/10 08:25	
4-Bromofluorobenzene (S)	%	102	70-130	01/08/10 08:25	
Dibromofluoromethane (S)	%	86	70-130	01/08/10 08:25	
Toluene-d8 (S)	%	97	70-130	01/08/10 08:25	

LABORATORY CONTROL SAMPLE & LCSD: 253257

253258

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	42.5	44.1	85	88	70-132	4	20	
1,1,2,2-Tetrachloroethane	ug/L	50	45.8	45.8	92	92	69-130	.2	20	
1,1,2-Trichloroethane	ug/L	50	47.5	45.3	95	91	70-130	5	20	
1,1-Dichloroethane	ug/L	50	41.8	41.3	84	83	70-130	1	20	
1,1-Dichloroethene	ug/L	50	49.4	49.4	99	99	70-130	.007	20	
1,2-Dichloroethane	ug/L	50	39.6	40.3	79	81	70-134	2	20	
1,2-Dichloropropane	ug/L	50	46.2	46.0	92	92	70-130	.5	20	
Benzene	ug/L	50	44.9	44.8	90	90	70-131	.2	20	
Bromodichloromethane	ug/L	50	47.9	47.5	96	95	70-130	.8	20	
Bromoform	ug/L	50	50.8	51.4	102	103	70-130	1	20	
Bromomethane	ug/L	50	56.9	60.5	114	121	23-200	6	20	
Carbon tetrachloride	ug/L	50	44.6	44.7	89	89	70-144	.2	20	
Chlorobenzene	ug/L	50	49.1	49.4	98	99	70-130	.6	20	
Chloroethane	ug/L	50	47.4	47.4	95	95	70-136	.03	20	
Chloroform	ug/L	50	41.2	41.1	82	82	70-130	.3	20	
Chloromethane	ug/L	50	31.4	31.5	63	63	54-148	.4	20	
cis-1,2-Dichloroethene	ug/L	50	45.2	44.1	90	88	70-130	2	20	

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QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

LABORATORY CONTROL SAMPLE & LCSD: 253257			253258							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
cis-1,3-Dichloropropene	ug/L	50	50.0	49.3	100	99	70-130	1	20	
Dibromochloromethane	ug/L	50	46.3	45.7	93	91	70-130	1	20	
Ethylbenzene	ug/L	50	52.5	52.2	105	104	70-130	.6	20	
m&p-Xylene	ug/L	100	105	106	105	106	70-130	1	20	
Methylene Chloride	ug/L	50	47.2	46.8	94	94	66-130	.9	20	
o-Xylene	ug/L	50	51.0	51.5	102	103	70-130	1	20	
Styrene	ug/L	50	47.4	47.5	95	95	70-130	.1	20	
Tetrachloroethene	ug/L	50	54.0	54.8	108	110	75-130	2	20	
Toluene	ug/L	50	52.3	53.1	105	106	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	48.4	47.5	97	95	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	45.6	47.1	91	94	70-130	3	20	
Trichloroethene	ug/L	50	46.8	46.4	94	93	70-130	.9	20	
Vinyl chloride	ug/L	50	37.3	37.5	75	75	63-141	.7	20	
4-Bromofluorobenzene (S)	%				98	98	70-130			
Dibromofluoromethane (S)	%				85	85	70-130			
Toluene-d8 (S)	%				96	97	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 253346			253347								
Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		4027175004 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.90	50	50	42.7	44.0	85	88	70-137	3	20
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	47.0	46.8	94	94	67-130	.6	20
1,1,2-Trichloroethane	ug/L	<0.42	50	50	47.1	47.1	94	94	70-130	.09	20
1,1-Dichloroethane	ug/L	<0.75	50	50	42.0	42.5	84	85	70-130	1	20
1,1-Dichloroethene	ug/L	<0.57	50	50	50.3	49.1	101	98	70-130	2	20
1,2-Dichloroethane	ug/L	<0.36	50	50	39.2	40.1	78	80	69-134	2	20
1,2-Dichloropropane	ug/L	<0.49	50	50	45.4	47.6	91	95	70-130	5	20
Benzene	ug/L	<0.41	50	50	44.7	45.4	89	91	69-131	1	20
Bromodichloromethane	ug/L	<0.56	50	50	46.6	48.1	93	96	70-130	3	20
Bromoform	ug/L	<0.94	50	50	50.9	51.8	102	104	68-130	2	20
Bromomethane	ug/L	<0.91	50	50	58.2	58.3	116	117	22-200	.2	20
Carbon tetrachloride	ug/L	<0.49	50	50	44.7	46.0	89	92	70-144	3	20
Chlorobenzene	ug/L	<0.41	50	50	49.6	49.6	99	99	70-130	.06	20
Chloroethane	ug/L	<0.97	50	50	48.2	48.6	96	97	66-136	.7	20
Chloroform	ug/L	<1.3	50	50	40.9	41.4	82	83	70-130	1	20
Chloromethane	ug/L	<0.24	50	50	32.9	31.5	66	63	54-148	4	20
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	45.0	45.8	90	92	70-130	2	20
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	48.8	50.3	98	101	70-130	3	20
Dibromochloromethane	ug/L	<0.81	50	50	48.1	46.5	96	93	70-130	3	20
Ethylbenzene	ug/L	1.5	50	50	54.2	53.7	105	104	70-130	.9	20
m&p-Xylene	ug/L	3.0	100	100	109	108	106	105	70-130	1	20
Methylene Chloride	ug/L	<0.43	50	50	48.1	47.3	96	95	64-130	2	20
o-Xylene	ug/L	<0.83	50	50	51.0	50.6	102	101	70-130	.9	20
Styrene	ug/L	<0.86	50	50	43.4	42.4	87	85	43-130	2	20
Tetrachloroethene	ug/L	<0.45	50	50	55.5	54.1	111	108	70-130	3	20
Toluene	ug/L	<0.67	50	50	53.9	52.9	108	106	70-130	2	20

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QUALITY CONTROL DATA

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Parameter	Units	253346		253347		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		4027175004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	49.0	48.4	98	97	70-130	1	20			
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	46.7	46.7	93	93	70-130	.07	20			
Trichloroethene	ug/L	<0.48	50	50	46.2	48.4	92	97	70-130	5	20			
Vinyl chloride	ug/L	<0.18	50	50	38.8	38.2	78	76	59-141	2	20			
4-Bromofluorobenzene (S)	%						98	98	70-130					
Dibromofluoromethane (S)	%						85	87	70-130					
Toluene-d8 (S)	%						99	98	70-130					

QUALIFIERS

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

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.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCSV/3878

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

ANALYTE QUALIFIERS

Z3 Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60142656 KOENING & VITTS
Pace Project No.: 4027175

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4027175001	MW 03.01	EPA 3510	OEXT/6540	EPA 8082	GCSV/3878
4027175002	ACM MW 4.3	EPA 3510	OEXT/6540	EPA 8082	GCSV/3878
4027175003	ACM MW 4.2	EPA 3510	OEXT/6540	EPA 8082	GCSV/3878
4027175004	MW 06.18	EPA 3510	OEXT/6540	EPA 8082	GCSV/3878
4027175005	MW 06.12	EPA 3510	OEXT/6540	EPA 8082	GCSV/3878
4027175006	ACM MW 3.1	EPA 3510	OEXT/6540	EPA 8082	GCSV/3878
4027175007	ACM MW 3.2	EPA 3510	OEXT/6540	EPA 8082	GCSV/3878
4027175008	ACM MW 4.1	EPA 3510	OEXT/6540	EPA 8082	GCSV/3878
4027175001	MW 03.01	EPA 8260	MSV/6575		
4027175002	ACM MW 4.3	EPA 8260	MSV/6575		
4027175003	ACM MW 4.2	EPA 8260	MSV/6575		
4027175004	MW 06.18	EPA 8260	MSV/6575		
4027175005	MW 06.12	EPA 8260	MSV/6575		
4027175006	ACM MW 3.1	EPA 8260	MSV/6575		
4027175007	ACM MW 3.2	EPA 8260	MSV/6575		
4027175008	ACM MW 4.1	EPA 8260	MSV/6575		
4027175009	TRIP BLANK	EPA 8260	MSV/6575		